



KTA SPINDLE TOOLINGS

(A Tool Holder Company since 1985)

World's most preferred Indian Toolholding Company



Precision Tool Holders (K- Pack)



Vol. 2
Precision at it's Best

www.ktaspindletoolings.com

Precision Tool Holders (K - Pack) - Vol. 2

Description

- Shrink Fit Holders 4.5° (SFH 4.5°)
- Shrink Fit Holders Slim 3° (SFH 3°)
- Shrink Fit Holders 4.5° Anti Vibration (SFH - AD/AV)
- Face Mill Holders Anti Vibration (FMH-K- AD/AV)
- Side Lock Adaptors Anti Vibration (SLA - AD/AV)
- Collet Chucks "ER" Anti Vibration (ER - AD/AV)
- Die & Mould Chuck (DMC) & Accessories
- Power Milling Chuck (PMC) & Accessories
- Minimum Length Compensation Tapping Chucks (MLC) & Accessories
- Precision Wheel Arbors For Tool & Cutter Grinding Machines

Please Refer Our Upcoming "G-Pack" Catalogue (Vol : 3) For Below Listed Items

Precision Tool Holders (G - Pack) - Vol. 3

Description

- Collet Chucks "ER" Series (DIN 6499)
- Weldon Type End Mill Holders (DIN 6359)
- Face Mill Holders (DIN 6357)
- Combi Shell Mill Adaptors (DIN 6358)
- Morse Taper Adaptors (DIN 6383)
- Reduction Sleeves (BT50 X Bt40)
- Boring Bar Blanks
- Master Mandrells
- NC Drill Chucks
- Milling Cutter Arbors
- Quick Change Tapping Chucks (KWFLK) & Tap Adaptors (KWE & KWES & KWRE Series)
- Accessories For Precision Tool Holders

Note: For Hydraulic Chuck, Please Refer Our Volume 1 Catalogue.



Declaration

"This Logo is the Registered Trade Mark of KTA Spindle Toolings.

The information in this catalogue is believed to be correct. KTA Spindle Toolings, however, assumes no responsibility for any errors, inaccuracies or omissions that may appear in this catalogue.

Information in this catalogue is subject to change without notice and should not to be taken as a commitment by KTA Spindle Toolings or its subsidiaries.

Proprietor

KTA Spindle Toolings,
Hinjawadi, Pune (INDIA)"

Precision Tool Holders



CONTENTS

Description	Page No.
BT(MAS 403) (DIN ISO 7388-2)	2 - 46
KBT (MAS 403) (DIN ISO 7388-2)(Taper & Face Contact)	47 - 92
SK (DIN 69871) (DIN ISO 7388-1)	93 - 126
HSK-A (DIN 69893-1)	127 - 186
HSK-E (DIN 69893-5) & HSK-F (DIN 69893-6)	187 - 209
CAT(ANSI B5.50)	210 - 256
Precision Wheel Arbors For, CNC Tool & Cutter Grinding Machines	257 - 264
Precision Tool Holders: • Cylindrical Shank • ER-Series • Accessories	265 - 287

Precision Tool Holders

BT - DIN ISO 7388 - 2

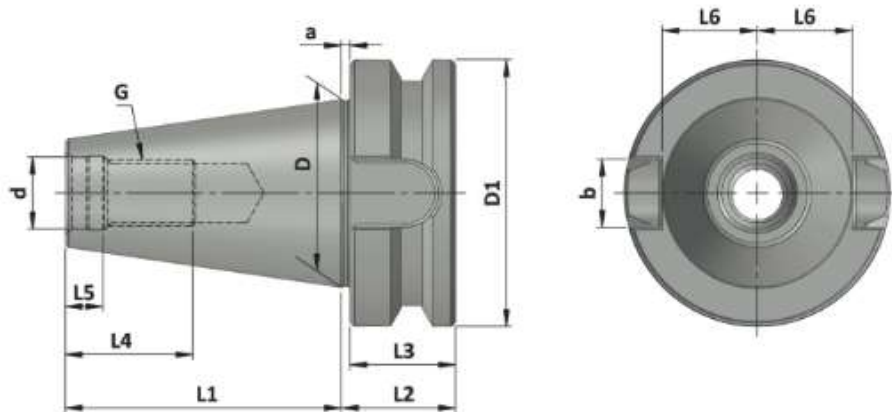
(MAS 403)



INDEX

Sr. No.	Contents		Page No.
①	Technical Information : BT (MAS 403) (DIN ISO 7388-2)		4
②	Shrink Fit Holders 4.5 Degree (SFH 4.5°) • Shrink Fit Holders (SFH 4.5°) (AD) (JD) • Shrink Fit Holders (SFH 4.5°) (AD+B) (JD/JF) • Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°) (AD) (JD) • Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°) (AD+B) (JD/JF)		5 - 20
③	Shrink Fit Holders Slim 3 Degree (SFH Slim 3°) • Shrink Fit Holders (SFH Slim 3°) (AD) (JD) • Shrink Fit Holders (SFH Slim 3°) (AD+B) (JD/JF)		21 - 25
④	Shrink Fit Holders 4.5° Anti - Vibration (SFH- AD/AV)		26 - 29
⑤	Face Mill Holders Anti - Vibration (FMH-K AD/AV)		30 - 33
⑥	Side Lock Adaptor Anti - Vibration (SLA - AD/AV)		34 - 37
⑦	Collet Chuck "ER" Anti - Vibration (ER - AD/AV)		38 - 40
⑧	Die & Mould Chuck (DMC)		41 - 42
⑨	Power Milling Chuck (PMC)		43 - 44
⑩	Minimum Length Compensation Tapping Chuck (MLC)		45 - 46

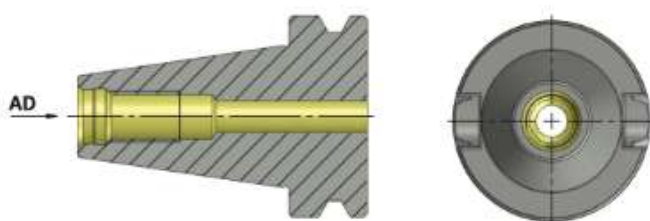
BT (MAS 403) Form A



ISO	d	d1	D	D1	a	b	e1	G	L1	L2	L3	L4	L5	L6
30	12.5	-	31.75	46	2	16.1	-	M12	48.4	22	20	24	7.0	16.3
40	17	M4	44.45	63	2	16.1	27	M16	65.4	27	25	32	9.0	22.6
50	25	M6	69.85	100	3	25.7	42	M24	101.8	38	35	47	13.0	35.4

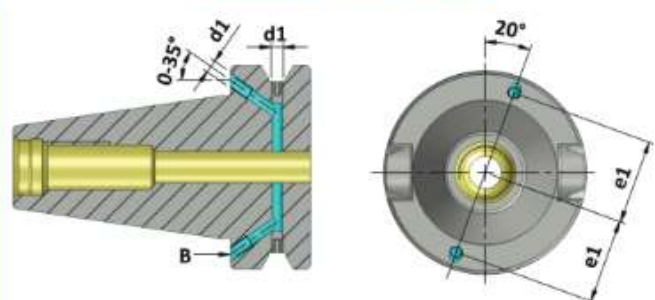
Old Name : BT (MAS 403) Form AD

New Name : BT (MAS 403) DIN ISO7388 - 2 JD
(Coolant Supply Through Center)



Old Name : BT (MAS 403) Form AD+B

New Name : BT (MAS 403) DIN ISO7388 - 2 JD/JF
(Coolant Supply Through Flange)

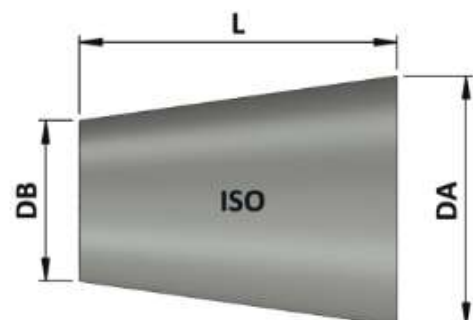


Material :- Case hardened steel, tensile strength in the core min. 950 N/mm²

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

Taper Class AT 3 Details			
ISO	L	DA-DB	AT 3
30	42	12.280	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004



Features :

- For Mounting Of Carbide Drills, End Mills etc.
- Easy to reach at Deep cavities.
- Best T.I.R. & Rigidity during long working life, Result of in house Research & Development & special Heat Treatment.

Available In Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- HSK-E (DIN 69893-5)
- HSK-F (DIN 69893-6)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

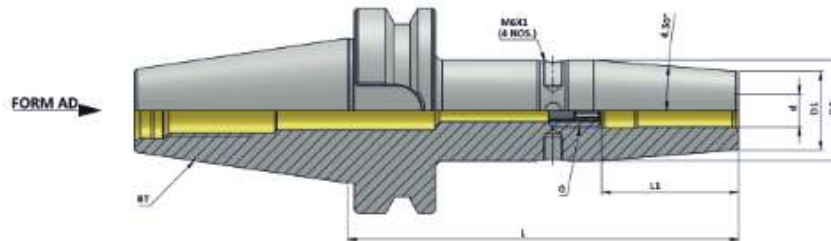
- Balanced To 2.5G 25000 SL



BT (MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



BT (MAS 403) (SFH 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT 30 SFH03 080 AD/2.5G 25000 SL	K10101274140129	30	3	10	20	—	80	12
BT 30 SFH04 080 AD/2.5G 25000 SL	K10101275140129	30	4	15	22	—	80	14
BT 30 SFH05 080 AD/2.5G 25000 SL	K10101276140129	30	5	15	22	—	80	15
BT 30 SFH06 080 AD/2.5G 25000 SL	K10101277140129	30	6	21	27	M5	80	36
BT 30 SFH08 080 AD/2.5G 25000 SL	K10101285140129	30	8	21	27	M6	80	36
BT 30 SFH10 080 AD/2.5G 25000 SL	K10101279140129	30	10	24	31	M8	80	41
BT 30 SFH12 080 AD/2.5G 25000 SL	K10101280140129	30	12	24	31	M10	80	46
BT 30 SFH14 080 AD/2.5G 25000 SL	K10101284140129	30	14	27	34	M10	80	46
BT 30 SFH16 080 AD/2.5G 25000 SL	K10101281140129	30	16	27	34	M12	80	49
BT 30 SFH18 080 AD/2.5G 25000 SL	K10101282140129	30	18	33	40	M12	80	49
BT 30 SFH20 080 AD/2.5G 25000 SL	K10101283140129	30	20	33	40	M16	80	51

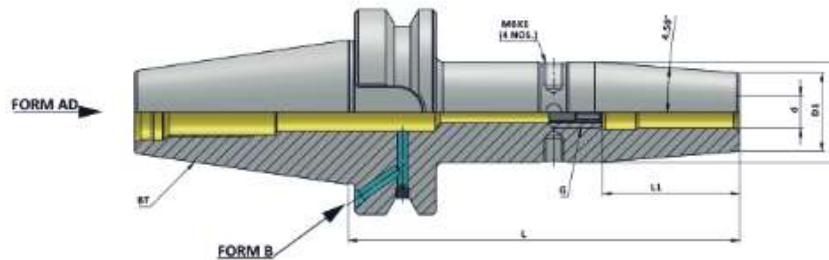
BT 30 SFH1/8" 080 AD/2.5G 25000 SL	K10101978131228	30	1/8"	10	20	—	80	12
BT 30 SFH3/16" 080 AD/2.5G 25000 SL	K10101979131228	30	3/16"	15	22	—	80	14
BT 30 SFH1/4" 080 AD/2.5G 25000 SL	K10101980131228	30	1/4"	21	27	M5	80	36
BT 30 SFH5/16" 080 AD/2.5G 25000 SL	K10101981131228	30	5/16"	21	27	M6	80	36
BT 30 SFH3/8" 080 AD/2.5G 25000 SL	K10101982131228	30	3/8"	24	31	M8	80	41
BT 30 SFH1/2" 080 AD/2.5G 25000 SL	K10101983131228	30	1/2"	24	31	M10	80	46
BT 30 SFH5/8" 080 AD/2.5G 25000 SL	K10101984131228	30	5/8"	27	34	M12	80	49
BT 30 SFH3/4" 080 AD/2.5G 25000 SL	K10101985131228	30	3/4"	33	40	M16	80	51

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



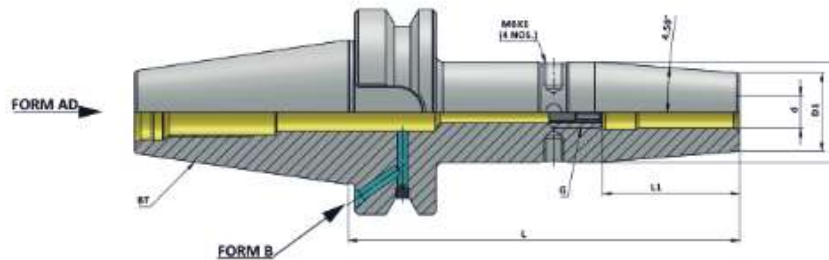
BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH03 090 AD+B/2.5G 25000 SL	K10102274140140	40	3	10	20	—	90	12
BT40 SFH03 120 AD+B/2.5G 25000 SL	K10102274162140	40	3	10	20	—	120	12
BT40 SFH03 130 AD+B/2.5G 25000 SL	K10102274165230	40	3	10	20	—	130	12
BT40 SFH03 160 AD+B/2.5G 25000 SL	K10102274175140	40	3	10	20	—	160	12
BT40 SFH04 090 AD+B/2.5G 25000 SL	K10102275140140	40	4	15	22	—	90	14
BT40 SFH04 120 AD+B/2.5G 25000 SL	K10102275162140	40	4	15	22	—	120	14
BT40 SFH04 130 AD+B/2.5G 25000 SL	K10102275165230	40	4	15	22	—	130	14
BT40 SFH04 160 AD+B/2.5G 25000 SL	K10102275175140	40	4	15	22	—	160	14
BT40 SFH05 090 AD+B/2.5G 25000 SL	K10102276140140	40	5	15	22	—	90	15
BT40 SFH05 120 AD+B/2.5G 25000 SL	K10102276162140	40	5	15	22	—	120	15
BT40 SFH05 130 AD+B/2.5G 25000 SL	K10102276165230	40	5	15	22	—	130	15
BT40 SFH05 160 AD+B/2.5G 25000 SL	K10102276175140	40	5	15	22	—	160	15
BT40 SFH06 090 AD+B/2.5G 25000 SL	K10102277140140	40	6	21	27	M5	90	36
BT40 SFH06 120 AD+B/2.5G 25000 SL	K10102277162140	40	6	21	27	M5	120	36
BT40 SFH06 130 AD+B/2.5G 25000 SL	K10102277165230	40	6	21	27	M5	130	36
BT40 SFH06 160 AD+B/2.5G 25000 SL	K10102277175140	40	6	21	27	M5	160	36
BT40 SFH06 200 AD+B/2.5G 25000 SL	K10102277239230	40	6	21	27	M5	200	36
BT40 SFH08 090 AD+B/2.5G 25000 SL	K10102285140140	40	8	21	27	M6	90	36
BT40 SFH08 120 AD+B/2.5G 25000 SL	K10102285162140	40	8	21	27	M6	120	36
BT40 SFH08 130 AD+B/2.5G 25000 SL	K10102285165230	40	8	21	27	M6	130	36
BT40 SFH08 160 AD+B/2.5G 25000 SL	K10102285175140	40	8	21	27	M6	160	36
BT40 SFH08 200 AD+B/2.5G 25000 SL	K10102285239230	40	8	21	27	M6	200	36
BT40 SFH10 090 AD+B/2.5G 25000 SL	K10102279140140	40	10	24	31	M8	90	41
BT40 SFH10 120 AD+B/2.5G 25000 SL	K10102279162140	40	10	24	31	M8	120	41
BT40 SFH10 130 AD+B/2.5G 25000 SL	K10102279165230	40	10	24	31	M8	130	41
BT40 SFH10 160 AD+B/2.5G 25000 SL	K10102279175140	40	10	24	31	M8	160	41
BT40 SFH10 200 AD+B/2.5G 25000 SL	K10102279239230	40	10	24	31	M8	200	41
BT40 SFH12 090 AD+B/2.5G 25000 SL	K10102280140140	40	12	24	31	M10	90	46
BT40 SFH12 120 AD+B/2.5G 25000 SL	K10102280162140	40	12	24	31	M10	120	46
BT40 SFH12 130 AD+B/2.5G 25000 SL	K10102280165230	40	12	24	31	M10	130	46
BT40 SFH12 160 AD+B/2.5G 25000 SL	K10102280175140	40	12	24	31	M10	160	46
BT40 SFH12 200 AD+B/2.5G 25000 SL	K10102280239230	40	12	24	31	M10	200	46
BT40 SFH14 090 AD+B/2.5G 25000 SL	K10102284140140	40	14	27	34	M10	90	46
BT40 SFH14 120 AD+B/2.5G 25000 SL	K10102284162140	40	14	27	34	M10	120	46
BT40 SFH14 130 AD+B/2.5G 25000 SL	K10102284165230	40	14	27	34	M10	130	46
BT40 SFH14 160 AD+B/2.5G 25000 SL	K10102284175140	40	14	27	34	M10	160	46
BT40 SFH14 200 AD+B/2.5G 25000 SL	K10102284239230	40	14	27	34	M10	200	46

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



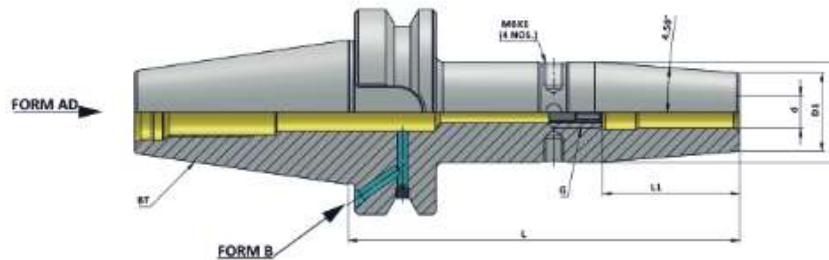
BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH16 090 AD+B/2.5G 25000 SL	K10102281140140	40	16	27	34	M12	90	49
BT40 SFH16 120 AD+B/2.5G 25000 SL	K10102281162140	40	16	27	34	M12	120	49
BT40 SFH16 130 AD+B/2.5G 25000 SL	K10102281165230	40	16	27	34	M12	130	49
BT40 SFH16 160 AD+B/2.5G 25000 SL	K10102281175140	40	16	27	34	M12	160	49
BT40 SFH16 200 AD+B/2.5G 25000 SL	K10102281239230	40	16	27	34	M12	200	49
BT40 SFH18 090 AD+B/2.5G 25000 SL	K10102282140140	40	18	33	40	M12	90	49
BT40 SFH18 120 AD+B/2.5G 25000 SL	K10102282162140	40	18	33	40	M12	120	49
BT40 SFH18 130 AD+B/2.5G 25000 SL	K10102282165230	40	18	33	40	M12	130	49
BT40 SFH18 160 AD+B/2.5G 25000 SL	K10102282175140	40	18	33	40	M12	160	49
BT40 SFH18 200 AD+B/2.5G 25000 SL	K10102282239230	40	18	33	40	M12	200	49
BT40 SFH20 090 AD+B/2.5G 25000 SL	K10102283140140	40	20	33	40	M16	90	51
BT40 SFH20 120 AD+B/2.5G 25000 SL	K10102283162140	40	20	33	40	M16	120	51
BT40 SFH20 130 AD+B/2.5G 25000 SL	K10102283165230	40	20	33	40	M16	130	51
BT40 SFH20 160 AD+B/2.5G 25000 SL	K10102283175140	40	20	33	40	M16	160	51
BT40 SFH20 200 AD+B/2.5G 25000 SL	K10102283239230	40	20	33	40	M16	200	51
BT40 SFH25 100 AD+B/2.5G 25000 SL	K10102287148140	40	25	44	53	M16	100	57
BT40 SFH25 120 AD+B/2.5G 25000 SL	K10102287162140	40	25	44	53	M16	120	57
BT40 SFH25 130 AD+B/2.5G 25000 SL	K10102287165230	40	25	44	53	M16	130	57
BT40 SFH25 160 AD+B/2.5G 25000 SL	K10102287175140	40	25	44	53	M16	160	57
BT40 SFH25 200 AD+B/2.5G 25000 SL	K10102287239230	40	25	44	53	M16	200	57
BT40 SFH32 100 AD+B/2.5G 25000 SL	K10102288148140	40	32	44	53	M16	100	61
BT40 SFH32 120 AD+B/2.5G 25000 SL	K10102288162140	40	32	44	53	M16	120	61
BT40 SFH32 130 AD+B/2.5G 25000 SL	K10102288165230	40	32	44	53	M16	130	61
BT40 SFH32 160 AD+B/2.5G 25000 SL	K10102288175140	40	32	44	53	M16	160	61
BT40 SFH32 200 AD+B/2.5G 25000 SL	K10102288239230	40	32	44	53	M16	200	61

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

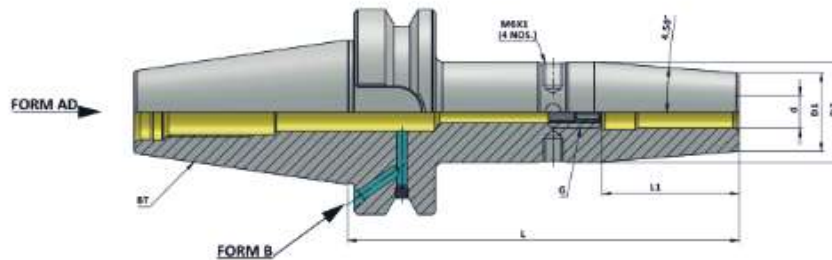


BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH1/8" 090 AD+B/2.5G 25000 SL	K10102978140230	40	1/8"	10	20	—	90	12
BT40 SFH1/8" 120 AD+B/2.5G 25000 SL	K10102978162230	40	1/8"	10	20	—	120	12
BT40 SFH1/8" 130 AD+B/2.5G 25000 SL	K10102978165230	40	1/8"	10	20	—	130	12
BT40 SFH1/8" 160 AD+B/2.5G 25000 SL	K10102978175230	40	1/8"	10	20	—	160	12
BT40 SFH3/16" 090 AD+B/2.5G 25000 SL	K10102979140230	40	3/16"	15	22	—	90	14
BT40 SFH3/16" 120 AD+B/2.5G 25000 SL	K10102979162230	40	3/16"	15	22	—	120	14
BT40 SFH3/16" 130 AD+B/2.5G 25000 SL	K10102979165230	40	3/16"	15	22	—	130	14
BT40 SFH3/16" 160 AD+B/2.5G 25000 SL	K10102979175230	40	3/16"	15	22	—	160	14
BT40 SFH1/4" 090 AD+B/2.5G 25000 SL	K10102980140230	40	1/4"	21	27	M5	90	36
BT40 SFH1/4" 120 AD+B/2.5G 25000 SL	K10102980162230	40	1/4"	21	27	M5	120	36
BT40 SFH1/4" 130 AD+B/2.5G 25000 SL	K10102980165230	40	1/4"	21	27	M5	130	36
BT40 SFH1/4" 160 AD+B/2.5G 25000 SL	K10102980175230	40	1/4"	21	27	M5	160	36
BT40 SFH1/4" 200 AD+B/2.5G 25000 SL	K10102980239230	40	1/4"	21	27	M5	200	36
BT40 SFH5/16" 090 AD+B/2.5G 25000 SL	K10102981140230	40	5/16"	21	27	M6	90	36
BT40 SFH5/16" 120 AD+B/2.5G 25000 SL	K10102981162230	40	5/16"	21	27	M6	120	36
BT40 SFH5/16" 130 AD+B/2.5G 25000 SL	K10102981165230	40	5/16"	21	27	M6	130	36
BT40 SFH5/16" 160 AD+B/2.5G 25000 SL	K10102981175230	40	5/16"	21	27	M6	160	36
BT40 SFH5/16" 200 AD+B/2.5G 25000 SL	K10102981239230	40	5/16"	21	27	M6	200	36
BT40 SFH3/8" 090 AD+B/2.5G 25000 SL	K10102982140230	40	3/8"	24	31	M8	90	41
BT40 SFH3/8" 120 AD+B/2.5G 25000 SL	K10102982162230	40	3/8"	24	31	M8	120	41
BT40 SFH3/8" 130 AD+B/2.5G 25000 SL	K10102982165230	40	3/8"	24	31	M8	130	41
BT40 SFH3/8" 160 AD+B/2.5G 25000 SL	K10102982175230	40	3/8"	24	31	M8	160	41
BT40 SFH3/8" 200 AD+B/2.5G 25000 SL	K10102982239230	40	3/8"	24	31	M8	200	41
BT40 SFH1/2" 090 AD+B/2.5G 25000 SL	K10102983140230	40	1/2"	24	31	M10	90	46
BT40 SFH1/2" 120 AD+B/2.5G 25000 SL	K10102983162230	40	1/2"	24	31	M10	120	46
BT40 SFH1/2" 130 AD+B/2.5G 25000 SL	K10102983165230	40	1/2"	24	31	M10	130	46
BT40 SFH1/2" 160 AD+B/2.5G 25000 SL	K10102983175230	40	1/2"	24	31	M10	160	46
BT40 SFH1/2" 200 AD+B/2.5G 25000 SL	K10102983239230	40	1/2"	24	31	M10	200	46
BT40 SFH5/8" 090 AD+B/2.5G 25000 SL	K10102984140230	40	5/8"	27	34	M12	90	49
BT40 SFH5/8" 120 AD+B/2.5G 25000 SL	K10102984162230	40	5/8"	27	34	M12	120	49
BT40 SFH5/8" 130 AD+B/2.5G 25000 SL	K10102984165230	40	5/8"	27	34	M12	130	49
BT40 SFH5/8" 160 AD+B/2.5G 25000 SL	K10102984175230	40	5/8"	27	34	M12	160	49
BT40 SFH5/8" 200 AD+B/2.5G 25000 SL	K10102984239230	40	5/8"	27	34	M12	200	49
BT40 SFH3/4" 090 AD+B/2.5G 25000 SL	K10102985140230	40	3/4"	33	40	M16	90	51
BT40 SFH3/4" 120 AD+B/2.5G 25000 SL	K10102985162230	40	3/4"	33	40	M16	120	51
BT40 SFH3/4" 130 AD+B/2.5G 25000 SL	K10102985165230	40	3/4"	33	40	M16	130	51
BT40 SFH3/4" 160 AD+B/2.5G 25000 SL	K10102985175230	40	3/4"	33	40	M16	160	51
BT40 SFH3/4" 200 AD+B/2.5G 25000 SL	K10102985239230	40	3/4"	33	40	M16	200	51

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



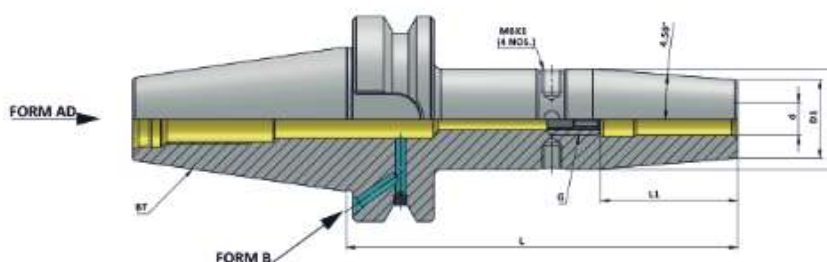
BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH1.0" 100 AD+B/2.5G 25000 SL	K10102986148230	40	1.0"	44	53	M16	100	57
BT40 SFH1.0" 120 AD+B/2.5G 25000 SL	K10102986162230	40	1.0"	44	53	M16	120	57
BT40 SFH1.0" 130 AD+B/2.5G 25000 SL	K10102986165230	40	1.0"	44	53	M16	130	57
BT40 SFH1.0" 160 AD+B/2.5G 25000 SL	K10102986175230	40	1.0"	44	53	M16	160	57
BT40 SFH1.0" 200 AD+B/2.5G 25000 SL	K10102986239230	40	1.0"	44	53	M16	200	57
BT40 SFH1-1/4" 100 AD+B/2.5G 25000 SL	K10102987148230	40	1-1/4"	44	53	M16	100	61
BT40 SFH1-1/4" 120 AD+B/2.5G 25000 SL	K10102987162230	40	1-1/4"	44	53	M16	120	61
BT40 SFH1-1/4" 130 AD+B/2.5G 25000 SL	K10102987165230	40	1-1/4"	44	53	M16	130	61
BT40 SFH1-1/4" 160 AD+B/2.5G 25000 SL	K10102987175230	40	1-1/4"	44	53	M16	160	61
BT40 SFH1-1/4" 200 AD+B/2.5G 25000 SL	K10102987239230	40	1-1/4"	44	53	M16	200	61

BT 50 SFH03 100 AD+B/2.5G 25000 SL	K10103274148140	50	3	10	20	—	100	12
BT 50 SFH03 120 AD+B/2.5G 25000 SL	K10103274162140	50	3	10	20	—	120	12
BT 50 SFH03 130 AD+B/2.5G 25000 SL	K10103274165230	50	3	10	20	—	130	12
BT 50 SFH03 160 AD+B/2.5G 25000 SL	K10103274175140	50	3	10	20	—	160	12
BT 50 SFH04 100 AD+B/2.5G 25000 SL	K10103275148140	50	4	15	22	—	100	14
BT 50 SFH04 120 AD+B/2.5G 25000 SL	K10103275162140	50	4	15	22	—	120	14
BT 50 SFH04 130 AD+B/2.5G 25000 SL	K10103275165230	50	4	15	22	—	130	14
BT 50 SFH04 160 AD+B/2.5G 25000 SL	K10103275175140	50	4	15	22	—	160	14
BT 50 SFH05 100 AD+B/2.5G 25000 SL	K10103276148140	50	5	15	22	—	100	15
BT 50 SFH05 120 AD+B/2.5G 25000 SL	K10103276162140	50	5	15	22	—	120	15
BT 50 SFH05 130 AD+B/2.5G 25000 SL	K10103276165230	50	5	15	22	—	130	15
BT 50 SFH05 160 AD+B/2.5G 25000 SL	K10103276175140	50	5	15	22	—	160	15
BT 50 SFH06 100 AD+B/2.5G 25000 SL	K10103277148140	50	6	21	27	M5	100	36
BT 50 SFH06 120 AD+B/2.5G 25000 SL	K10103277162140	50	6	21	27	M5	120	36
BT 50 SFH06 130 AD+B/2.5G 25000 SL	K10103277165230	50	6	21	27	M5	130	36
BT 50 SFH06 160 AD+B/2.5G 25000 SL	K10103277175140	50	6	21	27	M5	160	36
BT 50 SFH06 200 AD+B/2.5G 25000 SL	K10103277239230	50	6	21	27	M5	200	36
BT 50 SFH08 100 AD+B/2.5G 25000 SL	K10103285148140	50	8	21	27	M6	100	36
BT 50 SFH08 120 AD+B/2.5G 25000 SL	K10103285162140	50	8	21	27	M6	120	36
BT 50 SFH08 130 AD+B/2.5G 25000 SL	K10103285165230	50	8	21	27	M6	130	36
BT 50 SFH08 160 AD+B/2.5G 25000 SL	K10103285175140	50	8	21	27	M6	160	36
BT 50 SFH08 200 AD+B/2.5G 25000 SL	K10103285239230	50	8	21	27	M6	200	36
BT 50 SFH10 100 AD+B/2.5G 25000 SL	K10103279148140	50	10	24	31	M8	100	41
BT 50 SFH10 120 AD+B/2.5G 25000 SL	K10103279162140	50	10	24	31	M8	120	41
BT 50 SFH10 130 AD+B/2.5G 25000 SL	K10103279165230	50	10	24	31	M8	130	41
BT 50 SFH10 160 AD+B/2.5G 25000 SL	K10103279175140	50	10	24	31	M8	160	41
BT 50 SFH10 200 AD+B/2.5G 25000 SL	K10103279239230	50	10	24	31	M8	200	41

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



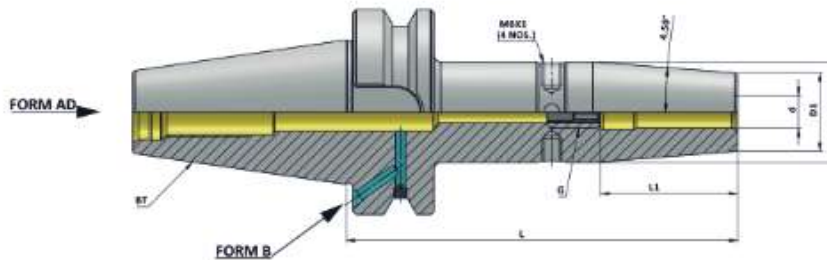
BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT 50 SFH12 100 AD+B/2.5G 25000 SL	K10103280148140	50	12	24	31	M10	100	46
BT 50 SFH12 120 AD+B/2.5G 25000 SL	K10103280162140	50	12	24	31	M10	120	46
BT 50 SFH12 130 AD+B/2.5G 25000 SL	K10103280165230	50	12	24	31	M10	130	46
BT 50 SFH12 160 AD+B/2.5G 25000 SL	K10103280175140	50	12	24	31	M10	160	46
BT 50 SFH12 200 AD+B/2.5G 25000 SL	K10103280239230	50	12	24	31	M10	200	46
BT 50 SFH14 100 AD+B/2.5G 25000 SL	K10103284148140	50	14	27	34	M10	100	46
BT 50 SFH14 120 AD+B/2.5G 25000 SL	K10103284162140	50	14	27	34	M10	120	46
BT 50 SFH14 130 AD+B/2.5G 25000 SL	K10103284165230	50	14	27	34	M10	130	46
BT 50 SFH14 160 AD+B/2.5G 25000 SL	K10103284175140	50	14	27	34	M10	160	46
BT 50 SFH14 200 AD+B/2.5G 25000 SL	K10103284239230	50	14	27	34	M10	200	46
BT 50 SFH16 100 AD+B/2.5G 25000 SL	K10103281148140	50	16	27	34	M12	100	49
BT 50 SFH16 120 AD+B/2.5G 25000 SL	K10103281162140	50	16	27	34	M12	120	49
BT 50 SFH16 130 AD+B/2.5G 25000 SL	K10103281165230	50	16	27	34	M12	130	49
BT 50 SFH16 160 AD+B/2.5G 25000 SL	K10103281175140	50	16	27	34	M12	160	49
BT 50 SFH16 200 AD+B/2.5G 25000 SL	K10103281239230	50	16	27	34	M12	200	49
BT 50 SFH18 100 AD+B/2.5G 25000 SL	K10103282148140	50	18	33	40	M12	100	49
BT 50 SFH18 120 AD+B/2.5G 25000 SL	K10103282162140	50	18	33	40	M12	120	49
BT 50 SFH18 130 AD+B/2.5G 25000 SL	K10103282165230	50	18	33	40	M12	130	49
BT 50 SFH18 160 AD+B/2.5G 25000 SL	K10103282175140	50	18	33	40	M12	160	49
BT 50 SFH18 200 AD+B/2.5G 25000 SL	K10103282239230	50	18	33	40	M12	200	49
BT 50 SFH20 100 AD+B/2.5G 25000 SL	K10103283148140	50	20	33	40	M16	100	51
BT 50 SFH20 120 AD+B/2.5G 25000 SL	K10103283162140	50	20	33	40	M16	120	51
BT 50 SFH20 130 AD+B/2.5G 25000 SL	K10103283165230	50	20	33	40	M16	130	51
BT 50 SFH20 160 AD+B/2.5G 25000 SL	K10103283175140	50	20	33	40	M16	160	51
BT 50 SFH20 200 AD+B/2.5G 25000 SL	K10103283239230	50	20	33	40	M16	200	51
BT 50 SFH25 110 AD+B/2.5G 25000 SL	K10103287156140	50	25	44	53	M16	110	57
BT 50 SFH25 120 AD+B/2.5G 25000 SL	K10103287162140	50	25	44	53	M16	120	57
BT 50 SFH25 130 AD+B/2.5G 25000 SL	K10103287165230	50	25	44	53	M16	130	57
BT 50 SFH25 160 AD+B/2.5G 25000 SL	K10103287175140	50	25	44	53	M16	160	57
BT 50 SFH25 200 AD+B/2.5G 25000 SL	K10103287239230	50	25	44	53	M16	200	57
BT 50 SFH32 110 AD+B/2.5G 25000 SL	K10103288156140	50	32	44	53	M16	110	61
BT 50 SFH32 120 AD+B/2.5G 25000 SL	K10103288162140	50	32	44	53	M16	120	61
BT 50 SFH32 130 AD+B/2.5G 25000 SL	K10103288165230	50	32	44	53	M16	130	61
BT 50 SFH32 160 AD+B/2.5G 25000 SL	K10103288175140	50	32	44	53	M16	160	61
BT 50 SFH32 200 AD+B/2.5G 25000 SL	K10103288239230	50	32	44	53	M16	200	61

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



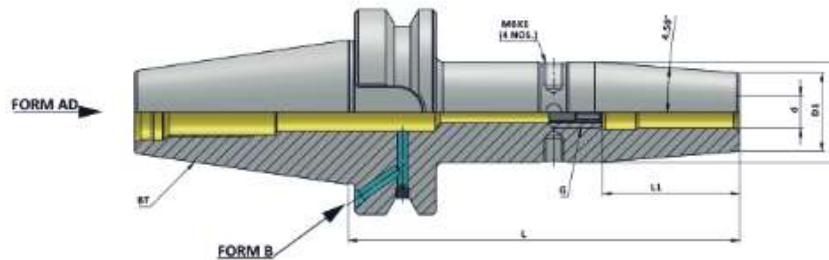
BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT50 SFH1/8" 100 AD+B/2.5G 25000 SL	K10103978148230	50	1/8"	10	20	—	100	12
BT50 SFH1/8" 120 AD+B/2.5G 25000 SL	K10103978162230	50	1/8"	10	20	—	120	12
BT50 SFH1/8" 130 AD+B/2.5G 25000 SL	K10103978165230	50	1/8"	10	20	—	130	12
BT50 SFH1/8" 160 AD+B/2.5G 25000 SL	K10103978175230	50	1/8"	10	20	—	160	12
BT50 SFH3/16" 100 AD+B/2.5G 25000 SL	K10103979148230	50	3/16"	15	22	—	100	14
BT50 SFH3/16" 120 AD+B/2.5G 25000 SL	K10103979162230	50	3/16"	15	22	—	120	14
BT50 SFH3/16" 130 AD+B/2.5G 25000 SL	K10103979165230	50	3/16"	15	22	—	130	14
BT50 SFH3/16" 160 AD+B/2.5G 25000 SL	K10103979175230	50	3/16"	15	22	—	160	14
BT50 SFH1/4" 100 AD+B/2.5G 25000 SL	K10103980148230	50	1/4"	21	27	M5	100	36
BT50 SFH1/4" 120 AD+B/2.5G 25000 SL	K10103980162230	50	1/4"	21	27	M5	120	36
BT50 SFH1/4" 130 AD+B/2.5G 25000 SL	K10103980165230	50	1/4"	21	27	M5	130	36
BT50 SFH1/4" 160 AD+B/2.5G 25000 SL	K10103980175230	50	1/4"	21	27	M5	160	36
BT50 SFH1/4" 200 AD+B/2.5G 25000 SL	K10103980239230	50	1/4"	21	27	M5	200	36
BT50 SFH5/16" 100 AD+B/2.5G 25000 SL	K10103981148230	50	5/16"	21	27	M6	100	36
BT50 SFH5/16" 120 AD+B/2.5G 25000 SL	K10103981162230	50	5/16"	21	27	M6	120	36
BT50 SFH5/16" 130 AD+B/2.5G 25000 SL	K10103981165230	50	5/16"	21	27	M6	130	36
BT50 SFH5/16" 160 AD+B/2.5G 25000 SL	K10103981175230	50	5/16"	21	27	M6	160	36
BT50 SFH5/16" 200 AD+B/2.5G 25000 SL	K10103981239230	50	5/16"	21	27	M6	200	36
BT50 SFH3/8" 100 AD+B/2.5G 25000 SL	K10103982148230	50	3/8"	24	31	M8	100	41
BT50 SFH3/8" 120 AD+B/2.5G 25000 SL	K10103982162230	50	3/8"	24	31	M8	120	41
BT50 SFH3/8" 130 AD+B/2.5G 25000 SL	K10103982165230	50	3/8"	24	31	M8	130	41
BT50 SFH3/8" 160 AD+B/2.5G 25000 SL	K10103982175230	50	3/8"	24	31	M8	160	41
BT50 SFH3/8" 200 AD+B/2.5G 25000 SL	K10103982239230	50	3/8"	24	31	M8	200	41
BT50 SFH1/2" 100 AD+B/2.5G 25000 SL	K10103983148230	50	1/2"	24	31	M10	100	46
BT50 SFH1/2" 120 AD+B/2.5G 25000 SL	K10103983162230	50	1/2"	24	31	M10	120	46
BT50 SFH1/2" 130 AD+B/2.5G 25000 SL	K10103983165230	50	1/2"	24	31	M10	130	46
BT50 SFH1/2" 160 AD+B/2.5G 25000 SL	K10103983175230	50	1/2"	24	31	M10	160	46
BT50 SFH1/2" 200 AD+B/2.5G 25000 SL	K10103983239230	50	1/2"	24	31	M10	200	46
BT50 SFH5/8" 100 AD+B/2.5G 25000 SL	K10103984148230	50	5/8"	27	34	M12	100	49
BT50 SFH5/8" 120 AD+B/2.5G 25000 SL	K10103984162230	50	5/8"	27	34	M12	120	49
BT50 SFH5/8" 130 AD+B/2.5G 25000 SL	K10103984165230	50	5/8"	27	34	M12	130	49
BT50 SFH5/8" 160 AD+B/2.5G 25000 SL	K10103984175230	50	5/8"	27	34	M12	160	49
BT50 SFH5/8" 200 AD+B/2.5G 25000 SL	K10103984239230	50	5/8"	27	34	M12	200	49

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



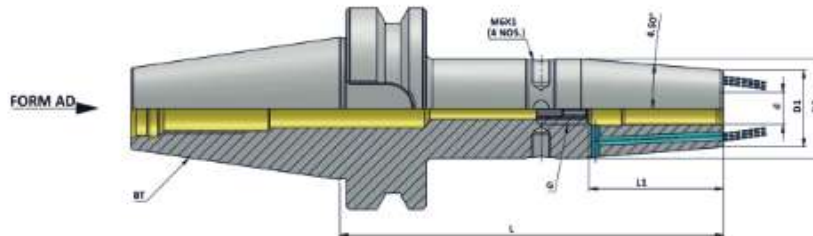
BT (MAS 403) (SFH 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT50 SFH3/4" 100 AD+B/2.5G 25000 SL	K10103985148230	50	3/4"	33	40	M16	100	51
BT50 SFH3/4" 120 AD+B/2.5G 25000 SL	K10103985162230	50	3/4"	33	40	M16	120	51
BT50 SFH3/4" 130 AD+B/2.5G 25000 SL	K10103985165230	50	3/4"	33	40	M16	130	51
BT50 SFH3/4" 160 AD+B/2.5G 25000 SL	K10103985175230	50	3/4"	33	40	M16	160	51
BT50 SFH3/4" 200 AD+B/2.5G 25000 SL	K10103985239230	50	3/4"	33	40	M16	200	51
BT50 SFH1.0" 110 AD+B/2.5G 25000 SL	K10103986156230	50	1.0"	44	53	M16	110	57
BT50 SFH1.0" 120 AD+B/2.5G 25000 SL	K10103986162230	50	1.0"	44	53	M16	120	57
BT50 SFH1.0" 130 AD+B/2.5G 25000 SL	K10103986165230	50	1.0"	44	53	M16	130	57
BT50 SFH1.0" 160 AD+B/2.5G 25000 SL	K10103986175230	50	1.0"	44	53	M16	160	57
BT50 SFH1.0" 200 AD+B/2.5G 25000 SL	K10103986239230	50	1.0"	44	53	M16	200	57
BT50 SFH1-1/4" 110 AD+B/2.5G 25000 SL	K10103987156230	50	1-1/4"	44	53	M16	110	61
BT50 SFH1-1/4" 120 AD+B/2.5G 25000 SL	K10103987162230	50	1-1/4"	44	53	M16	120	61
BT50 SFH1-1/4" 130 AD+B/2.5G 25000 SL	K10103987165230	50	1-1/4"	44	53	M16	130	61
BT50 SFH1-1/4" 160 AD+B/2.5G 25000 SL	K10103987175230	50	1-1/4"	44	53	M16	160	61
BT50 SFH1-1/4" 200 AD+B/2.5G 25000 SL	K10103987239230	50	1-1/4"	44	53	M16	200	61

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



BT (MAS 403) (SFH FCC 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT 30 SFH03 080 FCC 2.5G 25000 SL	K10101274131256	30	3	10	20	—	80	12
BT 30 SFH04 080 FCC 2.5G 25000 SL	K10101275131256	30	4	15	22	—	80	14
BT 30 SFH05 080 FCC 2.5G 25000 SL	K10101276131256	30	5	15	22	—	80	15
BT 30 SFH06 080 FCC 2.5G 25000 SL	K10101277131256	30	6	21	27	M5	80	36
BT 30 SFH08 080 FCC 2.5G 25000 SL	K10101285131256	30	8	21	27	M6	80	36
BT 30 SFH10 080 FCC 2.5G 25000 SL	K10101279131256	30	10	24	31	M8	80	41
BT 30 SFH12 080 FCC 2.5G 25000 SL	K10101280131256	30	12	24	31	M10	80	46
BT 30 SFH14 080 FCC 2.5G 25000 SL	K10101284131256	30	14	27	34	M10	80	46
BT 30 SFH16 080 FCC 2.5G 25000 SL	K10101281131256	30	16	27	34	M12	80	49
BT 30 SFH18 080 FCC 2.5G 25000 SL	K10101282131256	30	18	33	40	M12	80	49
BT 30 SFH20 080 FCC 2.5G 25000 SL	K10101283131256	30	20	33	40	M16	80	51

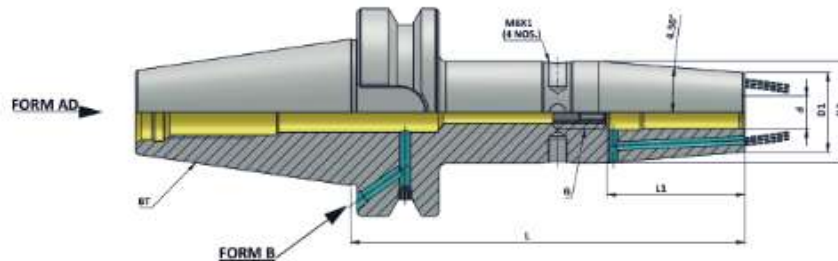
BT30 SFH1/8" 080 FCC 2.5G 25000 SL	K10101978131256	30	1/8"	10	20	—	80	12
BT30 SFH3/16" 080 FCC 2.5G 25000 SL	K10101979131228	30	3/16"	15	22	—	80	14
BT30 SFH1/4" 080 FCC 2.5G 25000 SL	K10101980131228	30	1/4"	21	27	M5	80	36
BT30 SFH5/16" 080 FCC 2.5G 25000 SL	K10101981131256	30	5/16"	21	27	M6	80	36
BT30 SFH3/8" 080 FCC 2.5G 25000 SL	K10101982131256	30	3/8"	24	31	M8	80	41
BT30 SFH1/2" 080 FCC 2.5G 25000 SL	K10101983131256	30	1/2"	24	31	M10	80	46
BT30 SFH5/8" 080 FCC 2.5G 25000 SL	K10101984131256	30	5/8"	27	34	M12	80	49
BT30 SFH3/4" 080 FCC 2.5G 25000 SL	K10101985131256	30	3/4"	33	40	M16	80	51

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



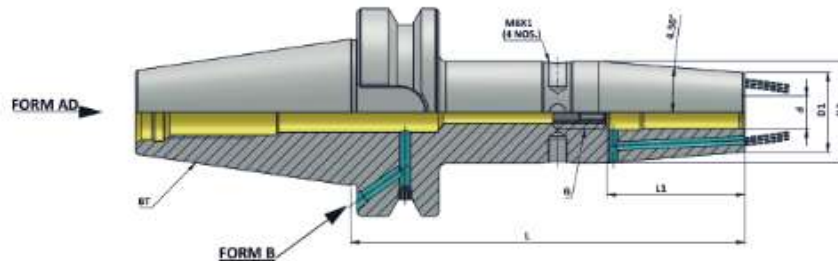
BT (MAS 403) (SFH FCC 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH03 090 FCC AD+B/2.5G 25000 SL	K10102274140255	40	3	10	20	—	90	12
BT40 SFH03 120 FCC AD+B/2.5G 25000 SL	K10102274162255	40	3	10	20	—	120	12
BT40 SFH03 130 FCC AD+B/2.5G 25000 SL	K10102274165255	40	3	10	20	—	130	12
BT40 SFH03 160 FCC AD+B/2.5G 25000 SL	K10102274175255	40	3	10	20	—	160	12
BT40 SFH04 090 FCC AD+B/2.5G 25000 SL	K10102275140255	40	4	15	22	—	90	14
BT40 SFH04 120 FCC AD+B/2.5G 25000 SL	K10102275162255	40	4	15	22	—	120	14
BT40 SFH04 130 FCC AD+B/2.5G 25000 SL	K10102275165255	40	4	15	22	—	130	14
BT40 SFH04 160 FCC AD+B/2.5G 25000 SL	K10102275175255	40	4	15	22	—	160	14
BT40 SFH05 090 FCC AD+B/2.5G 25000 SL	K10102276140255	40	5	15	22	—	90	15
BT40 SFH05 120 FCC AD+B/2.5G 25000 SL	K10102276162255	40	5	15	22	—	120	15
BT40 SFH05 130 FCC AD+B/2.5G 25000 SL	K10102276165255	40	5	15	22	—	130	15
BT40 SFH05 160 FCC AD+B/2.5G 25000 SL	K10102276175255	40	5	15	22	—	160	15
BT40 SFH06 090 FCC AD+B/2.5G 25000 SL	K10102277140255	40	6	21	27	M5	90	36
BT40 SFH06 120 FCC AD+B/2.5G 25000 SL	K10102277162255	40	6	21	27	M5	120	36
BT40 SFH06 130 FCC AD+B/2.5G 25000 SL	K10102277165255	40	6	21	27	M5	130	36
BT40 SFH06 160 FCC AD+B/2.5G 25000 SL	K10102277175255	40	6	21	27	M5	160	36
BT40 SFH08 090 FCC AD+B/2.5G 25000 SL	K10102285140255	40	8	21	27	M6	90	36
BT40 SFH08 120 FCC AD+B/2.5G 25000 SL	K10102285162255	40	8	21	27	M6	120	36
BT40 SFH08 130 FCC AD+B/2.5G 25000 SL	K10102285165255	40	8	21	27	M6	130	36
BT40 SFH08 160 FCC AD+B/2.5G 25000 SL	K10102285175255	40	8	21	27	M6	160	36
BT40 SFH10 090 FCC AD+B/2.5G 25000 SL	K10102279140255	40	10	24	31	M8	90	41
BT40 SFH10 120 FCC AD+B/2.5G 25000 SL	K10102279162255	40	10	24	31	M8	120	41
BT40 SFH10 130 FCC AD+B/2.5G 25000 SL	K10102279165255	40	10	24	31	M8	130	41
BT40 SFH10 160 FCC AD+B/2.5G 25000 SL	K10102279175255	40	10	24	31	M8	160	41
BT40 SFH12 090 FCC AD+B/2.5G 25000 SL	K10102280140255	40	12	24	31	M10	90	46
BT40 SFH12 120 FCC AD+B/2.5G 25000 SL	K10102280162255	40	12	24	31	M10	120	46
BT40 SFH12 130 FCC AD+B/2.5G 25000 SL	K10102280165255	40	12	24	31	M10	130	46
BT40 SFH12 160 FCC AD+B/2.5G 25000 SL	K10102280175255	40	12	24	31	M10	160	46
BT40 SFH14 090 FCC AD+B/2.5G 25000 SL	K10102284140255	40	14	27	34	M10	90	46
BT40 SFH14 120 FCC AD+B/2.5G 25000 SL	K10102284162255	40	14	27	34	M10	120	46
BT40 SFH14 130 FCC AD+B/2.5G 25000 SL	K10102284165255	40	14	27	34	M10	130	46
BT40 SFH14 160 FCC AD+B/2.5G 25000 SL	K10102284175255	40	14	27	34	M10	160	46

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



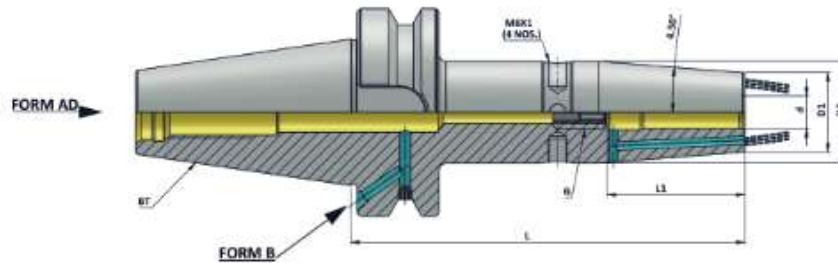
BT (MAS 403) (SFH FCC 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH16 090 FCC AD+B/2.5G 25000 SL	K10102281140255	40	16	27	34	M12	90	49
BT40 SFH16 120 FCC AD+B/2.5G 25000 SL	K10102281162255	40	16	27	34	M12	120	49
BT40 SFH16 130 FCC AD+B/2.5G 25000 SL	K10102281165255	40	16	27	34	M12	130	49
BT40 SFH16 160 FCC AD+B/2.5G 25000 SL	K10102281175255	40	16	27	34	M12	160	49
BT40 SFH18 090 FCC AD+B/2.5G 25000 SL	K10102282140255	40	18	33	40	M12	90	49
BT40 SFH18 120 FCC AD+B/2.5G 25000 SL	K10102282162255	40	18	33	40	M12	120	49
BT40 SFH18 130 FCC AD+B/2.5G 25000 SL	K10102282165255	40	18	33	40	M12	130	49
BT40 SFH18 160 FCC AD+B/2.5G 25000 SL	K10102282175255	40	18	33	40	M12	160	49
BT40 SFH20 090 FCC AD+B/2.5G 25000 SL	K10102283140255	40	20	33	40	M16	90	51
BT40 SFH20 120 FCC AD+B/2.5G 25000 SL	K10102283162255	40	20	33	40	M16	120	51
BT40 SFH20 130 FCC AD+B/2.5G 25000 SL	K10102283165255	40	20	33	40	M16	130	51
BT40 SFH20 160 FCC AD+B/2.5G 25000 SL	K10102283175255	40	20	33	40	M16	160	51
BT40 SFH25 100 FCC AD+B/2.5G 25000 SL	K10102287148255	40	25	44	53	M16	100	57
BT40 SFH25 120 FCC AD+B/2.5G 25000 SL	K10102287162255	40	25	44	53	M16	120	57
BT40 SFH25 130 FCC AD+B/2.5G 25000 SL	K10102287165255	40	25	44	53	M16	130	57
BT40 SFH25 160 FCC AD+B/2.5G 25000 SL	K10102287175255	40	25	44	53	M16	160	57
BT40 SFH32 100 FCC AD+B/2.5G 25000 SL	K10102288148255	40	32	44	53	M16	100	61
BT40 SFH32 120 FCC AD+B/2.5G 25000 SL	K10102288162255	40	32	44	53	M16	120	61
BT40 SFH32 130 FCC AD+B/2.5G 25000 SL	K10102288165255	40	32	44	53	M16	130	61
BT40 SFH32 160 FCC AD+B/2.5G 25000 SL	K10102288175255	40	32	44	53	M16	160	61

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



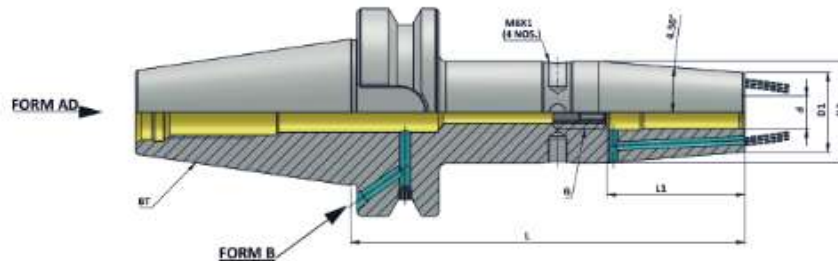
BT (MAS 403) (SFH FCC 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH1/8" 090 FCC AD+B/2.5G 25000 SL	K10102978140255	40	1/8"	10	20	—	90	12
BT40 SFH1/8" 120 FCC AD+B/2.5G 25000 SL	K10102978162255	40	1/8"	10	20	—	120	12
BT40 SFH1/8" 130 FCC AD+B/2.5G 25000 SL	K10102978165255	40	1/8"	10	20	—	130	12
BT40 SFH1/8" 160 FCC AD+B/2.5G 25000 SL	K10102978175255	40	1/8"	10	20	—	160	12
BT40 SFH3/16" 090 FCC AD+B/2.5G 25000 SL	K10102979140255	40	3/16"	15	22	—	90	14
BT40 SFH3/16" 120 FCC AD+B/2.5G 25000 SL	K10102979162255	40	3/16"	15	22	—	120	14
BT40 SFH3/16" 130 FCC AD+B/2.5G 25000 SL	K10102979165255	40	3/16"	15	22	—	130	14
BT40 SFH3/16" 160 FCC AD+B/2.5G 25000 SL	K10102979175255	40	3/16"	15	22	—	160	14
BT40 SFH1/4" 090 FCC AD+B/2.5G 25000 SL	K10102980140255	40	1/4"	21	27	M5	90	36
BT40 SFH1/4" 120 FCC AD+B/2.5G 25000 SL	K10102980162255	40	1/4"	21	27	M5	120	36
BT40 SFH1/4" 130 FCC AD+B/2.5G 25000 SL	K10102980165255	40	1/4"	21	27	M5	130	36
BT40 SFH1/4" 160 FCC AD+B/2.5G 25000 SL	K10102980175255	40	1/4"	21	27	M5	160	36
BT40 SFH5/16" 090 FCC AD+B/2.5G 25000 SL	K10102981140255	40	5/16"	21	27	M6	90	36
BT40 SFH5/16" 120 FCC AD+B/2.5G 25000 SL	K10102981162255	40	5/16"	21	27	M6	120	36
BT40 SFH5/16" 130 FCC AD+B/2.5G 25000 SL	K10102981165255	40	5/16"	21	27	M6	130	36
BT40 SFH5/16" 160 FCC AD+B/2.5G 25000 SL	K10102981175255	40	5/16"	21	27	M6	160	36
BT40 SFH3/8" 090 FCC AD+B/2.5G 25000 SL	K10102982140255	40	3/8"	24	31	M8	90	41
BT40 SFH3/8" 120 FCC AD+B/2.5G 25000 SL	K10102982162255	40	3/8"	24	31	M8	120	41
BT40 SFH3/8" 130 FCC AD+B/2.5G 25000 SL	K10102982165255	40	3/8"	24	31	M8	130	41
BT40 SFH3/8" 160 FCC AD+B/2.5G 25000 SL	K10102982175255	40	3/8"	24	31	M8	160	41
BT40 SFH1/2" 090 FCC AD+B/2.5G 25000 SL	K10102983140255	40	1/2"	24	31	M10	90	46
BT40 SFH1/2" 120 FCC AD+B/2.5G 25000 SL	K10102983162255	40	1/2"	24	31	M10	120	46
BT40 SFH1/2" 130 FCC AD+B/2.5G 25000 SL	K10102983165255	40	1/2"	24	31	M10	130	46
BT40 SFH1/2" 160 FCC AD+B/2.5G 25000 SL	K10102983175255	40	1/2"	24	31	M10	160	46
BT40 SFH5/8" 090 FCC AD+B/2.5G 25000 SL	K10102984140255	40	5/8"	27	34	M12	90	49
BT40 SFH5/8" 120 FCC AD+B/2.5G 25000 SL	K10102984162255	40	5/8"	27	34	M12	120	49
BT40 SFH5/8" 130 FCC AD+B/2.5G 25000 SL	K10102984165255	40	5/8"	27	34	M12	130	49
BT40 SFH5/8" 160 FCC AD+B/2.5G 25000 SL	K10102984175255	40	5/8"	27	34	M12	160	49
BT40 SFH3/4" 090 FCC AD+B/2.5G 25000 SL	K10102985140255	40	3/4"	33	40	M16	90	51
BT40 SFH3/4" 120 FCC AD+B/2.5G 25000 SL	K10102985162255	40	3/4"	33	40	M16	120	51
BT40 SFH3/4" 130 FCC AD+B/2.5G 25000 SL	K10102985165255	40	3/4"	33	40	M16	130	51
BT40 SFH3/4" 160 FCC AD+B/2.5G 25000 SL	K10102985175255	40	3/4"	33	40	M16	160	51
BT40 SFH1.0" 100 FCC AD+B/2.5G 25000 SL	K10102986148255	40	1.0"	44	53	M16	100	57
BT40 SFH1.0" 120 FCC AD+B/2.5G 25000 SL	K10102986162255	40	1.0"	44	53	M16	120	57
BT40 SFH1.0" 130 FCC AD+B/2.5G 25000 SL	K10102986165255	40	1.0"	44	53	M16	130	57
BT40 SFH1.0" 160 FCC AD+B/2.5G 25000 SL	K10102986175255	40	1.0"	44	53	M16	160	57

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



BT (MAS 403) (SFH FCC 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH1-1/4" 100 FCC AD+B/2.5G 25000 SL	K10102987148255	40	1-1/4"	44	53	M16	100	61
BT40 SFH1-1/4" 120 FCC AD+B/2.5G 25000 SL	K10102997162255	40	1-1/4"	44	53	M16	120	61
BT40 SFH1-1/4" 130 FCC AD+B/2.5G 25000 SL	K10102997165255	40	1-1/4"	44	53	M16	130	61
BT40 SFH1-1/4" 160 FCC AD+B/2.5G 25000 SL	K10102997175255	40	1-1/4"	44	53	M16	160	61

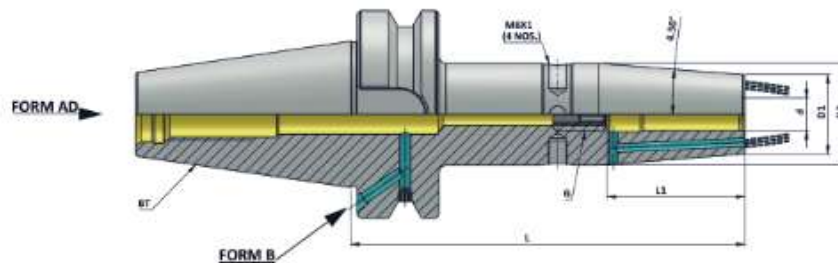
BT50 SFH03 100 FCC AD+B/2.5G 25000 SL	K10103274148255	50	3	10	20	—	100	12
BT50 SFH03 120 FCC AD+B/2.5G 25000 SL	K10103274162255	50	3	10	20	—	120	12
BT50 SFH03 130 FCC AD+B/2.5G 25000 SL	K10103274165255	50	3	10	20	—	130	12
BT50 SFH03 160 FCC AD+B/2.5G 25000 SL	K10103274175255	50	3	10	20	—	160	12
BT50 SFH04 100 FCC AD+B/2.5G 25000 SL	K10103275148255	50	4	15	22	—	100	14
BT50 SFH04 120 FCC AD+B/2.5G 25000 SL	K10103275162255	50	4	15	22	—	120	14
BT50 SFH04 130 FCC AD+B/2.5G 25000 SL	K10103275165255	50	4	15	22	—	130	14
BT50 SFH04 160 FCC AD+B/2.5G 25000 SL	K10103275175255	50	4	15	22	—	160	14
BT50 SFH05 100 FCC AD+B/2.5G 25000 SL	K10103276148255	50	5	15	22	—	100	15
BT50 SFH05 120 FCC AD+B/2.5G 25000 SL	K10103276162255	50	5	15	22	—	120	15
BT50 SFH05 130 FCC AD+B/2.5G 25000 SL	K10103276165255	50	5	15	22	—	130	15
BT50 SFH05 160 FCC AD+B/2.5G 25000 SL	K10103276175255	50	5	15	22	—	160	15
BT50 SFH06 100 FCC AD+B/2.5G 25000 SL	K10103277148255	50	6	21	27	M5	100	36
BT50 SFH06 120 FCC AD+B/2.5G 25000 SL	K10103277162255	50	6	21	27	M5	120	36
BT50 SFH06 130 FCC AD+B/2.5G 25000 SL	K10103277165255	50	6	21	27	M5	130	36
BT50 SFH06 160 FCC AD+B/2.5G 25000 SL	K10103277175255	50	6	21	27	M5	160	36
BT50 SFH08 100 FCC AD+B/2.5G 25000 SL	K10103285148255	50	8	21	27	M6	100	36
BT50 SFH08 120 FCC AD+B/2.5G 25000 SL	K10103285162255	50	8	21	27	M6	120	36
BT50 SFH08 130 FCC AD+B/2.5G 25000 SL	K10103285165255	50	8	21	27	M6	130	36
BT50 SFH08 160 FCC AD+B/2.5G 25000 SL	K10103285175255	50	8	21	27	M6	160	36
BT50 SFH10 100 FCC AD+B/2.5G 25000 SL	K10103279148255	50	10	24	31	M8	100	41
BT50 SFH10 120 FCC AD+B/2.5G 25000 SL	K10103279162255	50	10	24	31	M8	120	41
BT50 SFH10 130 FCC AD+B/2.5G 25000 SL	K10103279165255	50	10	24	31	M8	130	41
BT50 SFH10 160 FCC AD+B/2.5G 25000 SL	K10103279175255	50	10	24	31	M8	160	41
BT50 SFH12 100 FCC AD+B/2.5G 25000 SL	K10103280148255	50	12	24	31	M10	100	46
BT50 SFH12 120 FCC AD+B/2.5G 25000 SL	K10103280162255	50	12	24	31	M10	120	46
BT50 SFH12 130 FCC AD+B/2.5G 25000 SL	K10103280165255	50	12	24	31	M10	130	46
BT50 SFH12 160 FCC AD+B/2.5G 25000 SL	K10103280175255	50	12	24	31	M10	160	46
BT50 SFH14 100 FCC AD+B/2.5G 25000 SL	K10103284148255	50	14	27	34	M10	100	46
BT50 SFH14 120 FCC AD+B/2.5G 25000 SL	K10103284162255	50	14	27	34	M10	120	46
BT50 SFH14 130 FCC AD+B/2.5G 25000 SL	K10103284165255	50	14	27	34	M10	130	46
BT50 SFH14 160 FCC AD+B/2.5G 25000 SL	K10103284175255	50	14	27	34	M10	160	46

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



BT (MAS 403) (SFH FCC 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT50 SFH16 100 FCC AD+B/2.5G 25000 SL	K10103281148255	50	16	27	34	M12	100	49
BT50 SFH16 120 FCC AD+B/2.5G 25000 SL	K10103281162255	50	16	27	34	M12	120	49
BT50 SFH16 130 FCC AD+B/2.5G 25000 SL	K10103281165255	50	16	27	34	M12	130	49
BT50 SFH16 160 FCC AD+B/2.5G 25000 SL	K10103281175255	50	16	27	34	M12	160	49
BT50 SFH18 100 FCC AD+B/2.5G 25000 SL	K10103282148255	50	18	33	40	M12	100	49
BT50 SFH18 120 FCC AD+B/2.5G 25000 SL	K10103282162255	50	18	33	40	M12	120	49
BT50 SFH18 130 FCC AD+B/2.5G 25000 SL	K10103282165255	50	18	33	40	M12	130	49
BT50 SFH18 160 FCC AD+B/2.5G 25000 SL	K10103282175255	50	18	33	40	M12	160	49
BT50 SFH20 100 FCC AD+B/2.5G 25000 SL	K10103283148255	50	20	33	40	M16	100	51
BT50 SFH20 120 FCC AD+B/2.5G 25000 SL	K10103283162255	50	20	33	40	M16	120	51
BT50 SFH20 130 FCC AD+B/2.5G 25000 SL	K10103283165255	50	20	33	40	M16	130	51
BT50 SFH20 160 FCC AD+B/2.5G 25000 SL	K10103283175255	50	20	33	40	M16	160	51
BT50 SFH25 110 FCC AD+B/2.5G 25000 SL	K10103287156255	50	25	44	53	M16	110	57
BT50 SFH25 120 FCC AD+B/2.5G 25000 SL	K10103287162255	50	25	44	53	M16	120	57
BT50 SFH25 130 FCC AD+B/2.5G 25000 SL	K10103287165255	50	25	44	53	M16	130	57
BT50 SFH25 160 FCC AD+B/2.5G 25000 SL	K10103287175255	50	25	44	53	M16	160	57
BT50 SFH32 110 FCC AD+B/2.5G 25000 SL	K10103288156255	50	32	44	53	M16	110	61
BT50 SFH32 120 FCC AD+B/2.5G 25000 SL	K10103288162255	50	32	44	53	M16	120	61
BT50 SFH32 130 FCC AD+B/2.5G 25000 SL	K10103288165255	50	32	44	53	M16	130	61
BT50 SFH32 160 FCC AD+B/2.5G 25000 SL	K10103288175255	50	32	44	53	M16	160	61

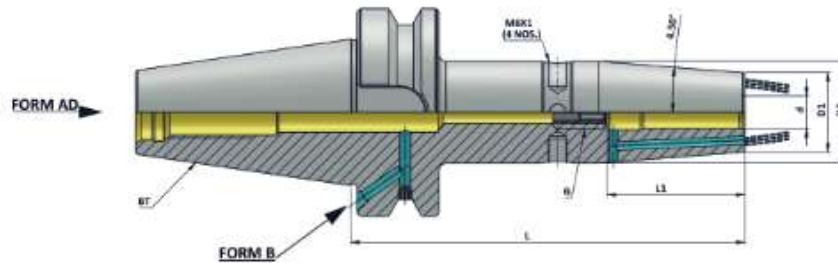
BT50 SFH1/8" 100 FCC AD+B/2.5G 25000 SL	K10103978148255	50	1/8"	10	20	—	100	12
BT50 SFH1/8" 120 FCC AD+B/2.5G 25000 SL	K10103978162255	50	1/8"	10	20	—	120	12
BT50 SFH1/8" 130 FCC AD+B/2.5G 25000 SL	K10103978165255	50	1/8"	10	20	—	130	12
BT50 SFH1/8" 160 FCC AD+B/2.5G 25000 SL	K10103978175255	50	1/8"	10	20	—	160	12
BT50 SFH3/16" 100 FCC AD+B/2.5G 25000 SL	K10103979148255	50	3/16"	15	22	—	100	14
BT50 SFH3/16" 120 FCC AD+B/2.5G 25000 SL	K10103979162255	50	3/16"	15	22	—	120	14
BT50 SFH3/16" 130 FCC AD+B/2.5G 25000 SL	K10103979165255	50	3/16"	15	22	—	130	14
BT50 SFH3/16" 160 FCC AD+B/2.5G 25000 SL	K10103979175255	50	3/16"	15	22	—	160	14
BT50 SFH1/4" 100 FCC AD+B/2.5G 25000 SL	K10103980148255	50	1/4"	21	27	M5	100	36
BT50 SFH1/4" 120 FCC AD+B/2.5G 25000 SL	K10103980162255	50	1/4"	21	27	M5	120	36
BT50 SFH1/4" 130 FCC AD+B/2.5G 25000 SL	K10103980165255	50	1/4"	21	27	M5	130	36
BT50 SFH1/4" 160 FCC AD+B/2.5G 25000 SL	K10103980175255	50	1/4"	21	27	M5	160	36
BT50 SFH5/16" 100 FCC AD+B/2.5G 25000 SL	K10103981148255	50	5/16"	21	27	M6	100	36
BT50 SFH5/16" 120 FCC AD+B/2.5G 25000 SL	K10103981162255	50	5/16"	21	27	M6	120	36
BT50 SFH5/16" 130 FCC AD+B/2.5G 25000 SL	K10103981165255	50	5/16"	21	27	M6	130	36
BT50 SFH5/16" 160 FCC AD+B/2.5G 25000 SL	K10103981175255	50	5/16"	21	27	M6	160	36

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



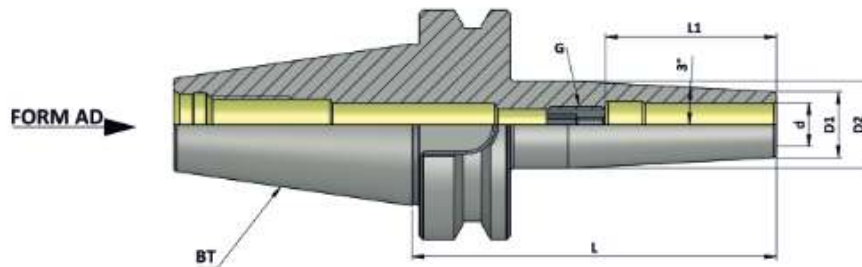
BT (MAS 403) (SFH FCC 4.5°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	
BT50 SFH3/8" 100 FCC AD+B/2.5G 25000 SL	K10103982148255	50	3/8"	24	31	M8	100	41	
BT50 SFH3/8" 120 FCC AD+B/2.5G 25000 SL	K10103982162255	50	3/8"	24	31	M8	120	41	
BT50 SFH3/8" 130 FCC AD+B/2.5G 25000 SL	K10103982165255	50	3/8"	24	31	M8	130	41	
BT50 SFH3/8" 160 FCC AD+B/2.5G 25000 SL	K10103982175255	50	3/8"	24	31	M8	160	41	
BT50 SFH1/2" 100 FCC AD+B/2.5G 25000 SL	K10103983148255	50	1/2"	24	31	M10	100	46	
BT50 SFH1/2" 120 FCC AD+B/2.5G 25000 SL	K10103983162255	50	1/2"	24	31	M10	120	46	
BT50 SFH1/2" 130 FCC AD+B/2.5G 25000 SL	K10103983165255	50	1/2"	24	31	M10	130	46	
BT50 SFH1/2" 160 FCC AD+B/2.5G 25000 SL	K10103983175255	50	1/2"	24	31	M10	160	46	
BT50 SFH5/8" 100 FCC AD+B/2.5G 25000 SL	K10103984148255	50	5/8"	27	34	M12	100	49	
BT50 SFH5/8" 120 FCC AD+B/2.5G 25000 SL	K10103984162255	50	5/8"	27	34	M12	120	49	
BT50 SFH5/8" 130 FCC AD+B/2.5G 25000 SL	K10103984165255	50	5/8"	27	34	M12	130	49	
BT50 SFH5/8" 160 FCC AD+B/2.5G 25000 SL	K10103984175255	50	5/8"	27	34	M12	160	49	
BT50 SFH3/4" 100 FCC AD+B/2.5G 25000 SL	K10103985148255	50	3/4"	33	40	M16	100	51	
BT50 SFH3/4" 120 FCC AD+B/2.5G 25000 SL	K10103985162255	50	3/4"	33	40	M16	120	51	
BT50 SFH3/4" 130 FCC AD+B/2.5G 25000 SL	K10103985165255	50	3/4"	33	40	M16	130	51	
BT50 SFH3/4" 160 FCC AD+B/2.5G 25000 SL	K10103985175255	50	3/4"	33	40	M16	160	51	
BT50 SFH1.0" 110 FCC AD+B/2.5G 25000 SL	K10103986156255	50	1.0"	44	53	M16	110	57	
BT50 SFH1.0" 120 FCC AD+B/2.5G 25000 SL	K10103986162255	50	1.0"	44	53	M16	120	57	
BT50 SFH1.0" 130 FCC AD+B/2.5G 25000 SL	K10103986165255	50	1.0"	44	53	M16	130	57	
BT50 SFH1.0" 160 FCC AD+B/2.5G 25000 SL	K10103986175255	50	1.0"	44	53	M16	160	57	
BT50 SFH1-1/4" 110 FCC AD+B/2.5G 25000 SL	K10103987156255	50	1-1/4"	44	53	M16	110	61	
BT50 SFH1-1/4" 120 FCC AD+B/2.5G 25000 SL	K10103987162255	50	1-1/4"	44	53	M16	120	61	
BT50 SFH1-1/4" 130 FCC AD+B/2.5G 25000 SL	K10103987165255	50	1-1/4"	44	53	M16	130	61	
BT50 SFH1-1/4" 160 FCC AD+B/2.5G 25000 SL	K10103987175255	50	1-1/4"	44	53	M16	160	61	

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



BT (MAS 403) (SFH SLIM 3°) (AD) JD

(Balanced to 2.5G 25000 RPM)

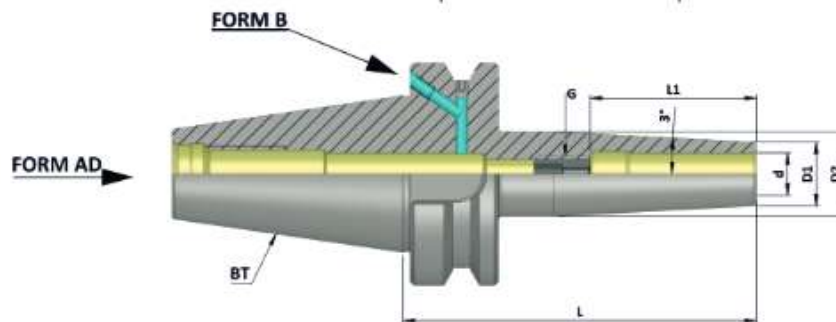
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT30 SFH03 080 SLIM 2.5G 25000 SL	K10101274131258	30	3	9	15	—	80	12
BT30 SFH03 100 SLIM 2.5G 25000 SL	K10101274148258	30	3	9	18	—	100	12
BT30 SFH04 080 SLIM 2.5G 25000 SL	K10101275131258	30	4	10	16	—	80	14
BT30 SFH04 100 SLIM 2.5G 25000 SL	K10101275148258	30	4	10	19	—	100	14
BT30 SFH05 080 SLIM 2.5G 25000 SL	K10101276131258	30	5	11	17	—	80	15
BT30 SFH05 100 SLIM 2.5G 25000 SL	K10101276148258	30	5	11	20	—	100	15
BT30 SFH06 080 SLIM 2.5G 25000 SL	K10101277131258	30	6	12	18	M5	80	36
BT30 SFH06 100 SLIM 2.5G 25000 SL	K10101277148258	30	6	12	18	M5	100	36
BT30 SFH08 080 SLIM 2.5G 25000 SL	K10101285131258	30	8	14	20	M6	80	36
BT30 SFH08 100 SLIM 2.5G 25000 SL	K10101285148258	30	8	14	20	M6	100	36
BT30 SFH10 080 SLIM 2.5G 25000 SL	K10101279131258	30	10	16	22	M8	80	41
BT30 SFH10 100 SLIM 2.5G 25000 SL	K10101279148258	30	10	16	22	M8	100	41
BT30 SFH12 080 SLIM 2.5G 25000 SL	K10101280131258	30	12	18	24	M10	80	46
BT30 SFH12 100 SLIM 2.5G 25000 SL	K10101280148258	30	12	18	24	M10	100	46
BT30 SFH14 080 SLIM 2.5G 25000 SL	K10101284131258	30	14	20	26	M10	80	46
BT30 SFH14 100 SLIM 2.5G 25000 SL	K10101284148258	30	14	20	30	M10	100	46
BT30 SFH16 080 SLIM 2.5G 25000 SL	K10101281131258	30	16	22	28	M12	80	49
BT30 SFH16 100 SLIM 2.5G 25000 SL	K10101281148258	30	16	22	32	M12	100	49
BT30 SFH18 080 SLIM 2.5G 25000 SL	K10101282131258	30	18	24	30	M12	80	49
BT30 SFH18 100 SLIM 2.5G 25000 SL	K10101282148258	30	18	24	34	M12	100	49
BT30 SFH20 080 SLIM 2.5G 25000 SL	K10101283131258	30	20	26	32	M16	80	51
BT30 SFH20 100 SLIM 2.5G 25000 SL	K10101283148258	30	20	26	36	M16	100	51

BT30 SFH1/8" 080 SLIM 2.5G 25000 SL	K10101978131542	30	1/8"	9	15	—	80	12
BT30 SFH1/8" 100 SLIM 2.5G 25000SL	K10103978131258	30	1/8"	9	18	—	100	12
BT30 SFH3/16" 080 SLIM 2.5G 25000 SL	K10101979131542	30	3/16"	10	16	—	80	14
BT30 SFH3/16" 100 SLIM 2.5G 25000 SL	K10101979148542	30	3/16"	10	19	—	100	14
BT30 SFH1/4" 080 SLIM 2.5G 25000 SL	K10101980131542	30	1/4"	12	18	M5	80	36
BT30 SFH1/4" 100 SLIM 2.5G 25000 SL	K10101980148542	30	1/4"	12	18	M5	100	36
BT30 SFH5/16" 080 SLIM 2.5G 25000 SL	K10101981131542	30	5/16"	14	20	M6	80	36
BT30 SFH5/16" 100 SLIM 2.5G 25000 SL	K10101981148542	30	5/16"	14	20	M6	100	36
BT30 SFH3/8" 080 SLIM 2.5G 25000 SL	K10101982131542	30	3/8"	16	22	M8	80	41
BT30 SFH3/8" 100 SLIM 2.5G 25000 SL	K10101982148542	30	3/8"	16	22	M8	100	41
BT30 SFH1/2" 080 SLIM 2.5G 25000 SL	K10101983131542	30	1/2"	18	24	M10	80	46
BT30 SFH1/2" 100 SLIM 2.5G 25000 SL	K10101983148542	30	1/2"	18	24	M10	100	46
BT30 SFH5/8" 080 SLIM 2.5G 25000 SL	K10101984131542	30	5/8"	22	28	M12	80	49
BT30 SFH5/8" 100 SLIM 2.5G 25000 SL	K10101984148542	30	5/8"	22	32	M12	100	49
BT30 SFH3/4" 080 SLIM 2.5G 25000 SL	K10101985131542	30	3/4"	26	32	M16	80	51
BT30 SFH3/4" 100 SLIM 2.5G 25000 SL	K10101985148542	30	3/4"	26	36	M16	100	51

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



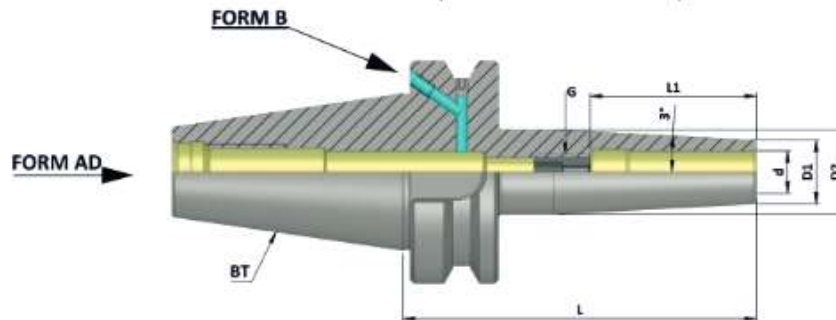
BT (MAS 403) (SFH SLIM 3°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH03 090 SLIM AD+B/2.5G 25000 SL	K10102274140259	40	3	9	15	—	90	12
BT40 SFH03 120 SLIM AD+B/2.5G 25000 SL	K10102274162259	40	3	9	18	—	120	12
BT40 SFH04 090 SLIM AD+B/2.5G 25000 SL	K10102275140259	40	4	10	16	—	90	14
BT40 SFH04 120 SLIM AD+B/2.5G 25000 SL	K10102275162259	40	4	10	19	—	120	14
BT40 SFH05 090 SLIM AD+B/2.5G 25000 SL	K10102276140259	40	5	11	17	—	90	15
BT40 SFH05 120 SLIM AD+B/2.5G 25000 SL	K10102276162259	40	5	11	20	—	120	15
BT40 SFH06 090 SLIM AD+B/2.5G 25000 SL	K10102277140259	40	6	12	18	M5	90	36
BT40 SFH06 120 SLIM AD+B/2.5G 25000 SL	K10102277162259	40	6	12	21	M5	120	36
BT40 SFH06 160 SLIM AD+B/2.5G 25000 SL	K10102277175259	40	6	12	25	M5	160	36
BT40 SFH08 090 SLIM AD+B/2.5G 25000 SL	K10102285140259	40	8	14	20	M6	90	36
BT40 SFH08 120 SLIM AD+B/2.5G 25000 SL	K10102285162259	40	8	14	23	M6	120	36
BT40 SFH08 160 SLIM AD+B/2.5G 25000 SL	K10102285175259	40	8	14	27	M6	160	36
BT40 SFH10 090 SLIM AD+B/2.5G 25000 SL	K10102279140259	40	10	16	22	M8	90	41
BT40 SFH10 120 SLIM AD+B/2.5G 25000 SL	K10102279162259	40	10	16	25	M8	120	41
BT40 SFH10 160 SLIM AD+B/2.5G 25000 SL	K10102279175259	40	10	16	29	M8	160	41
BT40 SFH12 090 SLIM AD+B/2.5G 25000 SL	K10102280140259	40	12	18	24	M10	90	46
BT40 SFH12 120 SLIM AD+B/2.5G 25000 SL	K10102280162259	40	12	18	27	M10	120	46
BT40 SFH12 160 SLIM AD+B/2.5G 25000 SL	K10102280175259	40	12	18	31	M10	160	46
BT40 SFH14 090 SLIM AD+B/2.5G 25000 SL	K10102284140258	40	14	20	26	M10	90	46
BT40 SFH14 120 SLIM AD+B/2.5G 25000 SL	K10102284162258	40	14	20	29	M10	120	46
BT40 SFH14 160 SLIM AD+B/2.5G 25000 SL	K10102284175258	40	14	20	32	M10	160	46
BT40 SFH16 090 SLIM AD+B/2.5G 25000 SL	K10102281140258	40	16	22	28	M12	90	49
BT40 SFH16 120 SLIM AD+B/2.5G 25000 SL	K10102281162258	40	16	22	31	M12	120	49
BT40 SFH16 160 SLIM AD+B/2.5G 25000 SL	K10102281175258	40	16	22	34	M12	160	49
BT40 SFH18 090 SLIM AD+B/2.5G 25000 SL	K10102282140258	40	18	24	30	M12	90	49
BT40 SFH18 120 SLIM AD+B/2.5G 25000 SL	K10102282162258	40	18	24	33	M12	120	49
BT40 SFH18 160 SLIM AD+B/2.5G 25000 SL	K10102282175258	40	18	24	36	M12	160	49
BT40 SFH20 090 SLIM AD+B/2.5G 25000 SL	K10102283140258	40	20	26	32	M16	90	51
BT40 SFH20 120 SLIM AD+B/2.5G 25000 SL	K10102283162258	40	20	26	35	M16	120	51
BT40 SFH20 160 SLIM AD+B/2.5G 25000 SL	K10102283175258	40	20	26	38	M16	160	51

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



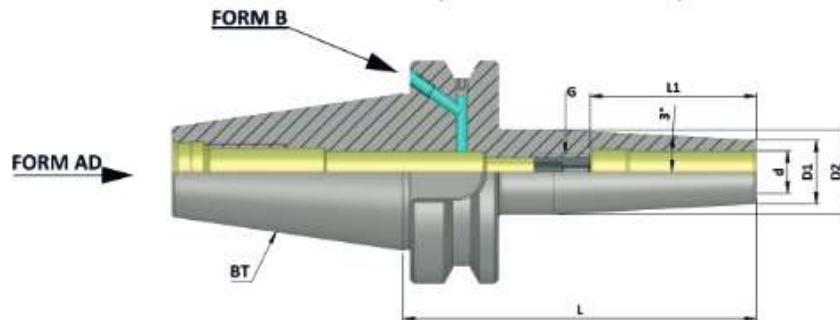
BT (MAS 403) (SFH SLIM 3°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT40 SFH1/8" 090 SLIM AD+B/2.5G 25000 SL	K10102978140259	40	1/8"	9	15	—	90	12
BT40 SFH1/8" 120 SLIM AD+B/2.5G 25000 SL	K10102978162259	40	1/8"	9	18	—	120	12
BT40 SFH3/16" 090 SLIM AD+B/2.5G 25000 SL	K10102979140259	40	3/16"	10	16	—	90	14
BT40 SFH3/16" 120 SLIM AD+B/2.5G 25000 SL	K10102979162259	40	3/16"	10	19	—	120	14
BT40 SFH1/4" 090 SLIM AD+B/2.5G 25000 SL	K10102980140259	40	1/4"	12	18	M5	90	36
BT40 SFH1/4" 120 SLIM AD+B/2.5G 25000 SL	K10102980162259	40	1/4"	12	21	M5	120	36
BT40 SFH1/4" 160 SLIM AD+B/2.5G 25000 SL	K10102980175259	40	1/4"	12	25	M5	160	36
BT40 SFH5/16" 090 SLIM AD+B/2.5G 25000 SL	K10102981140259	40	5/16"	14	20	M6	90	36
BT40 SFH5/16" 120 SLIM AD+B/2.5G 25000 SL	K10102981162259	40	5/16"	14	23	M6	120	36
BT40 SFH5/16" 160 SLIM AD+B/2.5G 25000 SL	K10102981175259	40	5/16"	14	27	M6	160	36
BT40 SFH3/8" 090 SLIM AD+B/2.5G 25000 SL	K10102982140259	40	3/8"	16	22	M8	90	41
BT40 SFH3/8" 120 SLIM AD+B/2.5G 25000 SL	K10102982162259	40	3/8"	16	25	M8	120	41
BT40 SFH3/8" 160 SLIM AD+B/2.5G 25000 SL	K10102982175259	40	3/8"	16	29	M8	160	41
BT40 SFH1/2" 090 SLIM AD+B/2.5G 25000 SL	K10102983140259	40	1/2"	18	24	M10	90	46
BT40 SFH1/2" 120 SLIM AD+B/2.5G 25000 SL	K10102983162259	40	1/2"	18	27	M10	120	46
BT40 SFH1/2" 160 SLIM AD+B/2.5G 25000 SL	K10102983175259	40	1/2"	18	31	M10	160	46
BT40 SFH5/8" 090 SLIM AD+B/2.5G 25000 SL	K10102984140259	40	5/8"	22	28	M12	90	49
BT40 SFH5/8" 120 SLIM AD+B/2.5G 25000 SL	K10102984162259	40	5/8"	22	31	M12	120	49
BT40 SFH5/8" 160 SLIM AD+B/2.5G 25000 SL	K10102984175259	40	5/8"	22	34	M12	160	49
BT40 SFH3/4" 090 SLIM AD+B/2.5G 25000 SL	K10102985140259	40	3/4"	26	32	M16	90	51
BT40 SFH3/4" 120 SLIM AD+B/2.5G 25000 SL	K10102985162259	40	3/4"	26	35	M16	120	51
BT40 SFH3/4" 160 SLIM AD+B/2.5G 25000 SL	K10102985175259	40	3/4"	26	38	M16	160	51

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



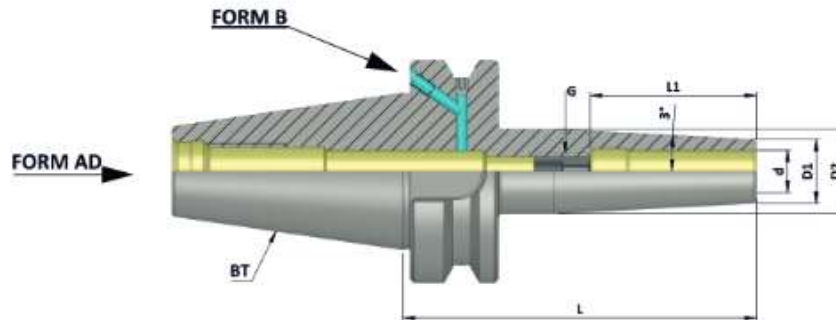
BT (MAS 403) (SFH SLIM 3°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
BT50 SFH03 100 SLIM AD+B/2.5G 25000 SL	K10103274148259	50	3	9	15.5	—	100	12
BT50 SFH03 120 SLIM AD+B/2.5G 25000 SL	K10103274162259	50	3	9	17.5	—	120	12
BT50 SFH04 100 SLIM AD+B/2.5G 25000 SL	K10103275148259	50	4	10	16.5	—	100	14
BT50 SFH04 120 SLIM AD+B/2.5G 25000 SL	K10103275162259	50	4	10	18.5	—	120	14
BT50 SFH05 100 SLIM AD+B/2.5G 25000 SL	K10103276148259	50	5	11	17.5	—	100	15
BT50 SFH05 120 SLIM AD+B/2.5G 25000 SL	K10103276162259	50	5	11	19.5	—	120	15
BT50 SFH06 100 SLIM AD+B/2.5G 25000 SL	K10103277148259	50	6	12	18.5	M5	100	36
BT50 SFH06 120 SLIM AD+B/2.5G 25000 SL	K10103277162259	50	6	12	20.5	M5	120	36
BT50 SFH06 160 SLIM AD+B/2.5G 25000 SL	K10103277175259	50	6	12	25	M5	160	36
BT50 SFH08 100 SLIM AD+B/2.5G 25000 SL	K10103285148259	50	8	14	20.5	M6	100	36
BT50 SFH08 120 SLIM AD+B/2.5G 25000 SL	K10103285162259	50	8	14	22.5	M6	120	36
BT50 SFH08 160 SLIM AD+B/2.5G 25000 SL	K10103285175259	50	8	14	27	M6	160	36
BT50 SFH10 100 SLIM AD+B/2.5G 25000 SL	K10103279148259	50	10	16	22.5	M8	100	41
BT50 SFH10 120 SLIM AD+B/2.5G 25000 SL	K10103279162259	50	10	16	24.5	M8	120	41
BT50 SFH10 160 SLIM AD+B/2.5G 25000 SL	K10103279175259	50	10	16	29	M8	160	41
BT50 SFH12 100 SLIM AD+B/2.5G 25000 SL	K10103280148259	50	12	18	24.5	M10	100	46
BT50 SFH12 120 SLIM AD+B/2.5G 25000 SL	K10103280162259	50	12	18	26.5	M10	120	46
BT50 SFH12 160 SLIM AD+B/2.5G 25000 SL	K10103280175259	50	12	18	31	M10	160	46
BT50 SFH14 100 SLIM AD+B/2.5G 25000 SL	K10103284148259	50	14	20	26	M10	100	46
BT50 SFH14 120 SLIM AD+B/2.5G 25000 SL	K10103284162259	50	14	20	29	M10	120	46
BT50 SFH14 160 SLIM AD+B/2.5G 25000 SL	K10103284175259	50	14	20	32	M10	160	46
BT50 SFH16 100 SLIM AD+B/2.5G 25000 SL	K10103281148259	50	16	22	28	M12	100	49
BT50 SFH16 120 SLIM AD+B/2.5G 25000 SL	K10103281162259	50	16	22	31	M12	120	49
BT50 SFH16 160 SLIM AD+B/2.5G 25000 SL	K10103281175259	50	16	22	34	M12	160	49
BT50 SFH18 100 SLIM AD+B/2.5G 25000 SL	K10103282148259	50	18	24	30	M12	100	49
BT50 SFH18 120 SLIM AD+B/2.5G 25000 SL	K10103282162259	50	18	24	33	M12	120	49
BT50 SFH18 160 SLIM AD+B/2.5G 25000 SL	K10103282175259	50	18	24	36	M12	160	49
BT50 SFH20 100 SLIM AD+B/2.5G 25000 SL	K10103283148259	50	20	26	32	M16	100	51
BT50 SFH20 120 SLIM AD+B/2.5G 25000 SL	K10103283162259	50	20	26	35	M16	120	51
BT50 SFH20 160 SLIM AD+B/2.5G 25000 SL	K10103283175259	50	20	26	38	M16	160	51

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) (AD+B) JD/JF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



BT (MAS 403) (SFH SLIM 3°) (AD+B) JD/JF				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	
BT50 SFH1/8" 100 SLIM AD+B/2.5G 25000 SL	K10103978148259	50	1/8"	9	15.5	—	100	12	
BT50 SFH1/8" 120 SLIM AD+B/2.5G 25000 SL	K10103978162259	50	1/8"	9	17.5	—	120	12	
BT50 SFH3/16" 100 SLIM AD+B/2.5G 25000 SL	K10103979148259	50	3/16"	10	16.5	—	100	14	
BT50 SFH3/16" 120 SLIM AD+B/2.5G 25000 SL	K10103979162259	50	3/16"	10	18.5	—	120	14	
BT50 SFH1/4" 100 SLIM AD+B/2.5G 25000 SL	K10103980148259	50	1/4"	12	18.5	M5	100	36	
BT50 SFH1/4" 120 SLIM AD+B/2.5G 25000 SL	K10103980162259	50	1/4"	12	20.5	M5	120	36	
BT50 SFH1/4" 160 SLIM AD+B/2.5G 25000 SL	K10103980175259	50	1/4"	12	25	M5	160	36	
BT50 SFH5/16" 100 SLIM AD+B/2.5G 25000 SL	K10103981148259	50	5/16"	14	20.5	M6	100	36	
BT50 SFH5/16" 120 SLIM AD+B/2.5G 25000 SL	K10103981162259	50	5/16"	14	22.5	M6	120	36	
BT50 SFH5/16" 160 SLIM AD+B/2.5G 25000 SL	K10103981175259	50	5/16"	14	27	M6	160	36	
BT50 SFH3/8" 100 SLIM AD+B/2.5G 25000 SL	K10103982148259	50	3/8"	16	22.5	M8	100	41	
BT50 SFH3/8" 120 SLIM AD+B/2.5G 25000 SL	K10103982162259	50	3/8"	16	24.5	M8	120	41	
BT50 SFH3/8" 160 SLIM AD+B/2.5G 25000 SL	K10103982175259	50	3/8"	16	29	M8	160	41	
BT50 SFH1/2" 100 SLIM AD+B/2.5G 25000 SL	K10103983148259	50	1/2"	18	24.5	M10	100	46	
BT50 SFH1/2" 120 SLIM AD+B/2.5G 25000 SL	K10103983162259	50	1/2"	18	26.5	M10	120	46	
BT50 SFH1/2" 160 SLIM AD+B/2.5G 25000 SL	K10103983175259	50	1/2"	18	31	M10	160	46	
BT50 SFH5/8" 100 SLIM AD+B/2.5G 25000 SL	K10103984148259	50	5/8"	22	28	M12	100	49	
BT50 SFH5/8" 120 SLIM AD+B/2.5G 25000 SL	K10103984162259	50	5/8"	22	31	M12	120	49	
BT50 SFH5/8" 160 SLIM AD+B/2.5G 25000 SL	K10103984175259	50	5/8"	22	34	M12	160	49	
BT50 SFH3/4" 100 SLIM AD+B/2.5G 25000 SL	K10103985148259	50	3/4"	26	32	M16	100	51	
BT50 SFH3/4" 120 SLIM AD+B/2.5G 25000 SL	K10103985162259	50	3/4"	26	35	M16	120	51	
BT50 SFH3/4" 160 SLIM AD+B/2.5G 25000 SL	K10103985175259	50	3/4"	26	38	M16	160	51	

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/18/20/25/32mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"
Having GPL 200/250/300/350/400 MM
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

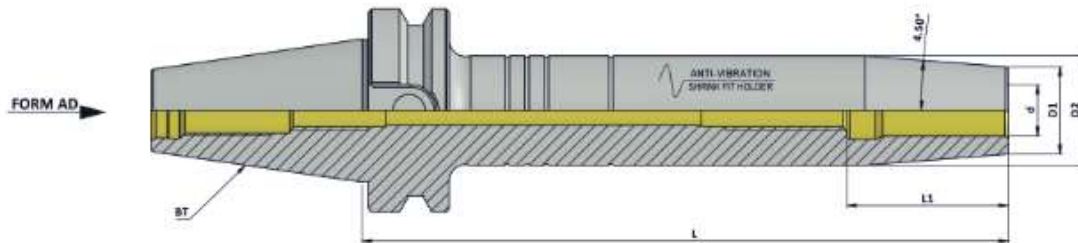
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



BT (MAS 403) (DIN ISO 7388 - 2) Shrink Fit Holder Anti - Vibration (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (SFH - AD/AV)

ITEM NAME	ITEM CODE	ISO	D	D1	D2	L	L1
BT40 SFH16 200 AD/AV	K10102281239539	40	16	27	34	200	49
BT40 SFH16 250 AD/AV	K10102281182539	40	16	27	34	250	49
BT40 SFH16 300 AD/AV	K10102281183539	40	16	27	34	300	49
BT40 SFH18 200 AD/AV	K10102282239539	40	18	33	40	200	49
BT40 SFH18 250 AD/AV	K10102282182539	40	18	33	40	250	49
BT40 SFH18 300 AD/AV	K10102282183539	40	18	33	40	300	49
BT40 SFH20 200 AD/AV	K10102283239539	40	20	33	40	200	51
BT40 SFH20 250 AD/AV	K10102283182539	40	20	33	40	250	51
BT40 SFH20 300 AD/AV	K10102283183539	40	20	33	40	300	51
BT40 SFH25 200 AD/AV	K10102287239539	40	25	44	53	200	57
BT40 SFH25 250 AD/AV	K10102287182539	40	25	44	53	250	57
BT40 SFH25 300 AD/AV	K10102287183539	40	25	44	53	300	57
BT40 SFH32 200 AD/AV	K10102288239539	40	32	44	53	200	61
BT40 SFH32 250 AD/AV	K10102288182539	40	32	44	53	250	61
BT40 SFH32 300 AD/AV	K10102288183539	40	32	44	53	300	61

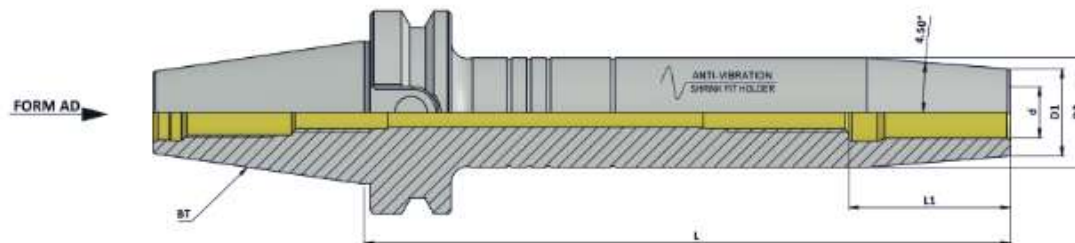
BT40 SFH5/8" 200 AD/AV	K10102984239539	40	5/8"	27	34	200	49
BT40 SFH5/8" 250 AD/AV	K10102984182539	40	5/8"	27	34	250	49
BT40 SFH5/8" 300 AD/AV	K10102984183539	40	5/8"	27	34	300	49
BT40 SFH3/4" 200 AD/AV	K10102985239539	40	3/4"	33	40	200	51
BT40 SFH3/4" 250 AD/AV	K10102985182539	40	3/4"	33	40	250	51
BT40 SFH3/4" 300 AD/AV	K10102985183539	40	3/4"	33	40	300	51
BT40 SFH1.0" 200 AD/AV	K10102986239539	40	1.0"	44	53	200	57
BT40 SFH1.0" 250 AD/AV	K10102986182539	40	1.0"	44	53	250	57
BT40 SFH1.0" 300 AD/AV	K10102986183539	40	1.0"	44	53	300	57
BT40 SFH1-1/4" 200 AD/AV	K10102987239539	40	1-1/4"	44	53	200	61
BT40 SFH1-1/4" 250 AD/AV	K10102987182539	40	1-1/4"	44	53	250	61
BT40 SFH1-1/4" 300 AD/AV	K10102987183539	40	1-1/4"	44	53	300	61

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Shrink Fit Holder Anti - Vibration (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (SFH - AD/AV)

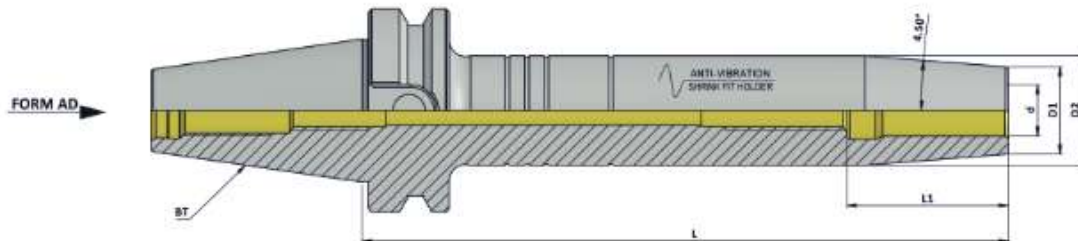
ITEM NAME	ITEM CODE	ISO	d	D1	D2	L	L1
BT50 SFH16 200 AD/AV	K10103281239539	50	16	27	34	200	49
BT50 SFH16 250 AD/AV	K10103281182539	50	16	27	34	250	49
BT50 SFH16 300 AD/AV	K10103281183539	50	16	27	34	300	49
BT50 SFH16 350 AD/AV	K10103281184539	50	16	27	34	350	49
BT50 SFH16 400 AD/AV	K10103281540539	50	16	27	34	400	49
BT50 SFH18 200 AD/AV	K10103282239539	50	18	33	40	200	49
BT50 SFH18 250 AD/AV	K10103282182539	50	18	33	40	250	49
BT50 SFH18 300 AD/AV	K10103282183539	50	18	33	40	300	49
BT50 SFH18 350 AD/AV	K10103282184539	50	18	33	40	350	49
BT50 SFH18 400 AD/AV	K10103282540539	50	18	33	40	400	49
BT50 SFH20 200 AD/AV	K10103283239539	50	20	33	40	200	51
BT50 SFH20 250 AD/AV	K10103283182539	50	20	33	40	250	51
BT50 SFH20 300 AD/AV	K10103283183539	50	20	33	40	300	51
BT50 SFH20 350 AD/AV	K10103283184539	50	20	33	40	350	51
BT50 SFH20 400 AD/AV	K10103283540539	50	20	33	40	400	51
BT50 SFH25 200 AD/AV	K10103287239539	50	25	44	53	200	57
BT50 SFH25 250 AD/AV	K10103287182539	50	25	44	53	250	57
BT50 SFH25 300 AD/AV	K10103287183539	50	25	44	53	300	57
BT50 SFH25 350 AD/AV	K10103287184539	50	25	44	53	350	57
BT50 SFH25 400 AD/AV	K10103287540539	50	25	44	53	400	57
BT50 SFH32 200 AD/AV	K10103288239539	50	32	44	53	200	61
BT50 SFH32 250 AD/AV	K10103288182539	50	32	44	53	250	61
BT50 SFH32 300 AD/AV	K10103288183539	50	32	44	53	300	61
BT50 SFH32 350 AD/AV	K10103288184539	50	32	44	53	350	61
BT50 SFH32 400 AD/AV	K10103288540539	50	32	44	53	400	61

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Shrink Fit Holder Anti - Vibration (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (SFH - AD/AV)

ITEM NAME	ITEM CODE	ISO	d	D1	D2	L	L1
BT50 SFH5/8" 200 AD/AV	K10103984239539	50	5/8"	27	34	200	49
BT50 SFH5/8" 250 AD/AV	K10103984182539	50	5/8"	27	34	250	49
BT50 SFH5/8" 300 AD/AV	K10103984183539	50	5/8"	27	34	300	49
BT50 SFH5/8" 350 AD/AV	K10103984184539	50	5/8"	27	34	350	49
BT50 SFH5/8" 400 AD/AV	K10103984540539	50	5/8"	27	34	400	49
BT50 SFH3/4" 200 AD/AV	K10103985239539	50	3/4"	33	40	200	51
BT50 SFH3/4" 250 AD/AV	K10103985182539	50	3/4"	33	40	250	51
BT50 SFH3/4" 300 AD/AV	K10103985183539	50	3/4"	33	40	300	51
BT50 SFH3/4" 350 AD/AV	K10103985184539	50	3/4"	33	40	350	51
BT50 SFH3/4" 400 AD/AV	K10103979540539	50	3/4"	33	40	400	51
BT50 SFH1.0" 200 AD/AV	K10103986239539	50	1.0"	44	53	200	57
BT50 SFH1.0" 250 AD/AV	K10103986182539	50	1.0"	44	53	250	57
BT50 SFH1.0" 300 AD/AV	K10103986183539	50	1.0"	44	53	300	57
BT50 SFH1.0" 350 AD/AV	K10103986184539	50	1.0"	44	53	350	57
BT50 SFH1.0" 400 AD/AV	K10103986540539	50	1.0"	44	53	400	57
BT50 SFH1-1/4" 200 AD/AV	K10103987239539	50	1-1/4"	44	53	200	61
BT50 SFH1-1/4" 250 AD/AV	K10103987182539	50	1-1/4"	44	53	250	61
BT50 SFH1-1/4" 300 AD/AV	K10103987183539	50	1-1/4"	44	53	300	61
BT50 SFH1-1/4" 350 AD/AV	K10103987184539	50	1-1/4"	44	53	350	61
BT50 SFH1-1/4" 400 AD/AV	K10103987540539	50	1-1/4"	44	53	400	61

Note: All Dimensions are in mm

Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Features:

- Maximum Run-out of external diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm

Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm

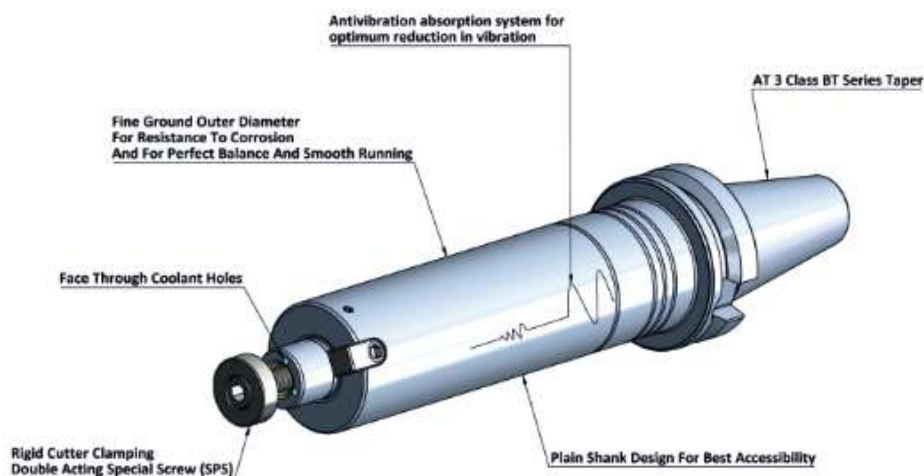
- Through Coolant Facility Double Acting Nut for cutter clamping

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life & run-away of metal swarf Perfect Alignment with cutter face & rigid clamping.

Available In Mountings :

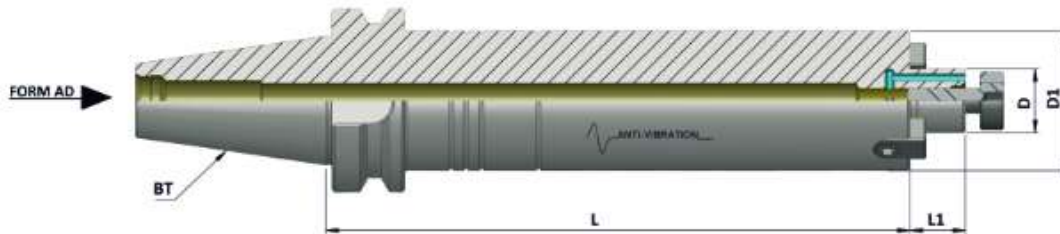
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



BT (MAS 403) (DIN ISO 7388 - 2) Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (FMH-K - AD/AV)

ITEM NAME	ITEM CODE	ISO	D	D1	L	L1
BT40 FMH-K16 200 AD AV SP.S	K10102131239271	40	16	38	200	17
BT40 FMH-K16 250 AD AV SP.S	K10102131182271	40	16	38	250	17
BT40 FMH-K16 300 AD AV SP.S	K10102131183271	40	16	38	300	17
BT40 FMH-K22 200 AD AV SP.S	K10102132239271	40	22	48	200	19
BT40 FMH-K22 250 AD AV SP.S	K10102132182271	40	22	48	250	19
BT40 FMH-K22 300 AD AV SP.S	K10102132183271	40	22	48	300	19
BT40 FMH-K27 200 AD AV SP.S	K10102133239271	40	27	58	200	21
BT40 FMH-K27 250 AD AV SP.S	K10102133182271	40	27	58	250	21
BT40 FMH-K27 300 AD AV SP.S	K10102133183271	40	27	58	300	21
BT40 FMH-K32 200 AD AV SP.S	K10102134239271	40	32	78	200	24
BT40 FMH-K32 250 AD AV SP.S	K10102134182271	40	32	78	250	24
BT40 FMH-K32 300 AD AV SP.S	K10102134183271	40	32	78	300	24
BT40 FMH-K40 200 AD AV SP.S	K10102576239271	40	40	88	200	27
BT40 FMH-K40 250 AD AV SP.S	K10102576183271	40	40	88	250	27
BT40 FMH-K40 300 AD AV SP.S	K10102576183271	40	40	88	300	27

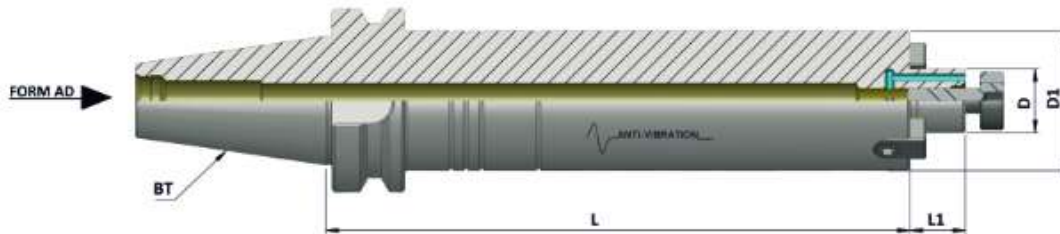
BT40 FMH-K3/4" 200 AD/AV	K10102958239539	40	3/4"	2.0"	200	0.687"
BT40 FMH-K3/4" 250 AD/AV	K10102958182539	40	3/4"	2.0"	250	0.687"
BT40 FMH-K3/4" 300 AD/AV	K10102958183539	40	3/4"	2.0"	300	0.687"
BT40 FMH-K1.0" 200 AD/AV	K10102959239539	40	1.0"	2.375"	200	0.687"
BT40 FMH-K1.0" 250 AD/AV	K10102959182539	40	1.0"	2.375"	250	0.687"
BT40 FMH-K1.0" 300 AD/AV	K10102959183539	40	1.0"	2.375"	300	0.687"
BT40 FMH-K1-1/4" 200 AD/AV	K10102960239539	40	1-1/4"	2.875"	200	0.687"
BT40 FMH-K1-1/4" 250 AD/AV	K10102960182539	40	1-1/4"	2.875"	250	0.687"
BT40 FMH-K1-1/4" 300 AD/AV	K10102960183539	40	1-1/4"	2.875"	300	0.687"
BT40 FMH-K1-1/2" 200 AD/AV	K10102639239539	40	1-1/2"	3.750"	200	0.938"
BT40 FMH-K1 1/2" 250 AD/ AV	K10102976182271	40	1-1/2"	3.750"	250	0.938"
BT40 FMH-K1-1/2" 300 AD/AV	K10102639183539	40	1-1/2"	3.750"	300	0.938"

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (FMH-K - AD/AV)

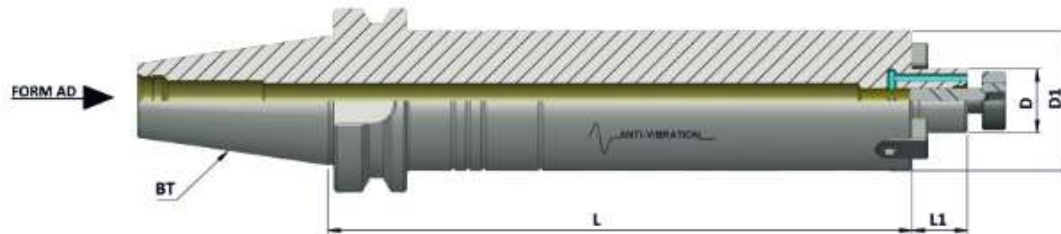
ITEM NAME	ITEM CODE	ISO	D	D1	L	L1
BT50 FMH-K16 200 AD AV SP.S	K10103131239271	50	16	38	200	17
BT50 FMH-K16 250 AD AV SP.S	K10103131182271	50	16	38	250	17
BT50 FMH-K16 300 AD AV SP.S	K10103131183271	50	16	38	300	17
BT50 FMH-K16 350 AD AV SP.S	K10103131184271	50	16	38	350	17
BT50 FMH-K16 400 AD AV SP.S	K10103131540271	50	16	38	400	17
BT50 FMH-K22 200 AD AV SP.S	K10103132239271	50	22	48	200	19
BT50 FMH-K22 250 AD AV SP.S	K10103132182271	50	22	48	250	19
BT50 FMH-K22 300 AD AV SP.S	K10103132183271	50	22	48	300	19
BT50 FMH-K22 350 AD AV SP.S	K10103132184271	50	22	48	350	19
BT50 FMH-K22 400 AD AV SP.S	K10103132540271	50	22	48	400	19
BT50 FMH-K27 200 AD AV SP.S	K10103133239271	50	27	58	200	21
BT50 FMH-K27 250 AD AV SP.S	K10103133182271	50	27	58	250	21
BT50 FMH-K27 300 AD AV SP.S	K10103133183271	50	27	58	300	21
BT50 FMH-K27 350 AD AV SP.S	K10103133184271	50	27	58	350	21
BT50 FMH-K27 400 AD AV SP.S	K10103133540271	50	27	58	400	21
BT50 FMH-K32 200 AD AV SP.S	K10103134239271	50	32	78	200	24
BT50 FMH-K32 250 AD AV SP.S	K10103134182271	50	32	78	250	24
BT50 FMH-K32 300 AD AV SP.S	K10103134183271	50	32	78	300	24
BT50 FMH-K32 350 AD AV SP.S	K10103134184271	50	32	78	350	24
BT50 FMH-K32 400 AD AV SP.S	K10103134540271	50	32	78	400	24
BT50 FMH-K40 200 AD AV SP.S	K10103576239271	50	40	88	200	27
BT50 FMH-K40 250 AD AV SP.S	K10103576182271	50	40	88	250	27
BT50 FMH-K40 300 AD AV SP.S	K10103576183271	50	40	88	300	27
BT50 FMH-K40 350 AD AV SP.S	K10103576184271	50	40	88	350	27
BT50 FMH-K40 400 AD AV SP.S	K10103576540271	50	40	88	400	27

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (FMH-K - AD/AV)

ITEM NAME	ITEM CODE	ISO	D	D1	L	L1
BT50 FMH-K3/4" 200 AD/AV	K10103958239539	50	3/4"	2.0"	200	0.687"
BT50 FMH-K3/4" 250 AD/AV	K10103958182539	50	3/4"	2.0"	250	0.687"
BT50 FMH-K3/4" 300 AD/AV	K10103958183539	50	3/4"	2.0"	300	0.687"
BT50 FMH-K3/4" 350 AD/AV	K10103958184539	50	3/4"	2.0"	350	0.687"
BT50 FMH-K3/4" 400 AD/AV	K10103958540539	50	3/4"	2.0"	400	0.687"
BT50 FMH-K1.0" 200 AD/AV	K10103959239539	50	1.0"	2.375"	200	0.687"
BT50 FMH-K1.0" 250 AD/AV	K10103959182539	50	1.0"	2.375"	250	0.687"
BT50 FMH-K1.0" 300 AD/AV	K10103959183539	50	1.0"	2.375"	300	0.687"
BT50 FMH-K1.0" 350 AD/AV	K10103959184539	50	1.0"	2.375"	350	0.687"
BT50 FMH-K1.0" 400 AD/AV	K10103959540539	50	1.0"	2.375"	400	0.687"
BT50 FMH-K1-1/4" 200 AD/AV	K10103960239539	50	1-1/4"	2.875"	200	0.687"
BT50 FMH-K1-1/4" 250 AD/AV	K10103960182539	50	1-1/4"	2.875"	250	0.687"
BT50 FMH-K1-1/4" 300 AD/AV	K10103960183539	50	1-1/4"	2.875"	300	0.687"
BT50 FMH-K1-1/4" 350 AD/AV	K10103960184539	50	1-1/4"	2.875"	350	0.687"
BT50 FMH-K1-1/4" 400 AD/AV	K10103960540539	50	1-1/4"	2.875"	400	0.687"
BT50 FMH-K1-1/2" 200 AD/AV	K10103639239539	50	1-1/2"	3.750"	200	0.938"
BT50 FMH-K1-1/2" 250 AD/AV	K10103639182539	50	1-1/2"	3.750"	250	0.938"
BT50 FMH-K1-1/2" 300 AD/AV	K10103639183539	50	1-1/2"	3.750"	300	0.938"
BT50 FMH-K1-1/2" 350 AD/AV	K10103639184539	50	1-1/2"	3.750"	350	0.938"
BT50 FMH-K1-1/2" 400 AD/AV	K10103639540539	50	1-1/2"	3.750"	400	0.938"

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

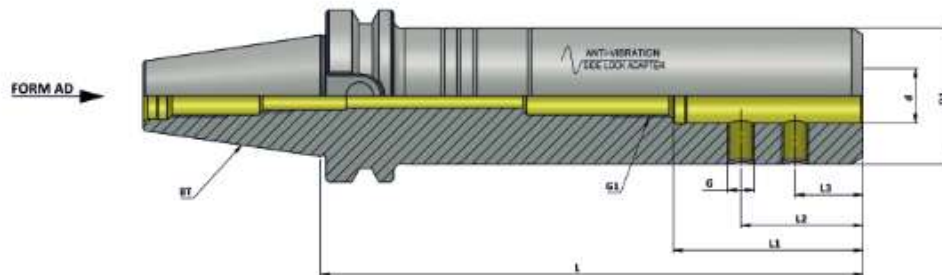
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



BT (MAS 403) (DIN ISO 7388 - 2) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (SLA - AD/AV)

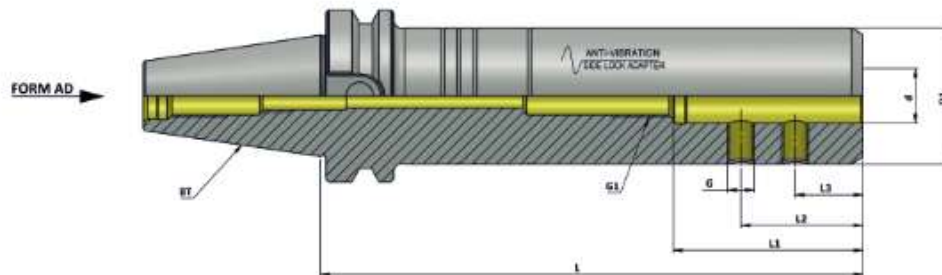
ITEM NAME	ITEM CODE	ISO	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
BT40 SLA16 200 AD/AV	K10102105239539	40	16	48	M14	M12	200	57	-	23.50	1
BT40 SLA16 250 AD/AV	K10102105182539	40	16	48	M14	M12	250	57	-	23.50	1
BT40 SLA16 300 AD/AV	K10102105183539	40	16	48	M14	M12	300	57	-	23.50	1
BT40 SLA20 200 AD/AV	K10102106239539	40	20	50	M10	M16	200	70	45	25	2
BT40 SLA20 250 AD/AV	K10102106182539	40	20	50	M10	M16	250	70	45	25	2
BT40 SLA20 300 AD/AV	K10102106183539	40	20	50	M10	M16	300	70	45	25	2
BT40 SLA25 200 AD/AV	K10102107239539	40	25	50	M10	M16	200	70	45	25	2
BT40 SLA25 250 AD/AV	K10102107182539	40	25	50	M10	M16	250	70	45	25	2
BT40 SLA25 300 AD/AV	K10102107183539	40	25	50	M10	M16	300	70	45	25	2
BT40 SLA32 200 AD/AV	K10102108239539	40	32	60	M10	M16	200	70	50	30	2
BT40 SLA32 250 AD/AV	K10102108182539	40	32	60	M10	M16	250	70	50	30	2
BT40 SLA32 300 AD/AV	K10102108183539	40	32	60	M10	M16	300	70	50	30	2
BT40 SLA40 200 AD/AV	K10102109239539	40	40	60	M10	M16	200	70	50	30	2
BT40 SLA40 250 AD/AV	K10102109182539	40	40	60	M10	M16	250	70	50	30	2
BT40 SLA40 300 AD/AV	K10102109183539	40	40	60	M10	M16	300	70	50	30	2
BT40 SLA5/8" 200 AD/AV	K10102989239539	40	5/8"	48	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
BT40 SLA5/8" 250 AD/AV	K10102989182539	40	5/8"	48	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
BT40 SLA5/8" 300 AD/AV	K10102989183539	40	5/8"	48	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
BT40 SLA3/4" 200 AD/AV	K10102990239539	40	3/4"	50	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
BT40 SLA3/4" 250 AD/AV	K10102990182539	40	3/4"	50	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
BT40 SLA3/4" 300 AD/AV	K10102990183539	40	3/4"	50	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
BT40 SLA1.0" 200 AD/AV	K10102991239539	40	1.0"	50	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
BT40 SLA1.0" 250 AD/AV	K10102991182539	40	1.0"	50	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
BT40 SLA1.0" 300 AD/AV	K10102991183539	40	1.0"	50	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
BT40 SLA1-1/4" 200 AD/AV	K10102992239539	40	1-1/4"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
BT40 SLA1-1/4" 250 AD/AV	K10102992182539	40	1-1/4"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
BT40 SLA1-1/4" 300 AD/AV	K10102992183539	40	1-1/4"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
BT40 SLA1-1/2" 200 AD/AV	K10102993239539	40	1-1/2"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
BT40 SLA1-1/2" 250 AD/AV	K10102993182539	40	1-1/2"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
BT40 SLA1-1/2" 300 AD/AV	K10102993183539	40	1-1/2"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (SLA - AD/AV)

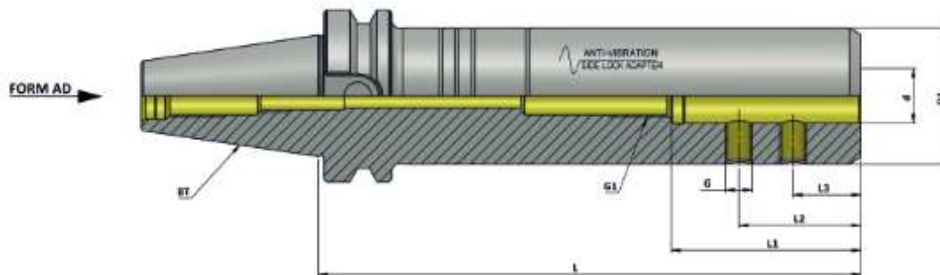
ITEM NAME	ITEM CODE	ISO	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
BT50 SLA16 200 AD/AV	K10103105239539	50	16	48	M14	M12	200	57	-	23.50	1
BT50 SLA16 250 AD/AV	K10103105182539	50	16	48	M14	M12	250	57	-	23.50	1
BT50 SLA16 300 AD/AV	K10103105183539	50	16	48	M14	M12	300	57	-	23.50	1
BT50 SLA16 350 AD/AV	K10103105184539	50	16	48	M14	M12	350	57	-	23.50	1
BT50 SLA16 400 AD/AV	K10103105540539	50	16	48	M14	M12	400	57	-	23.50	1
BT50 SLA20 200 AD/AV	K10103106239539	50	20	50	M10	M16	200	70	45	25	2
BT50 SLA20 250 AD/AV	K10103106182539	50	20	50	M10	M16	250	70	45	25	2
BT50 SLA20 300 AD/AV	K10103106183539	50	20	50	M10	M16	300	70	45	25	2
BT50 SLA20 350 AD/AV	K10103106184539	50	20	50	M10	M16	350	70	45	25	2
BT50 SLA20 400 AD/AV	K10103106540539	50	20	50	M10	M16	400	70	45	25	2
BT50 SLA25 200 AD/AV	K10103107239539	50	25	50	M10	M16	200	70	45	25	2
BT50 SLA25 250 AD/AV	K10103107182539	50	25	50	M10	M16	250	70	45	25	2
BT50 SLA25 300 AD/AV	K10103107183539	50	25	50	M10	M16	300	70	45	25	2
BT50 SLA25 350 AD/AV	K10103107184539	50	25	50	M10	M16	350	70	45	25	2
BT50 SLA25 400 AD/AV	K10103107540539	50	25	50	M10	M16	400	70	45	25	2
BT50 SLA32 200 AD/AV	K10103108239539	50	32	60	M10	M16	200	70	50	30	2
BT50 SLA32 250 AD/AV	K10103108182539	50	32	60	M10	M16	250	70	50	30	2
BT50 SLA32 300 AD/AV	K10103108183539	50	32	60	M10	M16	300	70	50	30	2
BT50 SLA32 350 AD/AV	K10103108184539	50	32	60	M10	M16	350	70	50	30	2
BT50 SLA32 400 AD/AV	K10103108540539	50	32	60	M10	M16	400	70	50	30	2
BT50 SLA40 200 AD/AV	K10103109239539	50	40	60	M10	M16	200	70	50	30	2
BT50 SLA40 250 AD/AV	K10103109182539	50	40	60	M10	M16	250	70	50	30	2
BT50 SLA40 300 AD/AV	K10103109183539	50	40	60	M10	M16	300	70	50	30	2
BT50 SLA40 350 AD/AV	K10103109184539	50	40	60	M10	M16	350	70	50	30	2
BT50 SLA40 400 AD/AV	K10103109540539	50	40	60	M10	M16	400	70	50	30	2

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



BT (MAS 403) (SLA - AD/AV)

ITEM NAME	ITEM CODE	ISO	D	D1	G	G1	L	L1	L2	L3	SCREW QTY.
BT50 SLA5/8" 200 AD/AV	K10103989239539	50	5/8"	48	1/2"20UNFX7/16"	M12	200	57	-	0.937"	1
BT50 SLA5/8" 250 AD/AV	K10103989182539	50	5/8"	48	1/2"20UNFX7/16"	M12	250	57	-	0.937"	1
BT50 SLA5/8" 300 AD/AV	K10103989183539	50	5/8"	48	1/2"20UNFX7/16"	M12	300	57	-	0.937"	1
BT50 SLA5/8" 350 AD/AV	K10103989184539	50	5/8"	48	1/2"20UNFX7/16"	M12	350	57	-	0.937"	1
BT50 SLA5/8" 400 AD/AV	K10103989540539	50	5/8"	48	1/2"20UNFX7/16"	M12	400	57	-	0.937"	1
BT50 SLA3/4" 200 AD/AV	K10103990239539	50	3/4"	50	5/8"18UNFX1/2"	M16	200	59	-	1.00"	1
BT50 SLA3/4" 250 AD/AV	K10103990182539	50	3/4"	50	5/8"18UNFX1/2"	M16	250	59	-	1.00"	1
BT50 SLA3/4" 300 AD/AV	K10103990183539	50	3/4"	50	5/8"18UNFX1/2"	M16	300	59	-	1.00"	1
BT50 SLA3/4" 350 AD/AV	K10103990184539	50	3/4"	50	5/8"18UNFX1/2"	M16	350	59	-	1.00"	1
BT50 SLA3/4" 400 AD/AV	K10103990540539	50	3/4"	50	5/8"18UNFX1/2"	M16	400	59	-	1.00"	1
BT50 SLA1.0" 200 AD/AV	K10103991239539	50	1.0"	50	3/4"16UNFX1/2"	M16	200	75	2.125"	1.125"	2
BT50 SLA1.0" 250 AD/AV	K10103991182539	50	1.0"	50	3/4"16UNFX1/2"	M16	250	75	2.125"	1.125"	2
BT50 SLA1.0" 300 AD/AV	K10103991183539	50	1.0"	50	3/4"16UNFX1/2"	M16	300	75	2.125"	1.125"	2
BT50 SLA1.0" 350 AD/AV	K10103991184539	50	1.0"	50	3/4"16UNFX1/2"	M16	350	75	2.125"	1.125"	2
BT50 SLA1.0" 400 AD/AV	K10103991540539	50	1.0"	50	3/4"16UNFX1/2"	M16	400	75	2.125"	1.125"	2
BT50 SLA1-1/4" 200 AD/AV	K10103992239539	50	1-1/4"	60	3/4"16UNFX1/2"	M16	200	75	2.125"	1.125"	2
BT50 SLA1-1/4" 250 AD/AV	K10103992182539	50	1-1/4"	60	3/4"16UNFX1/2"	M16	250	75	2.125"	1.125"	2
BT50 SLA1-1/4" 300 AD/AV	K10103992183539	50	1-1/4"	60	3/4"16UNFX1/2"	M16	300	75	2.125"	1.125"	2
BT50 SLA1-1/4" 350 AD/AV	K10103992184539	50	1-1/4"	60	3/4"16UNFX1/2"	M16	350	75	2.125"	1.125"	2
BT50 SLA1-1/4" 400 AD/AV	K10103992540539	50	1-1/4"	60	3/4"16UNFX1/2"	M16	400	75	2.125"	1.125"	2
BT50 SLA1-1/2" 200 AD/AV	K10103993239539	50	1-1/2"	60	3/4"16UNFX1/2"	M16	200	75	2.125"	1.125"	2
BT50 SLA1-1/2" 250 AD/AV	K10103993182539	50	1-1/2"	60	3/4"16UNFX1/2"	M16	250	75	2.125"	1.125"	2
BT50 SLA1-1/2" 300 AD/AV	K10103993183539	50	1-1/2"	60	3/4"16UNFX1/2"	M16	300	75	2.125"	1.125"	2
BT50 SLA1-1/2" 350 AD/AV	K10103993184539	50	1-1/2"	60	3/4"16UNFX1/2"	M16	350	75	2.125"	1.125"	2
BT50 SLA1-1/2" 400 AD/AV	K10103993540539	50	1-1/2"	60	3/4"16UNFX1/2"	M16	400	75	2.125"	1.125"	2

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal taper w.r.t external taper is within 0.010 mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Holding ER 16/20/25/32/40 mm Having GPL - 200/250/300/350/400 mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

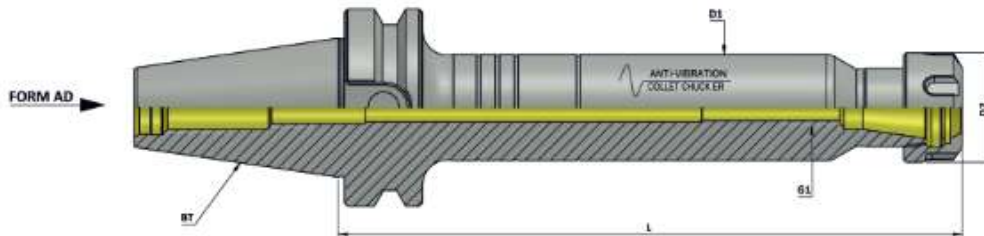
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



BT (MAS 403) (DIN ISO 7388 - 2) Collet Chuck ER Anti - vibration (ER - AD/AV)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



BT (MAS 403) (ER - AD/AV)

ITEM NAME	ITEM CODE	ISO	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
BT40 ER 16 200 AD/AV	K10102149239539	40	ER 16	0.5-10	30	32	200	UM/ER16	E16
BT40 ER 16 250 AD/AV	K10102149182539	40	ER 16	0.5-10	30	32	250	UM/ER16	E16
BT40 ER 16 300 AD/AV	K10102149183539	40	ER 16	0.5-10	30	32	300	UM/ER16	E16
BT40 ER 20 200 AD/AV	K10102150239539	40	ER 20	1.0-13	34	35	200	UM/ER20	E20
BT40 ER 20 250 AD/AV	K10102150182539	40	ER 20	1.0-13	34	35	250	UM/ER20	E20
BT40 ER 20 300 AD/AV	K10102150183539	40	ER 20	1.0-13	34	35	300	UM/ER20	E20
BT40 ER 25 200 AD/AV	K10102151239539	40	ER 25	1.0-16	40	42	200	UM/ER25	E25
BT40 ER 25 250 AD/AV	K10102151182539	40	ER 25	1.0-16	40	42	250	UM/ER25	E25
BT40 ER 25 300 AD/AV	K10102151183539	40	ER 25	1.0-16	40	42	300	UM/ER25	E25
BT40 ER 32 200 AD/AV	K10102152239539	40	ER 32	2.0-20	48	50	200	UM/ER32	E32
BT40 ER 32 250 AD/AV	K10102152182539	40	ER 32	2.0-20	48	50	250	UM/ER32	E32
BT40 ER 32 300 AD/AV	K10102152183539	40	ER 32	2.0-20	48	50	300	UM/ER32	E32
BT40 ER 40 200 AD/AV	K10102153239539	40	ER 40	3.0-26	52	63	200	UM/ER40	E40
BT40 ER 40 250 AD/AV	K10102153182539	40	ER 40	3.0-26	52	63	250	UM/ER40	E40
BT40 ER 40 300 AD/AV	K10102153183539	40	ER 40	3.0-26	52	63	300	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



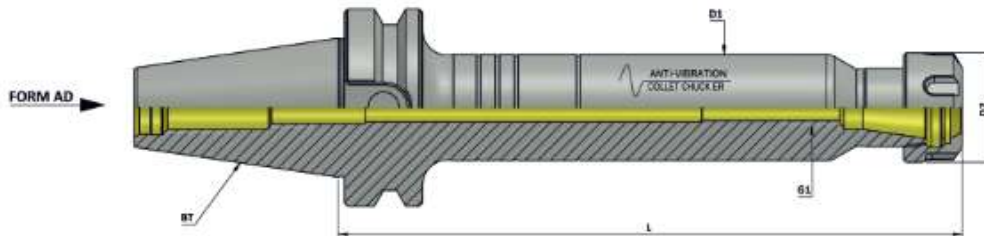
ER SPANNER

Note: All Dimensions are in mm

BT (MAS 403) (DIN ISO 7388 - 2) Collet Chuck ER Anti - vibration (ER - AD/AV)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



BT (MAS 403) (ER - AD/AV)

ITEM NAME	ITEM CODE	ISO	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
BT50 ER 16 200 AD/AV	K10103149239539	50	ER 16	0.5-10	30	32	200	UM/ER16	E16
BT50 ER 16 250 AD/AV	K10103149182539	50	ER 16	0.5-10	30	32	250	UM/ER16	E16
BT50 ER 16 300 AD/AV	K10103149183539	50	ER 16	0.5-10	30	32	300	UM/ER16	E16
BT50 ER 16 350 AD/AV	K10103149184539	50	ER 16	0.5-10	30	32	350	UM/ER16	E16
BT50 ER 16 400 AD/AV	K10103149540539	50	ER 16	0.5-10	30	32	400	UM/ER16	E16
BT50 ER 20 200 AD/AV	K10103150239539	50	ER 20	1.0-13	34	35	200	UM/ER20	E20
BT50 ER 20 250 AD/AV	K10103150182539	50	ER 20	1.0-13	34	35	250	UM/ER20	E20
BT50 ER 20 300 AD/AV	K10103150183539	50	ER 20	1.0-13	34	35	300	UM/ER20	E20
BT50 ER 20 350 AD/AV	K10103150184539	50	ER 20	1.0-13	34	35	350	UM/ER20	E20
BT50 ER 20 400 AD/AV	K10103150540539	50	ER 20	1.0-13	34	35	400	UM/ER20	E20
BT50 ER 25 200 AD/AV	K10103151239539	50	ER 25	1.0-16	40	42	200	UM/ER25	E25
BT50 ER 25 250 AD/AV	K10103151182539	50	ER 25	1.0-16	40	42	250	UM/ER25	E25
BT50 ER 25 300 AD/AV	K10103151183539	50	ER 25	1.0-16	40	42	300	UM/ER25	E25
BT50 ER 25 350 AD/AV	K10103151184539	50	ER 25	1.0-16	40	42	350	UM/ER25	E25
BT50 ER 25 400 AD/AV	K10103151540539	50	ER 25	1.0-16	40	42	400	UM/ER25	E25
BT50 ER 32 200 AD/AV	K10103152239539	50	ER 32	2.0-20	48	50	200	UM/ER32	E32
BT50 ER 32 250 AD/AV	K10103152182539	50	ER 32	2.0-20	48	50	250	UM/ER32	E32
BT50 ER 32 300 AD/AV	K10103152183539	50	ER 32	2.0-20	48	50	300	UM/ER32	E32
BT50 ER 32 350 AD/AV	K10103152184539	50	ER 32	2.0-20	48	50	350	UM/ER32	E32
BT50 ER 32 400 AD/AV	K10103152540539	50	ER 32	2.0-20	48	50	400	UM/ER32	E32
BT50 ER 40 200 AD/AV	K10103153239539	50	ER 40	3.0-26	60	63	200	UM/ER40	E40
BT50 ER 40 250 AD/AV	K10103153182539	50	ER 40	3.0-26	60	63	250	UM/ER40	E40
BT50 ER 40 300 AD/AV	K10103153183539	50	ER 40	3.0-26	60	63	300	UM/ER40	E40
BT50 ER 40 350 AD/AV	K10103153184539	50	ER 40	3.0-26	60	63	350	UM/ER40	E40
BT50 ER 40 400 AD/AV	K10103153540539	50	ER 40	3.0-26	60	63	400	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



ER SPANNER

Note: All Dimensions are in mm

Features :

- Small outside diameter.
- Best suitable for Die & Mould Industry.
- Most suitable for machining of cavities difficult to reach.
- High precision Runout <0.005mm (4xd)
- All 'KTA' Die & Mould Chucks are subjected to Sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Capacity :

- DMC 06 (3mm to 6mm)
- DMC 08 (3mm to 8mm)
- DMC 10 (3mm to 10mm)

Available in Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

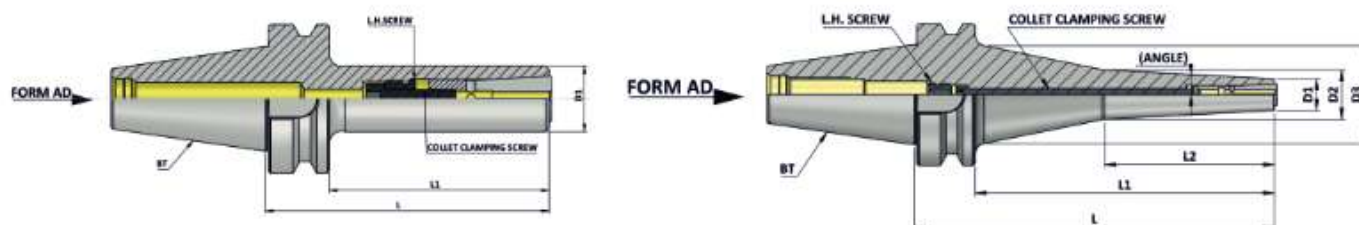
- Balanced To 2.5G 25000 RPM



BT (MAS 403) (DIN ISO 7388 - 2) Die & Mould Chuck (DMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



BT (MAS 403) (DMC)														(Balanced to 2.5G 25000 RPM)		
ITEM NAME	ITEM CODE	ISO	GRIPPING RANGE	D1	D2	D3	L	L1	L2	ANGLE	SUITABLE COLLET	SCREW	ALLE KEY			
BT30 DMC 06 090 AD/2.5G 25000 SL	K10101161140114	30	3-6	14	19.2	-	90	68	50	3	DMC-6	M5	4X200			
BT40 DMC 06 060 AD/2.5G 25000 SL	K10102161117129	40	3-6	14	16.7	-	60	33	26	3	DMC-6	M5	4X200			
BT40 DMC 06 090 AD/2.5G 25000 SL	K10102161140129	40	3-6	14	18.7	35	90	63	45	3	DMC-6	M5	4X200			
BT40 DMC 06 120 AD/2.5G 25000 SL	K10102161162129	40	3-6	14	20.2	40	120	93	60	3	DMC-6	M5	4X200			
BT40 DMC 06 160 AD/2.5G 25000 SL	K10102161175227	40	3-6	14	21.9	45	160	133	76	3	DMC-6	M5	4X200			
BT40 DMC 08 090 AD/2.5G 25000 SL	K10102162140129	40	3-8	22	27.5	35	90	63	53	3	DMC-8	M6	5X200			
BT40 DMC 08 120 AD/2.5G 25000 SL	K10102162162129	40	3-8	22	28.8	40	120	93	65	3	DMC-8	M6	5X200			
BT40 DMC 10 090 AD/2.5G 25000 SL	K10102163140129	40	3-10	28	-	-	90	63	-	-	DMC-10	M8	6X200			
BT40 DMC 10 120 AD/2.5G 25000 SL	K10102163162129	40	3-10	28	-	-	120	93	-	-	DMC-10	M8	6X200			
BT50 DMC 10 150 AD/2.5G 25000 SL	K10103163173129	50	3-10	28	-	-	150	112	-	-	DMC-10	M8	6X200			

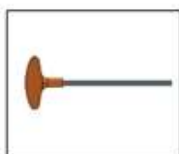
Accessories:



DMC COLLET



DMC ALLEN CAP SCREW



DMC ALLEN KEY



DMC LH SCREW

Note: All Dimensions are in mm

Features :

- 'KTA' Power Milling Chuck is Very Rigid & Precision.
- It is best for Drilling, Reaming & Milling Operations.
- The tool runs true less than 5 micron on 2D. Hence the tool life increases drastically.
- It's Unibody construction reduces the vibrations. This also helps to increase the tool life.
- All 'KTA' Power Milling Chucks are subjected to sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Available In Mountings

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 96893-1)
- CAT (ANSI B 5.50)

Balancing

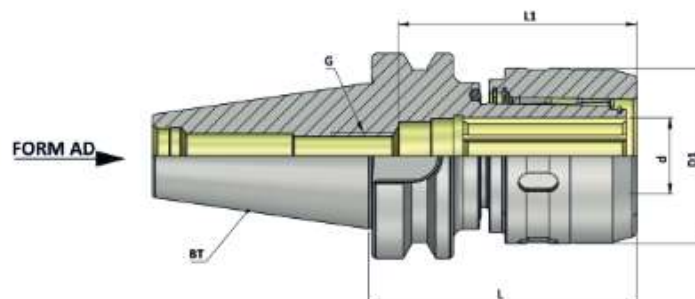
- Balanced To 6.3G 15000 RPM



BT (MAS 403) (DIN ISO 7388 - 2) Power Milling Chuck (PMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



BT (MAS 403) (PMC)				(Balanced to 6.3G 15000 RPM)			
ITEM NAME	ITEM CODE	ISO	d	D1	L	L1	G
BT30 C 20075 AD/6.3G 15000 SL	K10101453352129	30	20	54	75	70	-
BT30 C 3/4" 075 AD/6.3G 15000 SL	K10101393127110	30	3/4"	54	75	70	-
BT40 C 20080 AD/6.3G 15000 SL	K10102453353129	40	20	54	80	70	M 16
BT40 C 32090 AD/6.3G 15000 SL	K10102453354129	40	32	72	90	100	M 16
BT40 C 3/4" 080 AD/6.3G 15000 SL	K10101393131110	40	3/4"	54	80	70	M 16
BT40 C 1 1/4" 090 AD/6.3G 15000 SL	K10101553140110	40	1-1/4"	72	90	100	M 16
BT50 C 20105 AD/6.3G 15000 SL	K10103453355129	50	20	54	105	70	M 16
BT50 C 32105 AD/6.3G 15000 SL	K10103453356129	50	32	72	105	100	M 16
BT50 C 3/4" 105 AD/6.3G 15000 SL	K10103393140110	50	3/4"	54	105	70	M 16
BT50 C 1 1/4" 105 AD/6.3G 15000 SL	K10103553152110	50	1-1/4"	72	105	100	M 16

Accessories: For DMC Accessories Ref. Pg.Nos 283 To 285



RS SEAL SLEEVE



POWER CHUCK SPANNER

Note: All Dimensions are in mm

Features :

- KTA "Minimum Length Compensation Tapping Chuck (MLC)" For Synchronised (Rigid) Tapping Cycle.
- Best suitable for Die & Mould Industry.
- Compression & Expansion $\pm 0.5\text{mm}$
- High Concentricity Enables High Speed Tapping
- Possible Clamping Through ER Tap Collet.

Technical Details :

- "MLC" Tapping Chucks to be used with CNC Machines, having Synchronised Tapping Cycle.
- In this case, Rigid Tapping cycle takes care of tap pitch controlling the feed, spindle speed and feed. So, theoretically, ordinary holder without any compensation also should be suitable for performing the process. But by law of theory, following factors they do affect tapping quality, tap life etc.
- This will lead to :
 - » Less Tap life because of Flank wear (one side)
 - » Damaged Flanks on threads on the work piece
 - » Threads not answering to Gauge.
- All above errors can be taken care by using ' MLC '
- KTA 'MLC' Tapping chucks with $\pm 0.5\text{mm}$ compensation.
- Available in Following Range :
 - » ER 16 : M3 to M12
 - » ER 20 : M3 to M16
 - » ER 25 : M3 to M20
 - » ER 32 : M4 to M27
 - » ER 40 : M6 to M33
- Available in Mountings :
 - » BT (MAS 403) (DIN ISO 7388-2)
 - » KBT (MAS 403) (DIN ISO 7388-2)
 - » SK (DIN 69871) (DIN ISO 7388-1)
 - » HSK-A (DIN 69893-1)
 - » CAT (ANSI B 5.50)
 - » Cylindrical Shank

Balancing :

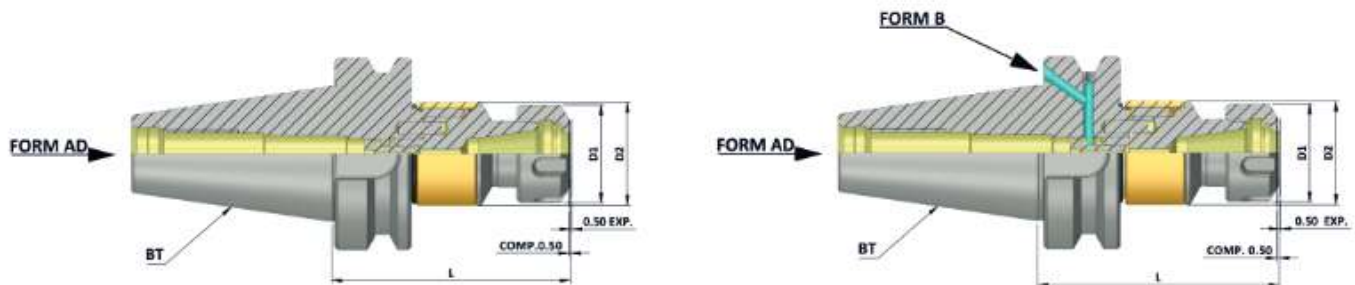
- Main Body Balanced to 2.5G 25000 RPM



BT (MAS 403) (DIN ISO 7388 - 2) Minimum Length Compensation Tapping Chuck (MLC)



Maximum Run out of the Internal Taper with respect to the External Taper 0.020 mm



BT (MAS 403) (MLC)

ITEM NAME	ITEM CODE	ISO	TAPPING RANGE	CLAMPING RANGE	NUT SIZE	D1	D2	L	COMP.	EXP.
BT30 ER 11M 090 AD MLC	K10101156140245	30	M2-M6	2.5-6	ER11M	16	32.5	90	0.4	0.4
BT30 ER 16M 079 AD MLC	K10204982452297	30	M3-M12	3.5-10	ER16M	22	34	79	0.5	0.5
BT30 ER 16 079 AD MLC	K10101149551245	30	M3-M12	3.5-10	ER16	32	34	79	0.5	0.5
BT30 ER 20 080 AD MLC	K10101150131245	30	M3-M16	3.5-12	ER20	35	34	80	0.5	0.5
BT40 ER 11M 095 AD+B MLC	K10102156145245	40	M2-M6	2.5-6	ER11M	16	32.5	95	0.4	0.4
BT40 ER 16M 079 AD+B MLC	K10102157551250	40	M3-M12	3.5-10	ER16M	22	34	79	0.5	0.5
BT40 ER 16 079 AD+B MLC	K10102149551245	40	M3-M12	3.5-10	ER16	32	34	79	0.5	0.5
BT40 ER 20 085 AD+B MLC	K10102150135250	40	M3-M16	3.5-12	ER20	35	34	85	0.5	0.5
BT40 ER 25 089 AD+B MLC	K10102151139245	40	M3-M20	3.5-16	ER25	42	34	89	0.5	0.5
BT40 ER 32 110 AD+B MLC	K10102152156245	40	M4-M27	3.5-20	ER32	50	45	110	0.5	0.5
BT40 ER 40 115 AD+B MLC	K10102153159245	40	M6-M33	6-25	ER40	63	62	115	0.5	0.5
BT50 ER 16M 095 AD+B MLC	K10102157339250	50	M3-M12	3.5-10	ER16M	22	34	95	0.5	0.5
BT50 ER 16 095 AD+B MLC	K10103149145245	50	M3-M12	3.5-10	ER16	32	34	95	0.5	0.5
BT50 ER 20 100 AD+B MLC	K10103150148250	50	M3-M16	3.5-12	ER20	35	34	100	0.5	0.5
BT50 ER 25 110 AD+B MLC	K10103151156245	50	M3-M20	3.5-16	ER25	42	34	110	0.5	0.5
BT50 ER 32 120 AD+B MLC	K10103152162245	50	M4-M27	3.5-20	ER32	50	45	120	0.5	0.5
BT50 ER 40 120 AD+B MLC	K10103153162245	50	M6-M33	6-25	ER40	63	62	120	0.5	0.5

Accessories:



QC Tap Collet QCTC



ER TAP COLLET



ER SLOTTED NUT



ER SPANNER

Note: All Dimensions are in mm

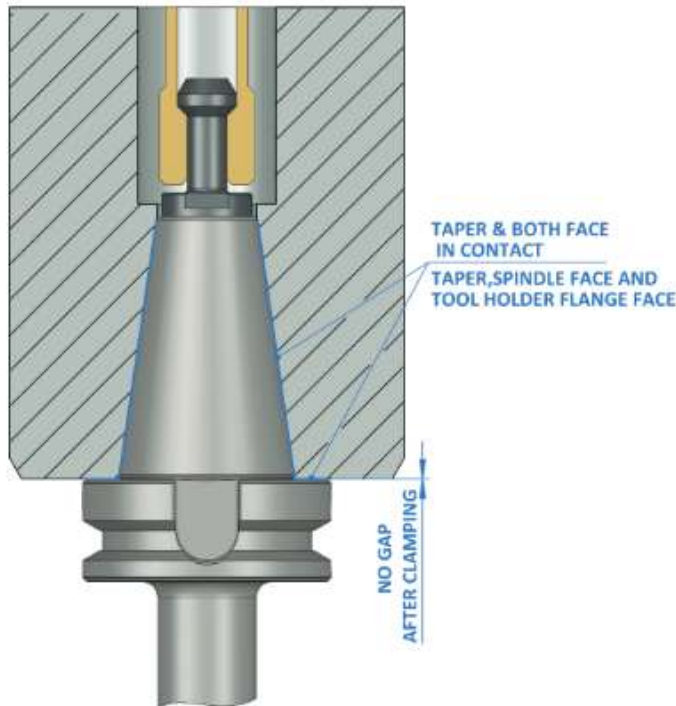
**Precision Tool Holders
KBT (DIN ISO 7388 - 2)
(MAS 403)
(Taper & Face Contact)**



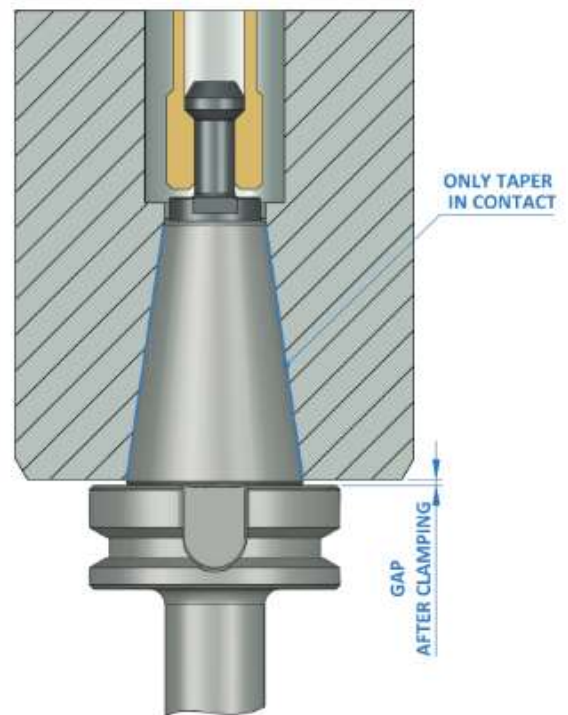
INDEX

Sr. No.	Contents		Page No.
①	Technical Information : KBT (MAS 403) (DIN ISO 7388-2) (Taper & Face Contact Holders)		49 - 50
②	KBT Shrink Fit Holders 4.5 Degree (SFH 4.5°) - Shrink Fit Holders (SFH 4.5°) (AD) (JD) - Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°) (AD) (JD)		51 - 66
③	KBT Shrink Fit Holders Slim 3 Degree (SFH Slim 3°) Shrink Fit Holders (SFH Slim 3°) (AD) (JD)		67 - 71
④	Shrink Fit Holders 4.5° Anti - Vibration (SFH- AD/AV)		72 - 75
⑤	Face Mill Holders Anti - Vibration (FMH-K AD/AV)		76 - 79
⑥	Side Lock Adaptor Anti - Vibration (SLA - AD/AV)		80 - 83
⑦	Collet Chuck "ER" Anti - Vibration (ER - AD/AV)		84 - 86
⑧	Die & Mould Chuck (DMC)		87 - 88
⑨	Power Milling Chuck (PMC)		89 - 90
⑩	Minimum Length Compensation Tapping Chuck (MLC)		91 - 92

KBT (BT MAS 403)
TAPER AND BOTH FACE CONTACT HOLDER
(After Clamping)



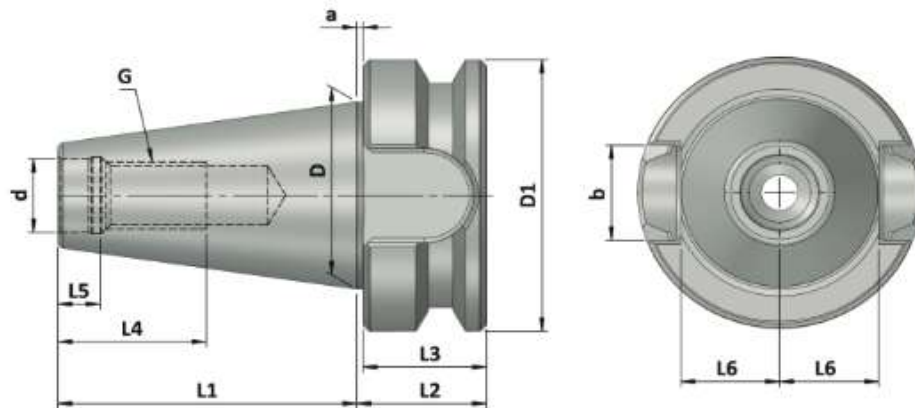
BT (MAS 403) STANDARD HOLDER
(ONLY TAPER CONTACT)
(After Clamping)



In KBT, tool Holder as mentioned Taper and both faces are in contact, due to which spindle and holder acts as one single unit, this allows a "Radial Rigidity" hence we get good surface finish and dimensional accuracy while machining, also low vibration at higher speeds which increases Tool Life. Hence KBT Tool Holder has a remarkable significant as compared to Standard Tool Holders.

Note:

KBT Tool Holders are only recommended to use in Calibrated KBT Spindle Machines.



ISO	d	D	D1	a	b	G	L1	L2	L3	L4	L5	L6
30	12.5	31.75	46	1	16.1	M12	48.4	21	20	24	7.0	16.3
40	17	44.45	63	1	16.1	M16	65.4	27	26	32	9.0	22.6
50	25	69.85	100	1.5	25.7	M24	101.8	38	36.5	47	13.0	35.4

◆ Features:

- KBT TOOL Holder Provides More "Rigid" Clamping than the Standard "BT" Tool Holders
- Achieves Higher "Radial Rigidity"
- Improves Tool Life.
- Balanced to 2.5 G, 25000 RPM.

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm²

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

Features :

- For Mounting Of Carbide Drills, End Mills etc.
- Easy to reach at Deep cavities.
- Best T.I.R. & Rigidity during long working life, Result of in house Research & Development & special Heat Treatment.

Available In Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- HSK-E (DIN 69893-5)
- HSK-F (DIN 69893-6)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

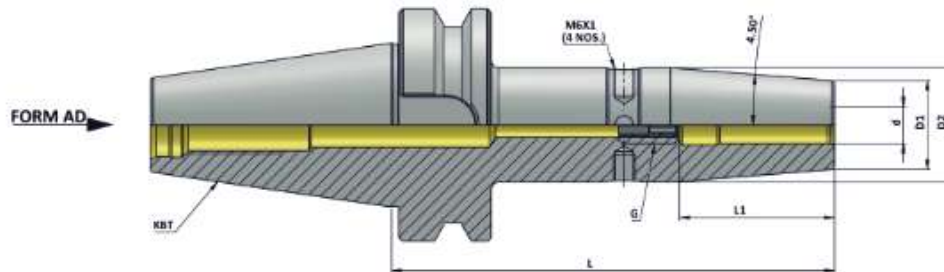
- Balanced To 2.5G 25000 SL



KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



KBT (BT MAS 403) (SFH 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT30 SFH03 080 AD/2.5G 25000 SL	K10307274131228	30	3	10	20	—	80	12
KBT30 SFH04 080 AD/2.5G 25000 SL	K10307275131228	30	4	15	22	—	80	14
KBT30 SFH05 080 AD/2.5G 25000 SL	K10307276131228	30	5	15	22	—	80	15
KBT30 SFH06 080 AD/2.5G 25000 SL	K10307277131228	30	6	21	27	M5	80	36
KBT30 SFH08 080 AD/2.5G 25000 SL	K10307285131228	30	8	21	27	M6	80	36
KBT30 SFH10 080 AD/2.5G 25000 SL	K10307279131228	30	10	24	31	M8	80	41
KBT30 SFH12 080 AD/2.5G 25000 SL	K10307280131228	30	12	24	31	M10	80	46
KBT30 SFH14 080 AD/2.5G 25000 SL	K10307284131228	30	14	27	34	M10	80	46
KBT30 SFH16 080 AD/2.5G 25000 SL	K10307281131228	30	16	27	34	M12	80	49
KBT30 SFH18 080 AD/2.5G 25000 SL	K10307282131228	30	18	33	40	M12	80	49
KBT30 SFH20 080 AD/2.5G 25000 SL	K10307283131228	30	20	33	40	M16	80	51

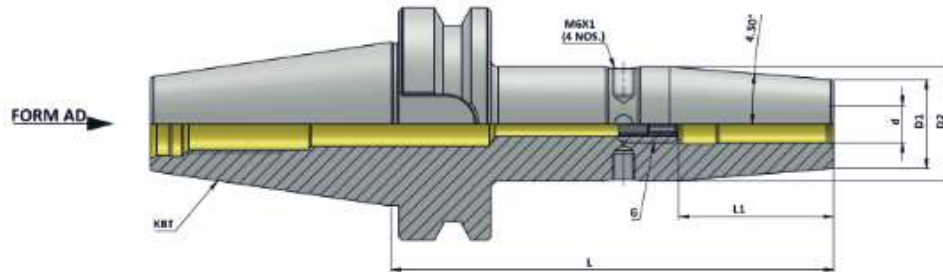
KBT30 SFH1/8" 080 AD/ 2.5G 25000 SL	K10313978131282	30	1/8"	10	20	—	80	12
KBT30 SFH3/16" 080 AD/ 2.5G 25000 SL	K10313979131282	30	3/16"	15	22	—	80	14
KBT30 SFH1/4" 080 AD/ 2.5G 25000 SL	K10313980131282	30	1/4"	21	27	M5	80	36
KBT30 SFH5/16" 080 AD/ 2.5G 25000 SL	K10313981131282	30	5/16"	21	27	M6	80	36
KBT30 SFH3/8" 080 AD/ 2.5G 25000 SL	K10313982131282	30	3/8"	24	31	M8	80	41
KBT30 SFH1/2" 080 AD/ 2.5G 25000 SL	K10313983131282	30	1/2"	24	31	M10	80	46
KBT30 SFH5/8" 080 AD/ 2.5G 25000 SL	K10313984131282	30	5/8"	27	34	M12	80	49
KBT30 SFH3/4" 080 AD/ 2.5G 25000 SL	K10313985131282	30	3/4"	33	40	M16	80	51

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



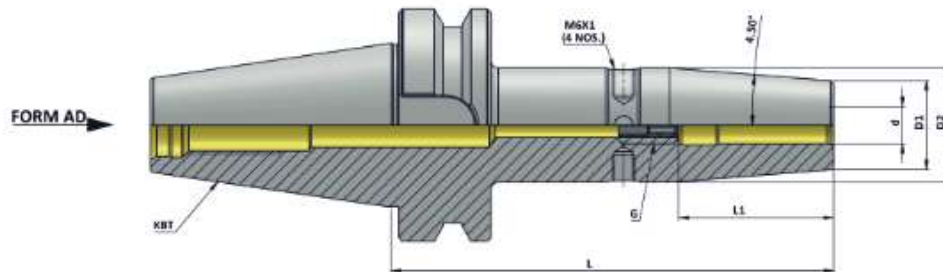
KBT (BT MAS 403) (SFH 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH03 090 AD/2.5G 25000 SL	K10291274140228	40	3	10	20	—	90	12
KBT40 SFH03 120 AD/2.5G 25000 SL	K10291274162228	40	3	10	20	—	120	12
KBT40 SFH03 130 AD/2.5G 25000 SL	K10314274165282	40	3	10	20	—	130	12
KBT40 SFH03 160 AD/2.5G 25000 SL	K10291274175228	40	3	10	20	—	160	12
KBT40 SFH04 090 AD/2.5G 25000 SL	K10291275140228	40	4	15	22	—	90	14
KBT40 SFH04 120 AD/2.5G 25000 SL	K10291275162228	40	4	15	22	—	120	14
KBT40 SFH04 130 AD/2.5G 25000 SL	K10314275165282	40	4	15	22	—	130	14
KBT40 SFH04 160 AD/2.5G 25000 SL	K10291275175228	40	4	15	22	—	160	14
KBT40 SFH05 090 AD/2.5G 25000 SL	K10291276140228	40	5	15	22	—	90	15
KBT40 SFH05 120 AD/2.5G 25000 SL	K10291276162228	40	5	15	22	—	120	15
KBT40 SFH05 130 AD/2.5G 25000 SL	K10314276165282	40	5	15	22	—	130	15
KBT40 SFH05 160 AD/2.5G 25000 SL	K10291276175228	40	5	15	22	—	160	15
KBT40 SFH06 090 AD/2.5G 25000 SL	K10291277140228	40	6	21	27	M5	90	36
KBT40 SFH06 120 AD/2.5G 25000 SL	K10291277162228	40	6	21	27	M5	120	36
KBT40 SFH06 130 AD/2.5G 25000 SL	K10314277165282	40	6	21	27	M5	130	36
KBT40 SFH06 160 AD/2.5G 25000 SL	K10291277175228	40	6	21	27	M5	160	36
KBT40 SFH06 200 AD/2.5G 25000 SL	K10314277239282	40	6	21	27	M5	200	36
KBT40 SFH08 090 AD/2.5G 25000 SL	K10291285140228	40	8	21	27	M6	90	36
KBT40 SFH08 120 AD/2.5G 25000 SL	K10291285162228	40	8	21	27	M6	120	36
KBT40 SFH08 130 AD/2.5G 25000 SL	K10314285165282	40	8	21	27	M6	130	36
KBT40 SFH08 160 AD/2.5G 25000 SL	K10291285175228	40	8	21	27	M6	160	36
KBT40 SFH08 200 AD/2.5G 25000 SL	K10314285239282	40	8	21	27	M6	200	36
KBT40 SFH10 090 AD/2.5G 25000 SL	K10291279140228	40	10	24	31	M8	90	41
KBT40 SFH10 120 AD/2.5G 25000 SL	K10291279162228	40	10	24	31	M8	120	41
KBT40 SFH10 130 AD/2.5G 25000 SL	K10314279165282	40	10	24	31	M8	130	41
KBT40 SFH10 160 AD/2.5G 25000 SL	K10291279175228	40	10	24	31	M8	160	41
KBT40 SFH10 200 AD/2.5G 25000 SL	K10314279239282	40	10	24	31	M8	200	41
KBT40 SFH12 090 AD/2.5G 25000 SL	K10291280140228	40	12	24	31	M10	90	46
KBT40 SFH12 120 AD/2.5G 25000 SL	K10291280162228	40	12	24	31	M10	120	46
KBT40 SFH12 130 AD/2.5G 25000 SL	K10314280165282	40	12	24	31	M10	130	46
KBT40 SFH12 160 AD/2.5G 25000 SL	K10291280175228	40	12	24	31	M10	160	46
KBT40 SFH12 200 AD/2.5G 25000 SL	K10314280239282	40	12	24	31	M10	200	46
KBT40 SFH14 090 AD/2.5G 25000 SL	K10291284140228	40	14	27	34	M10	90	46
KBT40 SFH14 120 AD/2.5G 25000 SL	K10291284162228	40	14	27	34	M10	120	46
KBT40 SFH14 130 AD/2.5G 25000 SL	K10314284165282	40	14	27	34	M10	130	46
KBT40 SFH14 160 AD/2.5G 25000 SL	K10291284175228	40	14	27	34	M10	160	46
KBT40 SFH14 200 AD/2.5G 25000 SL	K10314284239282	40	14	27	34	M10	200	46

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



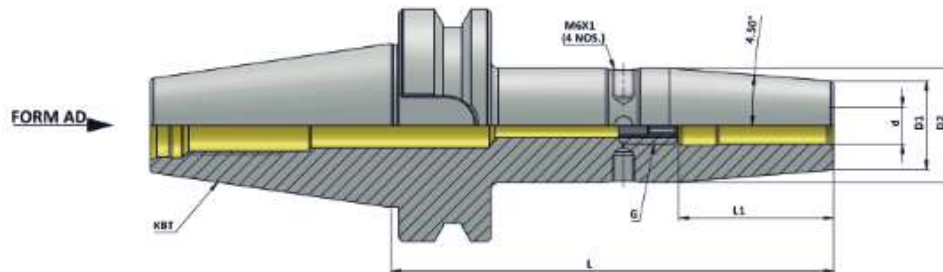
KBT (BT MAS 403) (SFH 4.5°) (AD) JD			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH16 090 AD/2.5G 25000 SL	K10291281140228	40	16	27	34	M12	90	49
KBT40 SFH16 120 AD/2.5G 25000 SL	K10291281162228	40	16	27	34	M12	120	49
KBT40 SFH16 130 AD/2.5G 25000 SL	K10314281165282	40	16	27	34	M12	130	49
KBT40 SFH16 160 AD/2.5G 25000 SL	K10291281175228	40	16	27	34	M12	160	49
KBT40 SFH16 200 AD/2.5G 25000 SL	K10314281239282	40	16	27	34	M12	200	49
KBT40 SFH18 090 AD/2.5G 25000 SL	K10291282140228	40	18	33	40	M12	90	49
KBT40 SFH18 120 AD/2.5G 25000 SL	K10291282162228	40	18	33	40	M12	120	49
KBT40 SFH18 130 AD/2.5G 25000 SL	K10314282165282	40	18	33	40	M12	130	49
KBT40 SFH18 160 AD/2.5G 25000 SL	K10291282175228	40	18	33	40	M12	160	49
KBT40 SFH18 200 AD/2.5G 25000 SL	K10314282239282	40	18	33	40	M12	200	49
KBT40 SFH20 090 AD/2.5G 25000 SL	K10291283148228	40	20	33	40	M16	90	51
KBT40 SFH20 120 AD/2.5G 25000 SL	K10291283162228	40	20	33	40	M16	120	51
KBT40 SFH20 130 AD/2.5G 25000 SL	K10314283165282	40	20	33	40	M16	130	51
KBT40 SFH20 160 AD/2.5G 25000 SL	K10291283175228	40	20	33	40	M16	160	51
KBT40 SFH20 200 AD/2.5G 25000 SL	K10314283239282	40	20	33	40	M16	200	51
KBT40 SFH25 100 AD/2.5G 25000 SL	K10291287156228	40	25	44	53	M16	100	57
KBT40 SFH25 120 AD/2.5G 25000 SL	K10291287162228	40	25	44	53	M16	120	57
KBT40 SFH25 130 AD/2.5G 25000 SL	K10314287165282	40	25	44	53	M16	130	57
KBT40 SFH25 160 AD/2.5G 25000 SL	K10291287175228	40	25	44	53	M16	160	57
KBT40 SFH25 200 AD/2.5G 25000 SL	K10314287239282	40	25	44	53	M16	200	57
KBT40 SFH32 100 AD/2.5G 25000 SL	K10291288156228	40	32	44	53	M16	100	61
KBT40 SFH32 120 AD/2.5G 25000 SL	K10291288162228	40	32	44	53	M16	120	61
KBT40 SFH32 130 AD/2.5G 25000 SL	K10314288165282	40	32	44	53	M16	130	61
KBT40 SFH32 160 AD/2.5G 25000 SL	K10291288175228	40	32	44	53	M16	160	61
KBT40 SFH32 200 AD/2.5G 25000 SL	K10314288239282	40	32	44	53	M16	200	61

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



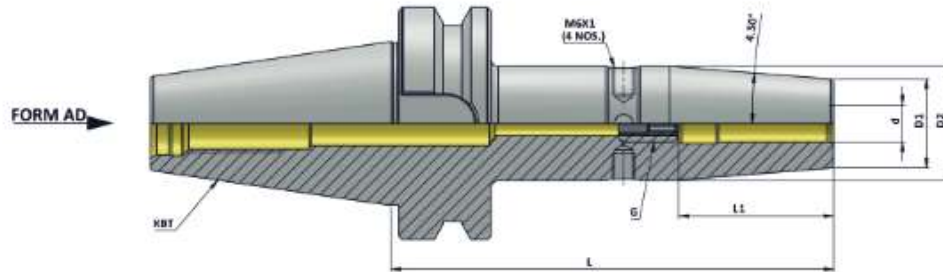
KBT (BT MAS 403) (SFH 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH1/8" 090 AD/ 2.5G 25000 SL	K10314978140282	40	1/8"	10	20	—	90	12
KBT40 SFH1/8" 120 AD/ 2.5G 25000 SL	K10314978162282	40	1/8"	10	20	—	120	12
KBT40 SFH1/8" 130 AD/ 2.5G 25000 SL	K10314978165282	40	1/8"	10	20	—	130	12
KBT40 SFH1/8" 160 AD/ 2.5G 25000 SL	K10314978175282	40	1/8"	10	20	—	160	12
KBT40 SFH3/16" 090 AD/ 2.5G 25000 SL	K10314979140282	40	3/16"	15	22	—	90	14
KBT40 SFH3/16" 120 AD/ 2.5G 25000 SL	K10314979162282	40	3/16"	15	22	—	120	14
KBT40 SFH3/16" 130 AD/ 2.5G 25000 SL	K10314979165282	40	3/16"	15	22	—	130	14
KBT40 SFH3/16" 160 AD/ 2.5G 25000 SL	K10314979175282	40	3/16"	15	22	—	160	14
KBT40 SFH1/4" 090 AD/ 2.5G 25000 SL	K10314980140282	40	1/4"	21	27	M5	90	36
KBT40 SFH1/4" 120 AD/ 2.5G 25000 SL	K10314980162282	40	1/4"	21	27	M5	120	36
KBT40 SFH1/4" 130 AD/ 2.5G 25000 SL	K10314980165282	40	1/4"	21	27	M5	130	36
KBT40 SFH1/4" 160 AD/ 2.5G 25000 SL	K10314980175282	40	1/4"	21	27	M5	160	36
KBT40 SFH1/4" 200 AD/ 2.5G 25000 SL	K10314980239282	40	1/4"	21	27	M5	200	36
KBT40 SFH5/16" 090 AD/ 2.5G 25000 SL	K10314981140282	40	5/16"	21	27	M6	90	36
KBT40 SFH5/16" 120 AD/ 2.5G 25000 SL	K10314981162282	40	5/16"	21	27	M6	120	36
KBT40 SFH5/16" 130 AD/ 2.5G 25000 SL	K10314981175282	40	5/16"	21	27	M6	130	36
KBT40 SFH5/16" 160 AD/ 2.5G 25000 SL	K10314981175282	40	5/16"	21	27	M6	160	36
KBT40 SFH5/16" 200 AD/ 2.5G 25000 SL	K10314981239282	40	5/16"	21	27	M6	200	36
KBT40 SFH3/8" 090 AD/ 2.5G 25000 SL	K10314982140282	40	3/8"	24	31	M8	90	41
KBT40 SFH3/8" 120 AD/ 2.5G 25000 SL	K10314982162282	40	3/8"	24	31	M8	120	41
KBT40 SFH3/8" 130 AD/ 2.5G 25000 SL	K10314982165282	40	3/8"	24	31	M8	130	41
KBT40 SFH3/8" 160 AD/ 2.5G 25000 SL	K10314982175282	40	3/8"	24	31	M8	160	41
KBT40 SFH3/8" 200 AD/ 2.5G 25000 SL	K10314982239282	40	3/8"	24	31	M8	200	41
KBT40 SFH1/2" 090 AD/ 2.5G 25000 SL	K10314983140282	40	1/2"	24	31	M10	90	46
KBT40 SFH1/2" 120 AD/ 2.5G 25000 SL	K10314983162282	40	1/2"	24	31	M10	120	46
KBT40 SFH1/2" 130 AD/ 2.5G 25000 SL	K10314983165282	40	1/2"	24	31	M10	130	46
KBT40 SFH1/2" 160 AD/ 2.5G 25000 SL	K10314983175282	40	1/2"	24	31	M10	160	46
KBT40 SFH1/2" 200 AD/ 2.5G 25000 SL	K10314983239282	40	1/2"	24	31	M10	200	46
KBT40 SFH5/8" 090 AD/ 2.5G 25000 SL	K10314984140282	40	5/8"	27	34	M12	90	49
KBT40 SFH5/8" 120 AD/ 2.5G 25000 SL	K10314984162282	40	5/8"	27	34	M12	120	49
KBT40 SFH5/8" 130 AD/ 2.5G 25000 SL	K10314984165282	40	5/8"	27	34	M12	130	49
KBT40 SFH5/8" 160 AD/ 2.5G 25000 SL	K10314984175282	40	5/8"	27	34	M12	160	49
KBT40 SFH5/8" 200 AD/ 2.5G 25000 SL	K10314984239282	40	5/8"	27	34	M12	200	49

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



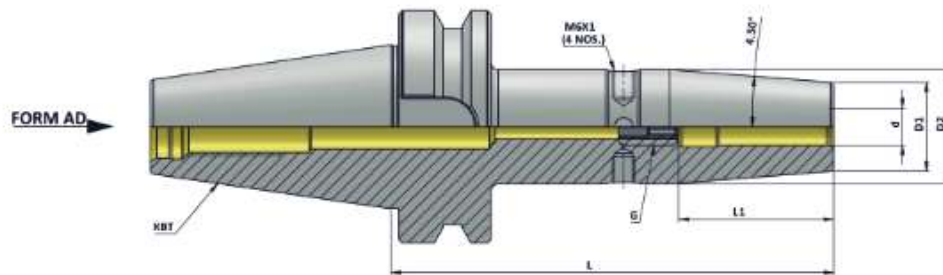
KBT (BT MAS 403) (SFH 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	
KBT40 SFH3/4" 090 AD/ 2.5G 25000 SL	K10314985140282	40	3/4"	33	40	M16	90	51	
KBT40 SFH3/4" 120 AD/ 2.5G 25000 SL	K10314985162282	40	3/4"	33	40	M16	120	51	
KBT40 SFH3/4" 130 AD/ 2.5G 25000 SL	K10314985165282	40	3/4"	33	40	M16	130	51	
KBT40 SFH3/4" 160 AD/ 2.5G 25000 SL	K10314985175282	40	3/4"	33	40	M16	160	51	
KBT40 SFH3/4" 200 AD/ 2.5G 25000 SL	K10314985239282	40	3/4"	33	40	M16	200	51	
KBT40 SFH1.0" 100 AD/ 2.5G 25000 SL	K10314986148282	40	1.0"	44	53	M16	100	57	
KBT40 SFH1.0" 120 AD/ 2.5G 25000 SL	K10314986162282	40	1.0"	44	53	M16	120	57	
KBT40 SFH1.0" 130 AD/ 2.5G 25000 SL	K10314986165282	40	1.0"	44	53	M16	130	57	
KBT40 SFH1.0" 160 AD/ 2.5G 25000 SL	K10314986175282	40	1.0"	44	53	M16	160	57	
KBT40 SFH1.0" 200 AD/ 2.5G 25000 SL	K10314986239282	40	1.0"	44	53	M16	200	57	
KBT40 SFH1-1/4" 100 AD/ 2.5G 25000 SL	K10314987148282	40	1-1/4"	44	53	M16	100	61	
KBT40 SFH1-1/4" 120 AD/ 2.5G 25000 SL	K10314987169282	40	1-1/4"	44	53	M16	120	61	
KBT40 SFH1-1/4" 130 AD/ 2.5G 25000 SL	K10314987165282	40	1-1/4"	44	53	M16	130	61	
KBT40 SFH1-1/4" 160 AD/ 2.5G 25000 SL	K10314987173282	40	1-1/4"	44	53	M16	160	61	
KBT40 SFH1-1/4" 200 AD/ 2.5G 25000 SL	K10314987239282	40	1-1/4"	44	53	M16	200	61	

KBT50 SFH03 100 AD/2.5G 25000 SL	K10308274148228	50	3	10	20	—	100	12	
KBT50 SFH03 120 AD/2.5G 25000 SL	K10308274162228	50	3	10	20	—	120	12	
KBT50 SFH03 130 AD/2.5G 25000 SL	K10315274165282	50	3	10	20	—	130	12	
KBT50 SFH03 160 AD/2.5G 25000 SL	K10308274175228	50	3	10	20	—	160	12	
KBT50 SFH04 100 AD/2.5G 25000 SL	K10308275148228	50	4	15	22	—	100	14	
KBT50 SFH04 120 AD/2.5G 25000 SL	K10308275162228	50	4	15	22	—	120	14	
KBT50 SFH04 130 AD/2.5G 25000 SL	K10315275165282	50	4	15	22	—	130	14	
KBT50 SFH04 160 AD/2.5G 25000 SL	K10308275175228	50	4	15	22	—	160	14	
KBT50 SFH05 100 AD/2.5G 25000 SL	K10308276148228	50	5	15	22	—	100	15	
KBT50 SFH05 120 AD/2.5G 25000 SL	K10308276162228	50	5	15	22	—	120	15	
KBT50 SFH05 130 AD/2.5G 25000 SL	K10315276165282	50	5	15	22	—	130	15	
KBT50 SFH05 160 AD/2.5G 25000 SL	K10308276175228	50	5	15	22	—	160	15	
KBT50 SFH06 100 AD/2.5G 25000 SL	K10308277148228	50	6	21	27	M5	100	36	
KBT50 SFH06 120 AD/2.5G 25000 SL	K10308277162228	50	6	21	27	M5	120	36	
KBT50 SFH06 130 AD/2.5G 25000 SL	K10315277165282	50	6	21	27	M5	130	36	
KBT50 SFH06 160 AD/2.5G 25000 SL	K10308277175228	50	6	21	27	M5	160	36	
KBT50 SFH06 200 AD/2.5G 25000 SL	K10315277239282	50	6	21	27	M5	200	36	
KBT50 SFH08 100 AD/2.5G 25000 SL	K10308285148228	50	8	21	27	M6	100	36	
KBT50 SFH08 120 AD/2.5G 25000 SL	K10308285162228	50	8	21	27	M6	120	36	
KBT50 SFH08 130 AD/2.5G 25000 SL	K10315285165282	50	8	21	27	M6	130	36	
KBT50 SFH08 160 AD/2.5G 25000 SL	K10308285175228	50	8	21	27	M6	160	36	
KBT50 SFH08 200 AD/2.5G 25000 SL	K10315285239282	50	8	21	27	M6	200	36	

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



KBT (BT MAS 403) (SFH 4.5°) (AD) JD

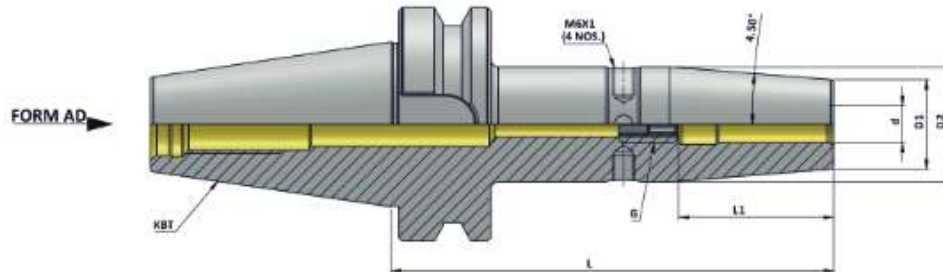
(Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT50 SFH10 100 AD/2.5G 25000 SL	K10308279148228	50	10	24	31	M8	100	41
KBT50 SFH10 120 AD/2.5G 25000 SL	K10308279162228	50	10	24	31	M8	120	41
KBT50 SFH10 130 AD/2.5G 25000 SL	K10315279165282	50	10	24	31	M8	130	41
KBT50 SFH10 160 AD/2.5G 25000 SL	K10308279175228	50	10	24	31	M8	160	41
KBT50 SFH10 200 AD/2.5G 25000 SL	K10315279239282	50	10	24	31	M8	200	41
KBT50 SFH12 100 AD/2.5G 25000 SL	K10308280148228	50	12	24	31	M10	100	46
KBT50 SFH12 120 AD/2.5G 25000 SL	K10308280162228	50	12	24	31	M10	120	46
KBT50 SFH12 130 AD/2.5G 25000 SL	K10315280165282	50	12	24	31	M10	130	46
KBT50 SFH12 160 AD/2.5G 25000 SL	K10308280175228	50	12	24	31	M10	160	46
KBT50 SFH12 200 AD/2.5G 25000 SL	K10315280239282	50	12	24	31	M10	200	46
KBT50 SFH14 100 AD/2.5G 25000 SL	K10308284148228	50	14	27	34	M10	100	46
KBT50 SFH14 120 AD/2.5G 25000 SL	K10308284162228	50	14	27	34	M10	120	46
KBT50 SFH14 130 AD/2.5G 25000 SL	K10315284165282	50	14	27	34	M10	130	46
KBT50 SFH14 160 AD/2.5G 25000 SL	K10308284175228	50	14	27	34	M10	160	46
KBT50 SFH14 200 AD/2.5G 25000 SL	K10315284239282	50	14	27	34	M10	200	46
KBT50 SFH16 100 AD/2.5G 25000 SL	K10308281148228	50	16	27	34	M12	100	49
KBT50 SFH16 120 AD/2.5G 25000 SL	K10308281162228	50	16	27	34	M12	120	49
KBT50 SFH16 130 AD/2.5G 25000 SL	K10315281165282	50	16	27	34	M12	130	49
KBT50 SFH16 160 AD/2.5G 25000 SL	K10308281175228	50	16	27	34	M12	160	49
KBT50 SFH16 200 AD/2.5G 25000 SL	K10315281239282	50	16	27	34	M12	200	49
KBT50 SFH18 100 AD/2.5G 25000 SL	K10308282148228	50	18	33	40	M12	100	49
KBT50 SFH18 120 AD/2.5G 25000 SL	K10308282162228	50	18	33	40	M12	120	49
KBT50 SFH18 130 AD/2.5G 25000 SL	K10315282165282	50	18	33	40	M12	130	49
KBT50 SFH18 160 AD/2.5G 25000 SL	K10308282175228	50	18	33	40	M12	160	49
KBT50 SFH18 200 AD/2.5G 25000 SL	K10315282239282	50	18	33	40	M12	200	49
KBT50 SFH20 100 AD/2.5G 25000 SL	K10308283148228	50	20	33	40	M16	100	51
KBT50 SFH20 120 AD/2.5G 25000 SL	K10308283162228	50	20	33	40	M16	120	51
KBT50 SFH20 130 AD/2.5G 25000 SL	K10315283165282	50	20	33	40	M16	130	51
KBT50 SFH20 160 AD/2.5G 25000 SL	K10308283175228	50	20	33	40	M16	160	51
KBT50 SFH20 200 AD/2.5G 25000 SL	K10315283239282	50	20	33	40	M16	200	51
KBT50 SFH25 110 AD/2.5G 25000 SL	K10308287156228	50	25	44	53	M16	110	57
KBT50 SFH25 120 AD/2.5G 25000 SL	K10308287162228	50	25	44	53	M16	120	57
KBT50 SFH25 130 AD/2.5G 25000 SL	K10315287165282	50	25	44	53	M16	130	57
KBT50 SFH25 160 AD/2.5G 25000 SL	K10308287175228	50	25	44	53	M16	160	57
KBT50 SFH25 200 AD/2.5G 25000 SL	K10315287239282	50	25	44	53	M16	200	57
KBT50 SFH32 110 AD/2.5G 25000 SL	K10308288156228	50	32	44	53	M16	110	61
KBT50 SFH32 120 AD/2.5G 25000 SL	K10308288162228	50	32	44	53	M16	120	61
KBT50 SFH32 130 AD/2.5G 25000 SL	K10315288165282	50	32	44	53	M16	130	61
KBT50 SFH32 160 AD/2.5G 25000 SL	K10308288175228	50	32	44	53	M16	160	61
KBT50 SFH32 200 AD/2.5G 25000 SL	K10315288239282	50	32	44	53	M16	200	61

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



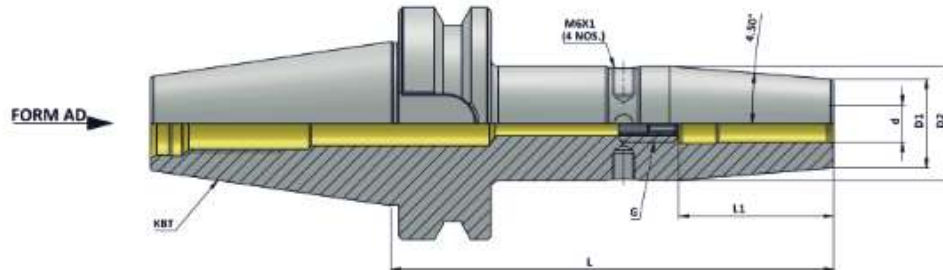
KBT (BT MAS 403) (SFH 4.5°) (AD) JD			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT50 SFH1/8" 100 AD/ 2.5G 25000 SL	K10315978148282	50	1/8"	10	20	—	100	12
KBT50 SFH1/8" 120 AD/ 2.5G 25000 SL	K10315978162282	50	1/8"	10	20	—	120	12
KBT50 SFH1/8" 130 AD/ 2.5G 25000 SL	K10315978165282	50	1/8"	10	20	—	130	12
KBT50 SFH1/8" 160 AD/ 2.5G 25000 SL	K10315978175282	50	1/8"	10	20	—	160	12
KBT50 SFH3/16" 100 AD/ 2.5G 25000 SL	K10315979148282	50	3/16"	15	22	—	100	14
KBT50 SFH3/16" 120 AD/ 2.5G 25000 SL	K10315979162282	50	3/16"	15	22	—	120	14
KBT50 SFH3/16" 130 AD/ 2.5G 25000 SL	K10315979165282	50	3/16"	15	22	—	130	14
KBT50 SFH3/16" 160 AD/ 2.5G 25000 SL	K10315979175282	50	3/16"	15	22	—	160	14
KBT50 SFH1/4" 100 AD/ 2.5G 25000 SL	K10315980148282	50	1/4"	21	27	M5	100	36
KBT50 SFH1/4" 120 AD/ 2.5G 25000 SL	K10315980162282	50	1/4"	21	27	M5	120	36
KBT50 SFH1/4" 130 AD/ 2.5G 25000 SL	K10315980165282	50	1/4"	21	27	M5	130	36
KBT50 SFH1/4" 160 AD/ 2.5G 25000 SL	K10315980175282	50	1/4"	21	27	M5	160	36
KBT50 SFH1/4" 200 AD/ 2.5G 25000 SL	K10315980239282	50	1/4"	21	27	M5	200	36
KBT50 SFH5/16" 100 AD/ 2.5G 25000 SL	K10315981148282	50	5/16"	21	27	M6	100	36
KBT50 SFH5/16" 120 AD/ 2.5G 25000 SL	K10315981162282	50	5/16"	21	27	M6	120	36
KBT50 SFH5/16" 130 AD/ 2.5G 25000 SL	K10315981165282	50	5/16"	21	27	M6	130	36
KBT50 SFH5/16" 160 AD/ 2.5G 25000 SL	K10315981175282	50	5/16"	21	27	M6	160	36
KBT50 SFH5/16" 200 AD/ 2.5G 25000 SL	K10315981239282	50	5/16"	21	27	M6	200	36
KBT50 SFH3/8" 100 AD/ 2.5G 25000 SL	K10315982148282	50	3/8"	24	31	M8	100	41
KBT50 SFH3/8" 120 AD/ 2.5G 25000 SL	K10315982162282	50	3/8"	24	31	M8	120	41
KBT50 SFH3/8" 130 AD/ 2.5G 25000 SL	K10315982165282	50	3/8"	24	31	M8	130	41
KBT50 SFH3/8" 160 AD/ 2.5G 25000 SL	K10315982175282	50	3/8"	24	31	M8	160	41
KBT50 SFH3/8" 200 AD/ 2.5G 25000 SL	K10315982239282	50	3/8"	24	31	M8	200	41
KBT50 SFH1/2" 100 AD/ 2.5G 25000 SL	K10315983148282	50	1/2"	24	31	M10	100	46
KBT50 SFH1/2" 120 AD/ 2.5G 25000 SL	K10315983162282	50	1/2"	24	31	M10	120	46
KBT50 SFH1/2" 130 AD/ 2.5G 25000 SL	K10315983165282	50	1/2"	24	31	M10	130	46
KBT50 SFH1/2" 160 AD/ 2.5G 25000 SL	K10315983175282	50	1/2"	24	31	M10	160	46
KBT50 SFH1/2" 200 AD/ 2.5G 25000 SL	K10315983239282	50	1/2"	24	31	M10	200	46
KBT50 SFH5/8" 100 AD/ 2.5G 25000 SL	K10315984148282	50	5/8"	27	34	M12	100	49
KBT50 SFH5/8" 120 AD/ 2.5G 25000 SL	K10315984162282	50	5/8"	27	34	M12	120	49
KBT50 SFH5/8" 130 AD/ 2.5G 25000 SL	K10315984165282	50	5/8"	27	34	M12	130	49
KBT50 SFH5/8" 160 AD/ 2.5G 25000 SL	K10315984175282	50	5/8"	27	34	M12	160	49
KBT50 SFH5/8" 200 AD/ 2.5G 25000 SL	K10315984239282	50	5/8"	27	34	M12	200	49

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



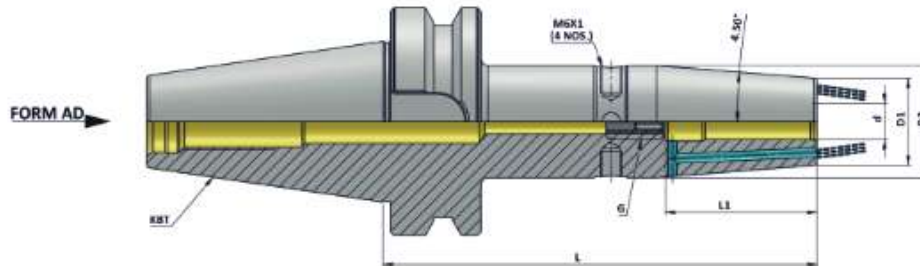
KBT (BT MAS 403) (SFH 4.5°) (AD) JD				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	
KBT50 SFH3/4" 100 AD/ 2.5G 25000 SL	K10315985148282	50	3/4"	33	40	M16	100	51	
KBT50 SFH3/4" 120 AD/ 2.5G 25000 SL	K10315985162282	50	3/4"	33	40	M16	120	51	
KBT50 SFH3/4" 130 AD/ 2.5G 25000 SL	K10315985165282	50	3/4"	33	40	M16	130	51	
KBT50 SFH3/4" 160 AD/ 2.5G 25000 SL	K10315985175282	50	3/4"	33	40	M16	160	51	
KBT50 SFH3/4" 200 AD/ 2.5G 25000 SL	K10315985239282	50	3/4"	33	40	M16	200	51	
KBT50 SFH1.0" 110 AD/ 2.5G 25000 SL	K10315986156282	50	1.0"	44	53	M16	110	57	
KBT50 SFH1.0" 120 AD/ 2.5G 25000 SL	K10315986162282	50	1.0"	44	53	M16	120	57	
KBT50 SFH1.0" 130 AD/ 2.5G 25000 SL	K10315986165282	50	1.0"	44	53	M16	130	57	
KBT50 SFH1.0" 160 AD/ 2.5G 25000 SL	K10315986175282	50	1.0"	44	53	M16	160	57	
KBT50 SFH1.0" 200 AD/ 2.5G 25000 SL	K10315986239282	50	1.0"	44	53	M16	200	57	
KBT50 SFH1-1/4" 110 AD/ 2.5G 25000 SL	K10315987156282	50	1-1/4"	44	53	M16	110	61	
KBT50 SFH1-1/4" 120 AD/ 2.5G 25000 SL	K10315987162282	50	1-1/4"	44	53	M16	120	61	
KBT50 SFH1-1/4" 130 AD/ 2.5G 25000 SL	K10315987165282	50	1-1/4"	44	53	M16	130	61	
KBT50 SFH1-1/4" 160 AD/ 2.5G 25000 SL	K10315987175282	50	1-1/4"	44	53	M16	160	61	
KBT50 SFH1-1/4" 200 AD/ 2.5G 25000 SL	K10315987239282	50	1-1/4"	44	53	M16	200	61	

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



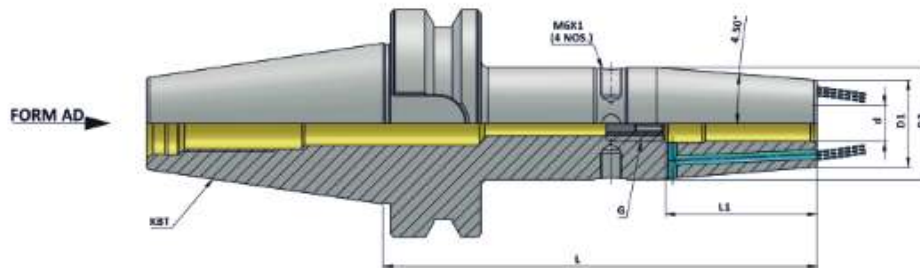
KBT (BT MAS 403) (SFH FCC 4.5°) AD/JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT30 SFH03 080 FCC 2.5G 25000 SL	K10307274131256	30	3	10	20	—	80	12
KBT30 SFH04 080 FCC 2.5G 25000 SL	K10307275131256	30	4	15	22	—	80	14
KBT30 SFH05 080 FCC 2.5G 25000 SL	K10307276131256	30	5	15	22	—	80	15
KBT30 SFH06 080 FCC 2.5G 25000 SL	K10307277131256	30	6	21	27	M5	80	36
KBT30 SFH08 080 FCC 2.5G 25000 SL	K10307285131256	30	8	21	27	M6	80	36
KBT30 SFH10 080 FCC 2.5G 25000 SL	K10307279131256	30	10	24	31	M8	80	41
KBT30 SFH12 080 FCC 2.5G 25000 SL	K10307280131256	30	12	24	31	M10	80	46
KBT30 SFH14 080 FCC 2.5G 25000 SL	K10307284131256	30	14	27	34	M10	80	46
KBT30 SFH16 080 FCC 2.5G 25000 SL	K10307281131256	30	16	27	34	M12	80	49
KBT30 SFH18 080 FCC 2.5G 25000 SL	K10307282131256	30	18	33	40	M12	80	49
KBT30 SFH20 080 FCC 2.5G 25000 SL	K10307283131256	30	20	33	40	M16	80	51
KBT30 SFH1/8" 080 FCC 2.5G 25000 SL	K10313978131296	30	1/8"	10	20	—	80	12
KBT30 SFH3/16" 080 FCC 2.5G 25000 SL	K10313979131296	30	3/16"	15	22	—	80	14
KBT30 SFH1/4" 080 FCC 2.5G 25000 SL	K10313980131296	30	1/4"	21	27	M5	80	36
KBT30 SFH5/16" 080 FCC 2.5G 25000 SL	K10313981131296	30	5/16"	21	27	M6	80	36
KBT30 SFH3/8" 080 FCC 2.5G 25000 SL	K10313982131296	30	3/8"	24	31	M8	80	41
KBT30 SFH1/2" 080 FCC 2.5G 25000 SL	K10313983131296	30	1/2"	24	31	M10	80	46
KBT30 SFH5/8" 080 FCC 2.5G 25000 SL	K10313984131296	30	5/8"	27	34	M12	80	49
KBT30 SFH3/4" 080 FCC 2.5G 25000 SL	K10313985131296	30	3/4"	33	40	M16	80	51

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



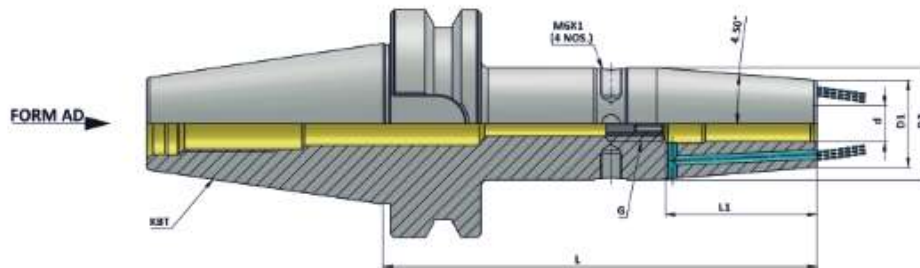
KBT (BT MAS 403) (SFH FCC 4.5°) AD/JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH03 090 FCC 2.5G 25000 SL	K10291274140256	40	3	10	20	—	90	12
KBT40 SFH03 120 FCC 2.5G 25000 SL	K10291274162256	40	3	10	20	—	120	12
KBT40 SFH03 130 FCC 2.5G 25000 SL	K10314274165256	40	3	10	20	—	130	12
KBT40 SFH03 160 FCC 2.5G 25000 SL	K10291274175256	40	3	10	20	—	160	12
KBT40 SFH04 090 FCC 2.5G 25000 SL	K10291275140256	40	4	15	22	—	90	14
KBT40 SFH04 120 FCC 2.5G 25000 SL	K10291275162256	40	4	15	22	—	120	14
KBT40 SFH04 130 FCC 2.5G 25000 SL	K10314275165256	40	4	15	22	—	130	14
KBT40 SFH04 160 FCC 2.5G 25000 SL	K10291275175256	40	4	15	22	—	160	14
KBT40 SFH05 090 FCC 2.5G 25000 SL	K10291276140256	40	5	15	22	—	90	15
KBT40 SFH05 120 FCC 2.5G 25000 SL	K10291276162256	40	5	15	22	—	120	15
KBT40 SFH05 130 FCC 2.5G 25000 SL	K10314276165256	40	5	15	22	—	130	15
KBT40 SFH05 160 FCC 2.5G 25000 SL	K10291276175256	40	5	15	22	—	160	15
KBT40 SFH06 090 FCC 2.5G 25000 SL	K10291277140256	40	6	21	27	M5	90	36
KBT40 SFH06 120 FCC 2.5G 25000 SL	K10291277162256	40	6	21	27	M5	120	36
KBT40 SFH06 130 FCC 2.5G 25000 SL	K10314277165256	40	6	21	27	M5	130	36
KBT40 SFH06 160 FCC 2.5G 25000 SL	K10291277175256	40	6	21	27	M5	160	36
KBT40 SFH08 090 FCC 2.5G 25000 SL	K10291285140256	40	8	21	27	M6	90	36
KBT40 SFH08 120 FCC 2.5G 25000 SL	K10291285162256	40	8	21	27	M6	120	36
KBT40 SFH08 130 FCC 2.5G 25000 SL	K10314285165256	40	8	21	27	M6	130	36
KBT40 SFH08 160 FCC 2.5G 25000 SL	K10291285175256	40	8	21	27	M6	160	36
KBT40 SFH10 090 FCC 2.5G 25000 SL	K10291279140256	40	10	24	31	M8	90	41
KBT40 SFH10 120 FCC 2.5G 25000 SL	K10291279162256	40	10	24	31	M8	120	41
KBT40 SFH10 130 FCC 2.5G 25000 SL	K10314279165256	40	10	24	31	M8	130	41
KBT40 SFH10 160 FCC 2.5G 25000 SL	K10291279175256	40	10	24	31	M8	160	41
KBT40 SFH12 090 FCC 2.5G 25000 SL	K10291280140256	40	12	24	31	M10	90	46
KBT40 SFH12 120 FCC 2.5G 25000 SL	K10291280162256	40	12	24	31	M10	120	46
KBT40 SFH12 130 FCC 2.5G 25000 SL	K10314280165256	40	12	24	31	M10	130	46
KBT40 SFH12 160 FCC 2.5G 25000 SL	K10291280175256	40	12	24	31	M10	160	46
KBT40 SFH14 090 FCC 2.5G 25000 SL	K10291284140256	40	14	27	34	M10	90	46
KBT40 SFH14 120 FCC 2.5G 25000 SL	K10291284162256	40	14	27	34	M10	120	46
KBT40 SFH14 130 FCC 2.5G 25000 SL	K10314284165256	40	14	27	34	M10	130	46
KBT40 SFH14 160 FCC 2.5G 25000 SL	K10291284175256	40	14	27	34	M10	160	46

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



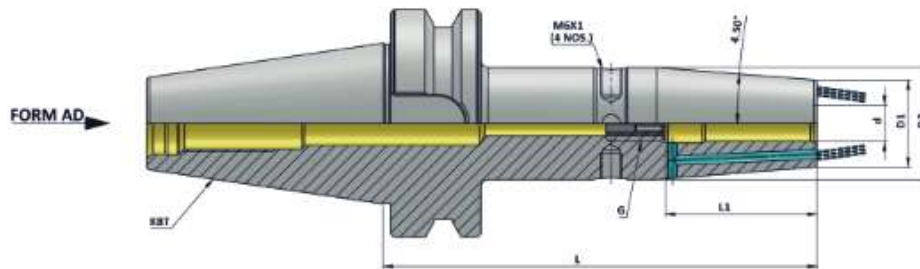
KBT (BT MAS 403) (SFH FCC 4.5°) AD/JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH16 090 FCC 2.5G 25000 SL	K10291281140256	40	16	27	34	M12	90	49
KBT40 SFH16 120 FCC 2.5G 25000 SL	K10291281162256	40	16	27	34	M12	120	49
KBT40 SFH16 130 FCC 2.5G 25000 SL	K10314281165256	40	16	27	34	M12	130	49
KBT40 SFH16 160 FCC 2.5G 25000 SL	K10291281175256	40	16	27	34	M12	160	49
KBT40 SFH18 090 FCC 2.5G 25000 SL	K10291282140256	40	18	33	40	M12	90	49
KBT40 SFH18 120 FCC 2.5G 25000 SL	K10291282162256	40	18	33	40	M12	120	49
KBT40 SFH18 130 FCC 2.5G 25000 SL	K10314282165256	40	18	33	40	M12	130	49
KBT40 SFH18 160 FCC 2.5G 25000 SL	K10291282175256	40	18	33	40	M12	160	49
KBT40 SFH20 090 FCC 2.5G 25000 SL	K10291283140256	40	20	33	40	M16	90	51
KBT40 SFH20 120 FCC 2.5G 25000 SL	K10291283162256	40	20	33	40	M16	120	51
KBT40 SFH20 130 FCC 2.5G 25000 SL	K10314283165256	40	20	33	40	M16	130	51
KBT40 SFH20 160 FCC 2.5G 25000 SL	K10291283175256	40	20	33	40	M16	160	51
KBT40 SFH25 100 FCC 2.5G 25000 SL	K10291287148256	40	25	44	53	M16	100	57
KBT40 SFH25 120 FCC 2.5G 25000 SL	K10291287162256	40	25	44	53	M16	120	57
KBT40 SFH25 130 FCC 2.5G 25000 SL	K10314287165256	400	25	44	53	M16	130	57
KBT40 SFH25 160 FCC 2.5G 25000 SL	K10291287175256	40	25	44	53	M16	160	57
KBT40 SFH32 100 FCC 2.5G 25000 SL	K10291288148256	40	32	44	53	M16	100	61
KBT40 SFH32 120 FCC 2.5G 25000 SL	K10291288162256	40	32	44	53	M16	120	61
KBT40 SFH32 130 FCC 2.5G 25000 SL	K10314288165256	40	32	44	53	M16	130	61
KBT40 SFH32 160 FCC 2.5G 25000 S	K10291288175256	40	32	44	53	M16	160	61

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

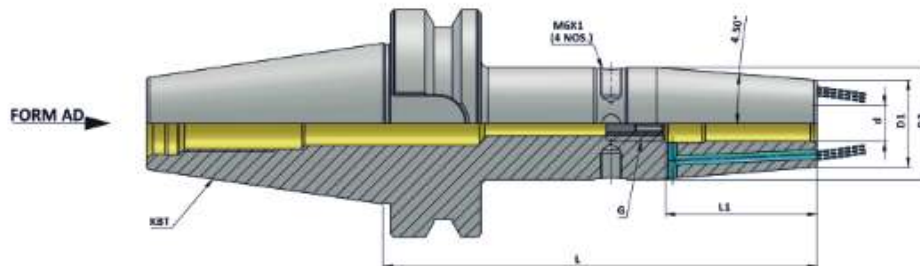


KBT (BT MAS 403) (SFH FCC 4.5°) AD/JD					(Balanced to 2.5G 25000 RPM)			
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH1/8" 090 FCC 2.5G 25000 SL	K10314978140286	40	1/8"	10	20	—	90	12
KBT40 SFH1/8" 120 FCC 2.5G 25000 SL	K10314978162286	40	1/8"	10	20	—	120	12
KBT40 SFH1/8" 130 FCC 2.5G 25000 SL	K10314978165286	40	1/8"	10	20	—	130	12
KBT40 SFH1/8" 160 FCC 2.5G 25000 SL	K10314978175286	40	1/8"	10	20	—	160	12
KBT40 SFH3/16" 090 FCC 2.5G 25000 SL	K10314979140286	40	3/16"	15	22	—	90	14
KBT40 SFH3/16" 120 FCC 2.5G 25000 SL	K10314979162286	40	3/16"	15	22	—	120	14
KBT40 SFH3/16" 130 FCC 2.5G 25000 SL	K10314979165286	40	3/16"	15	22	—	130	14
KBT40 SFH3/16" 160 FCC 2.5G 25000 SL	K10314979175286	40	3/16"	15	22	—	160	14
KBT40 SFH1/4" 090 FCC 2.5G 25000 SL	K10314980140286	40	1/4"	21	27	M5	90	36
KBT40 SFH1/4" 120 FCC 2.5G 25000 SL	K10314980162286	40	1/4"	21	27	M5	120	36
KBT40 SFH1/4" 130 FCC 2.5G 25000 SL	K10314987162286	40	1/4"	21	27	M5	130	36
KBT40 SFH1/4" 160 FCC 2.5G 25000 SL	K10314980175286	40	1/4"	21	27	M5	160	36
KBT40 SFH5/16" 090 FCC 2.5G 25000 SL	K10314981140286	40	5/16"	21	27	M6	90	36
KBT40 SFH5/16" 120 FCC 2.5G 25000 SL	K10314981162286	40	5/16"	21	27	M6	120	36
KBT40 SFH5/16" 130 FCC 2.5G 25000 SL	K10314987175286	40	5/16"	21	27	M6	130	36
KBT40 SFH5/16" 160 FCC 2.5G 25000 SL	K10314981175286	40	5/16"	21	27	M6	160	36
KBT40 SFH3/8" 090 FCC 2.5G 25000 SL	K10314982140286	40	3/8"	24	31	M8	90	41
KBT40 SFH3/8" 120 FCC 2.5G 25000 SL	K10314982162286	40	3/8"	24	31	M8	120	41
KBT40 SFH3/8" 130 FCC 2.5G 25000 SL	K10314982165286	40	3/8"	24	31	M8	130	41
KBT40 SFH3/8" 160 FCC 2.5G 25000 SL	K10314982175286	40	3/8"	24	31	M8	160	41
KBT40 SFH1/2" 090 FCC 2.5G 25000 SL	K10314983140286	40	1/2"	24	31	M10	90	46
KBT40 SFH1/2" 120 FCC 2.5G 25000 SL	K10314983162286	40	1/2"	24	31	M10	120	46
KBT40 SFH1/2" 130 FCC 2.5G 25000 SL	K10314983165286	40	1/2"	24	31	M10	130	46
KBT40 SFH1/2" 160 FCC 2.5G 25000 SL	K10314983175286	40	1/2"	24	31	M10	160	46
KBT40 SFH5/8" 090 FCC 2.5G 25000 SL	K10314984140286	40	5/8"	27	34	M12	90	49
KBT40 SFH5/8" 120 FCC 2.5G 25000 SL	K10314984162286	40	5/8"	27	34	M12	120	49
KBT40 SFH5/8" 130 FCC 2.5G 25000 SL	K10314984165286	40	5/8"	27	34	M12	130	49
KBT40 SFH5/8" 160 FCC 2.5G 25000 SL	K10314984175286	40	5/8"	27	34	M12	160	49
KBT40 SFH3/4" 090 FCC 2.5G 25000 SL	K10314985140286	40	3/4"	33	40	M16	90	51
KBT40 SFH3/4" 120 FCC 2.5G 25000 SL	K10314985162286	40	3/4"	33	40	M16	120	51
KBT40 SFH3/4" 130 FCC 2.5G 25000 SL	K10314985165286	40	3/4"	33	40	M16	130	51
KBT40 SFH3/4" 160 FCC 2.5G 25000 SL	K10314985175286	40	3/4"	33	40	M16	160	51
KBT40 SFH1.0" 100 FCC 2.5G 25000 SL	K10314986148286	40	1.0"	44	53	M16	100	57
KBT40 SFH1.0" 120 FCC 2.5G 25000 SL	K10314986162286	40	1.0"	44	53	M16	120	57
KBT40 SFH1.0" 130 FCC 2.5G 25000 SL	K10314986165286	40	1.0"	44	53	M16	130	57
KBT40 SFH1.0" 160 FCC 2.5G 25000 SL	K10314986175286	40	1.0"	44	53	M16	160	57
KBT40 SFH1-1/4" 100 FCC 2.5G 25000 SL	K10314987148286	40	1-1/4"	44	53	M16	100	61
KBT40 SFH1-1/4" 120 FCC 2.5G 25000 SL	K10314987169286	40	1-1/4"	44	53	M16	120	61
KBT40 SFH1-1/4" 130 FCC 2.5G 25000 SL	K10314987173286	40	1-1/4"	44	53	M16	130	61
KBT40 SFH1-1/4" 160 FCC 2.5G 25000 SL	K10314987238286	40	1-1/4"	44	53	M16	160	61

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



KBT (BT MAS 403) (SFH FCC 4.5°) AD/JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT50 SFH03 100 FCC 2.5G 25000 SL	K10308274148256	50	3	10	20	—	100	12
KBT50 SFH03 120 FCC 2.5G 25000 SL	K10308274162256	50	3	10	20	—	120	12
KBT50 SFH03 130 FCC 2.5G 25000 SL	K10315274165256	50	3	10	20	—	130	12
KBT50 SFH03 160 FCC 2.5G 25000 SL	K10308274175256	50	3	10	20	—	160	12
KBT50 SFH04 100 FCC 2.5G 25000 SL	K10308275148256	50	4	15	22	—	100	14
KBT50 SFH04 120 FCC 2.5G 25000 SL	K10308275162256	50	4	15	22	—	120	14
KBT50 SFH04 130 FCC 2.5G 25000 SL	K10315275165256	50	4	15	22	—	130	14
KBT50 SFH04 160 FCC 2.5G 25000 SL	K10308275175256	50	4	15	22	—	160	14
KBT50 SFH05 100 FCC 2.5G 25000 SL	K10308276148256	50	5	15	22	—	100	15
KBT50 SFH05 120 FCC 2.5G 25000 SL	K10308276162256	50	5	15	22	—	120	15
KBT50 SFH05 130 FCC 2.5G 25000 SL	K10315276165256	50	5	15	22	—	130	15
KBT50 SFH05 160 FCC 2.5G 25000 SL	K10308276175256	50	5	15	22	—	160	15
KBT50 SFH06 100 FCC 2.5G 25000 SL	K10308277148256	50	6	21	27	M5	100	36
KBT50 SFH06 120 FCC 2.5G 25000 SL	K10308277162256	50	6	21	27	M5	120	36
KBT50 SFH06 130 FCC 2.5G 25000 SL	K10315277165256	50	6	21	27	M5	130	36
KBT50 SFH06 160 FCC 2.5G 25000 SL	K10308277175256	50	6	21	27	M5	160	36
KBT50 SFH08 100 FCC 2.5G 25000 SL	K10308285148256	50	8	21	27	M6	100	36
KBT50 SFH08 120 FCC 2.5G 25000 SL	K10308285162256	50	8	21	27	M6	120	36
KBT50 SFH08 130 FCC 2.5G 25000 SL	K10315285165256	50	8	21	27	M6	130	36
KBT50 SFH08 160 FCC 2.5G 25000 SL	K10308285175256	50	8	21	27	M6	160	36
KBT50 SFH10 100 FCC 2.5G 25000 SL	K10308279148207	50	10	24	31	M8	100	41
KBT50 SFH10 120 FCC 2.5G 25000 SL	K10308279162256	50	10	24	31	M8	120	41
KBT50 SFH10 130 FCC 2.5G 25000 SL	K10315279165256	50	10	24	31	M8	130	41
KBT50 SFH10 160 FCC 2.5G 25000 SL	K10308279175256	50	10	24	31	M8	160	41
KBT50 SFH12 100 FCC 2.5G 25000 SL	K10308280148256	50	12	24	31	M10	100	46
KBT50 SFH12 120 FCC 2.5G 25000 SL	K10308280162256	50	12	24	31	M10	120	46
KBT50 SFH12 130 FCC 2.5G 25000 SL	K10315280165256	50	12	24	31	M10	130	46
KBT50 SFH12 160 FCC 2.5G 25000 SL	K10308280175256	50	12	24	31	M10	160	46
KBT50 SFH14 100 FCC 2.5G 25000 SL	K10308284148256	50	14	27	34	M10	100	46
KBT50 SFH14 120 FCC 2.5G 25000 SL	K10308284162256	50	14	27	34	M10	120	46
KBT50 SFH14 130 FCC 2.5G 25000 SL	K10315284165256	50	14	27	34	M10	130	46
KBT50 SFH14 160 FCC 2.5G 25000 SL	K10308284175256	50	14	27	34	M10	160	46

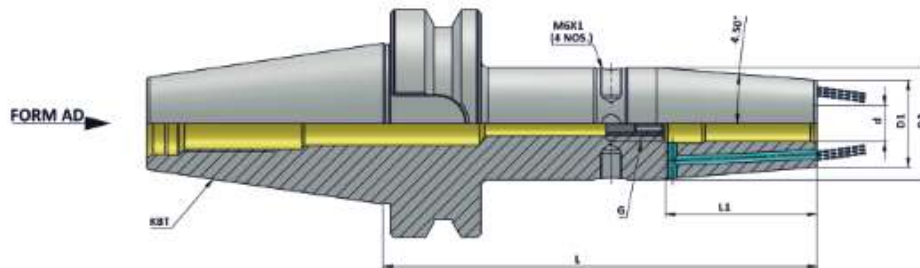
Note: All Dimensions are in mm

65

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



KBT (BT MAS 403) (SFH FCC 4.5°) AD/JD

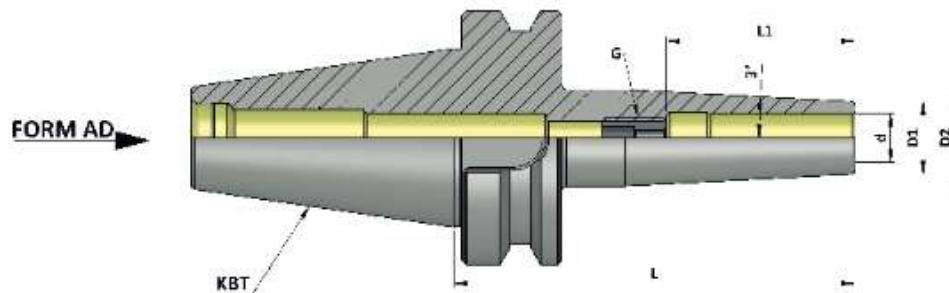
(Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT50 SFH1/8" 100 FCC 2.5G 25000 SL	K10315978148286	50	1/8"	10	20	—	100	12
KBT50 SFH1/8" 120 FCC 2.5G 25000 SL	K10315978162286	50	1/8"	10	20	—	120	12
KBT50 SFH1/8" 130 FCC 2.5G 25000 SL	K10315978165286	50	1/8"	10	20	—	130	12
KBT50 SFH1/8" 160 FCC 2.5G 25000 SL	K10315978175286	50	1/8"	10	20	—	160	12
KBT50 SFH3/16" 100 FCC 2.5G 25000 SL	K10315979140286	50	3/16"	15	22	—	100	14
KBT50 SFH3/16" 120 FCC 2.5G 25000 SL	K10315979162286	50	3/16"	15	22	—	120	14
KBT50 SFH3/16" 130 FCC 2.5G 25000 SL	K10315979165286	50	3/16"	15	22	—	130	14
KBT50 SFH3/16" 160 FCC 2.5G 25000 SL	K10315979175286	50	3/16"	15	22	—	160	14
KBT50 SFH1/4" 100 FCC 2.5G 25000 SL	K10315980140286	50	1/4"	21	27	M5	100	36
KBT50 SFH1/4" 120 FCC 2.5G 25000 SL	K10315980162286	50	1/4"	21	27	M5	120	36
KBT50 SFH1/4" 130 FCC 2.5G 25000 SL	K10315980165286	50	1/4"	21	27	M5	130	36
KBT50 SFH1/4" 160 FCC 2.5G 25000 SL	K10315980175286	50	1/4"	21	27	M5	160	36
KBT50 SFH5/16" 100 FCC 2.5G 25000 SL	K10315981148286	50	5/16"	21	27	M6	100	36
KBT50 SFH5/16" 120 FCC 2.5G 25000 SL	K10315981162286	50	5/16"	21	27	M6	120	36
KBT50 SFH5/16" 130 FCC 2.5G 25000 SL	K10315981165286	50	5/16"	21	27	M6	130	36
KBT50 SFH5/16" 160 FCC 2.5G 25000 SL	K10315981175286	50	5/16"	21	27	M6	160	36
KBT50 SFH3/8" 100 FCC 2.5G 25000 SL	K10315982148286	50	3/8"	24	31	M8	100	41
KBT50 SFH3/8" 120 FCC 2.5G 25000 SL	K10315982162286	50	3/8"	24	31	M8	120	41
KBT50 SFH3/8" 130 FCC 2.5G 25000 SL	K10315982165286	50	3/8"	24	31	M8	130	41
KBT50 SFH3/8" 160 FCC 2.5G 25000 SL	K10315982175286	50	3/8"	24	31	M8	160	41
KBT50 SFH1/2" 100 FCC 2.5G 25000 SL	K10315983148286	50	1/2"	24	31	M10	100	46
KBT50 SFH1/2" 120 FCC 2.5G 25000 SL	K10315983162286	50	1/2"	24	31	M10	120	46
KBT50 SFH1/2" 130 FCC 2.5G 25000 SL	K10315983165286	50	1/2"	24	31	M10	130	46
KBT50 SFH1/2" 160 FCC 2.5G 25000 SL	K10315983175286	50	1/2"	24	31	M10	160	46
KBT50 SFH5/8" 100 FCC 2.5G 25000 SL	K10315984148286	50	5/8"	27	34	M12	100	49
KBT50 SFH5/8" 120 FCC 2.5G 25000 SL	K10315984162286	50	5/8"	27	34	M12	120	49
KBT50 SFH5/8" 130 FCC 2.5G 25000 SL	K10315984165286	50	5/8"	27	34	M12	130	49
KBT50 SFH5/8" 160 FCC 2.5G 25000 SL	K10315984175286	50	5/8"	27	34	M12	160	49
KBT50 SFH3/4" 100 FCC 2.5G 25000 SL	K10315985148286	50	3/4"	33	40	M16	100	51
KBT50 SFH3/4" 120 FCC 2.5G 25000 SL	K10315985162286	50	3/4"	33	40	M16	120	51
KBT50 SFH3/4" 130 FCC 2.5G 25000 SL	K10315985165286	50	3/4"	33	40	M16	130	51
KBT50 SFH3/4" 160 FCC 2.5G 25000 SL	K10315985175286	50	3/4"	33	40	M16	160	51
KBT50 SFH1.0" 110 FCC 2.5G 25000 SL	K10315986156286	50	1.0"	44	53	M16	110	57
KBT50 SFH1.0" 120 FCC 2.5G 25000 SL	K10315986162286	50	1.0"	44	53	M16	120	57
KBT50 SFH1.0" 130 FCC 2.5G 25000 SL	K10315986165286	50	1.0"	44	53	M16	130	57
KBT50 SFH1.0" 160 FCC 2.5G 25000 SL	K10315986175286	50	1.0"	44	53	M16	160	57
KBT50 SFH1-1/4" 110 FCC 2.5G 25000 SL	K10315987156286	50	1-1/4"	44	53	M16	110	61
KBT50 SFH1-1/4" 120 FCC 2.5G 25000 SL	K10315987162286	50	1-1/4"	44	53	M16	120	61
KBT50 SFH1-1/4" 130 FCC 2.5G 25000 SL	K10315987165286	50	1-1/4"	44	53	M16	130	61
KBT50 SFH1-1/4" 160 FCC 2.5G 25000 SL	K10315987175286	50	1-1/4"	44	53	M16	160	61

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



KBT (BT MAS 403) (SFH SLIM 3°) (AD) JD

(Balanced to 2.5G 25000 RPM)

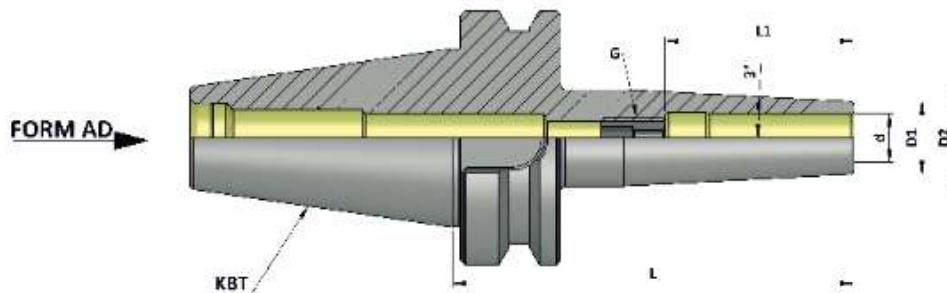
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT30 SFH03 080 SLIM 2.5G 25000 SL	K10307274131258	30	3	9	15	—	80	12
KBT30 SFH03 100 SLIM 2.5G 25000 SL	K10313274148258	30	3	9	18	—	100	12
KBT30 SFH04 080 SLIM 2.5G 25000 SL	K10307275131258	30	4	10	16	—	80	14
KBT30 SFH04 100 SLIM 2.5G 25000 SL	K10313275148258	30	4	10	19	—	100	14
KBT30 SFH05 080 SLIM 2.5G 25000 SL	K10307276131258	30	5	11	17	—	80	15
KBT30 SFH05 100 SLIM 2.5G 25000 SL	K10313276148258	30	5	11	20	—	100	15
KBT30 SFH06 080 SLIM 2.5G 25000 SL	K10307277131258	30	6	12	18	M5	80	36
KBT30 SFH06 100 SLIM 2.5G 25000 SL	K10313277148258	30	6	12	18	M5	100	36
KBT30 SFH08 080 SLIM 2.5G 25000 SL	K10307285131258	30	8	14	20	M6	80	36
KBT30 SFH08 100 SLIM 2.5G 25000 SL	K10313285148258	30	8	14	20	M6	100	36
KBT30 SFH10 080 SLIM 2.5G 25000 SL	K10307279131258	30	10	16	22	M8	80	41
KBT30 SFH10 100 SLIM 2.5G 25000 SL	K10313279148258	30	10	16	22	M8	100	41
KBT30 SFH12 080 SLIM 2.5G 25000 SL	K10307280131258	30	12	18	24	M10	80	46
KBT30 SFH12 100 SLIM 2.5G 25000 SL	K10313280148258	30	12	18	24	M10	100	46
KBT30 SFH14 080 SLIM 2.5G 25000 SL	K10307284131258	30	14	20	26	M10	80	46
KBT30 SFH14 100 SLIM 2.5G 25000 SL	K10313284148258	30	14	20	30	M10	100	46
KBT30 SFH16 080 SLIM 2.5G 25000 SL	K10307281131258	30	16	22	28	M12	80	49
KBT30 SFH16 100 SLIM 2.5G 25000 SL	K10313281148258	30	16	22	32	M12	100	49
KBT30 SFH18 080 SLIM 2.5G 25000 SL	K10307282131258	30	18	24	30	M12	80	49
KBT30 SFH18 100 SLIM 2.5G 25000 SL	K10313282148258	30	18	24	34	M12	100	49
KBT30 SFH20 080 SLIM 2.5G 25000 SL	K10307283131258	30	20	26	32	M16	80	51
KBT30 SFH20 100 SLIM 2.5G 25000 SL	K10313283148258	30	20	26	36	M16	100	51

KBT30 SFH1/8" 080 SLIM 2.5G 25000 SL	K10313978131542	30	1/8"	9	15	—	80	12
KBT30 SFH1/8" 100 SLIM 2.5G 25000 SL	K10313978148258	30	1/8"	9	18	—	100	12
KBT30 SFH3/16" 080 SLIM 2.5G 25000 SL	K10313979131542	30	3/16"	10	16	—	80	14
KBT30 SFH3/16" 100 SLIM 2.5G 25000 SL	K10313979148258	30	3/16"	10	19	—	100	14
KBT30 SFH1/4" 080 SLIM 2.5G 25000 SL	K10313980131542	30	1/4"	12	18	M5	80	36
KBT30 SFH1/4" 100 SLIM 2.5G 25000 SL	K10313980148258	30	1/4"	12	18	M5	100	36
KBT30 SFH5/16" 080 SLIM 2.5G 25000 SL	K10313981131542	30	5/16"	14	20	M6	80	36
KBT30 SFH5/16" 100 SLIM 2.5G 25000 SL	K10313981148258	30	5/16"	14	20	M6	100	36
KBT30 SFH3/8" 080 SLIM 2.5G 25000 SL	K10313982131542	30	3/8"	16	22	M8	80	41
KBT30 SFH3/8" 100 SLIM 2.5G 25000 SL	K10313982148258	30	3/8"	16	22	M8	100	41
KBT30 SFH1/2" 080 SLIM 2.5G 25000 SL	K10313983131542	30	1/2"	18	24	M10	80	46
KBT30 SFH1/2" 100 SLIM 2.5G 25000 SL	K10313983148258	30	1/2"	18	24	M10	100	46
KBT30 SFH5/8" 080 SLIM 2.5G 25000 SL	K10313984131542	30	5/8"	22	28	M12	80	49
KBT30 SFH5/8" 100 SLIM 2.5G 25000 SL	K10313984148258	30	5/8"	22	32	M12	100	49
KBT30 SFH3/4" 080 SLIM 2.5G 25000 SL	K10313985131542	30	3/4"	26	32	M16	80	51
KBT30 SFH3/4" 100 SLIM 2.5G 25000 SL	K10313985148258	30	3/4"	26	36	M16	100	51

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



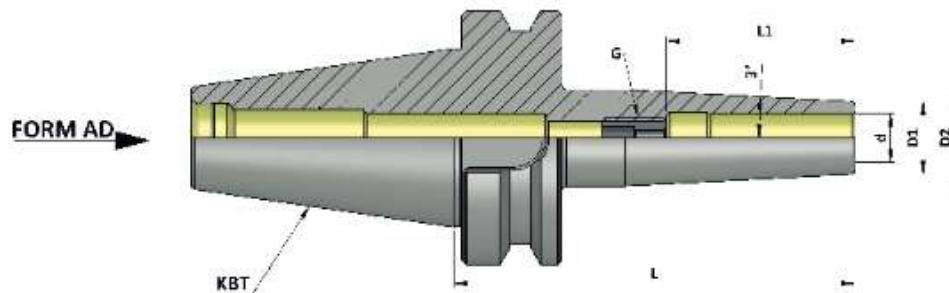
KBT (BT MAS 403) (SFH SLIM 3°) (AD) JD							(Balanced to 2.5G 25000 RPM)	
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH03 090 SLIM 2.5G 25000 SL	K10291274140258	40	3	9	15	—	90	12
KBT40 SFH03 120 SLIM 2.5G 25000 SL	K10291274162258	40	3	9	18	—	120	12
KBT40 SFH04 090 SLIM 2.5G 25000 SL	K10291275140258	40	4	10	16	—	90	14
KBT40 SFH04 120 SLIM 2.5G 25000 SL	K10291275162258	40	4	10	19	—	120	14
KBT40 SFH05 090 SLIM 2.5G 25000 SL	K10291276140258	40	5	11	17	—	90	15
KBT40 SFH05 120 SLIM 2.5G 25000 SL	K10291276162258	40	5	11	20	—	120	15
KBT40 SFH06 090 SLIM 2.5G 25000 SL	K10291277140258	40	6	12	18	M5	90	36
KBT40 SFH06 120 SLIM 2.5G 25000 SL	K10291277162258	40	6	12	21	M5	120	36
KBT40 SFH06 160 SLIM 2.5G 25000 SL	K10291277175258	40	6	12	25	M5	160	36
KBT40 SFH08 090 SLIM 2.5G 25000 SL	K10291285140258	40	8	14	20	M6	90	36
KBT40 SFH08 120 SLIM 2.5G 25000 SL	K10291285162258	40	8	14	23	M6	120	36
KBT40 SFH08 160 SLIM 2.5G 25000 SL	K10291285175258	40	8	14	27	M6	160	36
KBT40 SFH10 090 SLIM 2.5G 25000 SL	K10291279140258	40	10	16	22	M8	90	41
KBT40 SFH10 120 SLIM 2.5G 25000 SL	K10291279162258	40	10	16	25	M8	120	41
KBT40 SFH10 160 SLIM 2.5G 25000 SL	K10291279175258	40	10	16	29	M8	160	41
KBT40 SFH12 090 SLIM 2.5G 25000 SL	K10291280140258	40	12	18	24	M10	90	46
KBT40 SFH12 120 SLIM 2.5G 25000 SL	K10291280162258	40	12	18	27	M10	120	46
KBT40 SFH12 160 SLIM 2.5G 25000 SL	K10291280175258	40	12	18	31	M10	160	46
KBT40 SFH14 090 SLIM 2.5G 25000 SL	K10291284140258	40	14	20	26	M10	90	46
KBT40 SFH14 120 SLIM 2.5G 25000 SL	K10291284162258	40	14	20	29	M10	120	46
KBT40 SFH14 160 SLIM 2.5G 25000 SL	K10291284175258	40	14	20	32	M10	160	46
KBT40 SFH16 090 SLIM 2.5G 25000 SL	K10291281140258	40	16	22	28	M12	90	49
KBT40 SFH16 120 SLIM 2.5G 25000 SL	K10291281162258	40	16	22	31	M12	120	49
KBT40 SFH16 160 SLIM 2.5G 25000 SL	K10291281175258	40	16	22	34	M12	160	49
KBT40 SFH18 090 SLIM 2.5G 25000 SL	K10291282140258	40	18	24	30	M12	90	49
KBT40 SFH18 120 SLIM 2.5G 25000 SL	K10291282162258	40	18	24	33	M12	120	49
KBT40 SFH18 160 SLIM 2.5G 25000 SL	K10291282175258	40	18	24	36	M12	160	49
KBT40 SFH20 090 SLIM 2.5G 25000 SL	K10291283140258	40	20	26	32	M16	90	51
KBT40 SFH20 120 SLIM 2.5G 25000 SL	K10291283162258	40	20	26	35	M16	120	51
KBT40 SFH20 160 SLIM 2.5G 25000 SL	K10291283175258	40	20	26	38	M16	160	51

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



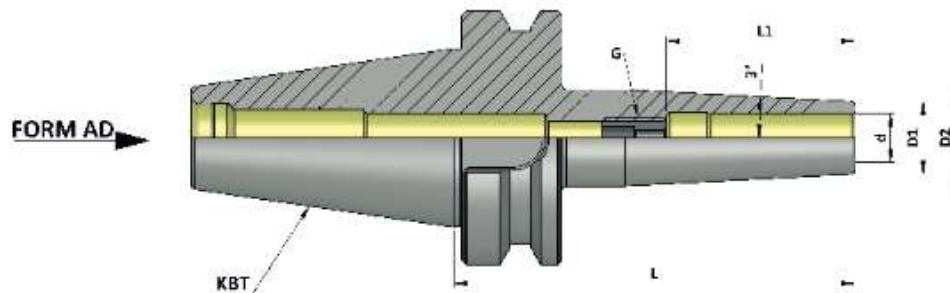
KBT (BT MAS 403) (SFH SLIM 3°) (AD) JD				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1
KBT40 SFH1/8" 090 SLIM 2.5G 25000 SL	K10314978140542	40	1/8"	9	15	—	90	12
KBT40 SFH1/8" 120 SLIM 2.5G 25000 SL	K10314978162542	40	1/8"	9	18	—	120	12
KBT40 SFH3/16" 090 SLIM 2.5G 25000 SL	K10314979140542	40	3/16"	10	16	—	90	14
KBT40 SFH3/16" 120 SLIM 2.5G 25000 SL	K10314979162542	40	3/16"	10	19	—	120	14
KBT40 SFH1/4" 090 SLIM 2.5G 25000 SL	K10314980618542	40	1/4"	12	18	M5	90	36
KBT40 SFH1/4" 120 SLIM 2.5G 25000 SL	K10314980162542	40	1/4"	12	21	M5	120	36
KBT40 SFH1/4" 160 SLIM 2.5G 25000 SL	K10314980175542	40	1/4"	12	25	M5	160	36
KBT40 SFH5/16" 090 SLIM 2.5G 25000 SL	K10314981140542	40	5/16"	14	20	M6	90	36
KBT40 SFH5/16" 120 SLIM 2.5G 25000 SL	K10314981162542	40	5/16"	14	23	M6	120	36
KBT40 SFH5/16" 160 SLIM 2.5G 25000 SL	K10314981175542	40	5/16"	14	27	M6	160	36
KBT40 SFH3/8" 090 SLIM 2.5G 25000 SL	K10314982140542	40	3/8"	16	22	M8	90	41
KBT40 SFH3/8" 120 SLIM 2.5G 25000 SL	K10314982162542	40	3/8"	16	25	M8	120	41
KBT40 SFH3/8" 160 SLIM 2.5G 25000 SL	K10314982175542	40	3/8"	16	29	M8	160	41
KBT40 SFH1/2" 090 SLIM 2.5G 25000 SL	K10314983140542	40	1/2"	18	24	M10	90	46
KBT40 SFH1/2" 120 SLIM 2.5G 25000 SL	K10314983162542	40	1/2"	18	27	M10	120	46
KBT40 SFH1/2" 160 SLIM 2.5G 25000 SL	K10314983175542	40	1/2"	18	31	M10	160	46
KBT40 SFH5/8" 090 SLIM 2.5G 25000 SL	K10314984140542	40	5/8"	22	28	M12	90	49
KBT40 SFH5/8" 120 SLIM 2.5G 25000 SL	K10314984162542	40	5/8"	22	31	M12	120	49
KBT40 SFH5/8" 160 SLIM 2.5G 25000 SL	K10314984175542	40	5/8"	22	34	M12	160	49
KBT40 SFH3/4" 090 SLIM 2.5G 25000 SL	K10314985140542	40	3/4"	26	32	M16	90	51
KBT40 SFH3/4" 120 SLIM 2.5G 25000 SL	K10314985162542	40	3/4"	26	35	M16	120	51
KBT40 SFH3/4" 160 SLIM 2.5G 25000 SL	K10314985175542	40	3/4"	26	38	M16	160	51

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



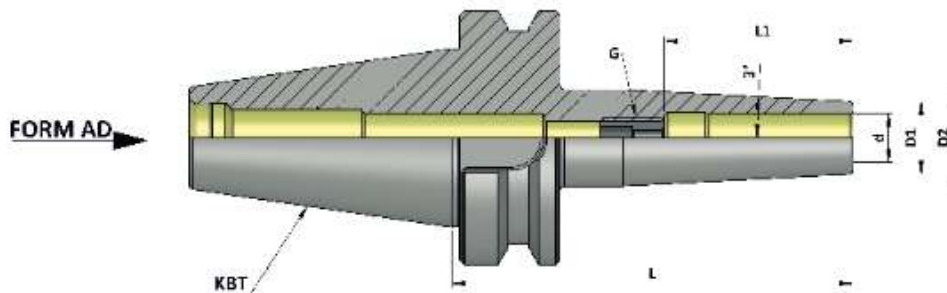
KBT (BT MAS 403) (SFH SLIM 3°) (AD) JD									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	
KBT50 SFH03 100 SLIM 2.5G 25000 SL	K10308274148258	50	3	9	15.5	—	100	12	
KBT50 SFH03 120 SLIM 2.5G 25000 SL	K10308274162258	50	3	9	17.5	—	120	12	
KBT50 SFH04 100 SLIM 2.5G 25000 SL	K10308275148258	50	4	10	16.5	—	100	14	
KBT50 SFH04 120 SLIM 2.5G 25000 SL	K10308275162258	50	4	10	18.5	—	120	14	
KBT50 SFH05 100 SLIM 2.5G 25000 SL	K10308276148258	50	5	11	17.5	—	100	15	
KBT50 SFH05 120 SLIM 2.5G 25000 SL	K10308276162258	50	5	11	19.5	—	120	15	
KBT50 SFH06 100 SLIM 2.5G 25000 SL	K10308277148258	50	6	12	18.5	M5	100	36	
KBT50 SFH06 120 SLIM 2.5G 25000 SL	K10308277162258	50	6	12	20.5	M5	120	36	
KBT50 SFH06 160 SLIM 2.5G 25000 SL	K10308277175258	50	6	12	25	M5	160	36	
KBT50 SFH08 100 SLIM 2.5G 25000 SL	K10308285148258	50	8	14	20.5	M6	100	36	
KBT50 SFH08 120 SLIM 2.5G 25000 SL	K10308285162258	50	8	14	22.5	M6	120	36	
KBT50 SFH08 160 SLIM 2.5G 25000 SL	K10308285175258	50	8	14	27	M6	160	36	
KBT50 SFH10 100 SLIM 2.5G 25000 SL	K10308279148258	50	10	16	22.5	M8	100	41	
KBT50 SFH10 120 SLIM 2.5G 25000 SL	K10308279162258	50	10	16	24.5	M8	120	41	
KBT50 SFH10 160 SLIM 2.5G 25000 SL	K10308279175258	50	10	16	29	M8	160	41	
KBT50 SFH12 100 SLIM 2.5G 25000 SL	K10308280148258	50	12	18	24.5	M10	100	46	
KBT50 SFH12 120 SLIM 2.5G 25000 SL	K10308280162258	50	12	18	26.5	M10	120	46	
KBT50 SFH12 160 SLIM 2.5G 25000 SL	K10308280175258	50	12	18	31	M10	160	46	
KBT50 SFH14 100 SLIM 2.5G 25000 SL	K10308284148258	50	14	20	26	M10	100	46	
KBT50 SFH14 120 SLIM 2.5G 25000 SL	K10308284162258	50	14	20	29	M10	120	46	
KBT50 SFH14 160 SLIM 2.5G 25000 SL	K10308284175258	50	14	20	32	M10	160	46	
KBT50 SFH16 100 SLIM 2.5G 25000 SL	K10308281148258	50	16	22	28	M12	100	49	
KBT50 SFH16 120 SLIM 2.5G 25000 SL	K10308281162258	50	16	22	31	M12	120	49	
KBT50 SFH16 160 SLIM 2.5G 25000 SL	K10308281175258	50	16	22	34	M12	160	49	
KBT50 SFH18 100 SLIM 2.5G 25000 SL	K10308282148258	50	18	24	30	M12	100	49	
KBT50 SFH18 120 SLIM 2.5G 25000 SL	K10308282162258	50	18	24	33	M12	120	49	
KBT50 SFH18 160 SLIM 2.5G 25000 SL	K10308282175258	50	18	24	36	M12	160	49	
KBT50 SFH20 100 SLIM 2.5G 25000 SL	K10308283148258	50	20	26	32	M16	100	51	
KBT50 SFH20 120 SLIM 2.5G 25000 SL	K10308283162258	50	20	26	35	M16	120	51	
KBT50 SFH20 160 SLIM 2.5G 25000 SL	K10308283175258	50	20	26	38	M16	160	51	

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) (AD) JD Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



KBT (BT MAS 403) (SFH SLIM 3°) (AD) JD									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	
KBT50 SFH1/8" 100 SLIM AD/2.5G 25000 SL	K10315978148542	50	1/8"	9	15.5	—	100	12	
KBT50 SFH1/8" 120 SLIM AD/2.5G 25000 SL	K10315978162542	50	1/8"	9	17.5	—	120	12	
KBT50 SFH3/16" 100 SLIM AD/2.5G 25000 SL	K10315979148542	50	3/16"	10	16.5	—	100	14	
KBT50 SFH3/16" 120 SLIM AD/2.5G 25000 SL	K10315979162542	50	3/16"	10	18.5	—	120	14	
KBT50 SFH1/4" 100 SLIM AD/2.5G 25000 SL	K10315980148542	50	1/4"	12	18.5	M5	100	36	
KBT50 SFH1/4" 120 SLIM AD/2.5G 25000 SL	K10315980162542	50	1/4"	12	20.5	M5	120	36	
KBT50 SFH1/4" 160 SLIM AD/2.5G 25000 SL	K10315980175542	50	1/4"	12	25	M5	160	36	
KBT50 SFH5/16" 100 SLIM AD/2.5G 25000 SL	K10315981148542	50	5/16"	14	20.5	M6	100	36	
KBT50 SFH5/16" 120 SLIM AD/2.5G 25000 SL	K10315981162542	50	5/16"	14	22.5	M6	120	36	
KBT50 SFH5/16" 160 SLIM AD/2.5G 25000 SL	K10315981175542	50	5/16"	14	27	M6	160	36	
KBT50 SFH3/8" 100 SLIM AD/2.5G 25000 SL	K10315982148542	50	3/8"	16	22.5	M8	100	41	
KBT50 SFH3/8" 120 SLIM AD/2.5G 25000 SL	K10315982162542	50	3/8"	16	24.5	M8	120	41	
KBT50 SFH3/8" 160 SLIM AD/2.5G 25000 SL	K10315982175542	50	3/8"	16	29	M8	160	41	
KBT50 SFH1/2" 100 SLIM AD/2.5G 25000 SL	K10315983148542	50	1/2"	18	24.5	M10	100	46	
KBT50 SFH1/2" 120 SLIM AD/2.5G 25000 SL	K10315983162542	50	1/2"	18	26.5	M10	120	46	
KBT50 SFH1/2" 160 SLIM AD/2.5G 25000 SL	K10315983175542	50	1/2"	18	31	M10	160	46	
KBT50 SFH5/8" 100 SLIM AD/2.5G 25000 SL	K10315984148542	50	5/8"	22	28	M12	100	49	
KBT50 SFH5/8" 120 SLIM AD/2.5G 25000 SL	K10315984162542	50	5/8"	22	31	M12	120	49	
KBT50 SFH5/8" 160 SLIM AD/2.5G 25000 SL	K10315984175542	50	5/8"	22	34	M12	160	49	
KBT50 SFH3/4" 100 SLIM AD/2.5G 25000 SL	K10315985148542	50	3/4"	26	32	M16	100	51	
KBT50 SFH3/4" 120 SLIM AD/2.5G 25000 SL	K10315985162542	50	3/4"	26	35	M16	120	51	
KBT50 SFH3/4" 160 SLIM AD/2.5G 25000 SL	K10315985175542	50	3/4"	26	38	M16	160	51	

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/18/20/25/32mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"
Having GPL 200/250/300/350/400 MM
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

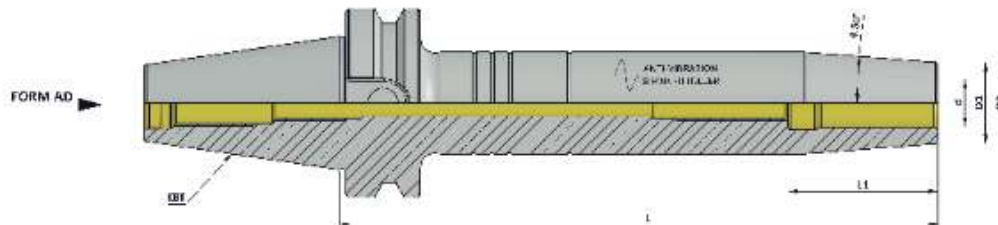
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



KBT (BT MAS 403) (DIN ISO 7388 - 2) Shrink Fit Holder Anti - Vibration (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (SFH - AD/AV)

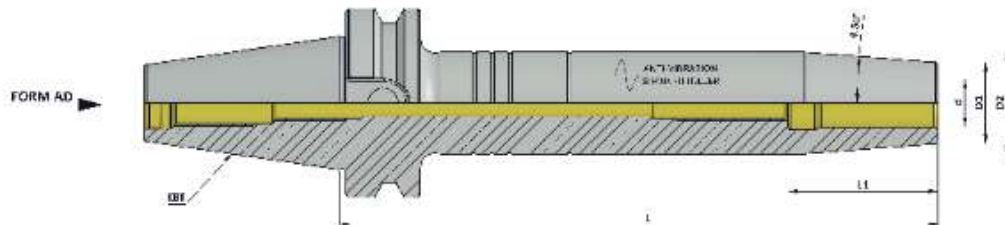
ITEM NAME	ITEM CODE	ISO	d	D1	D2	L	L1
KBT40 SFH16 200 AD/AV	K10314281239539	40	16	27	34	200	49
KBT40 SFH16 250 AD/AV	K10314281182539	40	16	27	34	250	49
KBT40 SFH16 300 AD/AV	K10314281183539	40	16	27	34	300	49
KBT40 SFH18 200 AD/AV	K10314282239539	40	18	33	40	200	49
KBT40 SFH18 250 AD/AV	K10314282182539	40	18	33	40	250	49
KBT40 SFH18 300 AD/AV	K10314282183539	40	18	33	40	300	49
KBT40 SFH20 200 AD/AV	K10314283239539	40	20	33	40	200	51
KBT40 SFH20 250 AD/AV	K10314283182539	40	20	33	40	250	51
KBT40 SFH20 300 AD/AV	K10314283183539	40	20	33	40	300	51
KBT40 SFH25 200 AD/AV	K10314287239539	40	25	44	53	200	57
KBT40 SFH25 250 AD/AV	K10314287182539	40	25	44	53	250	57
KBT40 SFH25 300 AD/AV	K10314287183539	40	25	44	53	300	57
KBT40 SFH32 200 AD/AV	K10314288239539	40	32	44	53	200	61
KBT40 SFH32 250 AD/AV	K10314288182539	40	32	44	53	250	61
KBT40 SFH32 300 AD/AV	K10314288183539	40	32	44	53	300	61
KBT40 SFH5/8" 200 AD/AV	K10314984239539	40	5/8"	27	34	200	49
KBT40 SFH5/8" 250 AD/AV	K10314984182539	40	5/8"	27	34	250	49
KBT40 SFH5/8" 300 AD/AV	K10314984183539	40	5/8"	27	34	300	49
KBT40 SFH3/4" 200 AD/AV	K10314985239539	40	3/4"	33	40	200	51
KBT40 SFH3/4" 250 AD/AV	K10314985182539	40	3/4"	33	40	250	51
KBT40 SFH3/4" 300 AD/AV	K10314985183539	40	3/4"	33	40	300	51
KBT40 SFH1.0" 200 AD/AV	K10314986239539	40	1.0"	44	53	200	57
KBT40 SFH1.0" 250 AD/AV	K10314986182539	40	1.0"	44	53	250	57
KBT40 SFH1.0" 300 AD/AV	K10314986183539	40	1.0"	44	53	300	57
KBT40 SFH1-1/4" 200 AD/AV	K10314987239539	40	1-1/4"	44	53	200	61
KBT40 SFH1-1/4" 250 AD/AV	K10314987182539	40	1-1/4"	44	53	250	61
KBT40 SFH1-1/4" 300 AD/AV	K10314987183539	40	1-1/4"	44	53	300	61

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Shrink Fit Holder Anti - Vibration (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (SFH - AD/AV)

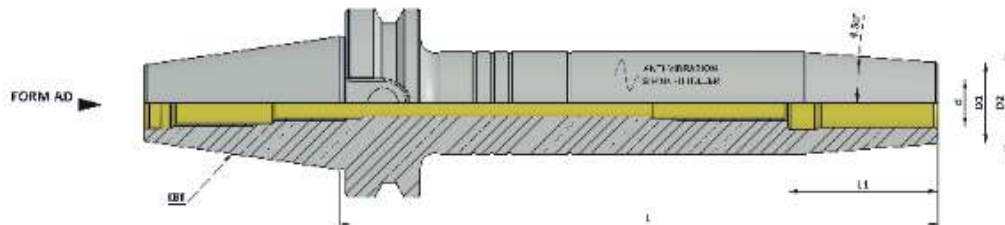
ITEM NAME	ITEM CODE	ISO	d	D1	D2	L	L1
KBT50 SFH16 200 AD/AV	K10315281239539	50	16	27	34	200	49
KBT50 SFH16 250 AD/AV	K10315281182539	50	16	27	34	250	49
KBT50 SFH16 300 AD/AV	K10315281183539	50	16	27	34	300	49
KBT50 SFH16 350 AD/AV	K10315281184539	50	16	27	34	350	49
KBT50 SFH16 400 AD/AV	K10315281540539	50	16	27	34	400	49
KBT50 SFH18 200 AD/AV	K10315282239539	50	18	33	40	200	49
KBT50 SFH18 250 AD/AV	K10315282182539	50	18	33	40	250	49
KBT50 SFH18 300 AD/AV	K10315282183539	50	18	33	40	300	49
KBT50 SFH18 350 AD/AV	K10315282184539	50	18	33	40	350	49
KBT50 SFH18 400 AD/AV	K10315282540539	50	18	33	40	400	49
KBT50 SFH20 200 AD/AV	K10315283239539	50	20	33	40	200	51
KBT50 SFH20 250 AD/AV	K10315283182539	50	20	33	40	250	51
KBT50 SFH20 300 AD/AV	K10315283183539	50	20	33	40	300	51
KBT50 SFH20 350 AD/AV	K10315283184539	50	20	33	40	350	51
KBT50 SFH20 400 AD/AV	K10315283540539	50	20	33	40	400	51
KBT50 SFH25 200 AD/AV	K10315287239539	50	25	44	53	200	57
KBT50 SFH25 250 AD/AV	K10315287182539	50	25	44	53	250	57
KBT50 SFH25 300 AD/AV	K10315287183539	50	25	44	53	300	57
KBT50 SFH25 350 AD/AV	K10315287184539	50	25	44	53	350	57
KBT50 SFH25 400 AD/AV	K10315287540539	50	25	44	53	400	57
KBT50 SFH32 200 AD/AV	K10315288239539	50	32	44	53	200	61
KBT50 SFH32 250 AD/AV	K10315288182539	50	32	44	53	250	61
KBT50 SFH32 300 AD/AV	K10315288183539	50	32	44	53	300	61
KBT50 SFH32 350 AD/AV	K10315288184539	50	32	44	53	350	61
KBT50 SFH32 400 AD/AV	K10315288540539	50	32	44	53	400	61

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Shrink Fit Holder Anti - Vibration (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (SFH - AD/AV)

ITEM NAME	ITEM CODE	ISO	d	D1	D2	L	L1
KBT50 SFH5/8" 200 AD/AV	K10315984239539	50	5/8"	27	34	200	49
KBT50 SFH5/8" 250 AD/AV	K10315984182539	50	5/8"	27	34	250	49
KBT50 SFH5/8" 300 AD/AV	K10315984183539	50	5/8"	27	34	300	49
KBT50 SFH5/8" 350 AD/AV	K10315984184539	50	5/8"	27	34	350	49
KBT50 SFH5/8" 400 AD/AV	K10315984540539	50	5/8"	27	34	400	49
KBT50 SFH3/4" 200 AD/AV	K10315985239539	50	3/4"	33	40	200	51
KBT50 SFH3/4" 250 AD/AV	K10315985182539	50	3/4"	33	40	250	51
KBT50 SFH3/4" 300 AD/AV	K10315985183539	50	3/4"	33	40	300	51
KBT50 SFH3/4" 350 AD/AV	K10315985184539	50	3/4"	33	40	350	51
KBT50 SFH3/4" 400 AD/AV	K10315985540539	50	3/4"	33	40	400	51
KBT50 SFH1.0" 200 AD/AV	K10315986239539	50	1.0"	44	53	200	57
KBT50 SFH1.0" 250 AD/AV	K10315986182539	50	1.0"	44	53	250	57
KBT50 SFH1.0" 300 AD/AV	K10315986183539	50	1.0"	44	53	300	57
KBT50 SFH1.0" 350 AD/AV	K10315986184539	50	1.0"	44	53	350	57
KBT50 SFH1.0" 400 AD/AV	K10315986540539	50	1.0"	44	53	400	57
KBT50 SFH1-1/4" 200 AD/AV	K10315987239539	50	1-1/4"	44	53	200	61
KBT50 SFH1-1/4" 250 AD/AV	K10315987182539	50	1-1/4"	44	53	250	61
KBT50 SFH1-1/4" 300 AD/AV	K10315987183539	50	1-1/4"	44	53	300	61
KBT50 SFH1-1/4" 350 AD/AV	K10315987184539	50	1-1/4"	44	53	350	61
KBT50 SFH1-1/4" 400 AD/AV	K10315987540539	50	1-1/4"	44	53	400	61

Note: All Dimensions are in mm

Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Features:

- Maximum Run-out of external diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm

Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm

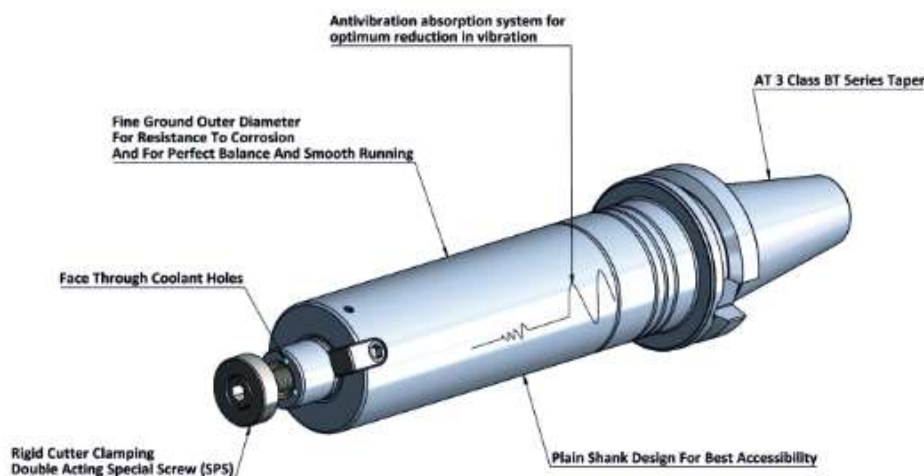
- Through Coolant Facility Double Acting Nut for cutter clamping

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life & run-away of metal swarf Perfect Alignment with cutter face & rigid clamping.

Available In Mountings :

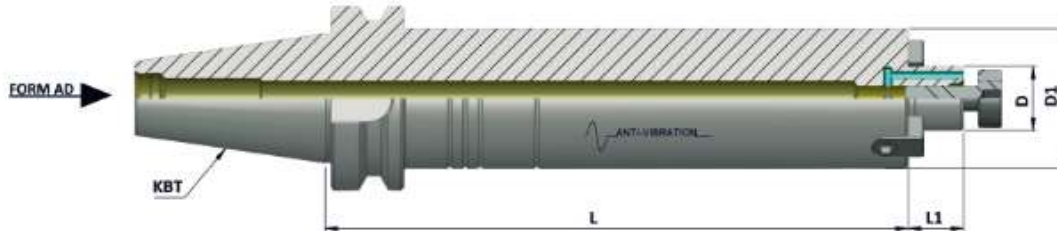
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



KBT (BT MAS 403) (DIN ISO 7388 - 2) Face Mill Holder Anti - Vibration (FMH-K - AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (FMH-K - AD/AV)

ITEM NAME	ITEM CODE	ISO	D	D1	L	L1
KBT40 FMH-K16 200 AD AV SP.S	K10314131239271	40	16	38	200	17
KBT40 FMH-K16 250 AD AV SP.S	K10314131182271	40	16	38	250	17
KBT40 FMH-K16 300 AD AV SP.S	K10314131183271	40	16	38	300	17
KBT40 FMH-K22 200 AD AV SP.S	K10314132239271	40	22	48	200	19
KBT40 FMH-K22 250 AD AV SP.S	K10314132182271	40	22	48	250	19
KBT40 FMH-K22 300 AD AV SP.S	K10314132183271	40	22	48	300	19
KBT40 FMH-K27 200 AD AV SP.S	K10314133239271	40	27	58	200	21
KBT40 FMH-K27 250 AD AV SP.S	K10314133182271	40	27	58	250	21
KBT40 FMH-K27 300 AD AV SP.S	K10314133183271	40	27	58	300	21
KBT40 FMH-K32 200 AD AV SP.S	K10314134239271	40	32	78	200	24
KBT40 FMH-K32 250 AD AV SP.S	K10314134182271	40	32	78	250	24
KBT40 FMH-K32 300 AD AV SP.S	K10314134183271	40	32	78	300	24
KBT40 FMH-K40 200 AD AV SP.S	K10314576239271	40	40	88	200	27
KBT40 FMH-K40 250 AD AV SP.S	K10314576182271	40	40	88	250	27
KBT40 FMH-K40 300 AD AV SP.S	K10314576183271	40	40	88	300	27

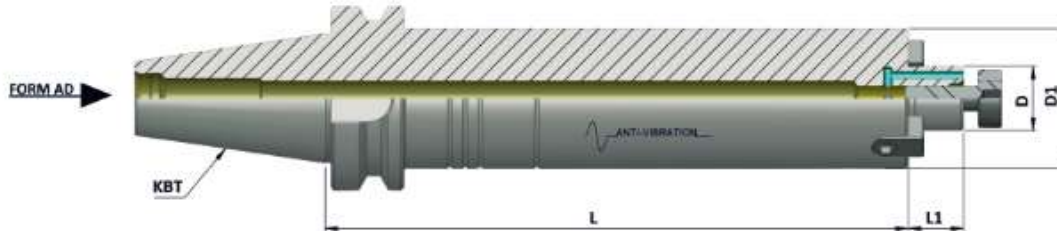
KBT40 FMH-K3/4" 200 AD/AV	K10314958239539	40	3/4"	2.0"	200	0.687"
KBT40 FMH-K3/4" 250 AD/AV	K10314958182539	40	3/4"	2.0"	250	0.687"
KBT40 FMH-K3/4" 300 AD/AV	K10314958183539	40	3/4"	2.0"	300	0.687"
KBT40 FMH-K1.0" 200 AD/AV	K10314959239539	40	1.0"	2.375"	200	0.687"
KBT40 FMH-K1.0" 250 AD/AV	K10314959182539	40	1.0"	2.375"	250	0.687"
KBT40 FMH-K1.0" 300 AD/AV	K10314959183539	40	1.0"	2.375"	300	0.687"
KBT40 FMH-K1-1/4" 200 AD/AV	K10314960239539	40	1-1/4"	2.875"	200	0.687"
KBT40 FMH-K1-1/4" 250 AD/AV	K10314960182539	40	1-1/4"	2.875"	250	0.687"
KBT40 FMH-K1-1/4" 300 AD/AV	K10314960183539	40	1-1/4"	2.875"	300	0.687"
KBT40 FMH-K1-1/2" 200 AD/AV	K10314639239539	40	1-1/2"	3.750"	200	0.938"
KBT40 FMH-K1-1/2" 250 AD/AV	K10314639182539	40	1-1/2"	3.750"	250	0.938"
KBT40 FMH-K1-1/2" 300 AD/AV	K10314639183539	40	1-1/2"	3.750"	300	0.938"

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Face Mill Holder Anti - Vibration (FMH-K - AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (FMH-K - AD/AV)

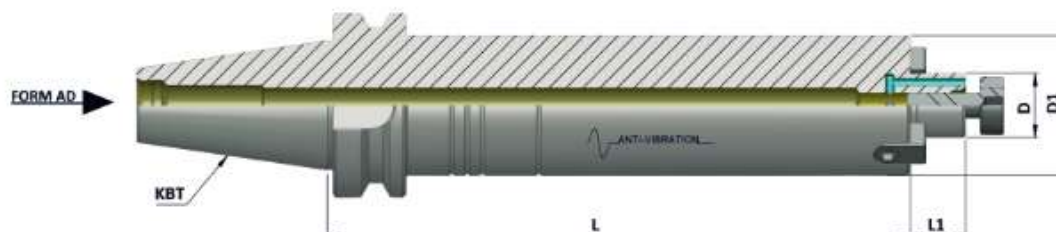
ITEM NAME	ITEM CODE	ISO	D	D1	L	L1
KBT50 FMH-K16 200 AD AV SP.S	K10315131239271	50	16	38	200	17
KBT50 FMH-K16 250 AD AV SP.S	K10315131182271	50	16	38	250	17
KBT50 FMH-K16 300 AD AV SP.S	K10315131183271	50	16	38	300	17
KBT50 FMH-K16 350 AD AV SP.S	K10315131184271	50	16	38	350	17
KBT50 FMH-K16 400 AD AV SP.S	K10315131540271	50	16	38	400	17
KBT50 FMH-K22 200 AD AV SP.S	K10315132239271	50	22	48	200	19
KBT50 FMH-K22 250 AD AV SP.S	K10315132182271	50	22	48	250	19
KBT50 FMH-K22 300 AD AV SP.S	K10315132183271	50	22	48	300	19
KBT50 FMH-K22 350 AD AV SP.S	K10315132184271	50	22	48	350	19
KBT50 FMH-K22 400 AD AV SP.S	K10315132540271	50	22	48	400	19
KBT50 FMH-K27 200 AD AV SP.S	K10315133239271	50	27	58	200	21
KBT50 FMH-K27 250 AD AV SP.S	K10315133182271	50	27	58	250	21
KBT50 FMH-K27 300 AD AV SP.S	K10315133183271	50	27	58	300	21
KBT50 FMH-K27 350 AD AV SP.S	K10315133184271	50	27	58	350	21
KBT50 FMH-K27 400 AD AV SP.S	K10315133540271	50	27	58	400	21
KBT50 FMH-K32 200 AD AV SP.S	K10315134239271	50	32	78	200	24
KBT50 FMH-K32 250 AD AV SP.S	K10315134182271	50	32	78	250	24
KBT50 FMH-K32 300 AD AV SP.S	K10315134183271	50	32	78	300	24
KBT50 FMH-K32 350 AD AV SP.S	K10315134184271	50	32	78	350	24
KBT50 FMH-K32 400 AD AV SP.S	K10315134540271	50	32	78	400	24
KBT50 FMH-K40 200 AD AV SP.S	K10315576239271	50	40	88	200	27
KBT50 FMH-K40 250 AD AV SP.S	K10315576182271	50	40	88	250	27
KBT50 FMH-K40 300 AD AV SP.S	K10315576183271	50	40	88	300	27
KBT50 FMH-K40 350 AD AV SP.S	K10315576184271	50	40	88	350	27
KBT50 FMH-K40 400 AD AV SP.S	K10315576540271	50	40	88	400	27

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Face Mill Holder Anti - Vibration (FMH-K - AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (FMH-K - AD/AV)

ITEM NAME	ITEM CODE	ISO	D	D1	L	L1
KBT50 FMH-K3/4" 200 AD/AV	K10315958239539	50	3/4"	2.0"	200	0.687"
KBT50 FMH-K3/4" 250 AD/AV	K10315958182539	50	3/4"	2.0"	250	0.687"
KBT50 FMH-K3/4" 300 AD/AV	K10315958183539	50	3/4"	2.0"	300	0.687"
KBT50 FMH-K3/4" 350 AD/AV	K10315958184539	50	3/4"	2.0"	350	0.687"
KBT50 FMH-K3/4" 400 AD/AV	K10315958540539	50	3/4"	2.0"	400	0.687"
KBT50 FMH-K1.0" 200 AD/AV	K10315959239539	50	1.0"	2.375"	200	0.687"
KBT50 FMH-K1.0" 250 AD/AV	K10315959182539	50	1.0"	2.375"	250	0.687"
KBT50 FMH-K1.0" 300 AD/AV	K10315959183539	50	1.0"	2.375"	300	0.687"
KBT50 FMH-K1.0" 350 AD/AV	K10315959184539	50	1.0"	2.375"	350	0.687"
KBT50 FMH-K1.0" 400 AD/AV	K10315959540539	50	1.0"	2.375"	400	0.687"
KBT50 FMH-K1-1/4" 200 AD/AV	K10315960239539	50	1-1/4"	2.875"	200	0.687"
KBT50 FMH-K1-1/4" 250 AD/AV	K10315960182539	50	1-1/4"	2.875"	250	0.687"
KBT50 FMH-K1-1/4" 300 AD/AV	K10315960183539	50	1-1/4"	2.875"	300	0.687"
KBT50 FMH-K1-1/4" 350 AD/AV	K10315960184539	50	1-1/4"	2.875"	350	0.687"
KBT50 FMH-K1-1/4" 400 AD/AV	K10315960540539	50	1-1/4"	2.875"	400	0.687"
KBT50 FMH-K1-1/2" 200 AD/AV	K10315639239539	50	1-1/2"	3.750"	200	0.938"
KBT50 FMH-K1-1/2" 250 AD/AV	K10315639182539	50	1-1/2"	3.750"	250	0.938"
KBT50 FMH-K1-1/2" 300 AD/AV	K10315639183539	50	1-1/2"	3.750"	300	0.938"
KBT50 FMH-K1-1/2" 350 AD/AV	K10315639184539	50	1-1/2"	3.750"	350	0.938"
KBT50 FMH-K1-1/2" 400 AD/AV	K10315639540539	50	1-1/2"	3.750"	400	0.938"

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

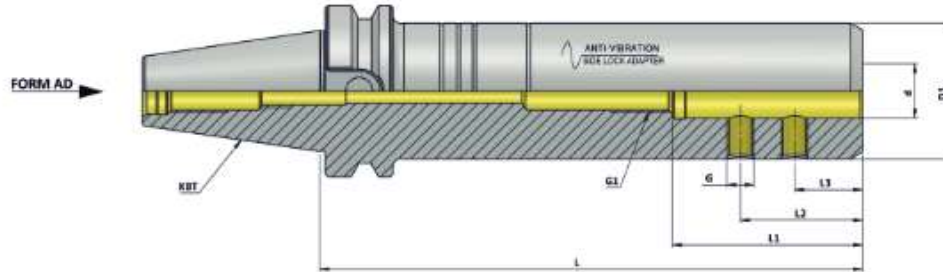
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



KBT (BT MAS 403) (DIN ISO 7388 - 2) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (SLA - AD/AV)

ITEM NAME	ITEM CODE	ISO	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
KBT40 SLA16 200 AD/AV	K10314105239539	40	16	48	M14	M12	200	57	-	23.50	1
KBT40 SLA16 250 AD/AV	K10314105182539	40	16	48	M14	M12	250	57	-	23.50	1
KBT40 SLA16 300 AD/AV	K10314105183539	40	16	48	M14	M12	300	57	-	23.50	1
KBT40 SLA20 200 AD/AV	K10314106239539	40	20	50	M10	M16	200	70	45	25	2
KBT40 SLA20 250 AD/AV	K10314106182539	40	20	50	M10	M16	250	70	45	25	2
KBT40 SLA20 300 AD/AV	K10314106183539	40	20	50	M10	M16	300	70	45	25	2
KBT40 SLA25 200 AD/AV	K10314107239539	40	25	50	M10	M16	200	70	45	25	2
KBT40 SLA25 250 AD/AV	K10314107182539	40	25	50	M10	M16	250	70	45	25	2
KBT40 SLA25 300 AD/AV	K10314107183539	40	25	50	M10	M16	300	70	45	25	2
KBT40 SLA32 200 AD/AV	K10314108239539	40	32	60	M10	M16	200	70	50	30	2
KBT40 SLA32 250 AD/AV	K10314108182539	40	32	60	M10	M16	250	70	50	30	2
KBT40 SLA32 300 AD/AV	K10314108183539	40	32	60	M10	M16	300	70	50	30	2
KBT40 SLA40 200 AD/AV	K10314109239539	40	40	60	M10	M16	200	70	50	30	2
KBT40 SLA40 250 AD/AV	K10314109182539	40	40	60	M10	M16	250	70	50	30	2
KBT40 SLA40 300 AD/AV	K10314109183539	40	40	60	M10	M16	300	70	50	30	2

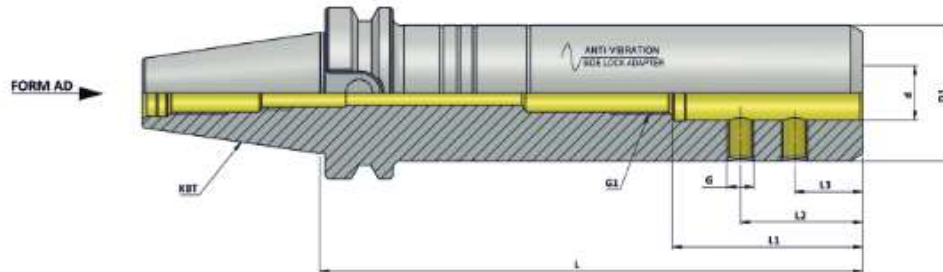
KBT40 SLA5/8" 200 AD/AV	K10314989239539	40	5/8"	48	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
KBT40 SLA5/8" 250 AD/AV	K10314989182539	40	5/8"	48	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
KBT40 SLA5/8" 300 AD/AV	K10314989183539	40	5/8"	48	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
KBT40 SLA3/4" 200 AD/AV	K10314990239539	40	3/4"	50	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
KBT40 SLA3/4" 250 AD/AV	K10314990182539	40	3/4"	50	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
KBT40 SLA3/4" 300 AD/AV	K10314990183539	40	3/4"	50	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
KBT40 SLA1.0" 200 AD/AV	K10314991239539	40	1.0"	50	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
KBT40 SLA1.0" 250 AD/AV	K10314991182539	40	1.0"	50	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
KBT40 SLA1.0" 300 AD/AV	K10314991183539	40	1.0"	50	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
KBT40 SLA1-1/4" 200 AD/AV	K10314992239539	40	1-1/4"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
KBT40 SLA1-1/4" 250 AD/AV	K10314992182539	40	1-1/4"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
KBT40 SLA1-1/4" 300 AD/AV	K10314992183539	40	1-1/4"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
KBT40 SLA1-1/2" 200 AD/AV	K10314993239539	40	1-1/2"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
KBT40 SLA1-1/2" 250 AD/AV	K10314993182539	40	1-1/2"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
KBT40 SLA1-1/2" 300 AD/AV	K10314993183539	40	1-1/2"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (SLA - AD/AV)

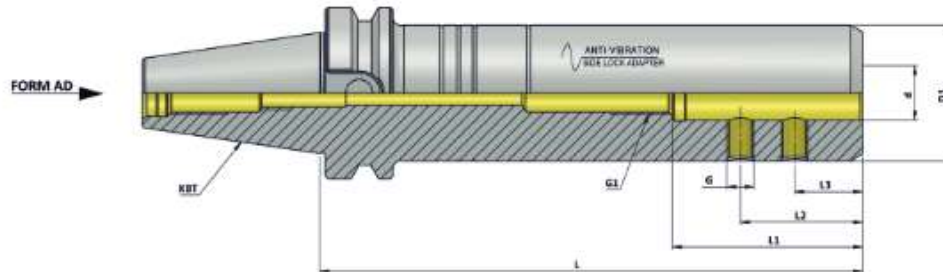
ITEM NAME	ITEM CODE	ISO	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
KBT50 SLA16 200 AD/AV	K10315105239539	50	16	48	M14	M12	200	57	-	23.50	1
KBT50 SLA16 250 AD/AV	K10315105182539	50	16	48	M14	M12	250	57	-	23.50	1
KBT50 SLA16 300 AD/AV	K10315105183539	50	16	48	M14	M12	300	57	-	23.50	1
KBT50 SLA16 350 AD/AV	K10315105184539	50	16	48	M14	M12	350	57	-	23.50	1
KBT50 SLA16 400 AD/AV	K10315105540539	50	16	48	M14	M12	400	57	-	23.50	1
KBT50 SLA20 200 AD/AV	K10315106239539	50	20	50	M10	M16	200	70	45	25	2
KBT50 SLA20 250 AD/AV	K10315106182539	50	20	50	M10	M16	250	70	45	25	2
KBT50 SLA20 300 AD/AV	K10315106183539	50	20	50	M10	M16	300	70	45	25	2
KBT50 SLA20 350 AD/AV	K10315106184539	50	20	50	M10	M16	350	70	45	25	2
KBT50 SLA20 400 AD/AV	K10315106540539	50	20	50	M10	M16	400	70	45	25	2
KBT50 SLA25 200 AD/AV	K10315107239539	50	25	50	M10	M16	200	70	45	25	2
KBT50 SLA25 250 AD/AV	K10315107182539	50	25	50	M10	M16	250	70	45	25	2
KBT50 SLA25 300 AD/AV	K10315107183539	50	25	50	M10	M16	300	70	45	25	2
KBT50 SLA25 350 AD/AV	K10315107184539	50	25	50	M10	M16	350	70	45	25	2
KBT50 SLA25 400 AD/AV	K10315107540539	50	25	50	M10	M16	400	70	45	25	2
KBT50 SLA32 200 AD/AV	K10315108239539	50	32	60	M10	M16	200	70	50	30	2
KBT50 SLA32 250 AD/AV	K10315108182539	50	32	60	M10	M16	250	70	50	30	2
KBT50 SLA32 300 AD/AV	K10315108183539	50	32	60	M10	M16	300	70	50	30	2
KBT50 SLA32 350 AD/AV	K10315108184539	50	32	60	M10	M16	350	70	50	30	2
KBT50 SLA32 400 AD/AV	K10315108540539	50	32	60	M10	M16	400	70	50	30	2
KBT50 SLA40 200 AD/AV	K10315109239539	50	40	60	M10	M16	200	70	50	30	2
KBT50 SLA40 250 AD/AV	K10315109182539	50	40	60	M10	M16	250	70	50	30	2
KBT50 SLA40 300 AD/AV	K10315109183539	50	40	60	M10	M16	300	70	50	30	2
KBT50 SLA40 350 AD/AV	K10315109184539	50	40	60	M10	M16	350	70	50	30	2
KBT50 SLA40 400 AD/AV	K10315109540539	50	40	60	M10	M16	400	70	50	30	2

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (SLA - AD/AV)

ITEM NAME	ITEM CODE	ISO	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
KBT50 SLA5/8" 200 AD/AV	K10315989239539	50	5/8"	48	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
KBT50 SLA5/8" 250 AD/AV	K10315989182539	50	5/8"	48	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
KBT50 SLA5/8" 300 AD/AV	K10315989183539	50	5/8"	48	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
KBT50 SLA5/8" 350 AD/AV	K10315989184539	50	5/8"	48	1/2"20UNFx7/16"	M12	350	57	-	0.937"	1
KBT50 SLA5/8" 400 AD/AV	K10315989540539	50	5/8"	48	1/2"20UNFx7/16"	M12	400	57	-	0.937"	1
KBT50 SLA3/4" 200 AD/AV	K10315990239539	50	3/4"	50	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
KBT50 SLA3/4" 250 AD/AV	K10315990182539	50	3/4"	50	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
KBT50 SLA3/4" 300 AD/AV	K10315990183539	50	3/4"	50	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
KBT50 SLA3/4" 350 AD/AV	K10315990184539	50	3/4"	50	5/8"18UNFx1/2"	M16	350	59	-	1.00"	1
KBT50 SLA3/4" 400 AD/AV	K10315990540539	50	3/4"	50	5/8"18UNFx1/2"	M16	400	59	-	1.00"	1
KBT50 SLA1.0" 200 AD/AV	K10315991239539	50	1.0"	50	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
KBT50 SLA1.0" 250 AD/AV	K10315991182539	50	1.0"	50	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
KBT50 SLA1.0" 300 AD/AV	K10315991183539	50	1.0"	50	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
KBT50 SLA1.0" 350 AD/AV	K10315991184539	50	1.0"	50	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
KBT50 SLA1.0" 400 AD/AV	K10315991540539	50	1.0"	50	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2
KBT50 SLA1-1/4" 200 AD/AV	K10315992239539	50	1-1/4"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
KBT50 SLA1-1/4" 250 AD/AV	K10315992182539	50	1-1/4"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
KBT50 SLA1-1/4" 300 AD/AV	K10315992183539	50	1-1/4"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
KBT50 SLA1-1/4" 350 AD/AV	K10315992184539	50	1-1/4"	60	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
KBT50 SLA1-1/4" 400 AD/AV	K10315992540539	50	1-1/4"	60	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2
KBT50 SLA1-1/2" 200 AD/AV	K10315993239539	50	1-1/2"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
KBT50 SLA1-1/2" 250 AD/AV	K10315993182539	50	1-1/2"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
KBT50 SLA1-1/2" 300 AD/AV	K10315993183539	50	1-1/2"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
KBT50 SLA1-1/2" 350 AD/AV	K10315993184539	50	1-1/2"	60	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
KBT50 SLA1-1/2" 400 AD/AV	K10315993540539	50	1-1/2"	60	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal taper w.r.t external taper is within 0.010 mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Holding ER 16/20/25/32/40 mm Having GPL - 200/250/300/350/400 mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

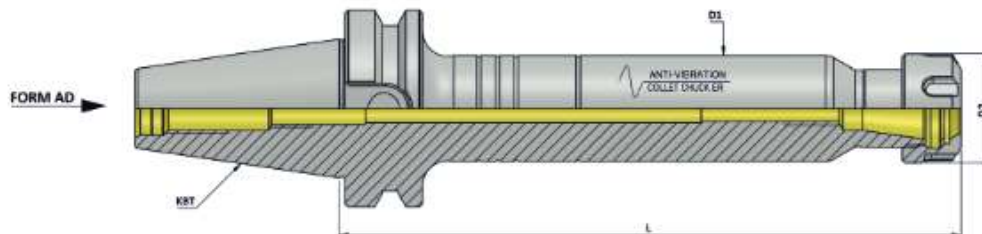
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



KBT (BT MAS 403) (DIN ISO 7388 - 2) Collet Chuck ER Anti - vibration (ER AD/AV) (DIN 6499)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (ER AD/AV)

ITEM NAME	ITEM CODE	ISO	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
KBT40 ER 16 200 AD/AV	K10314149239539	40	ER 16	0.5-10	30	32	200	UM/ER16	E16
KBT40 ER 16 250 AD/AV	K10314149182539	40	ER 16	0.5-10	30	32	250	UM/ER16	E16
KBT40 ER 16 300 AD/AV	K10314149183539	40	ER 16	0.5-10	30	32	300	UM/ER16	E16
KBT40 ER 20 200 AD/AV	K10314150239539	40	ER 20	1.0-13	34	35	200	UM/ER20	E20
KBT40 ER 20 250 AD/AV	K10314150182539	40	ER 20	1.0-13	34	35	250	UM/ER20	E20
KBT40 ER 20 300 AD/AV	K10314150183539	40	ER 20	1.0-13	34	35	300	UM/ER20	E20
KBT40 ER 25 200 AD/AV	K10314151239539	40	ER 25	1.0-16	40	42	200	UM/ER25	E25
KBT40 ER 25 250 AD/AV	K10314151182539	40	ER 25	1.0-16	40	42	250	UM/ER25	E25
KBT40 ER 25 300 AD/AV	K10314151183539	40	ER 25	1.0-16	40	42	300	UM/ER25	E25
KBT40 ER 32 200 AD/AV	K10314152239539	40	ER 32	2.0-20	48	50	200	UM/ER32	E32
KBT40 ER 32 250 AD/AV	K10314152182539	40	ER 32	2.0-20	48	50	250	UM/ER32	E32
KBT40 ER 32 300 AD/AV	K10314152183539	40	ER 32	2.0-20	48	50	300	UM/ER32	E32
KBT40 ER 40 200 AD/AV	K10314153239539	40	ER 40	3.0-26	52	63	200	UM/ER40	E40
KBT40 ER 40 250 AD/AV	K10314153182539	40	ER 40	3.0-26	52	63	250	UM/ER40	E40
KBT40 ER 40 300 AD/AV	K10314153183539	40	ER 40	3.0-26	52	63	300	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



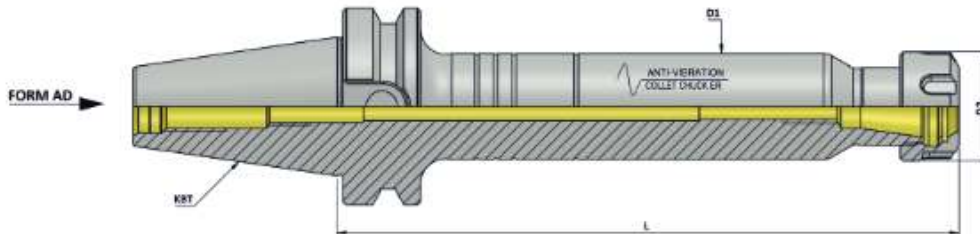
ER SPANNER

Note: All Dimensions are in mm

KBT (BT MAS 403) (DIN ISO 7388 - 2) Collet Chuck ER Anti - vibration (ER AD/AV) (DIN 6499)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



KBT (BT MAS 403) (ER AD/AV)

ITEM NAME	ITEM CODE	ISO	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
KBT50 ER 16 200 AD/AV	K10315149239539	50	ER 16	0.5-10	30	32	200	UM/ER16	E16
KBT50 ER 16 250 AD/AV	K10315149182539	50	ER 16	0.5-10	30	32	250	UM/ER16	E16
KBT50 ER 16 300 AD/AV	K10315149183539	50	ER 16	0.5-10	30	32	300	UM/ER16	E16
KBT50 ER 16 350 AD/AV	K10315149184539	50	ER 16	0.5-10	30	32	350	UM/ER16	E16
KBT50 ER 16 400 AD/AV	K10315149540539	50	ER 16	0.5-10	30	32	400	UM/ER16	E16
KBT50 ER 20 200 AD/AV	K10315150239539	50	ER 20	1.0-13	34	35	200	UM/ER20	E20
KBT50 ER 20 250 AD/AV	K10315150182539	50	ER 20	1.0-13	34	35	250	UM/ER20	E20
KBT50 ER 20 300 AD/AV	K10315150183539	50	ER 20	1.0-13	34	35	300	UM/ER20	E20
KBT50 ER 20 350 AD/AV	K10315150184539	50	ER 20	1.0-13	34	35	350	UM/ER20	E20
KBT50 ER 20 400 AD/AV	K10315150540539	50	ER 20	1.0-13	34	35	400	UM/ER20	E20
KBT50 ER 25 200 AD/AV	K10315151239539	50	ER 25	1.0-16	40	42	200	UM/ER25	E25
KBT50 ER 25 250 AD/AV	K10315151182539	50	ER 25	1.0-16	40	42	250	UM/ER25	E25
KBT50 ER 25 300 AD/AV	K10315151183539	50	ER 25	1.0-16	40	42	300	UM/ER25	E25
KBT50 ER 25 350 AD/AV	K10315151184539	50	ER 25	1.0-16	40	42	350	UM/ER25	E25
KBT50 ER 25 400 AD/AV	K10315151540539	50	ER 25	1.0-16	40	42	400	UM/ER25	E25
KBT50 ER 32 200 AD/AV	K10315152239539	50	ER 32	2.0-20	48	50	200	UM/ER32	E32
KBT50 ER 32 250 AD/AV	K10315152182539	50	ER 32	2.0-20	48	50	250	UM/ER32	E32
KBT50 ER 32 300 AD/AV	K10315152183539	50	ER 32	2.0-20	48	50	300	UM/ER32	E32
KBT50 ER 32 350 AD/AV	K10315152184539	50	ER 32	2.0-20	48	50	350	UM/ER32	E32
KBT50 ER 32 400 AD/AV	K10315152540539	50	ER 32	2.0-20	48	50	400	UM/ER32	E32
KBT50 ER 40 200 AD/AV	K10315153239539	50	ER 40	3.0-26	60	63	200	UM/ER40	E40
KBT50 ER 40 250 AD/AV	K10315153182539	50	ER 40	3.0-26	60	63	250	UM/ER40	E40
KBT50 ER 40 300 AD/AV	K10315153183539	50	ER 40	3.0-26	60	63	300	UM/ER40	E40
KBT50 ER 40 350 AD/AV	K10315153184539	50	ER 40	3.0-26	60	63	350	UM/ER40	E40
KBT50 ER 40 400 AD/AV	K10315153540539	50	ER 40	3.0-26	60	63	400	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



ER SPANNER

Note: All Dimensions are in mm

Features :

- Small outside diameter.
- Best suitable for Die & Mould Industry.
- Most suitable for machining of cavities difficult to reach.
- High precision Runout <0.005mm (4xd)
- All 'KTA' Die & Mould Chucks are subjected to Sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Capacity :

- DMC 06 (3mm to 6mm)
- DMC 08 (3mm to 8mm)
- DMC 10 (3mm to 10mm)

Available in Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

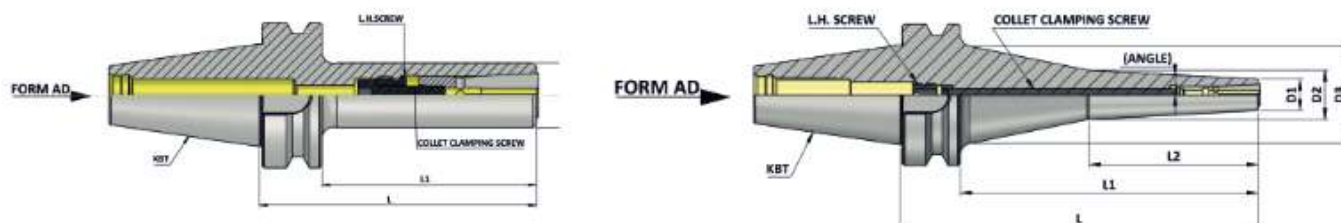
- Balanced To 2.5G 25000 RPM



KBT (BT MAS 403) (DIN ISO 7388-2) Die & Mould Chuck (DMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



KBT (BT MAS 403) (DMC)													(Balanced to 2.5G 25000 RPM)		
ITEM NAME	ITEM CODE	ISO	GRIPPING RANGE	D1	D2	D3	L	L1	L2	ANGLE	SUITABLE COLLET	SCREW	ALLEN KEY		
KBT30 DMC 06 090 AD/2.5G 25000 SL	K10307161140228	30	3-6	14	19.2	-	90	69	50	3	DMC-6	M5	4X200		
KBT40 DMC 06 060 AD/2.5G 25000 SL	K10291161117228	40	3-6	14	16.7	-	60	33	26	3	DMC-6	M5	4X200		
KBT40 DMC 06 090 AD/2.5G 25000 SL	K10291161140228	40	3-6	14	18.7	35	90	63	45	3	DMC-6	M5	4X200		
KBT40 DMC 06 120 AD/2.5G 25000 SL	K10291161162228	40	3-6	14	20.2	40	120	93	60	3	DMC-6	M5	4X200		
KBT40 DMC 06 160 AD/2.5G 25000 SL	K10291161175228	40	3-6	14	21.9	45	160	133	76	3	DMC-6	M5	4X200		
KBT40 DMC 08 090 AD/2.5G 25000 SL	K10291162140228	40	3-8	22	27.5	35	90	63	53	3	DMC-8	M6	5X200		
KBT40 DMC 08 120 AD/2.5G 25000 SL	K10291162162228	40	3-8	22	28.8	40	120	93	65	3	DMC-8	M6	5X200		
KBT40 DMC 10 090 AD/2.5G 25000 SL	K10291163140228	40	3-10	28	-	-	90	63	-	-	DMC-10	M8	6X200		
KBT40 DMC 10 120 AD/2.5G 25000 SL	K10291163162228	40	3-10	28	-	-	120	93	-	-	DMC-10	M8	6X200		
KBT50 DMC 10 150 AD/2.5G 25000 SL	K10308163173228	50	3-10	28	-	-	150	112	-	-	DMC-10	M8	6X200		

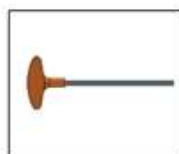
Accessories:



DMC COLLET



DMC ALLEN CAP SCREW



DMC ALLEN KEY



DMC LH SCREW

For DMC Accessories Ref. Pg.Nos 283 To 285

Note: All Dimensions are in mm

Features :

- 'KTA' Power Milling Chuck is Very Rigid & Precision.
- It is best for Drilling, Reaming & Milling Operations.
- The tool runs true less than 5 micron on 2D. Hence the tool life increases drastically.
- It's Unibody construction reduces the vibrations. This also helps to increase the tool life.
- All 'KTA' Power Milling Chucks are subjected to sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Available In Mountings

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 96893-1)
- CAT (ANSI B 5.50)

Balancing

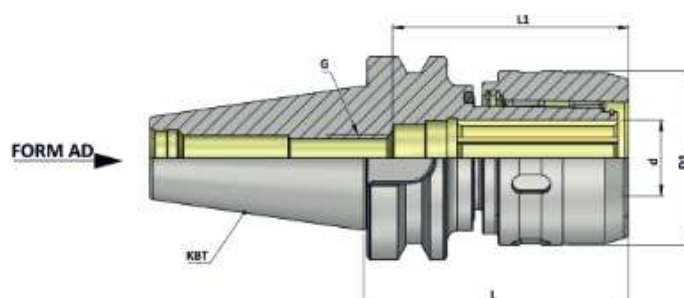
- Balanced To 6.3G 15000 RPM



KBT (BT MAS 403) (DIN ISO 7388 - 2) Power Milling Chuck (PMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



KBT (BT MAS 403) (PMC)				(Balanced to 2.5G 25000 RPM)			
ITEM NAME	ITEM CODE	ISO	d	D1	L	L1	G
KBT30 C20 075 AD/2.5G 25000 SL	K10307445127110	30	20	54	75	70	-
KBT30 C 3/4" 075 AD/2.5G 25000 SL	K10313393127110	30	3/4"	54	75	70	-
KBT40 C20 080 AD/2.5G 25000 SL	K10291445131110	40	20	54	80	70	M 16
KBT40 C32 090 AD/2.5G 25000 SL	K10291446140110	40	32	72	90	100	M 16
KBT40 C 3/4" 080 AD/2.5G 25000 SL	K10314393131110	40	3/4"	54	80	70	M 16
KBT40 C 1-1/4" 090 AD/2.5G 25000 SL	K10314553140110	40	1-1/4"	72	90	100	M 16
KBT50 C20 105 AD/2.5G 25000 SL	K10308445152110	50	20	54	105	70	M 16
KBT50 C32 105 AD/2.5G 25000 SL	K10308446152110	50	32	72	105	100	M 16
KBT50 C 3/4" 105 AD/2.5G 25000 SL	K10315393152110	50	3/4"	54	105	70	M 16
KBT50 C 1-1/4" 105 AD/2.5G 25000 SL	K10315553152110	50	1-1/4"	72	105	100	M 16

Accessories:



RS SEAL SLEEVE



POWER CHUCK SPANNER

For PMC Spanner Ref. Pg.Nos 285

Note: All Dimensions are in mm

Features :

- KTA "Minimum Length Compensation Tapping Chuck (MLC)" For Synchronised (Rigid) Tapping Cycle.
- Best suitable for Die & Mould Industry.
- Compression & Expansion $\pm 0.5\text{mm}$
- High Concentricity Enables High Speed Tapping
- Possible Clamping Through ER Tap Collet.

Technical Details :

- "MLC" Tapping Chucks to be used with CNC Machines, having Synchronised Tapping Cycle.
- In this case, Rigid Tapping cycle takes care of tap pitch controlling the feed, spindle speed and feed. So, theoretically, ordinary holder without any compensation also should be suitable for performing the process. But by law of theory, following factors they do affect tapping quality, tap life etc.
- This will lead to :
 - » Less Tap life because of Flank wear (one side)
 - » Damaged Flanks on threads on the work piece
 - » Threads not answering to Gauge.
- All above errors can be taken care by using ' MLC '
- KTA 'MLC' Tapping chucks with $\pm 0.5\text{mm}$ compensation.
- Available in Following Range :
 - » ER 16 : M3 to M12
 - » ER 20 : M3 to M16
 - » ER 25 : M3 to M20
 - » ER 32 : M4 to M27
 - » ER 40 : M6 to M33
- Available in Mountings :
 - » BT (MAS 403) (DIN ISO 7388-2)
 - » KBT (MAS 403) (DIN ISO 7388-2)
 - » SK (DIN 69871) (DIN ISO 7388-1)
 - » HSK-A (DIN 69893-1)
 - » CAT (ANSI B 5.50)
 - » Cylindrical Shank

Balancing :

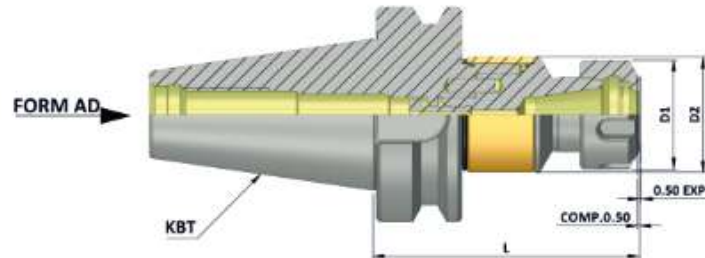
- Main Body Balanced to 2.5G 25000 RPM



KBT (BT MAS 403) (DIN ISO 7388 - 2) Minimum Length Compensation Tapping Chuck (MLC)



Maximum Run out of the Internal Taper with respect to the External Taper 0.020 mm



KBT (BT MAS 403) (MLC)

ITEM NAME	ITEM CODE	ISO	TAPPING RANGE	CLAMPING RANGE	NUT SIZE	D1	D2	L	COMP.	EXP.
KBT30 ER 11M 090 AD MLC	K10313156140245	30	M2-M6	2.5-6	ER11M	16	32.5	90	0.4	0.4
KBT30 ER 16M 079 AD MLC	K10313157551245	30	M3-M12	3.5-10	ER16M	22	34	79	0.5	0.5
KBT30 ER 16 079 AD MLC	K10313149551245	30	M3-M12	3.5-10	ER16	32	34	79	0.5	0.5
KBT30 ER 20 080 AD MLC	K10313158131245	30	M3-M16	3.5-12	ER20	35	34	80	0.5	0.5

KBT40 ER 11M 095 AD MLC	K10314156145245	40	M2-M6	2.5-6	ER11M	16	32.5	95	0.4	0.4
KBT40 ER 16M 079 AD MLC	K10314157551245	40	M3-M12	3.5-10	ER16M	22	34	79	0.5	0.5
KBT40 ER 16 079 AD MLC	K10291149551260	40	M3-M12	3.5-10	ER16	32	34	79	0.5	0.5
KBT40 ER 20 085 AD MLC	K10291150135260	40	M3-M16	3.5-12	ER20	35	34	85	0.5	0.5
KBT40 ER 25 089 AD MLC	K10291151139260	40	M3-M20	3.5-16	ER25	42	34	89	0.5	0.5
KBT40 ER 32 110 AD MLC	K10291152156260	40	M4-M27	3.5-20	ER32	50	45	110	0.5	0.5
KBT40 ER 40 115 AD MLC	K10291153159260	40	M6-M33	6-25	ER40	63	62	115	0.5	0.5

KBT50 ER 16M 095 AD MLC	K10315157145245	50	M3-M12	3.5-10	ER16M	22	34	95	0.5	0.5
KBT50 ER 16 095 AD MLC	K10308149145260	50	M3-M12	3.5-10	ER16	32	34	95	0.5	0.5
KBT50 ER 20 100 AD MLC	K10308150148260	50	M3-M16	3.5-12	ER20	35	34	100	0.5	0.5
KBT50 ER 25 110 AD MLC	K10308151156260	50	M3-M20	3.5-16	ER25	42	34	110	0.5	0.5
KBT50 ER 32 120 AD MLC	K10308152162260	50	M4-M27	3.5-20	ER32	50	45	120	0.5	0.5
KBT50 ER 40 120 AD MLC	K10308153162260	50	M6-M33	6-25	ER40	63	62	120	0.5	0.5

Accessories:



QC Tap Collet QCTC



ER TAP COLLET



ER SLOTTED NUT

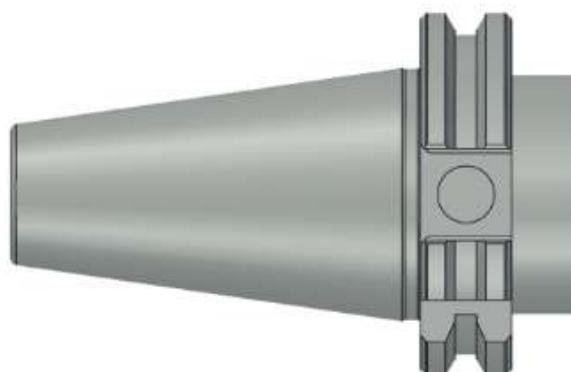


ER SPANNER

For QC Tap Collet QCTC Ref. Pg.Nos 273 TO 282

Note: All Dimensions are in mm

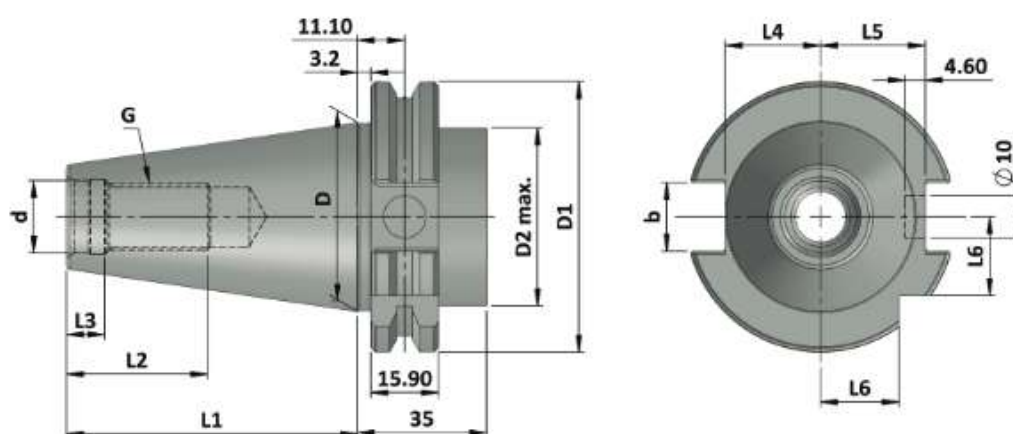
Precision Tool Holders SK (DIN ISO 7388 - 1) (DIN 69871)



INDEX

Sr. No.	Contents		Page No.
1	Technical Information : SK (DIN 69871) (DIN ISO 7388-1)		95
2	Shrink Fit Holders 4.5 Degree (SFH 4.5°) - Shrink Fit Holders (SFH 4.5°) (AD+B) (AD/AF) - Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°) (AD+B) (AD/AF)		96 - 104
3	Shrink Fit Holders Slim 3 Degree (SFH Slim 3°) Shrink Fit Holders (SFH Slim 3°) (AD+B) (AD/AF)		105 - 108
4	Shrink Fit Holders 4.5° Anti - Vibration (SFH- AD/AV)		109 - 111
5	Face Mill Holders Anti - Vibration (FMH-K AD/AV)		112 - 114
6	Side Lock Adaptor Anti - Vibration (SLA - AD/AV)		115 - 117
7	Collet Chuck "ER" Anti - Vibration (ER - AD/AV)		118 - 120
8	Die & Mould Chuck (DMC)		121 - 122
9	Power Milling Chuck (PMC)		123 - 124
10	Minimum Length Compensation Tapping Chuck (MLC)		125 - 126

SK (DIN 69871) (DIN ISO 7388 - 1) Technical Information



SK	d	d1	D	D1	D2	e	b	G	L1	L2	L3	L4	L5	L6
30	13	4	31.75	50.00	45	21	16.1	M12	47.80	24	5.5	16.4	19.0	15.00
40	17	4	44.45	63.55	50	27	16.1	M16	68.40	32	8.2	22.80	25.0	18.50
50	25	6	69.85	97.50	80	42	25.7	M24	101.75	47	11.5	35.5	37.7	30.00

Material :- Case hardened steel, tensile strength in the core min. 950N/mm²

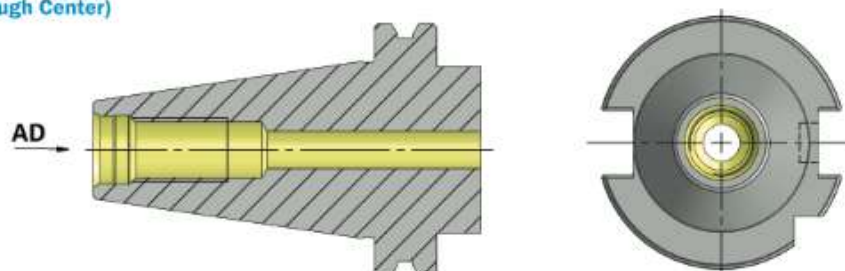
Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish

Accuracy :- 7:24 Taper Angle Class AT 3 per DIN 2080

Old Name : SK (DIN 69871) AD

New Name : SK (DIN 69871) DIN ISO 7388- 1 AD

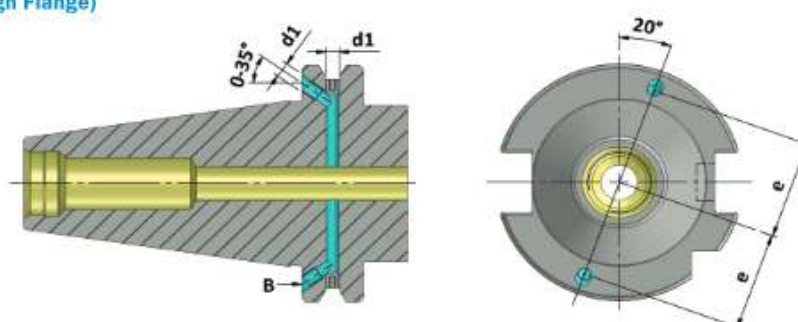
(Coolant Supply Through Center)



Old Name : SK (DIN 69871) AD+ B

New Name : SK (DIN 69871) DIN ISO 7388- 1 AD / AF

(Coolant Supply Through Flange)



Features :

- For Mounting Of Carbide Drills, End Mills etc.
- Easy to reach at Deep cavities.
- Best T.I.R. & Rigidity during long working life, Result of in house Research & Development & special Heat Treatment.

Available In Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- HSK-E (DIN 69893-5)
- HSK-F (DIN 69893-6)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

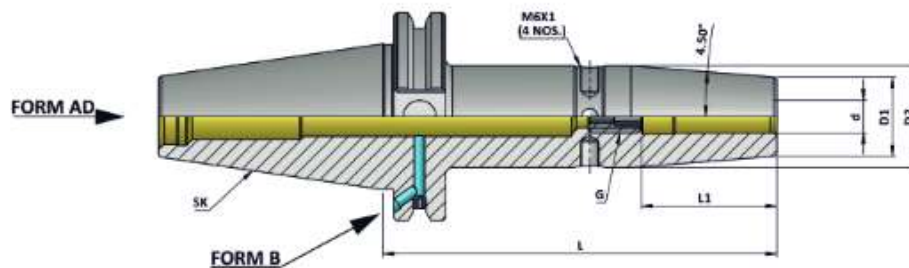
- Balanced To 2.5G 25000 SL



SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



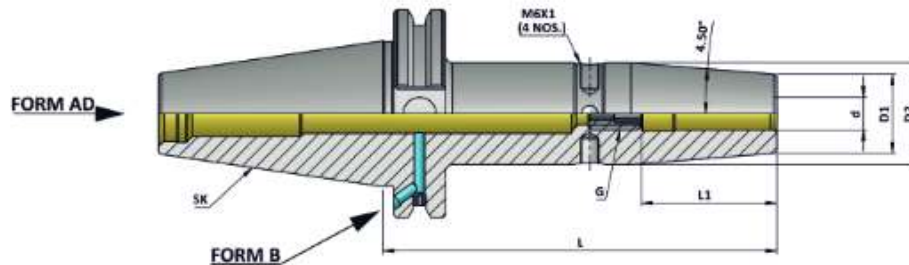
SK (DIN 69871) (SFH 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK40 SFH03 080 AD+B/2.5G 25000 SL	K10104274131140	40	3	10	20	—	80	12
SK40 SFH03 120 AD+B/2.5G 25000 SL	K10104274162140	40	3	10	20	—	120	12
SK40 SFH03 130 AD+B/2.5G 25000 SL	K10104274165230	40	3	10	20	—	130	12
SK40 SFH03 160 AD+B/2.5G 25000 SL	K10104274175140	40	3	10	20	—	160	12
SK40 SFH04 080 AD+B/2.5G 25000 SL	K10104275131140	40	4	15	22	—	80	14
SK40 SFH04 120 AD+B/2.5G 25000 SL	K10104275162140	40	4	15	22	—	120	14
SK40 SFH04 130 AD+B/2.5G 25000 SL	K10104275165230	40	4	15	22	—	130	14
SK40 SFH04 160 AD+B/2.5G 25000 SL	K10104275175140	40	4	15	22	—	160	14
SK40 SFH05 080 AD+B/2.5G 25000 SL	K10104276131140	40	5	15	22	—	80	15
SK40 SFH05 120 AD+B/2.5G 25000 SL	K10104276162140	40	5	15	22	—	120	15
SK40 SFH05 130 AD+B/2.5G 25000 SL	K10104276165230	40	5	15	22	—	130	15
SK40 SFH05 160 AD+B/2.5G 25000 SL	K10104276175140	40	5	15	22	—	160	15
SK40 SFH06 080 AD+B/2.5G 25000 SL	K10104277131140	40	6	21	27	M5	80	36
SK40 SFH06 120 AD+B/2.5G 25000 SL	K10104277162140	40	6	21	27	M5	120	36
SK40 SFH06 130 AD+B/2.5G 25000 SL	K10104277165230	40	6	21	27	M5	130	36
SK40 SFH06 160 AD+B/2.5G 25000 SL	K10104277175140	40	6	21	27	M5	160	36
SK40 SFH06 200 AD+B/2.5G 25000 SL	K10104277239230	40	6	21	27	M5	200	36
SK40 SFH08 080 AD+B/2.5G 25000 SL	K10104285131140	40	8	21	27	M6	80	36
SK40 SFH08 120 AD+B/2.5G 25000 SL	K10104285162140	40	8	21	27	M6	120	36
SK40 SFH08 130 AD+B/2.5G 25000 SL	K10104285165230	40	8	21	27	M6	130	36
SK40 SFH08 160 AD+B/2.5G 25000 SL	K10104285175140	40	8	21	27	M6	160	36
SK40 SFH08 200 AD+B/2.5G 25000 SL	K10104285239230	40	8	21	27	M6	200	36
SK40 SFH10 080 AD+B/2.5G 25000 SL	K10104279131140	40	10	24	31	M8	80	41
SK40 SFH10 120 AD+B/2.5G 25000 SL	K10104279162140	40	10	24	31	M8	120	41
SK40 SFH10 130 AD+B/2.5G 25000 SL	K10104279165230	40	10	24	31	M8	130	41
SK40 SFH10 160 AD+B/2.5G 25000 SL	K10104279175140	40	10	24	31	M8	160	41
SK40 SFH10 200 AD+B/2.5G 25000 SL	K10104279239230	40	10	24	31	M8	200	41
SK40 SFH12 080 AD+B/2.5G 25000 SL	K10104280131140	40	12	24	31	M10	80	46
SK40 SFH12 120 AD+B/2.5G 25000 SL	K10104280162140	40	12	24	31	M10	120	46
SK40 SFH12 130 AD+B/2.5G 25000 SL	K10104280165230	40	12	24	31	M10	130	46
SK40 SFH12 160 AD+B/2.5G 25000 SL	K10104280175140	40	12	24	31	M10	160	46
SK40 SFH12 200 AD+B/2.5G 25000 SL	K10104280239230	40	12	24	31	M10	200	46
SK40 SFH14 080 AD+B/2.5G 25000 SL	K10104284131140	40	14	27	34	M10	80	46
SK40 SFH14 120 AD+B/2.5G 25000 SL	K10104284162140	40	14	27	34	M10	120	46
SK40 SFH14 130 AD+B/2.5G 25000 SL	K10104284165230	40	14	27	34	M10	130	46
SK40 SFH14 160 AD+B/2.5G 25000 SL	K10104284175140	40	14	27	34	M10	160	46
SK40 SFH14 200 AD+B/2.5G 25000 SL	K10104284239230	40	14	27	34	M10	200	46

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



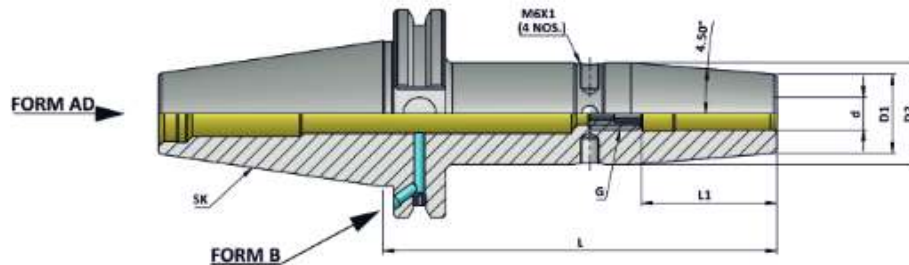
SK (DIN 69871) (SFH 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK40 SFH16 080 AD+B/2.5G 25000 SL	K10104281131140	40	16	27	34	M12	80	49
SK40 SFH16 120 AD+B/2.5G 25000 SL	K10104281162140	40	16	27	34	M12	120	49
SK40 SFH16 130 AD+B/2.5G 25000 SL	K10104281165230	40	16	27	34	M12	130	49
SK40 SFH16 160 AD+B/2.5G 25000 SL	K10104281175140	40	16	27	34	M12	160	49
SK40 SFH16 200 AD+B/2.5G 25000 SL	K10104281239230	40	16	27	34	M12	200	49
SK40 SFH18 080 AD+B/2.5G 25000 SL	K10104282131140	40	18	33	40	M12	80	49
SK40 SFH18 120 AD+B/2.5G 25000 SL	K10104282162140	40	18	33	40	M12	120	49
SK40 SFH18 130 AD+B/2.5G 25000 SL	K10104282165230	40	18	33	40	M12	130	49
SK40 SFH18 160 AD+B/2.5G 25000 SL	K10104282175140	40	18	33	40	M12	160	49
SK40 SFH18 200 AD+B/2.5G 25000 SL	K10104282239230	40	18	33	40	M12	200	49
SK40 SFH20 080 AD+B/2.5G 25000 SL	K10104283131140	40	20	33	40	M16	80	51
SK40 SFH20 120 AD+B/2.5G 25000 SL	K10104283162140	40	20	33	40	M16	120	51
SK40 SFH20 130 AD+B/2.5G 25000 SL	K10104283165230	40	20	33	40	M16	130	51
SK40 SFH20 160 AD+B/2.5G 25000 SL	K10104283175140	40	20	33	40	M16	160	51
SK40 SFH20 200 AD+B/2.5G 25000 SL	K10104283239230	40	20	33	40	M16	200	51
SK40 SFH25 100 AD+B/2.5G 25000 SL	K10104283175140	40	25	44	53	M16	100	57
SK40 SFH25 120 AD+B/2.5G 25000 SL	K10104287162140	40	25	44	53	M16	120	57
SK40 SFH25 130 AD+B/2.5G 25000 SL	K10104287165230	40	25	44	53	M16	130	57
SK40 SFH25 160 AD+B/2.5G 25000 SL	K10104287175140	40	25	44	53	M16	160	57
SK40 SFH25 200 AD+B/2.5G 25000 SL	K10104287239230	40	25	44	53	M16	200	57
SK40 SFH32 100 AD+B/2.5G 25000 SL	K10104288148140	40	32	44	53	M16	100	61
SK40 SFH32 120 AD+B/2.5G 25000 SL	K10104288162140	40	32	44	53	M16	120	61
SK40 SFH32 130 AD+B/2.5G 25000 SL	K10104288165230	40	32	44	53	M16	130	61
SK40 SFH32 160 AD+B/2.5G 25000 SL	K10104288175140	40	32	44	53	M16	160	61
SK40 SFH32 200 AD+B/2.5G 25000 SL	K10104288239230	40	32	44	53	M16	200	61

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



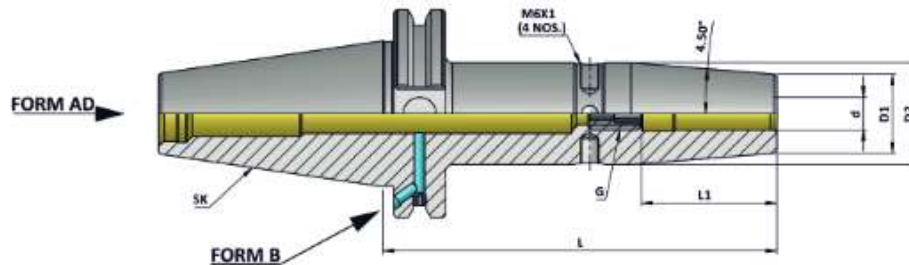
SK (DIN 69871) (SFH 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK50 SFH03 080 AD+B/2.5G 25000 SL	K10105274131116	50	3	10	20	—	80	12
SK50 SFH03 120 AD+B/2.5G 25000 SL	K10105274162116	50	3	10	20	—	120	12
SK50 SFH03 130 AD+B/2.5G 25000 SL	K10105274165230	50	3	10	20	—	130	12
SK50 SFH03 160 AD+B/2.5G 25000 SL	K10105274175116	50	3	10	20	—	160	12
SK50 SFH04 080 AD+B/2.5G 25000 SL	K10105275131116	50	4	15	22	—	80	14
SK50 SFH04 120 AD+B/2.5G 25000 SL	K10105275162116	50	4	15	22	—	120	14
SK50 SFH04 130 AD+B/2.5G 25000 SL	K10105275165230	50	4	15	22	—	130	14
SK50 SFH04 160 AD+B/2.5G 25000 SL	K10105275175116	50	4	15	22	—	160	14
SK50 SFH05 080 AD+B/2.5G 25000 SL	K10105276131116	50	5	15	22	—	80	15
SK50 SFH05 120 AD+B/2.5G 25000 SL	K10105276162116	50	5	15	22	—	120	15
SK50 SFH05 130 AD+B/2.5G 25000 SL	K10105276165230	50	5	15	22	—	130	15
SK50 SFH05 160 AD+B/2.5G 25000 SL	K10105276175116	50	5	15	22	—	160	15
SK50 SFH06 080 AD+B/2.5G 25000 SL	K10105277131116	50	6	21	27	M5	80	36
SK50 SFH06 120 AD+B/2.5G 25000 SL	K10105277162116	50	6	21	27	M5	120	36
SK50 SFH06 130 AD+B/2.5G 25000 SL	K10105277165230	50	6	21	27	M5	130	36
SK50 SFH06 160 AD+B/2.5G 25000 SL	K10105277175116	50	6	21	27	M5	160	36
SK50 SFH06 200 AD+B/2.5G 25000 SL	K10105277239230	50	6	21	27	M5	200	36
SK50 SFH08 080 AD+B/2.5G 25000 SL	K10105285131116	50	8	21	27	M6	80	36
SK50 SFH08 120 AD+B/2.5G 25000 SL	K10105285162116	50	8	21	27	M6	120	36
SK50 SFH08 130 AD+B/2.5G 25000 SL	K10105285165230	50	8	21	27	M6	130	36
SK50 SFH08 160 AD+B/2.5G 25000 SL	K10105285175116	50	8	21	27	M6	160	36
SK50 SFH08 200 AD+B/2.5G 25000 SL	K10105285239230	50	8	21	27	M6	200	36
SK50 SFH10 080 AD+B/2.5G 25000 SL	K10105279131116	50	10	24	31	M8	80	41
SK50 SFH10 120 AD+B/2.5G 25000 SL	K10105279162116	50	10	24	31	M8	120	41
SK50 SFH10 130 AD+B/2.5G 25000 SL	K10105279165230	50	10	24	31	M8	130	41
SK50 SFH10 160 AD+B/2.5G 25000 SL	K10105279175116	50	10	24	31	M8	160	41
SK50 SFH10 200 AD+B/2.5G 25000 SL	K10105279239230	50	10	24	31	M8	200	41
SK50 SFH12 080 AD+B/2.5G 25000 SL	K10105280131116	50	12	24	31	M10	80	46
SK50 SFH12 120 AD+B/2.5G 25000 SL	K10105280162116	50	12	24	31	M10	120	46
SK50 SFH12 130 AD+B/2.5G 25000 SL	K10105280165230	50	12	24	31	M10	130	46
SK50 SFH12 160 AD+B/2.5G 25000 SL	K10105280175116	50	12	24	31	M10	160	46
SK50 SFH12 200 AD+B/2.5G 25000 SL	K10105280239230	50	12	24	31	M10	200	46
SK50 SFH14 080 AD+B/2.5G 25000 SL	K10105284131116	50	14	27	34	M10	80	46
SK50 SFH14 120 AD+B/2.5G 25000 SL	K10105284162116	50	14	27	34	M10	120	46
SK50 SFH14 130 AD+B/2.5G 25000 SL	K10105284165230	50	14	27	34	M10	130	46
SK50 SFH14 160 AD+B/2.5G 25000 SL	K10105284175116	50	14	27	34	M10	160	46
SK50 SFH14 200 AD+B/2.5G 25000 SL	K10105284239230	50	14	27	34	M10	200	46

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



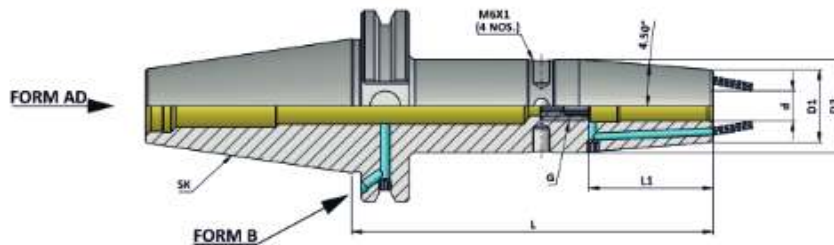
SK (DIN 69871) (SFH 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK50 SFH16 080 AD+B/2.5G 25000 SL	K10105281131116	50	16	27	34	M12	80	49
SK50 SFH16 120 AD+B/2.5G 25000 SL	K10105281162116	50	16	27	34	M12	120	49
SK50 SFH16 130 AD+B/2.5G 25000 SL	K10105281165230	50	16	27	34	M12	130	49
SK50 SFH16 160 AD+B/2.5G 25000 SL	K10105281175116	50	16	27	34	M12	160	49
SK50 SFH16 200 AD+B/2.5G 25000 SL	K10105281239230	50	16	27	34	M12	200	49
SK50 SFH18 080 AD+B/2.5G 25000 SL	K10105282131116	50	18	33	40	M12	80	49
SK50 SFH18 120 AD+B/2.5G 25000 SL	K10105282162116	50	18	33	40	M12	120	49
SK50 SFH18 130 AD+B/2.5G 25000 SL	K10105282165230	50	18	33	40	M12	130	49
SK50 SFH18 160 AD+B/2.5G 25000 SL	K10105282175116	50	18	33	40	M12	160	49
SK50 SFH18 200 AD+B/2.5G 25000 SL	K10105282239230	50	18	33	40	M12	200	49
SK50 SFH20 080 AD+B/2.5G 25000 SL	K10105283131116	50	20	33	40	M16	80	51
SK50 SFH20 120 AD+B/2.5G 25000 SL	K10105283162116	50	20	33	40	M16	120	51
SK50 SFH20 130 AD+B/2.5G 25000 SL	K10105283165230	50	20	33	40	M16	130	51
SK50 SFH20 160 AD+B/2.5G 25000 SL	K10105283175116	50	20	33	40	M16	160	51
SK50 SFH20 200 AD+B/2.5G 25000 SL	K10105283239230	50	20	33	40	M16	200	51
SK50 SFH25 100 AD+B/2.5G 25000 SL	K10105287148116	50	25	44	53	M16	100	57
SK50 SFH25 120 AD+B/2.5G 25000 SL	K10105287162116	50	25	44	53	M16	120	57
SK50 SFH25 130 AD+B/2.5G 25000 SL	K10105287165230	50	25	44	53	M16	130	57
SK50 SFH25 160 AD+B/2.5G 25000 SL	K10105287175116	50	25	44	53	M16	160	57
SK50 SFH25 200 AD+B/2.5G 25000 SL	K10105287239230	50	25	44	53	M16	200	57
SK50 SFH32 100 AD+B/2.5G 25000 SL	K10105288148116	50	32	44	53	M16	100	61
SK50 SFH32 120 AD+B/2.5G 25000 SL	K10105288162116	50	32	44	53	M16	120	61
SK50 SFH32 130 AD+B/2.5G 25000 SL	K10105288165230	50	32	44	53	M16	130	61
SK50 SFH32 160 AD+B/2.5G 25000 SL	K10105288175116	50	32	44	53	M16	160	61
SK50 SFH32 200 AD+B/2.5G 25000 SL	K10105288239230	50	32	44	53	M16	200	61

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



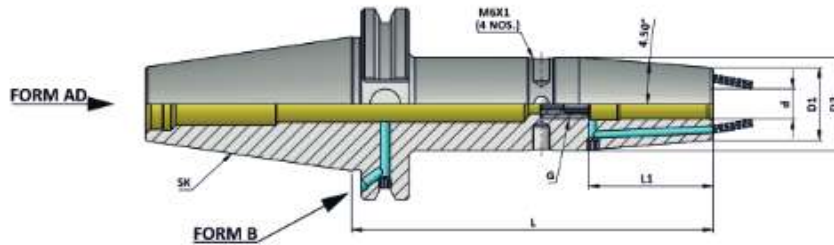
SK (DIN 69871) (SFH FCC 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK40 SFH03 080 FCC AD+B/2.5G 25000 SL	K10104274131255	40	3	10	20	—	80	12
SK40 SFH03 120 FCC AD+B/2.5G 25000 SL	K10104274162255	40	3	10	20	—	120	12
SK40 SFH03 130 FCC AD+B/2.5G 25000 SL	K10104274165255	40	3	10	20	—	130	12
SK40 SFH03 160 FCC AD+B/2.5G 25000 SL	K10104274175255	40	3	10	20	—	160	12
SK40 SFH04 080 FCC AD+B/2.5G 25000 SL	K10104275131255	40	4	15	22	—	80	14
SK40 SFH04 120 FCC AD+B/2.5G 25000 SL	K10104275162255	40	4	15	22	—	120	14
SK40 SFH04 130 FCC AD+B/2.5G 25000 SL	K10104275165255	40	4	15	22	—	130	14
SK40 SFH04 160 FCC AD+B/2.5G 25000 SL	K10104275175255	40	4	15	22	—	160	14
SK40 SFH05 080 FCC AD+B/2.5G 25000 SL	K10104276131255	40	5	15	22	—	80	15
SK40 SFH05 120 FCC AD+B/2.5G 25000 SL	K10104276162255	40	5	15	22	—	120	15
SK40 SFH05 130 FCC AD+B/2.5G 25000 SL	K10104276165255	40	5	15	22	—	130	15
SK40 SFH05 160 FCC AD+B/2.5G 25000 SL	K10104276175255	40	5	15	22	—	160	15
SK40 SFH06 080 FCC AD+B/2.5G 25000 SL	K10104277131255	40	6	21	27	M5	80	36
SK40 SFH06 120 FCC AD+B/2.5G 25000 SL	K10104277162255	40	6	21	27	M5	120	36
SK40 SFH06 130 FCC AD+B/2.5G 25000 SL	K10104277165255	40	6	21	27	M5	130	36
SK40 SFH06 160 FCC AD+B/2.5G 25000 SL	K10104277175255	40	6	21	27	M5	160	36
SK40 SFH08 080 FCC AD+B/2.5G 25000 SL	K10104285131255	40	8	21	27	M6	80	36
SK40 SFH08 120 FCC AD+B/2.5G 25000 SL	K10104285162255	40	8	21	27	M6	120	36
SK40 SFH08 130 FCC AD+B/2.5G 25000 SL	K10104285165255	40	8	21	27	M6	130	36
SK40 SFH08 160 FCC AD+B/2.5G 25000 SL	K10104285175255	40	8	21	27	M6	160	36
SK40 SFH10 080 FCC AD+B/2.5G 25000 SL	K10104279131255	40	10	24	31	M8	80	41
SK40 SFH10 120 FCC AD+B/2.5G 25000 SL	K10104279162255	40	10	24	31	M8	120	41
SK40 SFH10 130 FCC AD+B/2.5G 25000 SL	K10104279165255	40	10	24	31	M8	130	41
SK40 SFH10 160 FCC AD+B/2.5G 25000 SL	K10104279175255	40	10	24	31	M8	160	41
SK40 SFH12 080 FCC AD+B/2.5G 25000 SL	K10104280131255	40	12	24	31	M10	80	46
SK40 SFH12 120 FCC AD+B/2.5G 25000 SL	K10104280162255	40	12	24	31	M10	120	46
SK40 SFH12 130 FCC AD+B/2.5G 25000 SL	K10104280165255	40	12	24	31	M10	130	46
SK40 SFH12 160 FCC AD+B/2.5G 25000 SL	K10104280175255	40	12	24	31	M10	160	46
SK40 SFH14 080 FCC AD+B/2.5G 25000 SL	K10104284131255	40	14	27	34	M10	80	46
SK40 SFH14 120 FCC AD+B/2.5G 25000 SL	K10104284162255	40	14	27	34	M10	120	46
SK40 SFH14 130 FCC AD+B/2.5G 25000 SL	K10104284165255	40	14	27	34	M10	130	46
SK40 SFH14 160 FCC AD+B/2.5G 25000 SL	K10104284175255	40	14	27	34	M10	160	46

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



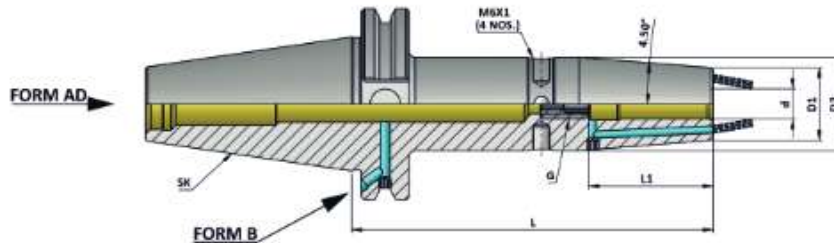
SK (DIN 69871) (SFH FCC 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK40 SFH16 080 FCC AD+B/2.5G 25000 SL	K10104281131255	40	16	27	34	M12	80	49
SK40 SFH16 120 FCC AD+B/2.5G 25000 SL	K10104281162255	40	16	27	34	M12	120	49
SK40 SFH16 130 FCC AD+B/2.5G 25000 SL	K10104281165255	40	16	27	34	M12	130	49
SK40 SFH16 160 FCC AD+B/2.5G 25000 SL	K10104281175255	40	16	27	34	M12	160	49
SK40 SFH18 080 FCC AD+B/2.5G 25000 SL	K10104282131255	40	18	33	40	M12	80	49
SK40 SFH18 120 FCC AD+B/2.5G 25000 SL	K10104282162255	40	18	33	40	M12	120	49
SK40 SFH18 130 FCC AD+B/2.5G 25000 SL	K10104282165255	40	18	33	40	M12	130	49
SK40 SFH18 160 FCC AD+B/2.5G 25000 SL	K10104282175255	40	18	33	40	M12	160	49
SK40 SFH20 080 FCC AD+B/2.5G 25000 SL	K10104283131255	40	20	33	40	M16	80	51
SK40 SFH20 120 FCC AD+B/2.5G 25000 SL	K10104283162255	40	20	33	40	M16	120	51
SK40 SFH20 130 FCC AD+B/2.5G 25000 SL	K10104283165255	40	20	33	40	M16	130	51
SK40 SFH20 160 FCC AD+B/2.5G 25000 SL	K10104283175255	40	20	33	40	M16	160	51
SK40 SFH25 100 FCC AD+B/2.5G 25000 SL	K10104287148255	40	25	44	53	M16	100	57
SK40 SFH25 120 FCC AD+B/2.5G 25000 SL	K10104287162255	40	25	44	53	M16	120	57
SK40 SFH25 130 FCC AD+B/2.5G 25000 SL	K10104287165255	40	25	44	53	M16	130	57
SK40 SFH25 160 FCC AD+B/2.5G 25000 SL	K10104287175255	40	25	44	53	M16	160	57
SK40 SFH32 100 FCC AD+B/2.5G 25000 SL	K10104288148255	40	32	44	53	M16	100	61
SK40 SFH32 120 FCC AD+B/2.5G 25000 SL	K10104288162255	40	32	44	53	M16	120	61
SK40 SFH32 130 FCC AD+B/2.5G 25000 SL	K10104288165255	40	32	44	53	M16	130	61
SK40 SFH32 160 FCC AD+B/2.5G 25000 SL	K10104288175255	40	32	44	53	M16	160	61

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



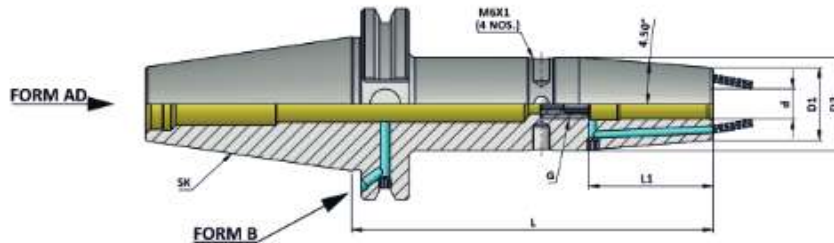
SK (DIN 69871) (SFH FCC 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK50 SFH03 080 FCC AD+B/2.5G 25000 SL	K10105274131255	50	3	10	20	—	80	12
SK50 SFH03 120 FCC AD+B/2.5G 25000 SL	K10105274162255	50	3	10	20	—	120	12
SK50 SFH03 130 FCC AD+B/2.5G 25000 SL	K10105274165255	50	3	10	20	—	130	12
SK50 SFH03 160 FCC AD+B/2.5G 25000 SL	K10105274175255	50	3	10	20	—	160	12
SK50 SFH04 080 FCC AD+B/2.5G 25000 SL	K10105275131255	50	4	15	22	—	80	14
SK50 SFH04 120 FCC AD+B/2.5G 25000 SL	K10105275162255	50	4	15	22	—	120	14
SK50 SFH04 130 FCC AD+B/2.5G 25000 SL	K10105275165255	50	4	15	22	—	130	14
SK50 SFH04 160 FCC AD+B/2.5G 25000 SL	K10105275175255	50	4	15	22	—	160	14
SK50 SFH05 080 FCC AD+B/2.5G 25000 SL	K10105276131255	50	5	15	22	—	80	15
SK50 SFH05 120 FCC AD+B/2.5G 25000 SL	K10105276162255	50	5	15	22	—	120	15
SK50 SFH05 130 FCC AD+B/2.5G 25000 SL	K10105276165255	50	5	15	22	—	130	15
SK50 SFH05 160 FCC AD+B/2.5G 25000 SL	K10105276175255	50	5	15	22	—	160	15
SK50 SFH06 080 FCC AD+B/2.5G 25000 SL	K10105277131255	50	6	21	27	M5	80	36
SK50 SFH06 120 FCC AD+B/2.5G 25000 SL	K10105277162255	50	6	21	27	M5	120	36
SK50 SFH06 130 FCC AD+B/2.5G 25000 SL	K10105277165255	50	6	21	27	M5	130	36
SK50 SFH06 160 FCC AD+B/2.5G 25000 SL	K10105277175255	50	6	21	27	M5	160	36
SK50 SFH08 080 FCC AD+B/2.5G 25000 SL	K10105285131255	50	8	21	27	M6	80	36
SK50 SFH08 120 FCC AD+B/2.5G 25000 SL	K10105285162255	50	8	21	27	M6	120	36
SK50 SFH08 130 FCC AD+B/2.5G 25000 SL	K10105285165255	50	8	21	27	M6	130	36
SK50 SFH08 160 FCC AD+B/2.5G 25000 SL	K10105285175255	50	8	21	27	M6	160	36
SK50 SFH10 080 FCC AD+B/2.5G 25000 SL	K10105279131255	50	10	24	31	M8	80	41
SK50 SFH10 120 FCC AD+B/2.5G 25000 SL	K10105279162255	50	10	24	31	M8	120	41
SK50 SFH10 130 FCC AD+B/2.5G 25000 SL	K10105279165255	50	10	24	31	M8	130	41
SK50 SFH10 160 FCC AD+B/2.5G 25000 SL	K10105279175255	50	10	24	31	M8	160	41
SK50 SFH12 080 FCC AD+B/2.5G 25000 SL	K10105280131255	50	12	24	31	M10	80	46
SK50 SFH12 120 FCC AD+B/2.5G 25000 SL	K10105280162255	50	12	24	31	M10	120	46
SK50 SFH12 130 FCC AD+B/2.5G 25000 SL	K10105280165255	50	12	24	31	M10	130	46
SK50 SFH12 160 FCC AD+B/2.5G 25000 SL	K10105280175255	50	12	24	31	M10	160	46
SK50 SFH14 080 FCC AD+B/2.5G 25000 SL	K10105284131255	50	14	27	34	M10	80	46
SK50 SFH14 120 FCC AD+B/2.5G 25000 SL	K10105284162255	50	14	27	34	M10	120	46
SK50 SFH14 130 FCC AD+B/2.5G 25000 SL	K10105284165255	50	14	27	34	M10	130	46
SK50 SFH14 160 FCC AD+B/2.5G 25000 SL	K10105284175255	50	14	27	34	M10	160	46

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



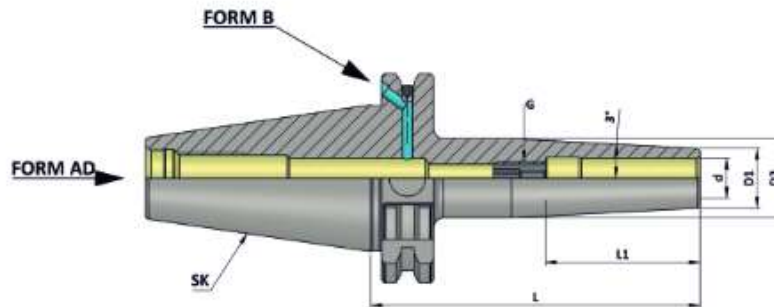
SK (DIN 69871) (SFH FCC 4.5°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK50 SFH16 080 FCC AD+B/2.5G 25000 SL	K10105281131255	50	16	27	34	M12	80	49
SK50 SFH16 120 FCC AD+B/2.5G 25000 SL	K10105281162255	50	16	27	34	M12	120	49
SK50 SFH16 130 FCC AD+B/2.5G 25000 SL	K10105281165255	50	16	27	34	M12	130	49
SK50 SFH16 160 FCC AD+B/2.5G 25000 SL	K10105281175255	50	16	27	34	M12	160	49
SK50 SFH18 080 FCC AD+B/2.5G 25000 SL	K10105282131255	50	18	33	40	M12	80	49
SK50 SFH18 120 FCC AD+B/2.5G 25000 SL	K10105282162255	50	18	33	40	M12	120	49
SK50 SFH18 130 FCC AD+B/2.5G 25000 SL	K10105282165255	50	18	33	40	M12	130	49
SK50 SFH18 160 FCC AD+B/2.5G 25000 SL	K10105282175255	50	18	33	40	M12	160	49
SK50 SFH20 080 FCC AD+B/2.5G 25000 SL	K10105283131255	50	20	33	40	M16	80	51
SK50 SFH20 120 FCC AD+B/2.5G 25000 SL	K10105283162255	50	20	33	40	M16	120	51
SK50 SFH20 130 FCC AD+B/2.5G 25000 SL	K10105283165255	50	20	33	40	M16	130	51
SK50 SFH20 160 FCC AD+B/2.5G 25000 SL	K10105283175255	50	20	33	40	M16	160	51
SK50 SFH25 100 FCC AD+B/2.5G 25000 SL	K10105287148255	50	25	44	53	M16	100	57
SK50 SFH25 120 FCC AD+B/2.5G 25000 SL	K10105287162255	50	25	44	53	M16	120	57
SK50 SFH25 130 FCC AD+B/2.5G 25000 SL	K10105287165255	50	25	44	53	M16	130	57
SK50 SFH25 160 FCC AD+B/2.5G 25000 SL	K10105287175255	50	25	44	53	M16	160	57
SK50 SFH32 100 FCC AD+B/2.5G 25000 SL	K10105288148255	50	32	44	53	M16	100	61
SK50 SFH32 120 FCC AD+B/2.5G 25000 SL	K10105288162255	50	32	44	53	M16	120	61
SK50 SFH32 130 FCC AD+B/2.5G 25000 SL	K10105288165255	50	32	44	53	M16	130	61
SK50 SFH32 160 FCC AD+B/2.5G 25000 SL	K10105288175255	50	32	44	53	M16	160	61

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



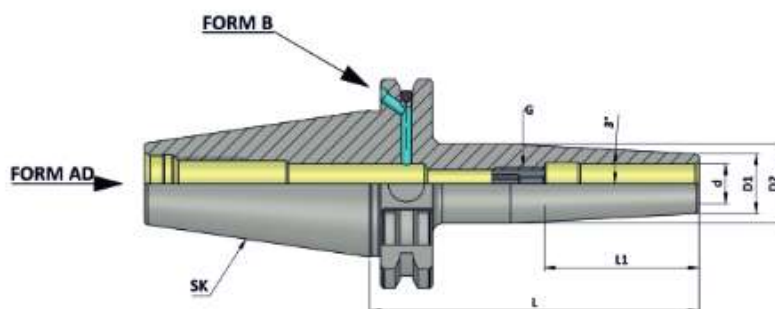
SK (DIN 69871) (SFH SLIM 3°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1
SK40 SFH03 080 SLIM AD+B/2.5G 25000 SL	K10104274131259	40	3	9	14	—	80	12
SK40 SFH03 120 SLIM AD+B/2.5G 25000 SL	K10104274162259	40	3	9	18	—	120	12
SK40 SFH03 130 SLIM AD+B/2.5G 25000 SL	K10104274165259	40	3	9	18	—	130	12
SK40 SFH03 160 SLIM AD+B/2.5G 25000 SL	K10104274175259	40	3	9	19	—	160	12
SK40 SFH04 080 SLIM AD+B/2.5G 25000 SL	K10104275131259	40	4	10	15	—	80	14
SK40 SFH04 120 SLIM AD+B/2.5G 25000 SL	K10104275162259	40	4	10	19	—	120	14
SK40 SFH04 130 SLIM AD+B/2.5G 25000 SL	K10104275165259	40	4	10	19	—	130	14
SK40 SFH04 160 SLIM AD+B/2.5G 25000 SL	K10104275175259	40	4	10	20	—	160	14
SK40 SFH05 080 SLIM AD+B/2.5G 25000 SL	K10104276131259	40	5	11	16	—	80	15
SK40 SFH05 120 SLIM AD+B/2.5G 25000 SL	K10104276162259	40	5	11	20	—	120	15
SK40 SFH05 130 SLIM AD+B/2.5G 25000 SL	K10104276165259	40	5	11	20	—	130	15
SK40 SFH05 160 SLIM AD+B/2.5G 25000 SL	K10104276175259	40	5	11	21	—	160	15
SK40 SFH06 080 SLIM AD+B/2.5G 25000 SL	K10104277131259	40	6	12	17	M5	80	36
SK40 SFH06 120 SLIM AD+B/2.5G 25000 SL	K10104277162259	40	6	12	21	M5	120	36
SK40 SFH06 130 SLIM AD+B/2.5G 25000 SL	K10104277165259	40	6	12	21	M5	130	36
SK40 SFH06 160 SLIM AD+B/2.5G 25000 SL	K10104277175259	40	6	12	25	M5	160	36
SK40 SFH08 080 SLIM AD+B/2.5G 25000 SL	K10104285131259	40	8	14	19	M6	80	36
SK40 SFH08 120 SLIM AD+B/2.5G 25000 SL	K10104285162259	40	8	14	23	M6	120	36
SK40 SFH08 130 SLIM AD+B/2.5G 25000 SL	K10104285165259	40	8	14	23	M6	130	36
SK40 SFH08 160 SLIM AD+B/2.5G 25000 SL	K10104285175259	40	8	14	27	M6	160	36
SK40 SFH10 080 SLIM AD+B/2.5G 25000 SL	K10104279131259	40	10	16	21	M8	80	41
SK40 SFH10 120 SLIM AD+B/2.5G 25000 SL	K10104279162259	40	10	16	25	M8	120	41
SK40 SFH10 130 SLIM AD+B/2.5G 25000 SL	K10104279165259	40	10	16	25	M8	130	41
SK40 SFH10 160 SLIM AD+B/2.5G 25000 SL	K10104279175259	40	10	16	29	M8	160	41
SK40 SFH12 080 SLIM AD+B/2.5G 25000 SL	K10104280139259	40	12	18	23	M10	80	46
SK40 SFH12 120 SLIM AD+B/2.5G 25000 SL	K10104280162259	40	12	18	27	M10	120	46
SK40 SFH12 130 SLIM AD+B/2.5G 25000 SL	K10104280165259	40	12	18	27	M10	130	46
SK40 SFH12 160 SLIM AD+B/2.5G 25000 SL	K10104280175259	40	12	18	31	M10	160	46
SK40 SFH14 080 SLIM AD+B/2.5G 25000 SL	K10104284131259	40	14	20	26	M10	80	46
SK40 SFH14 120 SLIM AD+B/2.5G 25000 SL	K10104284162259	40	14	20	29	M10	120	46
SK40 SFH14 130 SLIM AD+B/2.5G 25000 SL	K10104284165259	40	14	20	29	M10	130	46
SK40 SFH14 160 SLIM AD+B/2.5G 25000 SL	K10104284175259	40	14	20	32	M10	160	46

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



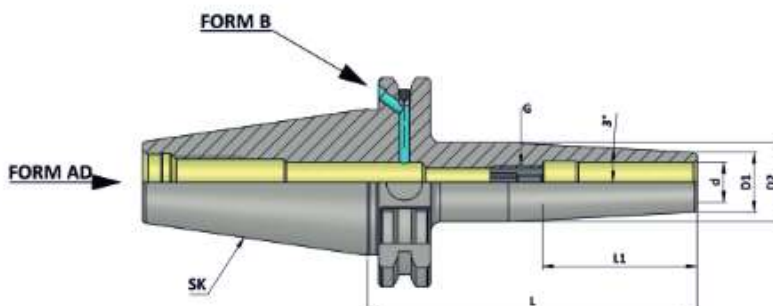
SK (DIN 69871) (SFH SLIM 3°) AD/AF					(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1	
SK40 SFH16 080 SLIM AD+B/2.5G 25000 SL	K10104281131259	40	16	22	28	M12	80	49	
SK40 SFH16 120 SLIM AD+B/2.5G 25000 SL	K10104281162259	40	16	22	31	M12	120	49	
SK40 SFH16 130 SLIM AD+B/2.5G 25000 SL	K10104281165259	40	16	22	31	M12	130	49	
SK40 SFH16 160 SLIM AD+B/2.5G 25000 SL	K10104281175259	40	16	22	34	M12	160	49	
SK40 SFH18 080 SLIM AD+B/2.5G 25000 SL	K10104282131259	40	18	24	30	M12	80	49	
SK40 SFH18 120 SLIM AD+B/2.5G 25000 SL	K10104282162259	40	18	24	33	M12	120	49	
SK40 SFH18 130 SLIM AD+B/2.5G 25000 SL	K10104282165259	40	18	24	33	M12	130	49	
SK40 SFH18 160 SLIM AD+B/2.5G 25000 SL	K10104282175259	40	18	24	36	M12	160	49	
SK40 SFH20 080 SLIM AD+B/2.5G 25000 SL	K10104283131259	40	20	26	32	M16	80	51	
SK40 SFH20 120 SLIM AD+B/2.5G 25000 SL	K10104283162259	40	20	26	35	M16	120	51	
SK40 SFH20 130 SLIM AD+B/2.5G 25000 SL	K10104283165259	40	20	26	35	M16	130	51	
SK40 SFH20 160 SLIM AD+B/2.5G 25000 SL	K10104283175259	40	20	26	38	M16	160	51	

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



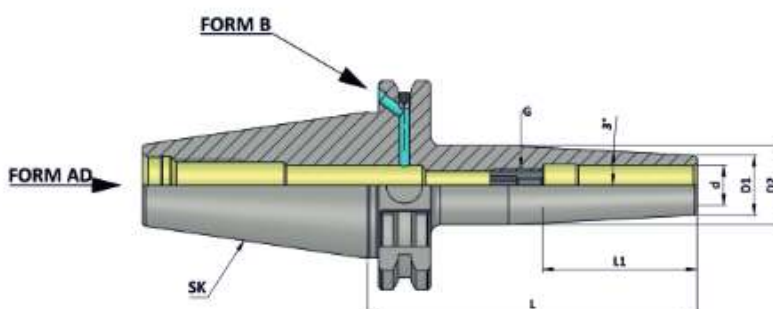
SK (DIN 69871) (SFH SLIM 3°) AD/AF				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1	
SK50 SFH03 080 SLIM AD+B/2.5G 25000 SL	K10105274131259	50	3	9	14	—	80	12	
SK50 SFH03 120 SLIM AD+B/2.5G 25000 SL	K10105274162259	50	3	9	18	—	120	12	
SK50 SFH03 130 SLIM AD+B/2.5G 25000 SL	K10105274165259	50	3	9	18	—	130	12	
SK50 SFH04 080 SLIM AD+B/2.5G 25000 SL	K10105275131259	50	4	10	15	—	80	14	
SK50 SFH04 120 SLIM AD+B/2.5G 25000 SL	K10105275162259	50	4	10	19	—	120	14	
SK50 SFH04 130 SLIM AD+B/2.5G 25000 SL	K10105275165259	50	4	10	19	—	130	14	
SK50 SFH05 080 SLIM AD+B/2.5G 25000 SL	K10105276131259	50	5	11	16	—	80	15	
SK50 SFH05 120 SLIM AD+B/2.5G 25000 SL	K10105276162259	50	5	11	20	—	120	15	
SK50 SFH05 130 SLIM AD+B/2.5G 25000 SL	K10105276165255	50	5	11	20	—	130	15	
SK50 SFH06 080 SLIM AD+B/2.5G 25000 SL	K10105277131259	50	6	12	17	M5	80	36	
SK50 SFH06 120 SLIM AD+B/2.5G 25000 SL	K10105277162259	50	6	12	21	M5	120	36	
SK50 SFH06 130 SLIM AD+B/2.5G 25000 SL	K10105277165259	50	6	12	21	M5	130	36	
SK50 SFH06 160 SLIM AD+B/2.5G 25000 SL	K10105277175259	50	6	12	25	M5	160	36	
SK50 SFH08 080 SLIM AD+B/2.5G 25000 SL	K10105285131259	50	8	14	19	M6	80	36	
SK50 SFH08 120 SLIM AD+B/2.5G 25000 SL	K10105285162259	50	8	14	23	M6	120	36	
SK50 SFH08 130 SLIM AD+B/2.5G 25000 SL	K10105285165259	50	8	14	23	M6	130	36	
SK50 SFH08 160 SLIM AD+B/2.5G 25000 SL	K10105285175259	50	8	14	27	M6	160	36	
SK50 SFH10 080 SLIM AD+B/2.5G 25000 SL	K10105279131259	50	10	16	21	M8	80	41	
SK50 SFH10 120 SLIM AD+B/2.5G 25000 SL	K10105279162259	50	10	16	25	M8	120	41	
SK50 SFH10 130 SLIM AD+B/2.5G 25000 SL	K10105279165259	50	10	16	25	M8	130	41	
SK50 SFH10 160 SLIM AD+B/2.5G 25000 SL	K10105279175259	50	10	16	29	M8	160	41	
SK50 SFH12 080 SLIM AD+B/2.5G 25000 SL	K10105280131259	50	12	18	23	M10	80	46	
SK50 SFH12 120 SLIM AD+B/2.5G 25000 SL	K10105280162259	50	12	18	27	M10	120	46	
SK50 SFH12 130 SLIM AD+B/2.5G 25000 SL	K10105280165259	50	12	18	27	M10	130	46	
SK50 SFH12 160 SLIM AD+B/2.5G 25000 SL	K10105280175259	50	12	18	31	M10	160	46	
SK50 SFH14 080 SLIM AD+B/2.5G 25000 SL	K10105284148259	50	14	20	26	M10	80	46	
SK50 SFH14 120 SLIM AD+B/2.5G 25000 SL	K10105284162259	50	14	20	29	M10	120	46	
SK50 SFH14 130 SLIM AD+B/2.5G 25000 SL	K10105284165259	50	14	20	29	M10	130	46	
SK50 SFH14 160 SLIM AD+B/2.5G 25000 SL	K10105284175259	50	14	20	32	M10	160	46	

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) (AD+B) AD/AF Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



SK (DIN 69871) (SFH SLIM 3°) AD/AF				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	SK	D	D1	D2	G	L	L1
SK50 SFH16 080 SLIM AD+B/2.5G 25000 SL	K10105281131259	50	16	22	28	M12	80	49
SK50 SFH16 120 SLIM AD+B/2.5G 25000 SL	K10105281162259	50	16	22	31	M12	120	49
SK50 SFH16 130 SLIM AD+B/2.5G 25000 SL	K10105281165259	50	16	22	31	M12	130	49
SK50 SFH16 160 SLIM AD+B/2.5G 25000 SL	K10105281175259	50	16	22	34	M12	160	49
SK50 SFH18 080 SLIM AD+B/2.5G 25000 SL	K10105282131259	50	18	24	30	M12	80	49
SK50 SFH18 120 SLIM AD+B/2.5G 25000 SL	K10105282148259	50	18	24	33	M12	120	49
SK50 SFH18 130 SLIM AD+B/2.5G 25000 SL	K10105282165259	50	18	24	33	M12	130	49
SK50 SFH18 160 SLIM AD+B/2.5G 25000 SL	K10105282175259	50	18	24	36	M12	160	49
SK50 SFH20 080 SLIM AD+B/2.5G 25000 SL	K10105283131259	50	20	26	32	M16	80	51
SK50 SFH20 120 SLIM AD+B/2.5G 25000 SL	K10105283148259	50	20	26	35	M16	120	51
SK50 SFH20 130 SLIM AD+B/2.5G 25000 SL	K10105283165259	50	20	26	35	M16	130	51
SK50 SFH20 160 SLIM AD+B/2.5G 25000SL	K10105283175259	50	20	26	38	M16	160	51

Note: All Dimensions are in mm

Features:

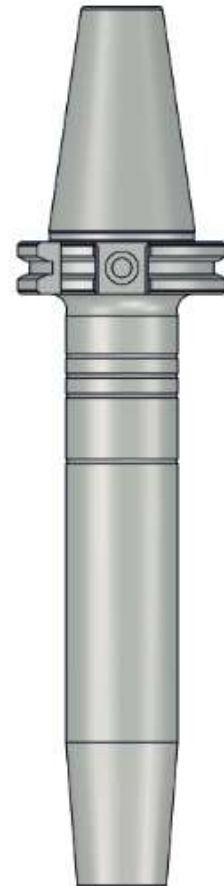
- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/18/20/25/32mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"
Having GPL 200/250/300/350/400 MM
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

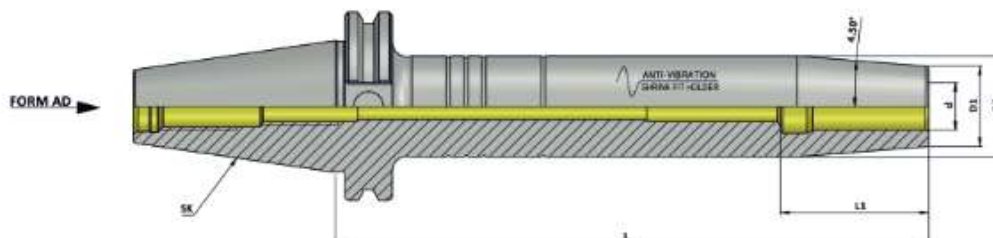
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



SK (DIN 69871) (DIN ISO 7388 - 1) Shrink Fit Holder Anti - Vibration 4.5 Degree (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



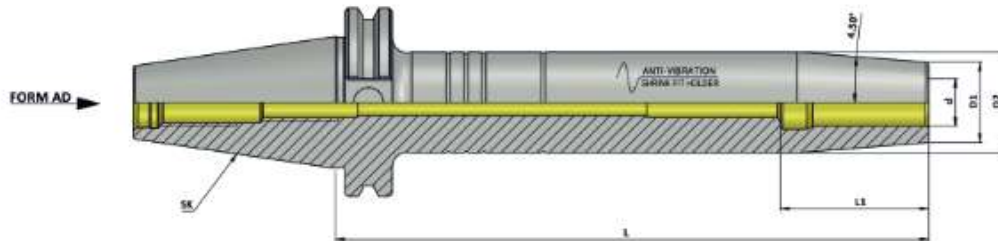
SK (DIN 69871) (SFH - AD/AV)							
ITEM NAME	ITEM CODE	SK	d	D1	D2	L	L1
SK40 SFH16 200 AD/AV	K10104281239539	40	16	27	34	200	49
SK40 SFH16 250 AD/AV	K10104281182539	40	16	27	34	250	49
SK40 SFH16 300 AD/AV	K10104281183539	40	16	27	34	300	49
SK40 SFH18 200 AD/AV	K10104282239539	40	18	33	40	200	49
SK40 SFH18 250 AD/AV	K10104282182539	40	18	33	40	250	49
SK40 SFH18 300 AD/AV	K10104282183539	40	18	33	40	300	49
SK40 SFH20 200 AD/AV	K10104283239539	40	20	33	40	200	51
SK40 SFH20 250 AD/AV	K10104283182539	40	20	33	40	250	51
SK40 SFH20 300 AD/AV	K10104283183539	40	20	33	40	300	51
SK40 SFH25 200 AD/AV	K10104287239539	40	25	44	53	200	57
SK40 SFH25 250 AD/AV	K10104287182539	40	25	44	53	250	57
SK40 SFH25 300 AD/AV	K10104287183539	40	25	44	53	300	57
SK40 SFH32 200 AD/AV	K10104288239539	40	32	44	53	200	61
SK40 SFH32 250 AD/AV	K10104288182539	40	32	44	53	250	61
SK40 SFH32 300 AD/AV	K10104288183539	40	32	44	53	300	61

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) Shrink Fit Holder Anti - Vibration 4.5 Degree (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



SK (DIN 69871) (SFH - AD/AV)

ITEM NAME	ITEM CODE	SK	d	D1	D2	L	L1
SK50 SFH16 200 AD/AV	K10105281239539	50	16	27	34	200	49
SK50 SFH16 250 AD/AV	K10105281182539	50	16	27	34	250	49
SK50 SFH16 300 AD/AV	K10105281183539	50	16	27	34	300	49
SK50 SFH16 350 AD/AV	K10105281184539	50	16	27	34	350	49
SK50 SFH16 400 AD/AV	K10105281540539	50	16	27	34	400	49
SK50 SFH18 200 AD/AV	K10105282239539	50	18	33	40	200	49
SK50 SFH18 250 AD/AV	K10105282182539	50	18	33	40	250	49
SK50 SFH18 300 AD/AV	K10105282183539	50	18	33	40	300	49
SK50 SFH18 350 AD/AV	K10105282184539	50	18	33	40	350	49
SK50 SFH18 400 AD/AV	K10105282540539	50	18	33	40	400	49
SK50 SFH20 200 AD/AV	K10105283239539	50	20	33	40	200	51
SK50 SFH20 250 AD/AV	K10105283182539	50	20	33	40	250	51
SK50 SFH20 300 AD/AV	K10105283183539	50	20	33	40	300	51
SK50 SFH20 350 AD/AV	K10105283184539	50	20	33	40	350	51
SK50 SFH20 400 AD/AV	K10105283540539	50	20	33	40	400	51
SK50 SFH25 200 AD/AV	K10105287239539	50	25	44	53	200	57
SK50 SFH25 250 AD/AV	K10105287182539	50	25	44	53	250	57
SK50 SFH25 300 AD/AV	K10105287183539	50	25	44	53	300	57
SK50 SFH25 350 AD/AV	K10105287184539	50	25	44	53	350	57
SK50 SFH25 400 AD/AV	K10105287540539	50	25	44	53	400	57
SK50 SFH32 200 AD/AV	K10105288239539	50	32	44	53	200	61
SK50 SFH32 250 AD/AV	K10105288182539	50	32	44	53	250	61
SK50 SFH32 300 AD/AV	K10105288183539	50	32	44	53	300	61
SK50 SFH32 350 AD/AV	K10105288184539	50	32	44	53	350	61
SK50 SFH32 400 AD/AV	K10105288540539	50	32	44	53	400	61

Note: All Dimensions are in mm

Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Features:

- Maximum Run-out of external diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm

Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm

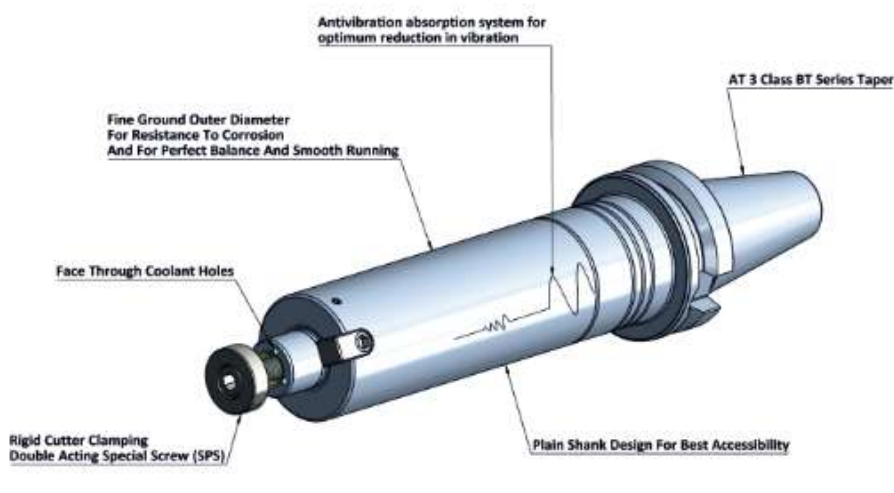
- Through Coolant Facility Double Acting Nut for cutter clamping

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life & run-away of metal swarf Perfect Alignment with cutter face & rigid clamping.

Available In Mountings :

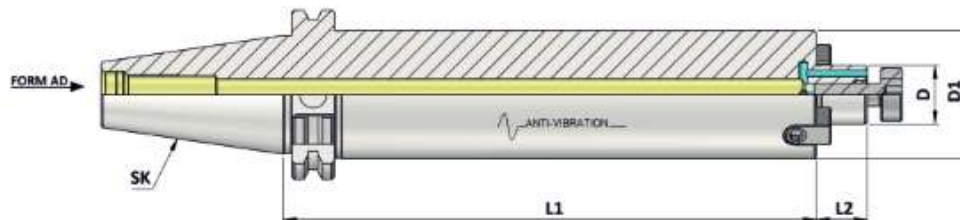
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



SK (DIN 69871) (DIN ISO 7388 - 1) Face Mill Holder Through Coolant Anti - Vibration (FMH-K AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



SK (DIN 69871) (FMH-K AD/AV)

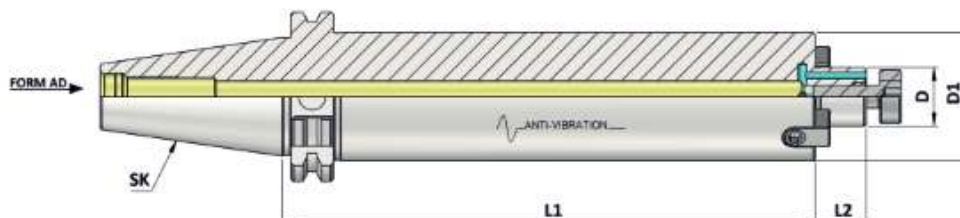
ITEM NAME	ITEM CODE	SK	D	D1	L1	L2
SK40 FMH-K16 200 AD AV SP.S	K10104131239271	40	16	38	200	17
SK40 FMH-K16 250 AD AV SP.S	K10104131182271	40	16	38	250	17
SK40 FMH-K16 300 AD AV SP.S	K10104131183271	40	16	38	300	17
SK40 FMH-K22 200 AD AV SP.S	K10104132239271	40	22	48	200	19
SK40 FMH-K22 250 AD AV SP.S	K10104132182271	40	22	48	250	19
SK40 FMH-K22 300 AD AV SP.S	K10104132183271	40	22	48	300	19
SK40 FMH-K27 200 AD AV SP.S	K10104133239271	40	27	58	200	21
SK40 FMH-K27 250 AD AV SP.S	K10104133182271	40	27	58	250	21
SK40 FMH-K27 300 AD AV SP.S	K10104133183271	40	27	58	300	21
SK40 FMH-K32 200 AD AV SP.S	K10104134239539	40	32	78	200	24
SK40 FMH-K32 250 AD AV SP.S	K10104134182539	40	32	78	250	24
SK40 FMH-K32 300 AD AV SP.S	K10104134183539	40	32	78	300	24
SK40 FMH-K40 200 AD AV SP.S	K10104576239271	40	40	88	200	27
SK40 FMH-K40 250 AD AV SP.S	K10104576182271	40	40	88	250	27
SK40 FMH-K40 300 AD AV SP.S	K10104576183271	40	40	88	300	27

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) Face Mill Holder Through Coolant Anti - Vibration (FMH-K AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



SK (DIN 69871) (FMH-K AD/AV)

ITEM NAME	ITEM CODE	SK	D	D1	L1	L2
SK50 FMH-K16 200 AD AV SP.S	K10105131239271	50	16	38	200	17
SK50 FMH-K16 250 AD AV SP.S	K10105131182271	50	16	38	250	17
SK50 FMH-K16 300 AD AV SP.S	K10105131183271	50	16	38	300	17
SK50 FMH-K16 350 AD AV SP.S	K10105131184271	50	16	38	350	17
SK50 FMH-K16 400 AD AV SP.S	K10105131540271	50	16	38	400	17
SK50 FMH-K22 200 AD AV SP.S	K10105132239271	50	22	48	200	19
SK50 FMH-K22 250 AD AV SP.S	K10105132182271	50	22	48	250	19
SK50 FMH-K22 300 AD AV SP.S	K10105132183271	50	22	48	300	19
SK50 FMH-K22 350 AD AV SP.S	K10105132184271	50	22	48	350	19
SK50 FMH-K22 400 AD AV SP.S	K10105132540271	50	22	48	400	19
SK50 FMH-K27 200 AD AV SP.S	K10105133239271	50	27	58	200	21
SK50 FMH-K27 250 AD AV SP.S	K10105133182271	50	27	58	250	21
SK50 FMH-K27 300 AD AV SP.S	K10105133183271	50	27	58	300	21
SK50 FMH-K27 350 AD AV SP.S	K10105133184271	50	27	58	350	21
SK50 FMH-K27 400 AD AV SP.S	K10105133540271	50	27	58	400	21
SK50 FMH-K32 200 AD AV SP.S	K10105134239271	50	32	78	200	24
SK50 FMH-K32 250 AD AV SP.S	K10105134182271	50	32	78	250	24
SK50 FMH-K32 300 AD AV SP.S	K10105134183271	50	32	78	300	24
SK50 FMH-K32 350 AD AV SP.S	K10105134184271	50	32	78	350	24
SK50 FMH-K32 400 AD AV SP.S	K10105134540271	50	32	78	400	24
SK50 FMH-K40 200 AD AV SP.S	K10105576239271	50	40	88	200	27
SK50 FMH-K40 250 AD AV SP.S	K10105576182271	50	40	88	250	27
SK50 FMH-K40 300 AD AV SP.S	K10105576183271	50	40	88	300	27
SK50 FMH-K40 350 AD AV SP.S	K10105576184271	50	40	88	350	27
SK50 FMH-K40 400 AD AV SP.S	K10105576540271	50	40	88	400	27

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

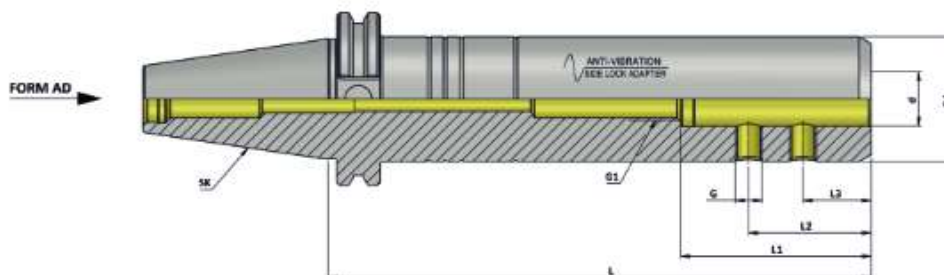
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



SK (DIN 69871) (DIN ISO 7388 - 1) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



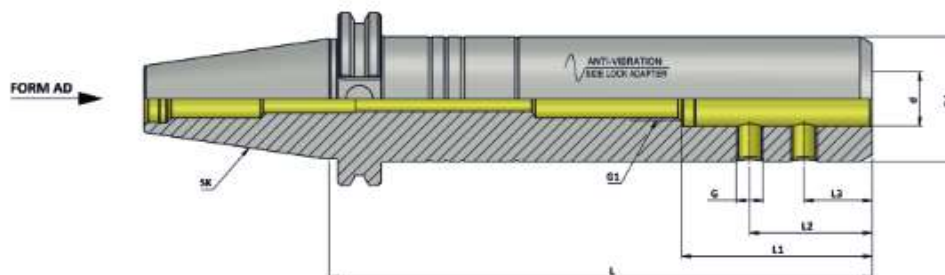
SK (DIN 69871) (SLA - AD/AV)												
ITEM NAME	ITEM CODE	SK	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.	
SK40 SLA16 200 AD/AV	K10104105239539	40	16	48	M14	M12	200	57	-	23.50	1	
SK40 SLA16 250 AD/AV	K10104105182539	40	16	48	M14	M12	250	57	-	23.50	1	
SK40 SLA16 300 AD/AV	K10104105183539	40	16	48	M14	M12	300	57	-	23.50	1	
SK40 SLA20 200 AD/AV	K10104106239539	40	20	50	M10	M16	200	70	45	25	2	
SK40 SLA20 250 AD/AV	K10104106182539	40	20	50	M10	M16	250	70	45	25	2	
SK40 SLA20 300 AD/AV	K10104106183539	40	20	50	M10	M16	300	70	45	25	2	
SK40 SLA25 200 AD/AV	K10104107239539	40	25	50	M10	M16	200	70	45	25	2	
SK40 SLA25 250 AD/AV	K10104107182539	40	25	50	M10	M16	250	70	45	25	2	
SK40 SLA25 300 AD/AV	K10104107183539	40	25	50	M10	M16	300	70	45	25	2	
SK40 SLA32 200 AD/AV	K10104108239539	40	32	60	M10	M16	200	70	50	30	2	
SK40 SLA32 250 AD/AV	K10104108182539	40	32	60	M10	M16	250	70	50	30	2	
SK40 SLA32 300 AD/AV	K10104108183539	40	32	60	M10	M16	300	70	50	30	2	
SK40 SLA40 200 AD/AV	K10104109239539	40	40	60	M10	M16	200	70	50	30	2	
SK40 SLA40 250 AD/AV	K10104109182539	40	40	60	M10	M16	250	70	50	30	2	
SK40 SLA40 300 AD/AV	K10104109183539	40	40	60	M10	M16	300	70	50	30	2	

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



SK (DIN 69871) (SLA - AD/AV)												
ITEM NAME	ITEM CODE	SK	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.	
SK50 SLA16 200 AD/AV	K10105105239539	50	16	48	M14	M12	200	57	-	23.50	1	
SK50 SLA16 250 AD/AV	K10105105182539	50	16	48	M14	M12	250	57	-	23.50	1	
SK50 SLA16 300 AD/AV	K10105105183539	50	16	48	M14	M12	300	57	-	23.50	1	
SK50 SLA16 350 AD/AV	K10105105184539	50	16	48	M14	M12	350	57	-	23.50	1	
SK50 SLA16 400 AD/AV	K10105105540539	50	16	48	M14	M12	400	57	-	23.50	1	
SK50 SLA20 200 AD/AV	K10105106239539	50	20	50	M10	M16	200	70	45	25	2	
SK50 SLA20 250 AD/AV	K10105106182539	50	20	50	M10	M16	250	70	45	25	2	
SK50 SLA20 300 AD/AV	K10105106183539	50	20	50	M10	M16	300	70	45	25	2	
SK50 SLA20 350 AD/AV	K10105106184539	50	20	50	M10	M16	350	70	45	25	2	
SK50 SLA20 400 AD/AV	K10105106540539	50	20	50	M10	M16	400	70	45	25	2	
SK50 SLA25 200 AD/AV	K10105107239539	50	25	50	M10	M16	200	70	45	25	2	
SK50 SLA25 250 AD/AV	K10105107182539	50	25	50	M10	M16	250	70	45	25	2	
SK50 SLA25 300 AD/AV	K10105107183539	50	25	50	M10	M16	300	70	45	25	2	
SK50 SLA25 350 AD/AV	K10105107184539	50	25	50	M10	M16	350	70	45	25	2	
SK50 SLA25 400 AD/AV	K10105107540539	50	25	50	M10	M16	400	70	45	25	2	
SK50 SLA32 200 AD/AV	K10105108239539	50	32	60	M10	M16	200	70	50	30	2	
SK50 SLA32 250 AD/AV	K10105108182539	50	32	60	M10	M16	250	70	50	30	2	
SK50 SLA32 300 AD/AV	K10105108183539	50	32	60	M10	M16	300	70	50	30	2	
SK50 SLA32 350 AD/AV	K10105108184539	50	32	60	M10	M16	350	70	50	30	2	
SK50 SLA32 400 AD/AV	K10105108540539	50	32	60	M10	M16	400	70	50	30	2	
SK50 SLA40 200 AD/AV	K10105109239539	50	40	60	M10	M16	200	70	50	30	2	
SK50 SLA40 250 AD/AV	K10105109182539	50	40	60	M10	M16	250	70	50	30	2	
SK50 SLA40 300 AD/AV	K10105109183539	50	40	60	M10	M16	300	70	50	30	2	
SK50 SLA40 350 AD/AV	K10105109184539	50	40	60	M10	M16	350	70	50	30	2	
SK50 SLA40 400 AD/AV	K10105109540539	50	40	60	M10	M16	400	70	50	30	2	

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal taper w.r.t external taper is within 0.010 mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Holding ER 16/20/25/32/40 mm Having GPL - 200/250/300/350/400 mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

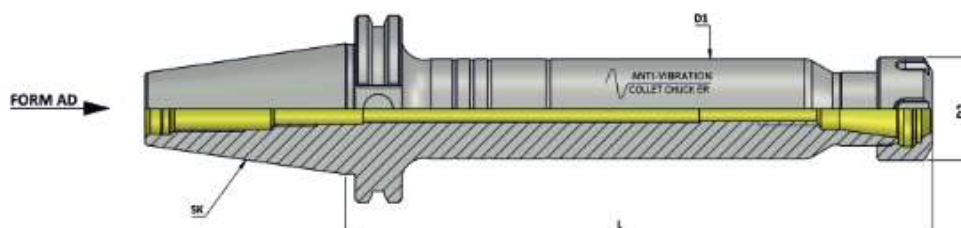
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



SK (DIN 69871) (DIN ISO 7388 - 1) Collet Chuck ER Anti - vibration (ER AD/AV) (DIN 6499)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



SK (DIN 69871) (ER AD/AV)									
ITEM NAME	ITEM CODE	SK	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
SK40 ER 16 200 AD/AV	K10104149239539	40	ER 16	0.5-10	30	32	200	UM/ER16	E16
SK40 ER 16 250 AD/AV	K10104149182539	40	ER 16	0.5-10	30	32	250	UM/ER16	E16
SK40 ER 16 300 AD/AV	K10104149183539	40	ER 16	0.5-10	30	32	300	UM/ER16	E16
SK40 ER 20 200 AD/AV	K10104150239539	40	ER 20	1.0-13	34	35	200	UM/ER20	E20
SK40 ER 20 250 AD/AV	K10104150182539	40	ER 20	1.0-13	34	35	250	UM/ER20	E20
SK40 ER 20 300 AD/AV	K10104150183539	40	ER 20	1.0-13	34	35	300	UM/ER20	E20
SK40 ER 25 200 AD/AV	K10104151239539	40	ER 25	1.0-16	40	42	200	UM/ER25	E25
SK40 ER 25 250 AD/AV	K10104151182539	40	ER 25	1.0-16	40	42	250	UM/ER25	E25
SK40 ER 25 300 AD/AV	K10104151183539	40	ER 25	1.0-16	40	42	300	UM/ER25	E25
SK40 ER 32 200 AD/AV	K10104152239539	40	ER 32	2.0-20	48	50	200	UM/ER32	E32
SK40 ER 32 250 AD/AV	K10104152182539	40	ER 32	2.0-20	48	50	250	UM/ER32	E32
SK40 ER 32 300 AD/AV	K10104152183539	40	ER 32	2.0-20	48	50	300	UM/ER32	E32
SK40 ER 40 200 AD/AV	K10104153239539	40	ER 40	3.0-26	52	63	200	UM/ER40	E40
SK40 ER 40 250 AD/AV	K10104153182539	40	ER 40	3.0-26	52	63	250	UM/ER40	E40
SK40 ER 40 300 AD/AV	K10104153183539	40	ER 40	3.0-26	52	63	300	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



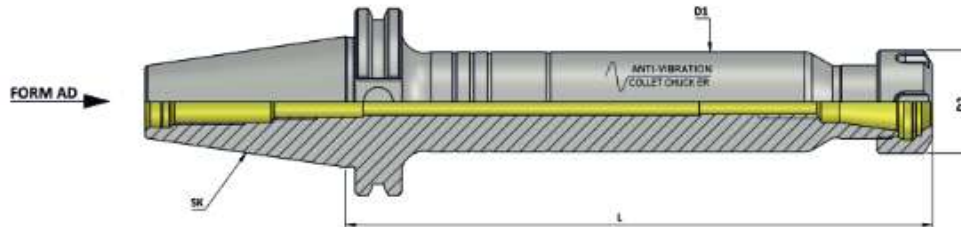
ER SPANNER

Note: All Dimensions are in mm

SK (DIN 69871) (DIN ISO 7388 - 1) Collet Chuck ER Anti - vibration (ER AD/AV) (DIN 6499)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



SK (DIN 69871) (ER AD/AV)

ITEM NAME	ITEM CODE	SK	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
SK50 ER 16 200 AD/AV	K10105149239539	50	ER 16	0.5-10	30	32	200	UM/ER16	E16
SK50 ER 16 250 AD/AV	K10105149182539	50	ER 16	0.5-10	30	32	250	UM/ER16	E16
SK50 ER 16 300 AD/AV	K10105149183539	50	ER 16	0.5-10	30	32	300	UM/ER16	E16
SK50 ER 16 350 AD/AV	K10105149184539	50	ER 16	0.5-10	30	32	350	UM/ER16	E16
SK50 ER 16 400 AD/AV	K10105149540539	50	ER 16	0.5-10	30	32	400	UM/ER16	E16
SK50 ER 20 200 AD/AV	K10105150239539	50	ER 20	1.0-13	34	35	200	UM/ER20	E20
SK50 ER 20 250 AD/AV	K10105150182539	50	ER 20	1.0-13	34	35	250	UM/ER20	E20
SK50 ER 20 300 AD/AV	K10105150183539	50	ER 20	1.0-13	34	35	300	UM/ER20	E20
SK50 ER 20 350 AD/AV	K10105150184539	50	ER 20	1.0-13	34	35	350	UM/ER20	E20
SK50 ER 20 400 AD/AV	K10105150540539	50	ER 20	1.0-13	34	35	400	UM/ER20	E20
SK50 ER 25 200 AD/AV	K10105151239539	50	ER 25	1.0-16	40	42	200	UM/ER25	E25
SK50 ER 25 250 AD/AV	K10105151182539	50	ER 25	1.0-16	40	42	250	UM/ER25	E25
SK50 ER 25 300 AD/AV	K10105151183539	50	ER 25	1.0-16	40	42	300	UM/ER25	E25
SK50 ER 25 350 AD/AV	K10105151184539	50	ER 25	1.0-16	40	42	350	UM/ER25	E25
SK50 ER 25 400 AD/AV	K10105151540539	50	ER 25	1.0-16	40	42	400	UM/ER25	E25
SK50 ER 32 200 AD/AV	K10105152239539	50	ER 32	2.0-20	48	50	200	UM/ER32	E32
SK50 ER 32 250 AD/AV	K10105152182539	50	ER 32	2.0-20	48	50	250	UM/ER32	E32
SK50 ER 32 300 AD/AV	K10105152183539	50	ER 32	2.0-20	48	50	300	UM/ER32	E32
SK50 ER 32 350 AD/AV	K10105152184539	50	ER 32	2.0-20	48	50	350	UM/ER32	E32
SK50 ER 32 400 AD/AV	K10105152540539	50	ER 32	2.0-20	48	50	400	UM/ER32	E32
SK50 ER 40 200 AD/AV	K10105153239539	50	ER 40	3.0-26	60	63	200	UM/ER40	E40
SK50 ER 40 250 AD/AV	K10105153182539	50	ER 40	3.0-26	60	63	250	UM/ER40	E40
SK50 ER 40 300 AD/AV	K10105153183539	50	ER 40	3.0-26	60	63	300	UM/ER40	E40
SK50 ER 40 350 AD/AV	K10105153184539	50	ER 40	3.0-26	60	63	350	UM/ER40	E40
SK50 ER 40 400 AD/AV	K10105153184539	50	ER 40	3.0-26	60	63	400	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



ER SPANNER

Note: All Dimensions are in mm

Features :

- Small outside diameter.
- Best suitable for Die & Mould Industry.
- Most suitable for machining of cavities difficult to reach.
- High precision Runout <0.005mm (4xd)
- All 'KTA' Die & Mould Chucks are subjected to Sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Capacity :

- DMC 06 (3mm to 6mm)
- DMC 08 (3mm to 8mm)
- DMC 10 (3mm to 10mm)

Available in Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

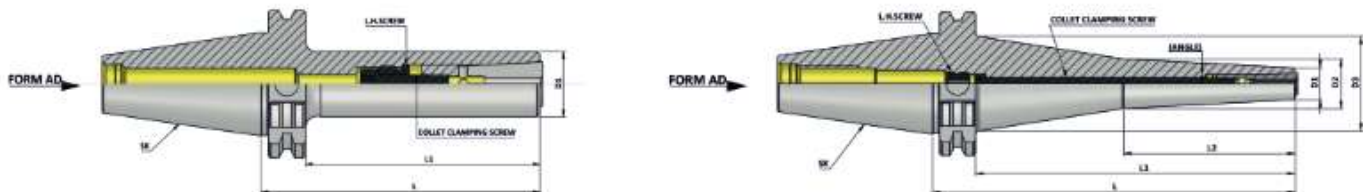
- Balanced To 2.5G 25000 RPM



SK (DIN 69871) (DIN ISO 7388 - 1) Die & Mould Chuck (DMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



SK (DIN 69871) (DMC)													(Balanced to 2.5G 25000 RPM)		
ITEM NAME	ITEM CODE	SK	GRIPPING RANGE	D1	D2	D3	L	L1	L2	ANGLE	SUITABLE COLLET	SCREW	ALLEN KEY		
SK40 DMC 06 060 AD/2.5G 25000 SL	K10104161117129	40	3-6	14	16.7	-	60	40.9	26	3	DMC-6	M5	4X200		
SK40 DMC 06 090 AD/2.5G 25000 SL	K10104161140129	40	3-6	14	18.7	35	90	70.9	45	3	DMC-6	M5	4X200		
SK40 DMC 06 120 AD/2.5G 25000 SL	K10104161162129	40	3-6	14	20.2	40	120	100.9	60	3	DMC-6	M5	4X200		
SK40 DMC 06 160 AD/2.5G 25000 SL	K10104161175124	40	3-6	14	21.9	45	160	140.9	76	3	DMC-6	M5	4X200		
SK40 DMC 08 090 AD/2.5G 25000 SL	K10104162140129	40	3-8	22	27.5	35	90	70.9	53	3	DMC-8	M6	5X200		
SK40 DMC 08 120 AD/2.5G 25000 SL	K10104162162129	40	3-8	22	28.8	40	120	100.9	65	3	DMC-8	M6	5X200		
SK40 DMC 08 160 AD/2.5G 25000 SL	K10104162175124	40	3-8	22	29.9	45	160	140.9	76	3	DMC-8	M6	5X200		
SK40 DMC 10 090 AD/2.5G 25000 SL	K10104163140129	40	3-10	28	-	-	90	70.9	-	-	DMC-10	M8	6X200		
SK40 DMC 10 120 AD/2.5G 25000 SL	K10104163162129	40	3-10	28	-	-	120	100.9	-	-	DMC-10	M8	6X200		
SK50 DMC 10 150 AD/2.5G 25000 SL	K10105163173129	50	3-10	28	-	-	150	130.9	-	-	DMC-10	M8	6X200		

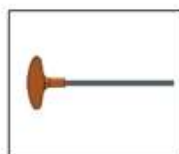
Accessories:



DMC COLLET



DMC ALLEN CAP SCREW



DMC ALLEN KEY



DMC LH SCREW

For DMC Accessories Ref. Pg.Nos 283 To 285

Note: All Dimensions are in mm

Features :

- 'KTA' Power Milling Chuck is Very Rigid & Precision.
- It is best for Drilling, Reaming & Milling Operations.
- The tool runs true less than 5 micron on 2D. Hence the tool life increases drastically.
- It's Unibody construction reduces the vibrations. This also helps to increase the tool life.
- All 'KTA' Power Milling Chucks are subjected to sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Available In Mountings

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 96893-1)
- CAT (ANSI B 5.50)

Balancing

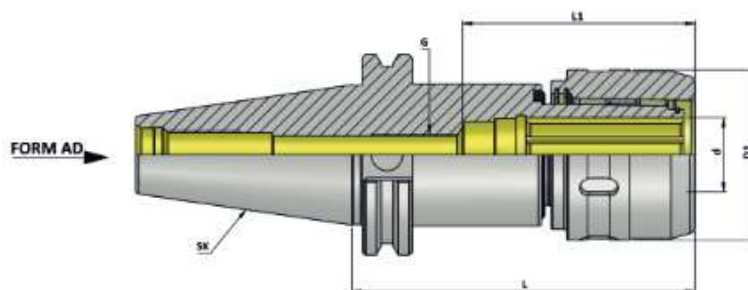
- Balanced To 6.3G 15000 RPM



SK (DIN 69871) (DIN ISO 7388 - 1) Power Milling Chuck (PMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



SK (DIN 69871) (PMC)				(Balanced to 6.3G 15000 RPM)			
ITEM NAME	ITEM CODE	SK	d	D1	L	L1	G
SK40 C 20105 AD/6.3G 15000 SL	K10104453355129	40	20	54	105	70	M 16
SK40 C 32105 AD/6.3G 15000 SL	K10104453356129	40	32	72	105	100	M 16
SK50 C 20105 AD/6.3G 15000 SL	K10105453355129	50	20	54	105	70	M 16
SK50 C 32105 AD/6.3G 15000 SL	K10105453356129	50	32	72	105	100	M 16

Accessories:



RS SEAL SLEEVE



POWER CHUCK SPANNER

For PMC Spanner Ref. Pg.Nos 285

Note: All Dimensions are in mm

Minimum Length Compensation Tapping Chuck (MLC)



Features :

- KTA "Minimum Length Compensation Tapping Chuck (MLC)" For Synchronised (Rigid) Tapping Cycle.
- Best suitable for Die & Mould Industry.
- Compression & Expansion $\pm 0.5\text{mm}$
- High Concentricity Enables High Speed Tapping
- Possible Clamping Through ER Tap Collet.

Technical Details :

- "MLC" Tapping Chucks to be used with CNC Machines, having Synchronised Tapping Cycle.
- In this case, Rigid Tapping cycle takes care of tap pitch controlling the feed, spindle speed and feed. So, theoretically, ordinary holder without any compensation also should be suitable for performing the process. But by law of theory, following factors they do affect tapping quality, tap life etc.
- This will lead to :
 - » Less Tap life because of Flank wear (one side)
 - » Damaged Flanks on threads on the work piece
 - » Threads not answering to Gauge.
- All above errors can be taken care by using ' MLC '
- KTA 'MLC' Tapping chucks with $\pm 0.5\text{mm}$ compensation.
- Available in Following Range :
 - » ER 16 : M3 to M12
 - » ER 20 : M3 to M16
 - » ER 25 : M3 to M20
 - » ER 32 : M4 to M27
 - » ER 40 : M6 to M33
- Available in Mountings :
 - » BT (MAS 403) (DIN ISO 7388-2)
 - » KBT (MAS 403) (DIN ISO 7388-2)
 - » SK (DIN 69871) (DIN ISO 7388-1)
 - » HSK-A (DIN 69893-1)
 - » CAT (ANSI B 5.50)
 - » Cylindrical Shank

Balancing :

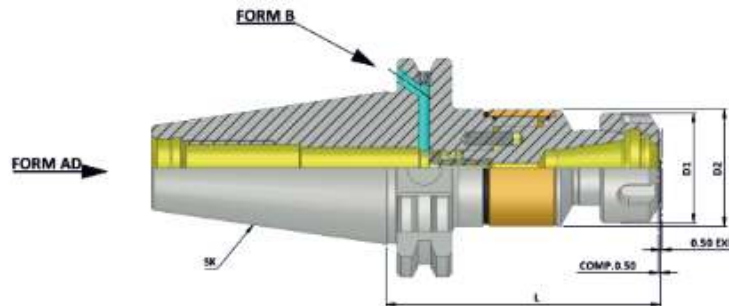
- Main Body Balanced to 2.5G 25000 RPM



SK (DIN 69871) (DIN ISO 7388 - 1) Minimum Length Compensation Tapping Chuck (MLC)



Maximum Run out of the Internal Taper with respect to the External Taper 0.020 mm



SK (DIN 69871) (MLC)

ITEM NAME	ITEM CODE	SK	TAPPING RANGE	CLAMPING RANGE	NUT SIZE	D1	D2	L	COMP.	EXP.
SK40 ER 11M 090 AD+B MLC	K10104156140245	40	M2-M6	2.5-6	ER 11M	16	32.5	90	0.4	0.4
SK40 ER 16M 079 AD+B MLC	K10104157551245	40	M3-M12	3.5-10	ER 16M	22	34	79	0.5	0.5
SK40 ER 16 079 AD+B MLC	K10104149551245	40	M3-M12	3.5-10	ER 16	32	34	79	0.5	0.5
SK40 ER 20 080 AD+B MLC	K10104150131250	40	M3-M16	3.5-12	ER 20	35	34	80	0.5	0.5
SK40 ER 25 084 AD+B MLC	K10104151134245	40	M3-M20	3.5-16	ER 25	42	34	84	0.5	0.5
SK40 ER 32 095 AD+B MLC	K10104152145245	40	M4-M27	3.5-20	ER 32	50	45	95	0.5	0.5
SK40 ER 40 120 AD+B MLC	K10104153162245	40	M6-M33	6-25	ER 40	63	62	120	0.5	0.5
SK50 ER 16M 079 AD+B MLC	K10105157551245	50	M3-M12	3.5-10	ER 16M	22	34	79	0.5	0.5
SK50 ER 16 079 AD+B MLC	K10105149551250	50	M3-M12	3.5-10	ER 16	32	34	79	0.5	0.5
SK50 ER 20 080 AD+B MLC	K10105150131250	50	M3-M16	3.5-12	ER 20	35	34	80	0.5	0.5
SK50 ER 25 084 AD+B MLC	K10105151134245	50	M3-M20	3.5-16	ER 25	42	34	84	0.5	0.5
SK50 ER 32 095 AD+B MLC	K10105152145245	50	M4-M27	3.5-20	ER 32	50	45	95	0.5	0.5
SK50 ER 40 105 AD+B MLC	K10105153152245	50	M6-M33	6-25	ER 40	63	62	105	0.5	0.5

Accessories:



QC Tap Collet QCTC



ER TAP COLLET



ER SLOTTED NUT

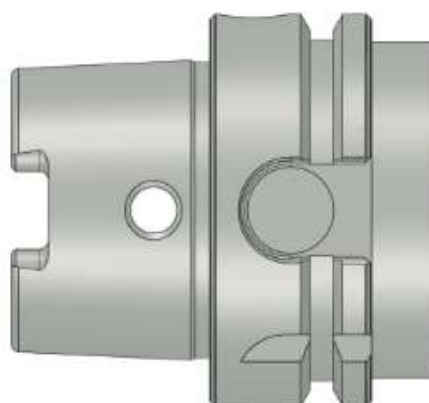


ER SPANNER

For QC Tap Collet QCTC Ref. Pg.Nos 273 TO 282

Note: All Dimensions are in mm

Precision Tool Holders HSK-A (DIN 69893 - 1)

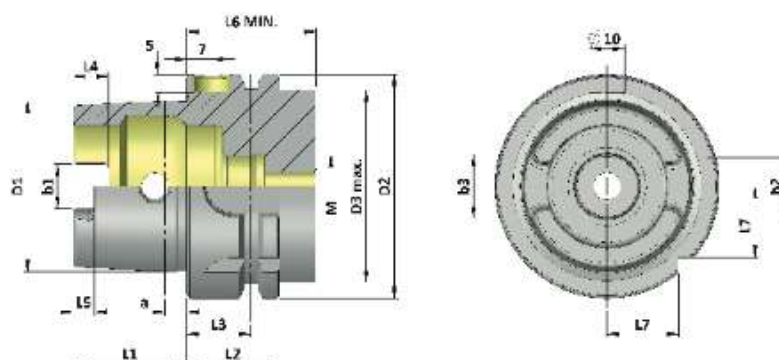


INDEX

Sr. No.	Contents		Page No.
①	Technical Information : HSK-A (DIN 69893-1)		129
②	Shrink Fit Holders 4.5 Degree (SFH 4.5°) - Shrink Fit Holders (SFH 4.5°) - Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°)		130 - 158
③	Shrink Fit Holders Slim 3 Degree (SFH Slim 3°) Shrink Fit Holders (SFH Slim 3°)		159 - 162
④	HSK - A 63 x 80 Shrink Fit Holders 4.5° - Shrink Fit Holders HSK - A 63 x 80 (SFH 4.5°) - Shrink Fit Holders (Face Coolant Channel) HSK - A 63 x 80 (SFH FCC 4.5°)		163 - 164
⑤	Shrink Fit Holders 4.5° Anti - Vibration (SFH - AV)		165 - 168
⑥	Face Mill Holders Anti - Vibration (FMH-K - AV)		169 - 172
⑦	Side Lock Adaptor Anti - Vibration (SLA - AV)		173 - 177
⑧	Collet Chuck "ER" Anti - Vibration (ER - AV)		178 - 180
⑨	Die & Mould Chuck (DMC)		181 - 182
⑩	Power Milling Chuck (PMC)		183 - 184
⑪	Minimum Length Compensation Tapping Chuck (MLC)		185 - 186

HSK-A (DIN 69893-1) Form A

Technical Information



HSK-A	D1	D2	D3	a	b1	b2	b3	M	L1	L2	L3	L4	L5	L6	L7
32	24	32	26	3.20	7.05	7	9	M10x1	16	20	16	5	3	35	9.50
40	30	40	34	4	8.05	9	11	M12x1	20	20	16	6	3.50	35	12
50	38	50	42	5	10.54	12	14	M16x1	25	26	18	7.50	4.50	42	15.50
63	48	63	53	6.30	12.54	16	18	M18x1	32	26	18	10	6	42	20
80	60	80	68	8	16.04	18	20	M20x1.5	40	26	18	12	8	42	25
100	75	100	88	10	20.02	20	22	M24x1.5	50	29	20	15	10	45	31.50
125	95	125	111	12.50	25.02	25	28	M30x1.5	63	29	20	19	12	45	39.50

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm²

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3

Features :

- For Mounting Of Carbide Drills, End Mills etc.
- Easy to reach at Deep cavities.
- Best T.I.R. & Rigidity during long working life, Result of in house Research & Development & special Heat Treatment.

Available In Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- HSK-E (DIN 69893-5)
- HSK-F (DIN 69893-6)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

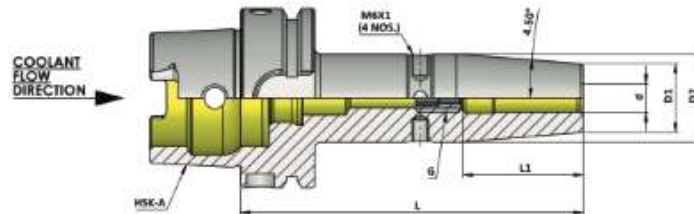
- Balanced To 2.5G 25000 SL



HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



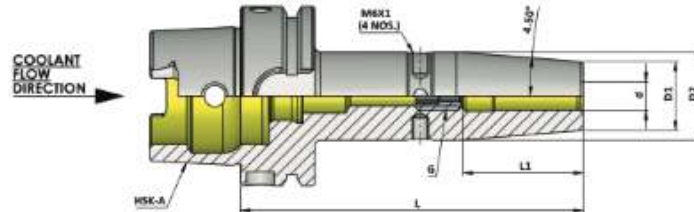
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 32 SFH03 060 2.5G 25000 SL	K10319274117283	32	3	10	16	—	60	12
HSK-A 32 SFH04 060 2.5G 25000 SL	K10319275117283	32	4	12	18	—	60	14
HSK-A 32 SFH05 060 2.5G 25000 SL	K10319276117283	32	5	12	18	—	60	15
HSK-A 32 SFH06 070 2.5G 25000 SL	K10319277125283	32	6	21	25	M5	70	36
HSK-A 32 SFH08 070 2.5G 25000 SL	K10319285125283	32	8	21	25	M6	70	36
HSK-A 32 SFH10 070 2.5G 25000 SL	K10319279125283	32	10	24	29	M8	70	41
HSK-A 32 SFH12 080 2.5G 25000 SL	K10319280131283	32	12	24	29	M10	80	46
HSK-A 32 SFH1/8" 60 2.5G 25000 SL	K10319978667283	32	1/8"	10	16	—	60	12
HSK-A 32 SFH3/16" 60 2.5G 25000 SL	K10319979667283	32	3/16"	12	18	—	60	14
HSK-A 32 SFH1/4" 70 2.5G 25000 SL	K10319980124283	32	1/4"	21	25	M5	70	36
HSK-A 32 SFH5/16" 70 2.5G 25000 SL	K10319981124283	32	5/16"	21	25	M6	70	36
HSK-A 32 SFH3/8" 70 2.5G 25000 SL	K10319982124283	32	3/8"	24	29	M8	70	41
HSK-A 32 SFH1/2" 80 2.5G 25000 SL	K10319983124283	32	1/2"	24	29	M10	80	46

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



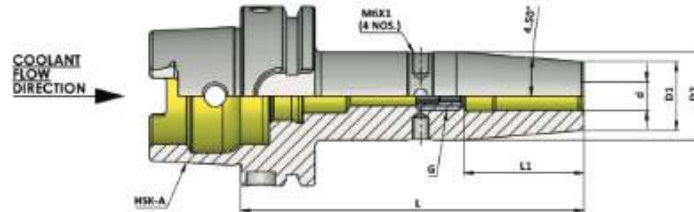
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 40 SFH03 060 2.5G 25000 SL	K10165274117283	40	3	10	16	-	60	12
HSK-A 40 SFH03 120 2.5G 25000 SL	K10165274162283	40	3	10	16	-	120	12
HSK-A 40 SFH03 130 2.5G 25000 SL	K10165274165256	40	3	10	16	-	130	12
HSK-A 40 SFH03 160 2.5G 25000 SL	K10165274175283	40	3	10	16	-	160	12
HSK-A 40 SFH04 060 2.5G 25000 SL	K10165275117283	40	4	12	18	-	60	14
HSK-A 40 SFH04 120 2.5G 25000 SL	K10165275162283	40	4	12	20	-	120	14
HSK-A 40 SFH04 130 2.5G 25000 SL	K10165275165283	40	4	12	20	-	130	14
HSK-A 40 SFH04 160 2.5G 25000 SL	K10165275175283	40	4	12	20	-	160	14
HSK-A 40 SFH05 060 2.5G 25000 SL	K10165276117283	40	5	12	18	-	60	15
HSK-A 40 SFH05 120 2.5G 25000 SL	K10165276162283	40	5	12	22	-	120	15
HSK-A 40 SFH05 130 2.5G 25000 SL	K10165276165283	40	5	12	22	-	130	15
HSK-A 40 SFH05 160 2.5G 25000 SL	K10165276175283	40	5	12	22	-	160	15
HSK-A 40 SFH06 080 2.5G 25000 SL	K10165277131283	40	6	21	27	M5	80	36
HSK-A 40 SFH06 120 2.5G 25000 SL	K10165277162283	40	6	21	27	M5	120	36
HSK-A 40 SFH06 130 2.5G 25000 SL	K10165277165283	40	6	21	27	M5	130	36
HSK-A 40 SFH06 160 2.5G 25000 SL	K10165277175283	40	6	21	27	M5	160	36
HSK-A 40 SFH08 080 2.5G 25000 SL	K10165285131283	40	8	21	27	M6	80	36
HSK-A 40 SFH08 120 2.5G 25000 SL	K10165285162283	40	8	21	27	M6	120	36
HSK-A 40 SFH08 130 2.5G 25000 SL	K10165285165283	40	8	21	27	M6	130	36
HSK-A 40 SFH08 160 2.5G 25000 SL	K10165285175283	40	8	21	27	M6	160	36
HSK-A 40 SFH10 080 2.5G 25000 SL	K10165279131283	40	10	24	32	M8	80	41
HSK-A 40 SFH10 120 2.5G 25000 SL	K10165279162283	40	10	24	32	M8	120	41
HSK-A 40 SFH10 130 2.5G 25000 SL	K10165279165283	40	10	24	32	M8	130	41
HSK-A 40 SFH10 160 2.5G 25000 SL	K10165279175283	40	10	24	32	M8	160	41
HSK-A 40 SFH12 090 2.5G 25000 SL	K10165280140283	40	12	24	32	M10	90	46
HSK-A 40 SFH12 120 2.5G 25000 SL	K10165280162283	40	12	24	32	M10	120	46
HSK-A 40 SFH12 130 2.5G 25000 SL	K10165280165283	40	12	24	32	M10	130	46
HSK-A 40 SFH12 160 2.5G 25000 SL	K10165280175283	40	12	24	32	M10	160	46
HSK-A 40 SFH14 090 2.5G 25000 SL	K10165284140283	40	14	27	34	M10	90	46
HSK-A 40 SFH14 120 2.5G 25000 SL	K10165284162283	40	14	27	34	M10	120	46
HSK-A 40 SFH14 130 2.5G 25000 SL	K10165284165283	40	14	27	34	M10	130	46
HSK-A 40 SFH14 160 2.5G 25000 SL	K10165284175283	40	14	27	34	M10	160	46
HSK-A 40 SFH16 090 2.5G 25000 SL	K10165281140283	40	16	27	34	M12	90	49
HSK-A 40 SFH16 120 2.5G 25000 SL	K10165281162283	40	16	27	34	M12	120	49
HSK-A 40 SFH16 130 2.5G 25000 SL	K10165281165283	40	16	27	34	M12	130	49
HSK-A 40 SFH16 160 2.5G 25000 SL	K10165281175283	40	16	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



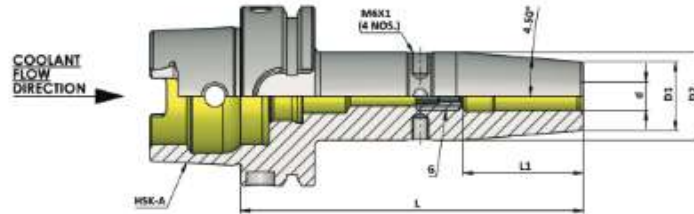
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 40 SFH1/8" 60 2.5G 25000 SL	K10165978667283	40	1/8"	10	16	-	60	12
HSK-A 40 SFH1/8" 120 2.5G 25000 SL	K10165978162283	40	1/8"	10	16	-	120	12
HSK-A 40 SFH1/8" 130 2.5G 25000 SL	K10165978165283	40	1/8"	10	16	-	130	12
HSK-A 40 SFH1/8" 160 2.5G 25000 SL	K10165978175283	40	1/8"	10	16	-	160	12
HSK-A 40 SFH3/16" 60 2.5G 25000 SL	K10165979667283	40	3/16"	12	18	-	60	14
HSK-A 40 SFH3/16" 120 2.5G 25000 SL	K10165979162283	40	3/16"	12	20	-	120	14
HSK-A 40 SFH3/16" 130 2.5G 25000 SL	K10165979165283	40	3/16"	12	20	-	130	14
HSK-A 40 SFH3/16" 160 2.5G 25000 SL	K10165979175283	40	3/16"	12	20	-	160	14
HSK-A 40 SFH1/4" 080 2.5G 25000 SL	K10165980131283	40	1/4"	21	27	M5	80	36
HSK-A 40 SFH1/4" 120 2.5G 25000 SL	K10165980162283	40	1/4"	21	27	M5	120	36
HSK-A 40 SFH1/4" 130 2.5G 25000 SL	K10165980165283	40	1/4"	21	27	M5	130	36
HSK-A 40 SFH1/4" 160 2.5G 25000 SL	K10165980175283	40	1/4"	21	27	M5	160	36
HSK-A 40 SFH5/16" 080 2.5G 25000 SL	K10165981131283	40	5/16"	21	27	M6	80	36
HSK-A 40 SFH5/16" 120 2.5G 25000 SL	K10165981162283	40	5/16"	21	27	M6	120	36
HSK-A 40 SFH5/16" 130 2.5G 25000 SL	K10165981165283	40	5/16"	21	27	M6	130	36
HSK-A 40 SFH5/16" 160 2.5G 25000 SL	K10165981175283	40	5/16"	21	27	M6	160	36
HSK-A 40 SFH3/8" 080 2.5G 25000 SL	K10165982131283	40	3/8"	24	32	M8	80	41
HSK-A 40 SFH3/8" 120 2.5G 25000 SL	K10165982162283	40	3/8"	24	32	M8	120	41
HSK-A 40 SFH3/8" 130 2.5G 25000 SL	K10165982165283	40	3/8"	24	32	M8	130	41
HSK-A 40 SFH3/8" 160 2.5G 25000 SL	K10165982175283	40	3/8"	24	32	M8	160	41
HSK-A 40 SFH1/2" 090 2.5G 25000 SL	K10165983140283	40	1/2"	24	32	M10	90	46
HSK-A 40 SFH1/2" 120 2.5G 25000 SL	K10165983162283	40	1/2"	24	32	M10	120	46
HSK-A 40 SFH1/2" 130 2.5G 25000 SL	K10165983165283	40	1/2"	24	32	M10	130	46
HSK-A 40 SFH1/2" 160 2.5G 25000 SL	K10165983175283	40	1/2"	24	32	M10	160	46
HSK-A 40 SFH5/8" 090 2.5G 25000 SL	K10165984140283	40	5/8"	27	34	M12	90	49
HSK-A 40 SFH5/8" 120 2.5G 25000 SL	K10165984162283	40	5/8"	27	34	M12	120	49
HSK-A 40 SFH5/8" 130 2.5G 25000 SL	K10165984165283	40	5/8"	27	34	M12	130	49
HSK-A 40 SFH5/8" 160 2.5G 25000 SL	K10165984175283	40	5/8"	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

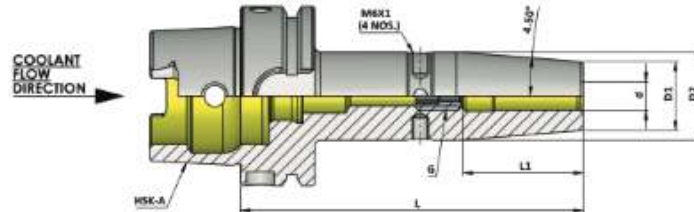


HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 50 SFH03 080 2.5G 25000 SL	K10166274131209	50	3	10	20	—	80	12
HSK-A 50 SFH03 120 2.5G 25000 SL	K10166274162209	50	3	10	20	—	120	12
HSK-A 50 SFH03 130 2.5G 25000 SL	K10166274165283	50	3	10	20	—	130	12
HSK-A 50 SFH03 160 2.5G 25000 SL	K10166274175209	50	3	10	20	—	160	12
HSK-A 50 SFH04 080 2.5G 25000 SL	K10166275131209	50	4	15	22	—	80	14
HSK-A 50 SFH04 120 2.5G 25000 SL	K10166275162209	50	4	15	22	—	120	14
HSK-A 50 SFH04 130 2.5G 25000 SL	K10166275165283	50	4	15	22	—	130	14
HSK-A 50 SFH04 160 2.5G 25000 SL	K10166275175209	50	4	15	22	—	160	14
HSK-A 50 SFH05 080 2.5G 25000 SL	K10166276131209	50	5	15	22	—	80	15
HSK-A 50 SFH05 120 2.5G 25000 SL	K10166276162209	50	5	15	22	—	120	15
HSK-A 50 SFH05 130 2.5G 25000 SL	K10166276165283	50	5	15	22	—	130	15
HSK-A 50 SFH05 160 2.5G 25000 SL	K10166276175209	50	5	15	22	—	160	15
HSK-A 50 SFH06 080 2.5G 25000 SL	K10166277131209	50	6	21	27	M5	80	36
HSK-A 50 SFH06 120 2.5G 25000 SL	K10166277162209	50	6	21	27	M5	120	36
HSK-A 50 SFH06 130 2.5G 25000 SL	K10306277165283	50	6	21	27	M5	130	36
HSK-A 50 SFH06 160 2.5G 25000 SL	K10166277175209	50	6	21	27	M5	160	36
HSK-A 50 SFH08 080 2.5G 25000 SL	K10166285131209	50	8	21	27	M6	80	36
HSK-A 50 SFH08 120 2.5G 25000 SL	K10166285162209	50	8	21	27	M6	120	36
HSK-A 50 SFH08 130 2.5G 25000 SL	K10306285165283	50	8	21	27	M6	130	36
HSK-A 50 SFH08 160 2.5G 25000 SL	K10166285175209	50	8	21	27	M6	160	36
HSK-A 50 SFH10 085 2.5G 25000 SL	K10166279135209	50	10	24	31	M8	85	41
HSK-A 50 SFH10 120 2.5G 25000 SL	K10166279162209	50	10	24	31	M8	120	41
HSK-A 50 SFH10 130 2.5G 25000 SL	K10306279165283	50	10	24	31	M8	130	41
HSK-A 50 SFH10 160 2.5G 25000 SL	K10166279175209	50	10	24	31	M8	160	41
HSK-A 50 SFH12 090 2.5G 25000 SL	K10166280140209	50	12	24	31	M10	90	46
HSK-A 50 SFH12 120 2.5G 25000 SL	K10166280162209	50	12	24	31	M10	120	46
HSK-A 50 SFH12 130 2.5G 25000 SL	K10306280165283	50	12	24	31	M10	130	46
HSK-A 50 SFH12 160 2.5G 25000 SL	K10166280175209	50	12	24	31	M10	160	46
HSK-A 50 SFH14 090 2.5G 25000 SL	K10166284140209	50	14	27	34	M10	90	46
HSK-A 50 SFH14 120 2.5G 25000 SL	K10166284162209	50	14	27	34	M10	120	46
HSK-A 50 SFH14 130 2.5G 25000 SL	K10306284165283	50	14	27	34	M10	130	46
HSK-A 50 SFH14 160 2.5G 25000 SL	K10166284175209	50	14	27	34	M10	160	46
HSK-A 50 SFH16 095 2.5G 25000 SL	K10166281145209	50	16	27	34	M12	95	49
HSK-A 50 SFH16 120 2.5G 25000 SL	K10166281162209	50	16	27	34	M12	120	49
HSK-A 50 SFH16 130 2.5G 25000 SL	K10306281165283	50	16	27	34	M12	130	49
HSK-A 50 SFH16 160 2.5G 25000 SL	K10166281175209	50	16	27	34	M12	160	49
HSK-A 50 SFH18 095 2.5G 25000 SL	K10166282145209	50	18	33	40	M12	95	49
HSK-A 50 SFH18 120 2.5G 25000 SL	K10166282162209	50	18	33	40	M12	120	49
HSK-A 50 SFH18 130 2.5G 25000 SL	K10166282165283	50	18	33	40	M12	130	49
HSK-A 50 SFH18 160 2.5G 25000 SL	K10166282175209	50	18	33	40	M12	160	49

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



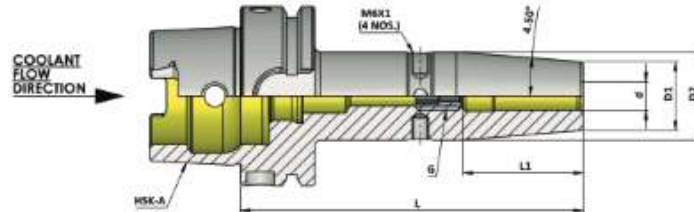
HSK-A (DIN 69893-1) (SFH 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 50 SFH20 100 2.5G 25000 SL	K10166283148209	50	20	33	40	M16	100	51
HSK-A 50 SFH20 120 2.5G 25000 SL	K10166283162209	50	20	33	40	M16	120	51
HSK-A 50 SFH20 130 2.5G 25000 SL	K10166283165283	50	20	33	40	M16	130	51
HSK-A 50 SFH20 160 2.5G 25000 SL	K10166283175209	50	20	33	40	M16	160	51
HSK-A 50 SFH1/8" 080 2.5G 25000 SL	K10306978131283	50	1/8"	10	20	—	80	12
HSK-A 50 SFH1/8" 120 2.5G 25000 SL	K10306978162283	50	1/8"	10	20	—	120	12
HSK-A 50 SFH1/8" 130 2.5G 25000 SL	K10306978165283	50	1/8"	10	20	—	130	12
HSK-A 50 SFH1/8" 160 2.5G 25000 SL	K10306978175283	50	1/8"	10	20	—	160	12
HSK-A 50 SFH3/16" 080 2.5G 25000 SL	K10306979131283	50	3/16"	15	22	—	80	14
HSK-A 50 SFH3/16" 120 2.5G 25000 SL	K10306979162283	50	3/16"	15	22	—	120	14
HSK-A 50 SFH3/16" 130 2.5G 25000 SL	K10306979165283	50	3/16"	15	22	—	130	14
HSK-A 50 SFH3/16" 160 2.5G 25000 SL	K10306979175283	50	3/16"	15	22	—	160	14
HSK-A 50 SFH1/4" 080 2.5G 25000 SL	K10306980131283	50	1/4"	21	27	M5	80	36
HSK-A 50 SFH1/4" 120 2.5G 25000 SL	K10306980162283	50	1/4"	21	27	M5	120	36
HSK-A 50 SFH1/4" 130 2.5G 25000 SL	K10306980165283	50	1/4"	21	27	M5	130	36
HSK-A 50 SFH1/4" 160 2.5G 25000 SL	K10306980175283	50	1/4"	21	27	M5	160	36
HSK-A 50 SFH5/16" 080 2.5G 25000 SL	K10306981131283	50	5/16"	21	27	M6	80	36
HSK-A 50 SFH5/16" 120 2.5G 25000 SL	K10306981162283	50	5/16"	21	27	M6	120	36
HSK-A 50 SFH5/16" 130 2.5G 25000 SL	K10306981165283	50	5/16"	21	27	M6	130	36
HSK-A 50 SFH5/16" 160 2.5G 25000 SL	K10306981175283	50	5/16"	21	27	M6	160	36
HSK-A 50 SFH3/8" 085 2.5G 25000 SL	K10306982135283	50	3/8"	24	31	M8	85	41
HSK-A 50 SFH3/8" 120 2.5G 25000 SL	K10306982162283	50	3/8"	24	31	M8	120	41
HSK-A 50 SFH3/8" 130 2.5G 25000 SL	K10306982165283	50	3/8"	24	31	M8	130	41
HSK-A 50 SFH3/8" 160 2.5G 25000 SL	K10306982175283	50	3/8"	24	31	M8	160	41
HSK-A 50 SFH1/2" 090 2.5G 25000 SL	K10306983140283	50	1/2"	24	31	M10	90	46
HSK-A 50 SFH1/2" 120 2.5G 25000 SL	K10306983162283	50	1/2"	24	31	M10	120	46
HSK-A 50 SFH1/2" 130 2.5G 25000 SL	K10306983165283	50	1/2"	24	31	M10	130	46
HSK-A 50 SFH1/2" 160 2.5G 25000 SL	K10306983175283	50	1/2"	24	31	M10	160	46
HSK-A 50 SFH5/8" 095 2.5G 25000 SL	K10166984140283	50	5/8"	27	34	M12	95	49
HSK-A 50 SFH5/8" 120 2.5G 25000 SL	K10166984162283	50	5/8"	27	34	M12	120	49
HSK-A 50 SFH5/8" 130 2.5G 25000 SL	K10306984165283	50	5/8"	27	34	M12	130	49
HSK-A 50 SFH5/8" 160 2.5G 25000 SL	K10166984175283	50	5/8"	27	34	M12	160	49
HSK-A 50 SFH3/4" 100 2.5G 25000 SL	K10166985148283	50	3/4"	33	40	M16	100	51
HSK-A 50 SFH3/4" 120 2.5G 25000 SL	K10166985162283	50	3/4"	33	40	M16	120	51
HSK-A 50 SFH3/4" 130 2.5G 25000 SL	K10306985165283	50	3/4"	33	40	M16	130	51
HSK-A 50 SFH3/4" 160 2.5G 25000 SL	K10166985175283	50	3/4"	33	40	M16	160	51

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



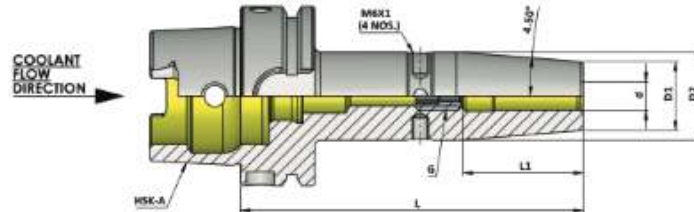
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH03 080 2.5G 25000 SL	K10167274131209	63	3	10	20	—	80	12
HSK-A 63 SFH03 120 2.5G 25000 SL	K10167274162209	63	3	10	20	—	120	12
HSK-A 63 SFH03 130 2.5G 25000 SL	K10316274165283	63	3	10	20	—	130	12
HSK-A 63 SFH03 160 2.5G 25000 SL	K10167274175209	63	3	10	20	—	160	12
HSK-A 63 SFH04 080 2.5G 25000 SL	K10167275131209	63	4	15	22	—	80	14
HSK-A 63 SFH04 120 2.5G 25000 SL	K10167275162209	63	4	15	22	—	120	14
HSK-A 63 SFH04 130 2.5G 25000 SL	K10316275165283	63	4	15	22	—	130	14
HSK-A 63 SFH04 160 2.5G 25000 SL	K10167275175209	63	4	15	22	—	160	14
HSK-A 63 SFH05 080 2.5G 25000 SL	K10167276131209	63	5	15	22	—	80	15
HSK-A 63 SFH05 120 2.5G 25000 SL	K10167276162209	63	5	15	22	—	120	15
HSK-A 63 SFH05 130 2.5G 25000 SL	K10316276165283	63	5	15	22	—	130	15
HSK-A 63 SFH05 160 2.5G 25000 SL	K10167276175209	63	5	15	22	—	160	15
HSK-A 63 SFH06 080 2.5G 25000 SL	K10167277131209	63	6	21	27	M5	80	36
HSK-A 63 SFH06 120 2.5G 25000 SL	K10167277162209	63	6	21	27	M5	120	36
HSK-A 63 SFH06 130 2.5G 25000 SL	K10316277165283	63	6	21	27	M5	130	36
HSK-A 63 SFH06 160 2.5G 25000 SL	K10167277175209	63	6	21	27	M5	160	36
HSK-A 63 SFH06 200 2.5G 25000 SL	K10305277239227	63	6	21	27	M5	200	36
HSK-A 63 SFH08 080 2.5G 25000 SL	K10167285131209	63	8	21	27	M6	80	36
HSK-A 63 SFH08 120 2.5G 25000 SL	K10167285162209	63	8	21	27	M6	120	36
HSK-A 63 SFH08 130 2.5G 25000 SL	K10316285165283	63	8	21	27	M6	130	36
HSK-A 63 SFH08 160 2.5G 25000 SL	K10167285175209	63	8	21	27	M6	160	36
HSK-A 63 SFH08 200 2.5G 25000 SL	K10305285239227	63	8	21	27	M6	200	36
HSK-A 63 SFH10 085 2.5G 25000 SL	K10167279135209	63	10	24	31	M8	85	41
HSK-A 63 SFH10 120 2.5G 25000 SL	K10167279162209	63	10	24	31	M8	120	41
HSK-A 63 SFH10 130 2.5G 25000 SL	K10316279165283	63	10	24	31	M8	130	41
HSK-A 63 SFH10 160 2.5G 25000 SL	K10167279175209	63	10	24	31	M8	160	41
HSK-A 63 SFH10 200 2.5G 25000 SL	K10305279239227	63	10	24	31	M8	200	41
HSK-A 63 SFH12 090 2.5G 25000 SL	K10167280140209	63	12	24	31	M10	90	46
HSK-A 63 SFH12 120 2.5G 25000 SL	K10167280162209	63	12	24	31	M10	120	46
HSK-A 63 SFH12 130 2.5G 25000 SL	K10316280165283	63	12	24	31	M10	130	46
HSK-A 63 SFH12 160 2.5G 25000 SL	K10167280175209	63	12	24	31	M10	160	46
HSK-A 63 SFH12 200 2.5G 25000 SL	K10305280239227	63	12	24	31	M10	200	46
HSK-A 63 SFH14 090 2.5G 25000 SL	K10167284140209	63	14	27	34	M10	90	46
HSK-A 63 SFH14 120 2.5G 25000 SL	K10167284162209	63	14	27	34	M10	120	46
HSK-A 63 SFH14 130 2.5G 25000 SL	K10316284165283	63	14	27	34	M10	130	46
HSK-A 63 SFH14 160 2.5G 25000 SL	K10167284175209	63	14	27	34	M10	160	46
HSK-A 63 SFH14 200 2.5G 25000 SL	K10305284239227	63	14	27	34	M10	200	46

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



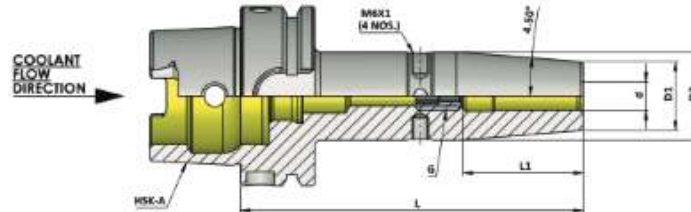
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH16 095 2.5G 25000 SL	K10167281145209	63	16	27	34	M12	95	49
HSK-A 63 SFH16 120 2.5G 25000 SL	K10167281162209	63	16	27	34	M12	120	49
HSK-A 63 SFH16 130 2.5G 25000 SL	K10316281165283	63	16	27	34	M12	130	49
HSK-A 63 SFH16 160 2.5G 25000 SL	K10167281175209	63	16	27	34	M12	160	49
HSK-A 63 SFH16 200 2.5G 25000 SL	K10305281239227	63	16	27	34	M12	200	49
HSK-A 63 SFH18 095 2.5G 25000 SL	K10167282145209	63	18	33	40	M12	95	49
HSK-A 63 SFH18 120 2.5G 25000 SL	K10167282162209	63	18	33	40	M12	120	49
HSK-A 63 SFH18 130 2.5G 25000 SL	K10316282165283	63	18	33	40	M12	130	49
HSK-A 63 SFH18 160 2.5G 25000 SL	K10167282175209	63	18	33	40	M12	160	49
HSK-A 63 SFH18 200 2.5G 25000 SL	K10305282239227	63	18	33	40	M12	200	49
HSK-A 63 SFH20 100 2.5G 25000 SL	K10167283148209	63	20	33	40	M16	100	51
HSK-A 63 SFH20 120 2.5G 25000 SL	K10167283162209	63	20	33	40	M16	120	51
HSK-A 63 SFH20 130 2.5G 25000 SL	K10316283165283	63	20	33	40	M16	130	51
HSK-A 63 SFH20 160 2.5G 25000 SL	K10167283175209	63	20	33	40	M16	160	51
HSK-A 63 SFH20 200 2.5G 25000 SL	K10316283239283	63	20	33	40	M16	200	51
HSK-A 63 SFH25 115 2.5G 25000 SL	K10167287159209	63	25	44	53	M16	115	57
HSK-A 63 SFH25 120 2.5G 25000 SL	K10167287162209	63	25	44	53	M16	120	57
HSK-A 63 SFH25 130 2.5G 25000 SL	K10316287165283	63	25	44	53	M16	130	57
HSK-A 63 SFH25 160 2.5G 25000 SL	K10167287175209	63	25	44	53	M16	160	57
HSK-A 63 SFH25 200 2.5G 25000 SL	K10305287239227	63	25	44	53	M16	200	57
HSK-A 63 SFH32 120 2.5G 25000 SL	K10167288162209	63	32	44	53	M16	120	61
HSK-A 63 SFH32 130 2.5G 25000 SL	K10316288165283	63	32	44	53	M16	130	61
HSK-A 63 SFH32 160 2.5G 25000 SL	K10167288175209	63	32	44	53	M16	160	61
HSK-A 63 SFH32 200 2.5G 25000 SL	K10305288239227	63	32	44	53	M16	200	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



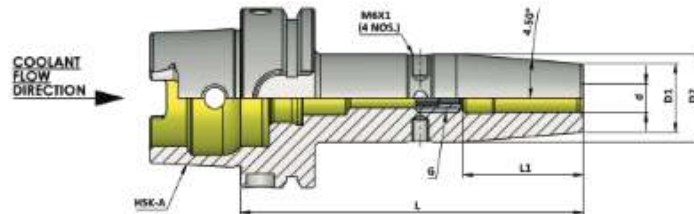
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH1/8" 080 AD/ 2.5G 25000 SL	K10305978131282	63	1/8"	10	20	—	80	12
HSK-A 63 SFH1/8" 120 AD/ 2.5G 25000 SL	K10305978162282	63	1/8"	10	20	—	120	12
HSK-A 63 SFH1/8" 130 AD/ 2.5G 25000 SL	K10305978165283	63	1/8"	10	20	—	130	12
HSK-A 63 SFH1/8" 160 AD/ 2.5G 25000 SL	K10305978175282	63	1/8"	10	20	—	160	12
HSK-A 63 SFH3/16" 080 AD/ 2.5G 25000 SL	K10305979131282	63	3/16"	15	22	—	80	14
HSK-A 63 SFH3/16" 120 AD/ 2.5G 25000 SL	K10305979162282	63	3/16"	15	22	—	120	14
HSK-A 63 SFH3/16" 130 AD/ 2.5G 25000 SL	K10305979165283	63	3/16"	15	22	—	130	14
HSK-A 63 SFH3/16" 160 AD/ 2.5G 25000 SL	K10305979175282	63	3/16"	15	22	—	160	14
HSK-A 63 SFH1/4" 080 AD/ 2.5G 25000 SL	K10305980131282	63	1/4"	21	27	M5	80	36
HSK-A 63 SFH1/4" 120 AD/ 2.5G 25000 SL	K10305980162282	63	1/4"	21	27	M5	120	36
HSK-A 63 SFH1/4" 130 AD/ 2.5G 25000 SL	K10305980165282	63	1/4"	21	27	M5	130	36
HSK-A 63 SFH1/4" 160 AD/ 2.5G 25000 SL	K10305980175282	63	1/4"	21	27	M5	160	36
HSK-A 63 SFH1/4" 200 AD/ 2.5G 25000 SL	K10305980239282	63	1/4"	21	27	M5	200	36
HSK-A 63 SFH5/16" 080 AD/ 2.5G 25000 SL	K10305981131282	63	5/16"	21	27	M6	80	36
HSK-A 63 SFH5/16" 120 AD/ 2.5G 25000 SL	K10305981162282	63	5/16"	21	27	M6	120	36
HSK-A 63 SFH5/16" 130 AD/ 2.5G 25000 SL	K10305981165282	63	5/16"	21	27	M6	130	36
HSK-A 63 SFH5/16" 160 AD/ 2.5G 25000 SL	K10305981175282	63	5/16"	21	27	M6	160	36
HSK-A 63 SFH5/16" 200 AD/ 2.5G 25000 SL	K10305981239282	63	5/16"	21	27	M6	200	36
HSK-A 63 SFH3/8" 085 AD/ 2.5G 25000 SL	K10305982135282	63	3/8"	24	31	M8	85	41
HSK-A 63 SFH3/8" 120 AD/ 2.5G 25000 SL	K10305982162282	63	3/8"	24	31	M8	120	41
HSK-A 63 SFH3/8" 130 AD/ 2.5G 25000 SL	K10305982165282	63	3/8"	24	31	M8	130	41
HSK-A 63 SFH3/8" 160 AD/ 2.5G 25000 SL	K10305982175282	63	3/8"	24	31	M8	160	41
HSK-A 63 SFH3/8" 200 AD/ 2.5G 25000 SL	K10305982239282	63	3/8"	24	31	M8	200	41
HSK-A 63 SFH1/2" 090 AD/ 2.5G 25000 SL	K10305983140282	63	1/2"	24	31	M10	90	46
HSK-A 63 SFH1/2" 120 AD/ 2.5G 25000 SL	K10305983162282	63	1/2"	24	31	M10	120	46
HSK-A 63 SFH1/2" 130 AD/ 2.5G 25000 SL	K10305983165282	63	1/2"	24	31	M10	130	46
HSK-A 63 SFH1/2" 160 AD/ 2.5G 25000 SL	K10305983175282	63	1/2"	24	31	M10	160	46
HSK-A 63 SFH1/2" 200 AD/ 2.5G 25000 SL	K10305983239282	63	1/2"	24	31	M10	200	46
HSK-A 63 SFH5/8" 095 AD/ 2.5G 25000 SL	K10305984145282	63	5/8"	27	34	M12	95	49
HSK-A 63 SFH5/8" 120 AD/ 2.5G 25000 SL	K10305984162282	63	5/8"	27	34	M12	120	49
HSK-A 63 SFH5/8" 130 AD/ 2.5G 25000 SL	K10305984165282	63	5/8"	27	34	M12	130	49
HSK-A 63 SFH5/8" 160 AD/ 2.5G 25000 SL	K10305984175282	63	5/8"	27	34	M12	160	49
HSK-A 63 SFH5/8" 200 AD/ 2.5G 25000 SL	K10305984239282	63	5/8"	27	34	M12	200	49

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



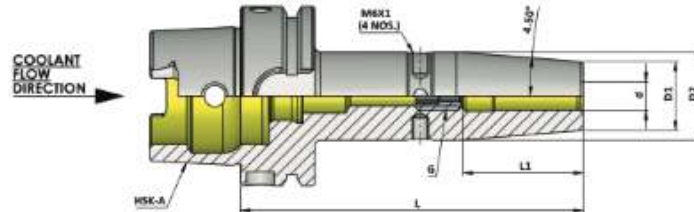
HSK-A (DIN 69893-1) (SFH 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH3/4" 100 AD/ 2.5G 25000 SL	K10305985148282	63	3/4"	33	40	M16	100	51
HSK-A 63 SFH3/4" 120 AD/ 2.5G 25000 SL	K10305985162282	63	3/4"	33	40	M16	120	51
HSK-A 63 SFH3/4" 130 AD/ 2.5G 25000 SL	K10305985165282	63	3/4"	33	40	M16	130	51
HSK-A 63 SFH3/4" 160 AD/ 2.5G 25000 SL	K10305985175282	63	3/4"	33	40	M16	160	51
HSK-A 63 SFH3/4" 200 AD/ 2.5G 25000 SL	K10305985239282	63	3/4"	33	40	M16	200	51
HSK-A 63 SFH1.0" 115 AD/ 2.5G 25000 SL	K10305986159282	63	1.0"	44	53	M16	115	57
HSK-A 63 SFH1.0" 120 AD/ 2.5G 25000 SL	K10305986162282	63	1.0"	44	53	M16	120	57
HSK-A 63 SFH1.0" 130 AD/ 2.5G 25000 SL	K10305986165282	63	1.0"	44	53	M16	130	57
HSK-A 63 SFH1.0" 160 AD/ 2.5G 25000 SL	K10305986175282	63	1.0"	44	53	M16	160	57
HSK-A 63 SFH1.0" 200 AD/ 2.5G 25000 SL	K10305986239282	63	1.0"	44	53	M16	200	57
HSK-A 63 SFH1-1/4" 120 AD/ 2.5G 25000 SL	K10305987162282	63	1-1/4"	44	53	M16	120	61
HSK-A 63 SFH1-1/4" 130 AD/ 2.5G 25000 SL	K10305987165282	63	1-1/4"	44	53	M16	130	61
HSK-A 63 SFH1-1/4" 160 AD/ 2.5G 25000 SL	K10305987175282	63	1-1/4"	44	53	M16	160	61
HSK-A 63 SFH1-1/4" 200 AD/ 2.5G 25000 SL	K10305987239282	63	1-1/4"	44	53	M16	200	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



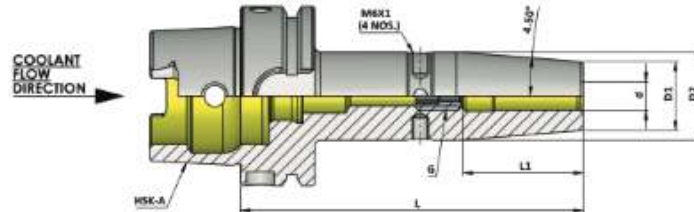
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 80 SFH06 085 2.5G 25000 SL	K10320277135283	80	6	21	27	M5	85	36
HSK-A 80 SFH06 120 2.5G 25000 SL	K10320277162283	80	6	21	27	M5	120	36
HSK-A 80 SFH06 160 2.5G 25000 SL	K10320277175283	80	6	21	27	M5	160	36
HSK-A 80 SFH08 085 2.5G 25000 SL	K10320285135283	80	8	21	27	M6	85	36
HSK-A 80 SFH08 120 2.5G 25000 SL	K10320285162283	80	8	21	27	M6	120	36
HSK-A 80 SFH08 160 2.5G 25000 SL	K10320285175283	80	8	21	27	M6	160	36
HSK-A 80 SFH10 090 2.5G 25000 SL	K10320279140283	80	10	24	31	M8	90	41
HSK-A 80 SFH10 120 2.5G 25000 SL	K10320279162283	80	10	24	31	M8	120	41
HSK-A 80 SFH10 160 2.5G 25000 SL	K10320279175283	80	10	24	31	M8	160	41
HSK-A 80 SFH12 095 2.5G 25000 SL	K10320280145283	80	12	24	31	M10	95	46
HSK-A 80 SFH12 120 2.5G 25000 SL	K10320280162283	80	12	24	31	M10	120	46
HSK-A 80 SFH12 160 2.5G 25000 SL	K10320280175283	80	12	24	31	M10	160	46
HSK-A 80 SFH14 095 2.5G 25000 SL	K10320284145283	80	14	27	34	M10	95	46
HSK-A 80 SFH14 120 2.5G 25000 SL	K10320284162283	80	14	27	34	M10	120	46
HSK-A 80 SFH14 160 2.5G 25000 SL	K10320284175283	80	14	27	34	M10	160	46
HSK-A 80 SFH16 100 2.5G 25000 SL	K10320281148283	80	16	27	34	M12	100	49
HSK-A 80 SFH16 120 2.5G 25000 SL	K10320281162283	80	16	27	34	M12	120	49
HSK-A 80 SFH16 160 2.5G 25000 SL	K10320281175283	80	16	27	34	M12	160	49
HSK-A 80 SFH18 100 2.5G 25000 SL	K10320282148283	80	18	33	40	M12	100	49
HSK-A 80 SFH18 120 2.5G 25000 SL	K10320282162283	80	18	33	40	M12	120	49
HSK-A 80 SFH18 160 2.5G 25000 SL	K10320282175283	80	18	33	40	M12	160	49
HSK-A 80 SFH20 105 2.5G 25000 SL	K10320283152283	80	20	33	40	M16	105	51
HSK-A 80 SFH20 120 2.5G 25000 SL	K10320283162283	80	20	33	40	M16	120	51
HSK-A 80 SFH20 160 2.5G 25000 SL	K10320283175283	80	20	33	40	M16	160	51
HSK-A 80 SFH25 115 2.5G 25000 SL	K10320287159283	80	25	44	53	M16	115	57
HSK-A 80 SFH25 120 2.5G 25000 SL	K10320287162283	80	25	44	53	M16	120	57
HSK-A 80 SFH25 160 2.5G 25000 SL	K10320287175283	80	25	44	53	M16	160	57
HSK-A 80 SFH32 120 2.5G 25000 SL	K10320288162283	80	32	44	53	M16	120	61
HSK-A 80 SFH32 160 2.5G 25000 SL	K10320288175283	80	32	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



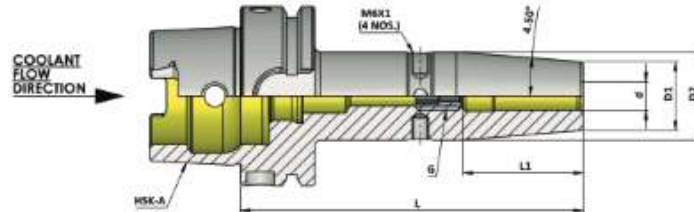
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 80 SFH1/4" 085 2.5G 25000 SL	K10320980135283	80	1/4"	21	27	M5	85	36
HSK-A 80 SFH1/4" 120 2.5G 25000 SL	K10320980162283	80	1/4"	21	27	M5	120	36
HSK-A 80 SFH1/4" 160 2.5G 25000 SL	K10320980175283	80	1/4"	21	27	M5	160	36
HSK-A 80 SFH5/16" 085 2.5G 25000 SL	K10320981135283	80	5/16"	21	27	M6	85	36
HSK-A 80 SFH5/16" 120 2.5G 25000 SL	K10320981162283	80	5/16"	21	27	M6	120	36
HSK-A 80 SFH5/16" 160 2.5G 25000 SL	K10320981175283	80	5/16"	21	27	M6	160	36
HSK-A 80 SFH3/8" 090 2.5G 25000 SL	K10320982140283	80	3/8"	24	31	M8	90	41
HSK-A 80 SFH3/8" 120 2.5G 25000 SL	K10320982162283	80	3/8"	24	31	M8	120	41
HSK-A 80 SFH3/8" 160 2.5G 25000 SL	K10320982175283	80	3/8"	24	31	M8	160	41
HSK-A 80 SFH1/2" 095 2.5G 25000 SL	K10320983145283	80	1/2"	24	31	M10	95	46
HSK-A 80 SFH1/2" 120 2.5G 25000 SL	K10320983162283	80	1/2"	24	31	M10	120	46
HSK-A 80 SFH1/2" 160 2.5G 25000 SL	K10320983175283	80	1/2"	24	31	M10	160	46
HSK-A 80 SFH5/8" 100 2.5G 25000 SL	K10320984200283	80	5/8"	27	34	M12	100	49
HSK-A 80 SFH5/8" 120 2.5G 25000 SL	K10320984162283	80	5/8"	27	34	M12	120	49
HSK-A 80 SFH5/8" 160 2.5G 25000 SL	K10320984175283	80	5/8"	27	34	M12	160	49
HSK-A 80 SFH3/4" 105 2.5G 25000 SL	K10320985152283	80	3/4"	33	40	M16	105	51
HSK-A 80 SFH3/4" 120 2.5G 25000 SL	K10320985162283	80	3/4"	33	40	M16	120	51
HSK-A 80 SFH3/4" 160 2.5G 25000 SL	K10320985175283	80	3/4"	33	40	M16	160	51
HSK-A 80 SFH1.0" 115 2.5G 25000 SL	K10320986159283	80	1.0"	44	53	M16	115	57
HSK-A 80 SFH1.0" 120 2.5G 25000 SL	K10320986162283	80	1.0"	44	53	M16	120	57
HSK-A 80 SFH1.0" 160 2.5G 25000 SL	K10320986175283	80	1.0"	44	53	M16	160	57
HSK-A 80 SFH1-1/4" 120 2.5G 25000 SL	K10320987162283	80	1-1/4"	44	53	M16	120	61
HSK-A 80 SFH1-1/4" 160 2.5G 25000 SL	K10320987175283	80	1-1/4"	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



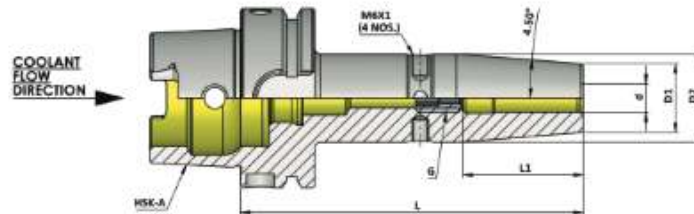
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 100 SFH06 085 2.5G 25000 SL	K10168277135209	100	6	21	27	M5	85	36
HSK-A 100 SFH06 120 2.5G 25000 SL	K10168277162209	100	6	21	27	M5	120	36
HSK-A 100 SFH06 130 2.5G 25000 SL	K10168277165283	100	6	21	27	M5	130	36
HSK-A 100 SFH06 160 2.5G 25000 SL	K10168277175209	100	6	21	27	M5	160	36
HSK-A 100 SFH06 200 2.5G 25000 SL	K10168277239227	100	6	21	27	M5	200	36
HSK-A 100 SFH08 085 2.5G 25000 SL	K10168285135209	100	8	21	27	M6	85	36
HSK-A 100 SFH08 120 2.5G 25000 SL	K10168285162209	100	8	21	27	M6	120	36
HSK-A 100 SFH08 130 2.5G 25000 SL	K10168285165283	100	8	21	27	M6	130	36
HSK-A 100 SFH08 160 2.5G 25000 SL	K10168285175209	100	8	21	27	M6	160	36
HSK-A 100 SFH08 200 2.5G 25000 SL	K10168285239227	100	8	21	27	M6	200	36
HSK-A 100 SFH10 090 2.5G 25000 SL	K10168279140209	100	10	24	31	M8	90	41
HSK-A 100 SFH10 120 2.5G 25000 SL	K10168279162209	100	10	24	31	M8	120	41
HSK-A 100 SFH10 130 2.5G 25000 SL	K10168279165283	100	10	24	31	M8	130	41
HSK-A 100 SFH10 160 2.5G 25000 SL	K10168279175209	100	10	24	31	M8	160	41
HSK-A 100 SFH10 200 2.5G 25000 SL	K10168279239227	100	10	24	31	M8	200	41
HSK-A 100 SFH12 095 2.5G 25000 SL	K10168280145209	100	12	24	31	M10	95	46
HSK-A 100 SFH12 120 2.5G 25000 SL	K10168280162209	100	12	24	31	M10	120	46
HSK-A 100 SFH12 130 2.5G 25000 SL	K10168280165283	100	12	24	31	M10	130	46
HSK-A 100 SFH12 160 2.5G 25000 SL	K10168280175209	100	12	24	31	M10	160	46
HSK-A 100 SFH12 200 2.5G 25000 SL	K10168280239227	100	12	24	31	M10	200	46
HSK-A 100 SFH14 095 2.5G 25000 SL	K10168284145209	100	14	27	34	M10	95	46
HSK-A 100 SFH14 120 2.5G 25000 SL	K10168284162209	100	14	27	34	M10	120	46
HSK-A 100 SFH14 130 2.5G 25000 SL	K10168284165283	100	14	27	34	M10	130	46
HSK-A 100 SFH14 160 2.5G 25000 SL	K10168284175209	100	14	27	34	M10	160	46
HSK-A 100 SFH14 200 2.5G 25000 SL	K10168284239227	100	14	27	34	M10	200	46
HSK-A 100 SFH16 100 2.5G 25000 SL	K10168281148209	100	16	27	34	M12	100	49
HSK-A 100 SFH16 120 2.5G 25000 SL	K10168281162209	100	16	27	34	M12	120	49
HSK-A 100 SFH16 130 2.5G 25000 SL	K10168281165283	100	16	27	34	M12	130	49
HSK-A 100 SFH16 160 2.5G 25000 SL	K10168281175209	100	16	27	34	M12	160	49
HSK-A 100 SFH16 200 2.5G 25000 SL	K10168281239227	100	16	27	34	M12	200	49
HSK-A 100 SFH18 100 2.5G 25000 SL	K10168282148209	100	18	33	40	M12	100	49
HSK-A 100 SFH18 120 2.5G 25000 SL	K10168282162209	100	18	33	40	M12	120	49
HSK-A 100 SFH18 130 2.5G 25000 SL	K10168282165283	100	18	33	40	M12	130	49
HSK-A 100 SFH18 160 2.5G 25000 SL	K10168282175209	100	18	33	40	M12	160	49
HSK-A 100 SFH18 200 2.5G 25000 SL	K10168282239227	100	18	33	40	M12	200	49

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



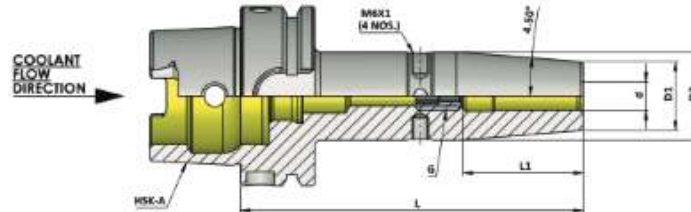
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 100 SFH20 105 2.5G 25000 SL	K10168283152209	100	20	33	40	M16	105	51
HSK-A 100 SFH20 120 2.5G 25000 SL	K10168283162209	100	20	33	40	M16	120	51
HSK-A 100 SFH20 130 2.5G 25000 SL	K10168283165283	100	20	33	40	M16	130	51
HSK-A 100 SFH20 160 2.5G 25000 SL	K10168283175209	100	20	33	40	M16	160	51
HSK-A 100 SFH20 200 2.5G 25000 SL	K10168283239227	100	20	33	40	M16	200	51
HSK-A 100 SFH25 115 2.5G 25000 SL	K10168287159209	100	25	44	53	M16	115	57
HSK-A 100 SFH25 120 2.5G 25000 SL	K10168287162209	100	25	44	53	M16	120	57
HSK-A 100 SFH25 130 2.5G 25000 SL	K10168287165283	100	25	44	53	M16	130	57
HSK-A 100 SFH25 160 2.5G 25000 SL	K10168287175209	100	25	44	53	M16	160	57
HSK-A 100 SFH25 200 2.5G 25000 SL	K10168287239227	100	25	44	53	M16	200	57
HSK-A 100 SFH32 120 2.5G 25000 SL	K10168288162209	100	32	44	53	M16	120	61
HSK-A 100 SFH32 130 2.5G 25000 SL	K10168288165283	100	32	44	53	M16	130	61
HSK-A 100 SFH32 160 2.5G 25000 SL	K10168288175209	100	32	44	53	M16	160	61
HSK-A 100 SFH32 200 2.5G 25000 SL	K10168288239227	100	32	44	53	M16	200	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

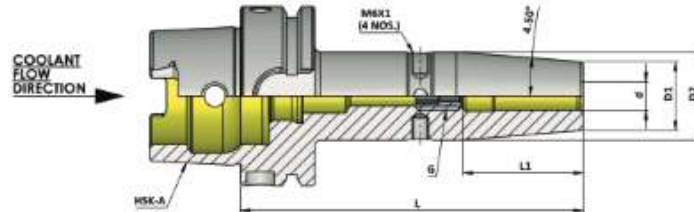


HSK-A (DIN 69893-1) (SFH 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 100 SFH1/4" 085 AD/ 2.5G 25000 SL	K10168980135282	100	1/4"	21	27	M5	85	36
HSK-A 100 SFH1/4" 120 AD/ 2.5G 25000 SL	K10168980162282	100	1/4"	21	27	M5	120	36
HSK-A 100 SFH1/4" 130 AD/ 2.5G 25000 SL	K10168980165283	100	1/4"	21	27	M5	130	36
HSK-A 100 SFH1/4" 160 AD/ 2.5G 25000 SL	K10168980175282	100	1/4"	21	27	M5	160	36
HSK-A 100 SFH1/4" 200 AD/ 2.5G 25000 SL	K10168980239282	100	1/4"	21	27	M5	200	36
HSK-A 100 SFH5/16" 085 AD/ 2.5G 25000 SL	K10168981135282	100	5/16"	21	27	M6	85	36
HSK-A 100 SFH5/16" 120 AD/ 2.5G 25000 SL	K10168981162282	100	5/16"	21	27	M6	120	36
HSK-A 100 SFH5/16" 130 AD/ 2.5G 25000 SL	K10168981165282	100	5/16"	21	27	M6	130	36
HSK-A 100 SFH5/16" 160 AD/ 2.5G 25000 SL	K10168981175282	100	5/16"	21	27	M6	160	36
HSK-A 100 SFH5/16" 200 AD/ 2.5G 25000 SL	K10168981239282	100	5/16"	21	27	M6	200	36
HSK-A 100 SFH3/8" 090 AD/ 2.5G 25000 SL	K10168982140282	100	3/8"	24	31	M8	90	41
HSK-A 100 SFH3/8" 120 AD/ 2.5G 25000 SL	K10168982162282	100	3/8"	24	31	M8	120	41
HSK-A 100 SFH3/8" 130 AD/ 2.5G 25000 SL	K10168982165282	100	3/8"	24	31	M8	130	41
HSK-A 100 SFH3/8" 160 AD/ 2.5G 25000 SL	K10168982175282	100	3/8"	24	31	M8	160	41
HSK-A 100 SFH3/8" 200 AD/ 2.5G 25000 SL	K10168982239282	100	3/8"	24	31	M8	200	41
HSK-A 100 SFH1/2" 095 AD/ 2.5G 25000 SL	K10168983145282	100	1/2"	24	31	M10	95	46
HSK-A 100 SFH1/2" 120 AD/ 2.5G 25000 SL	K10168983162282	100	1/2"	24	31	M10	120	46
HSK-A 100 SFH1/2" 130 AD/ 2.5G 25000 SL	K10168983165282	100	1/2"	24	31	M10	130	46
HSK-A 100 SFH1/2" 160 AD/ 2.5G 25000 SL	K10168983175282	100	1/2"	24	31	M10	160	46
HSK-A 100 SFH1/2" 200 AD/ 2.5G 25000 SL	K10168983239282	100	1/2"	24	31	M10	200	46
HSK-A 100 SFH5/8" 100 AD/ 2.5G 25000 SL	K10168984148282	100	5/8"	27	34	M12	100	49
HSK-A 100 SFH5/8" 120 AD/ 2.5G 25000 SL	K10168984162282	100	5/8"	27	34	M12	120	49
HSK-A 100 SFH5/8" 130 AD/ 2.5G 25000 SL	K10168984165282	100	5/8"	27	34	M12	130	49
HSK-A 100 SFH5/8" 160 AD/ 2.5G 25000 SL	K10168984175282	100	5/8"	27	34	M12	160	49
HSK-A 100 SFH5/8" 200 AD/ 2.5G 25000 SL	K10168984239282	100	5/8"	27	34	M12	200	49
HSK-A 100 SFH3/4" 105 AD/ 2.5G 25000 SL	K10168985152282	100	3/4"	33	40	M16	105	51
HSK-A 100 SFH3/4" 120 AD/ 2.5G 25000 SL	K10168985162282	100	3/4"	33	40	M16	120	51
HSK-A 100 SFH3/4" 130 AD/ 2.5G 25000 SL	K10168985165282	100	3/4"	33	40	M16	130	51
HSK-A 100 SFH3/4" 160 AD/ 2.5G 25000 SL	K10168985175282	100	3/4"	33	40	M16	160	51
HSK-A 100 SFH3/4" 200 AD/ 2.5G 25000 SL	K10168985239282	100	3/4"	33	40	M16	200	51
HSK-A 100 SFH1.0" 115 AD/ 2.5G 25000 SL	K10168986159282	100	1.0"	44	53	M16	115	57
HSK-A 100 SFH1.0" 120 AD/ 2.5G 25000 SL	K10168986162282	100	1.0"	44	53	M16	120	57
HSK-A 100 SFH1.0" 130 AD/ 2.5G 25000 SL	K10168986165282	100	1.0"	44	53	M16	130	57
HSK-A 100 SFH1.0" 160 AD/ 2.5G 25000 SL	K10168986175282	100	1.0"	44	53	M16	160	57
HSK-A 100 SFH1.0" 200 AD/ 2.5G 25000 SL	K10168986239282	100	1.0"	44	53	M16	200	57
HSK-A 100 SFH1-1/4" 120 AD/ 2.5G 25000 SL	K10168987162282	100	1-1/4"	44	53	M16	120	61
HSK-A 100 SFH1-1/4" 130 AD/ 2.5G 25000 SL	K10168987165282	100	1-1/4"	44	53	M16	130	61
HSK-A 100 SFH1-1/4" 160 AD/ 2.5G 25000 SL	K10168987175282	100	1-1/4"	44	53	M16	160	61
HSK-A 100 SFH1-1/4" 200 AD/ 2.5G 25000 SL	K10168987239282	100	1-1/4"	44	53	M16	200	61

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



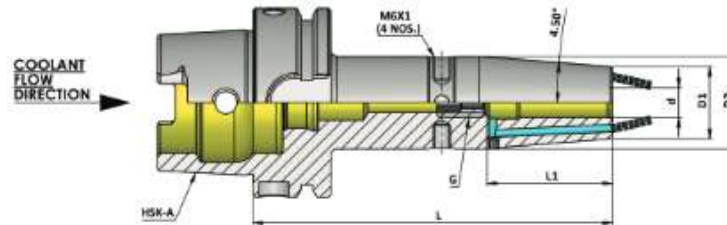
HSK-A (DIN 69893-1) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 125 SFH10 130 2.5G 25000 SL	K10382279165283	125	10	24	31	M8	130	41
HSK-A 125 SFH10 160 2.5G 25000 SL	K10382279175283	125	10	24	31	M8	160	41
HSK-A 125 SFH10 200 2.5G 25000 SL	K10382279239283	125	10	24	31	M8	200	41
HSK-A 125 SFH12 130 2.5G 25000 SL	K10382280165283	125	12	24	31	M10	130	46
HSK-A 125 SFH12 160 2.5G 25000 SL	K10382280175283	125	12	24	31	M10	160	46
HSK-A 125 SFH12 200 2.5G 25000 SL	K10382280239283	125	12	24	31	M10	200	46
HSK-A 125 SFH16 130 2.5G 25000 SL	K10382281165283	125	16	27	34	M12	130	49
HSK-A 125 SFH16 160 2.5G 25000 SL	K10382281175283	125	16	27	34	M12	160	49
HSK-A 125 SFH16 200 2.5G 25000 SL	K10382281239283	125	16	27	34	M12	200	49
HSK-A 125 SFH20 130 2.5G 25000 SL	K10382283165283	125	20	33	40	M16	130	51
HSK-A 125 SFH20 160 2.5G 25000 SL	K10382283175283	125	20	33	40	M16	160	51
HSK-A 125 SFH20 200 2.5G 25000 SL	K10382283239283	125	20	33	40	M16	200	51
HSK-A 125 SFH25 130 2.5G 25000 SL	K10382287165283	125	25	44	53	M16	130	57
HSK-A 125 SFH25 160 2.5G 25000 SL	K10382287175283	125	25	44	53	M16	160	57
HSK-A 125 SFH25 200 2.5G 25000 SL	K10382287239283	125	25	44	53	M16	200	57
HSK-A 125 SFH32 130 2.5G 25000 SL	K10382288165283	125	32	44	53	M16	130	61
HSK-A 125 SFH32 160 2.5G 25000 SL	K10382288175283	125	32	44	53	M16	160	61
HSK-A 125 SFH32 200 2.5G 25000 SL	K10382288239283	125	32	44	53	M16	200	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



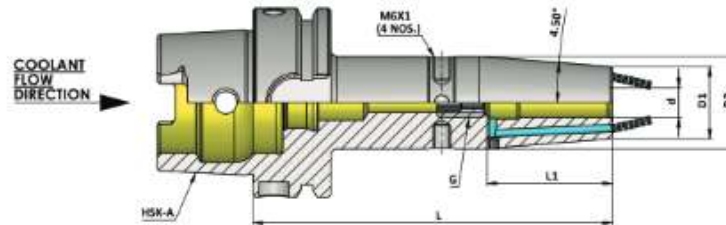
HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 32 SFH03 060 FCC 2.5G 25000 SL	K10319274117256	32	3	10	16	—	60	12
HSK-A 32 SFH04 060 FCC 2.5G 25000 SL	K10319275117256	32	4	12	18	—	60	14
HSK-A 32 SFH05 060 FCC 2.5G 25000 SL	K10319276117256	32	5	12	18	—	60	15
HSK-A 32 SFH06 070 FCC 2.5G 25000 SL	K10319277125256	32	6	21	25	M5	70	36
HSK-A 32 SFH08 070 FCC 2.5G 25000 SL	K10319285125256	32	8	21	25	M6	70	36
HSK-A 32 SFH10 070 FCC 2.5G 25000 SL	K10319279125256	32	10	24	29	M8	70	41
HSK-A 32 SFH12 080 FCC 2.5G 25000 SL	K10319280125256	32	12	24	29	M10	80	46
HSK-A 32 SFH1/8" 60 FCC / 2.5G 25000 SL	K10319978667296	32	1/8"	10	16	—	60	12
HSK-A 32 SFH3/16" 60 FCC / 2.5G 25000 SL	K10319979667296	32	3/16"	12	18	—	60	14
HSK-A 32 SFH1/4" 070 FCC / 2.5G 25000 SL	K10319980125296	32	1/4"	21	25	M5	70	36
HSK-A 32 SFH5/16" 070 FCC / 2.5G 25000 SL	K10319981125296	32	5/16"	21	25	M6	70	36
HSK-A 32 SFH3/8" 070 FCC / 2.5G 25000 SL	K10319982125296	32	3/8"	24	29	M8	70	41
HSK-A 32 SFH1/2" 080 FCC / 2.5G 25000 SL	K10319983131296	32	1/2"	24	29	M10	80	46

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



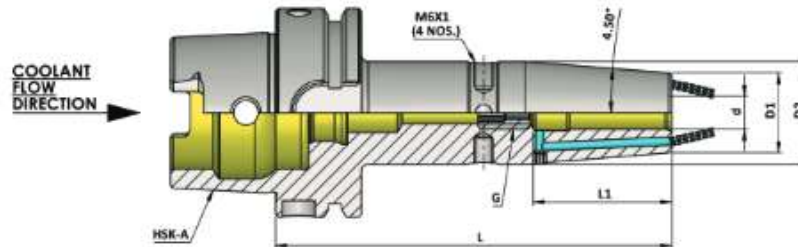
HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 40 SFH03 060 FCC 2.5G 25000 SL	K10165274117256	40	3	10	16	-	60	12
HSK-A 40 SFH03 120 FCC 2.5G 25000 SL	K10165274162256	40	3	10	16	-	120	12
HSK-A 40 SFH03 130 FCC 2.5G 25000 SL	K10165274286256	40	3	10	16	-	130	12
HSK-A 40 SFH03 160 FCC 2.5G 25000 SL	K10165274175256	40	3	10	16	-	160	12
HSK-A 40 SFH04 060 FCC 2.5G 25000 SL	K10165275117256	40	4	12	18	-	60	14
HSK-A 40 SFH04 120 FCC 2.5G 25000 SL	K10165275162256	40	4	12	20	-	120	14
HSK-A 40 SFH04 130 FCC 2.5G 25000 SL	K10165275165256	40	4	12	20	-	130	14
HSK-A 40 SFH04 160 FCC 2.5G 25000 SL	K10165275175256	40	4	12	20	-	160	14
HSK-A 40 SFH05 060 FCC 2.5G 25000 SL	K10165276117256	40	5	12	18	-	60	15
HSK-A 40 SFH05 120 FCC 2.5G 25000 SL	K10165276162256	40	5	12	22	-	120	15
HSK-A 40 SFH05 130 FCC 2.5G 25000 SL	K10165276165256	40	5	12	22	-	130	15
HSK-A 40 SFH05 160 FCC 2.5G 25000 SL	K10165276175256	40	5	12	22	-	160	15
HSK-A 40 SFH06 080 FCC 2.5G 25000 SL	K10165277131256	40	6	21	27	M5	80	36
HSK-A 40 SFH06 120 FCC 2.5G 25000 SL	K10165277162256	40	6	21	27	M5	120	36
HSK-A 40 SFH06 130 FCC 2.5G 25000 SL	K10165277165256	40	6	21	27	M5	130	36
HSK-A 40 SFH06 160 FCC 2.5G 25000 SL	K10165277175256	40	6	21	27	M5	160	36
HSK-A 40 SFH08 080 FCC 2.5G 25000 SL	K10165285131256	40	8	21	27	M6	80	36
HSK-A 40 SFH08 120 FCC 2.5G 25000 SL	K10165285162256	40	8	21	27	M6	120	36
HSK-A 40 SFH08 130 FCC 2.5G 25000 SL	K10165285165256	40	8	21	27	M6	130	36
HSK-A 40 SFH08 160 FCC 2.5G 25000 SL	K10165285175256	40	8	21	27	M6	160	36
HSK-A 40 SFH10 080 FCC 2.5G 25000 SL	K10165279131256	40	10	24	32	M8	80	41
HSK-A 40 SFH10 120 FCC 2.5G 25000 SL	K10165279162256	40	10	24	32	M8	120	41
HSK-A 40 SFH10 130 FCC 2.5G 25000 SL	K10165279165256	40	10	24	32	M8	130	41
HSK-A 40 SFH10 160 FCC 2.5G 25000 SL	K10165279175256	40	10	24	32	M8	160	41
HSK-A 40 SFH12 090 FCC 2.5G 25000 SL	K10165280140256	40	12	24	32	M10	90	46
HSK-A 40 SFH12 120 FCC 2.5G 25000 SL	K10165280162256	40	12	24	32	M10	120	46
HSK-A 40 SFH12 130 FCC 2.5G 25000 SL	K10165280165256	40	12	24	32	M10	130	46
HSK-A 40 SFH12 160 FCC 2.5G 25000 SL	K10165280175256	40	12	24	32	M10	160	46
HSK-A 40 SFH14 090 FCC 2.5G 25000 SL	K10165284140256	40	14	27	34	M10	90	46
HSK-A 40 SFH14 120 FCC 2.5G 25000 SL	K10165284162256	40	14	27	34	M10	120	46
HSK-A 40 SFH14 130 FCC 2.5G 25000 SL	K10165284165256	40	14	27	34	M10	130	46
HSK-A 40 SFH14 160 FCC 2.5G 25000 SL	K10165284175256	40	14	27	34	M10	160	46
HSK-A 40 SFH16 090 FCC 2.5G 25000 SL	K10165281140256	40	16	27	34	M12	90	49
HSK-A 40 SFH16 120 FCC 2.5G 25000 SL	K10165281162256	40	16	27	34	M12	120	49
HSK-A 40 SFH16 130 FCC 2.5G 25000 SL	K10165281165256	40	16	27	34	M12	130	49
HSK-A 40 SFH16 160 FCC 2.5G 25000 SL	K10165281175256	40	16	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



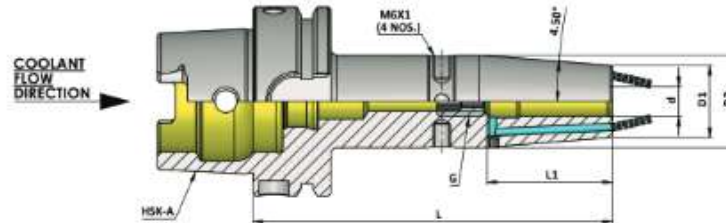
HSK-A (DIN 69893-1) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 40 SFH1/8" 60 FCC / 2.5G 25000 SL	K10165978667296	40	1/8"	10	16	-	60	12
HSK-A 40 SFH1/8" 120 FCC / 2.5G 25000 SL	K10165978162296	40	1/8"	10	16	-	120	12
HSK-A 40 SFH1/8" 130 FCC / 2.5G 25000 SL	K10165978165296	40	1/8"	10	16	-	130	12
HSK-A 40 SFH1/8" 160 FCC / 2.5G 25000 SL	K10165978175296	40	1/8"	10	16	-	160	12
HSK-A 40 SFH3/16" 60 FCC / 2.5G 25000 SL	K10165979667296	40	3/16"	12	18	-	60	14
HSK-A 40 SFH3/16" 120 FCC / 2.5G 25000 SL	K10165979162296	40	3/16"	12	20	-	120	14
HSK-A 40 SFH3/16" 130 FCC / 2.5G 25000 SL	K10165979165296	40	3/16"	12	20	-	130	14
HSK-A 40 SFH3/16" 160 FCC / 2.5G 25000 SL	K10165979175296	40	3/16"	12	20	-	160	14
HSK-A 40 SFH1/4" 080 FCC / 2.5G 25000 SL	K10165980131296	40	1/4"	21	27	M5	80	36
HSK-A 40 SFH1/4" 120 FCC / 2.5G 25000 SL	K10165980162296	40	1/4"	21	27	M5	120	36
HSK-A 40 SFH1/4" 130 FCC / 2.5G 25000 SL	K10165980165296	40	1/4"	21	27	M5	130	36
HSK-A 40 SFH1/4" 160 FCC / 2.5G 25000 SL	K10165980175296	40	1/4"	21	27	M5	160	36
HSK-A 40 SFH5/16" 080 FCC / 2.5G 25000 SL	K10165981131296	40	5/16"	21	27	M6	80	36
HSK-A 40 SFH5/16" 120 FCC / 2.5G 25000 SL	K10165981162296	40	5/16"	21	27	M6	120	36
HSK-A 40 SFH5/16" 130 FCC / 2.5G 25000 SL	K10165981165296	40	5/16"	21	27	M6	130	36
HSK-A 40 SFH5/16" 160 FCC / 2.5G 25000 SL	K10165981175296	40	5/16"	21	27	M6	160	36
HSK-A 40 SFH3/8" 080 FCC / 2.5G 25000 SL	K10165982131296	40	3/8"	24	32	M8	80	41
HSK-A 40 SFH3/8" 120 FCC / 2.5G 25000 SL	K10165982162296	40	3/8"	24	32	M8	120	41
HSK-A 40 SFH3/8" 130 FCC / 2.5G 25000 SL	K10165982165296	40	3/8"	24	32	M8	130	41
HSK-A 40 SFH3/8" 160 FCC / 2.5G 25000 SL	K10165982175296	40	3/8"	24	32	M8	160	41
HSK-A 40 SFH1/2" 090 FCC / 2.5G 25000 SL	K10165983140296	40	1/2"	24	32	M10	90	46
HSK-A 40 SFH1/2" 120 FCC / 2.5G 25000 SL	K10165983162296	40	1/2"	24	32	M10	120	46
HSK-A 40 SFH1/2" 130 FCC / 2.5G 25000 SL	K10165983165296	40	1/2"	24	32	M10	130	46
HSK-A 40 SFH1/2" 160 FCC / 2.5G 25000 SL	K10165983175296	40	1/2"	24	32	M10	160	46
HSK-A 40 SFH5/8" 090 FCC / 2.5G 25000 SL	K10165984140296	40	5/8"	27	34	M12	90	49
HSK-A 40 SFH5/8" 120 FCC / 2.5G 25000 SL	K10165984162296	40	5/8"	27	34	M12	120	49
HSK-A 40 SFH5/8" 130 FCC / 2.5G 25000 SL	K10165984165296	40	5/8"	27	34	M12	130	49
HSK-A 40 SFH5/8" 160 FCC / 2.5G 25000 SL	K10165984175296	40	5/8"	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

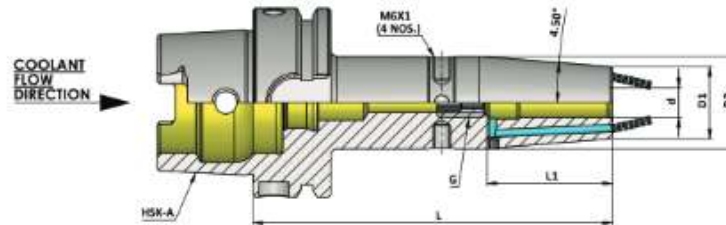


HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 50 SFH03 080 FCC 2.5G 25000 SL	K10166274131256	50	3	10	20	—	80	12
HSK-A 50 SFH03 120 FCC 2.5G 25000 SL	K10166274162256	50	3	10	20	—	120	12
HSK-A 50 SFH03 130 FCC 2.5G 25000 SL	K10166274131209	50	3	10	20	—	130	12
HSK-A 50 SFH03 160 FCC 2.5G 25000 SL	K10166274175256	50	3	10	20	—	160	12
HSK-A 50 SFH04 080 FCC 2.5G 25000 SL	K10166275131256	50	4	15	22	—	80	14
HSK-A 50 SFH04 120 FCC 2.5G 25000 SL	K10166275162256	50	4	15	22	—	120	14
HSK-A 50 SFH04 130 FCC 2.5G 25000 SL	K10306275165256	50	4	15	22	—	130	14
HSK-A 50 SFH04 160 FCC 2.5G 25000 SL	K10166275175256	50	4	15	22	—	160	14
HSK-A 50 SFH05 080 FCC 2.5G 25000 SL	K10166276131256	50	5	15	22	—	80	15
HSK-A 50 SFH05 120 FCC 2.5G 25000 SL	K10166276162256	50	5	15	22	—	120	15
HSK-A 50 SFH05 130 FCC 2.5G 25000 SL	K10306276165256	50	5	15	22	—	130	15
HSK-A 50 SFH05 160 FCC 2.5G 25000 SL	K10166276175256	50	5	15	22	—	160	15
HSK-A 50 SFH06 080 FCC 2.5G 25000 SL	K10166277131256	50	6	21	27	M5	80	36
HSK-A 50 SFH06 120 FCC 2.5G 25000 SL	K10166277162256	50	6	21	27	M5	120	36
HSK-A 50 SFH06 130 FCC 2.5G 25000 SL	K10306277165256	50	6	21	27	M5	130	36
HSK-A 50 SFH06 160 FCC 2.5G 25000 SL	K10166277175256	50	6	21	27	M5	160	36
HSK-A 50 SFH08 080 FCC 2.5G 25000 SL	K10166285131256	50	8	21	27	M6	80	36
HSK-A 50 SFH08 120 FCC 2.5G 25000 SL	K10166285162256	50	8	21	27	M6	120	36
HSK-A 50 SFH08 130 FCC 2.5G 25000 SL	K10306285165256	50	8	21	27	M6	130	36
HSK-A 50 SFH08 160 FCC 2.5G 25000 SL	K10166285175256	50	8	21	27	M6	160	36
HSK-A 50 SFH10 085 FCC 2.5G 25000 SL	K10166279135256	50	10	24	31	M8	85	41
HSK-A 50 SFH10 120 FCC 2.5G 25000 SL	K10166279162256	50	10	24	31	M8	120	41
HSK-A 50 SFH10 130 FCC 2.5G 25000 SL	K10306279165256	50	10	24	31	M8	130	41
HSK-A 50 SFH10 160 FCC 2.5G 25000 SL	K10166279175256	50	10	24	31	M8	160	41
HSK-A 50 SFH12 090 FCC 2.5G 25000 SL	K10166280140256	50	12	24	31	M10	90	46
HSK-A 50 SFH12 120 FCC 2.5G 25000 SL	K10166280162256	50	12	24	31	M10	120	46
HSK-A 50 SFH12 130 FCC 2.5G 25000 SL	K10306280165256	50	12	24	31	M10	130	46
HSK-A 50 SFH12 160 FCC 2.5G 25000 SL	K10166280175256	50	12	24	31	M10	160	46
HSK-A 50 SFH14 090 FCC 2.5G 25000 SL	K10166284140256	50	14	27	34	M10	90	46
HSK-A 50 SFH14 120 FCC 2.5G 25000 SL	K10166284162256	50	14	27	34	M10	120	46
HSK-A 50 SFH14 130 FCC 2.5G 25000 SL	K10306284165256	50	14	27	34	M10	130	46
HSK-A 50 SFH14 160 FCC 2.5G 25000 SL	K10166284175256	50	14	27	34	M10	160	46
HSK-A 50 SFH16 095 FCC 2.5G 25000 SL	K10166281145256	50	16	27	34	M12	95	49
HSK-A 50 SFH16 120 FCC 2.5G 25000 SL	K10166281162256	50	16	27	34	M12	120	49
HSK-A 50 SFH16 130 FCC 2.5G 25000 SL	K10306281165256	50	16	27	34	M12	130	49
HSK-A 50 SFH16 160 FCC 2.5G 25000 SL	K10166281175256	50	16	27	34	M12	160	49
HSK-A 50 SFH18 095 FCC 2.5G 25000 SL	K10166282145256	50	18	33	40	M12	95	49
HSK-A 50 SFH18 120 FCC 2.5G 25000 SL	K10166282162256	50	18	33	40	M12	120	49
HSK-A 50 SFH18 130 FCC 2.5G 25000 SL	K10306282165256	50	18	33	40	M12	130	49
HSK-A 50 SFH18 160 FCC 2.5G 25000 SL	K10166282175256	50	18	33	40	M12	160	49

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



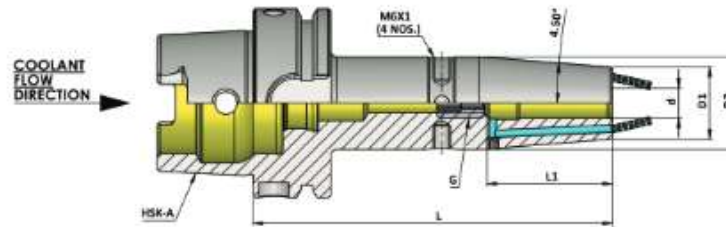
HSK-A (DIN 69893-1) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 50 SFH20 100 FCC 2.5G 25000 SL	K10166286148256	50	20	33	40	M16	100	51
HSK-A 50 SFH20 120 FCC 2.5G 25000 SL	K10166286162256	50	20	33	40	M16	120	51
HSK-A 50 SFH20 130 FCC 2.5G 25000 SL	K10306283165256	50	20	33	40	M16	130	51
HSK-A 50 SFH20 160 FCC 2.5G 25000 SL	K10166286175256	50	20	33	40	M16	160	51
HSK-A 50 SFH1/8" 080 FCC 2.5G 25000 SL	K10166978131256	50	1/8"	10	20	—	80	12
HSK-A 50 SFH1/8" 120 FCC 2.5G 25000 SL	K10166978162256	50	1/8"	10	20	—	120	12
HSK-A 50 SFH1/8" 130 FCC 2.5G 25000 SL	K10306978165296	50	1/8"	10	20	—	130	12
HSK-A 50 SFH1/8" 160 FCC 2.5G 25000 SL	K10166978175256	50	1/8"	10	20	—	160	12
HSK-A 50 SFH3/16" 080 FCC 2.5G 25000 SL	K10166979131256	50	3/16"	15	22	—	80	14
HSK-A 50 SFH3/16" 120 FCC 2.5G 25000 SL	K10166979162256	50	3/16"	15	22	—	120	14
HSK-A 50 SFH3/16" 130 FCC 2.5G 25000 SL	K10306979165296	50	3/16"	15	22	—	130	14
HSK-A 50 SFH3/16" 160 FCC 2.5G 25000 SL	K10166979175256	50	3/16"	15	22	—	160	14
HSK-A 50 SFH1/4" 080 FCC 2.5G 25000 SL	K10166980131256	50	1/4"	21	27	M5	80	36
HSK-A 50 SFH1/4" 120 FCC 2.5G 25000 SL	K10166980162256	50	1/4"	21	27	M5	120	36
HSK-A 50 SFH1/4" 130 FCC 2.5G 25000 SL	K10306980165296	50	1/4"	21	27	M5	130	36
HSK-A 50 SFH1/4" 160 FCC 2.5G 25000 SL	K10166980175256	50	1/4"	21	27	M5	160	36
HSK-A 50 SFH5/16" 080 FCC 2.5G 25000 SL	K10166981131256	50	5/16"	21	27	M6	80	36
HSK-A 50 SFH5/16" 120 FCC 2.5G 25000 SL	K10166981162256	50	5/16"	21	27	M6	120	36
HSK-A 50 SFH5/16" 130 FCC 2.5G 25000 SL	K10306981165296	50	5/16"	21	27	M6	130	36
HSK-A 50 SFH5/16" 160 FCC 2.5G 25000 SL	K10166981175256	50	5/16"	21	27	M6	160	36
HSK-A 50 SFH3/8" 085 FCC 2.5G 25000 SL	K10166982135256	50	3/8"	24	31	M8	85	41
HSK-A 50 SFH3/8" 120 FCC 2.5G 25000 SL	K10166982162256	50	3/8"	24	31	M8	120	41
HSK-A 50 SFH3/8" 130 FCC 2.5G 25000 SL	K10306982165296	50	3/8"	24	31	M8	130	41
HSK-A 50 SFH3/8" 160 FCC 2.5G 25000 SL	K10166982175256	50	3/8"	24	31	M8	160	41
HSK-A 50 SFH1/2" 090 FCC 2.5G 25000 SL	K10166983140256	50	1/2"	24	31	M10	90	46
HSK-A 50 SFH1/2" 120 FCC 2.5G 25000 SL	K10166983162256	50	1/2"	24	31	M10	120	46
HSK-A 50 SFH1/2" 130 FCC 2.5G 25000 SL	K10306983165296	50	1/2"	24	31	M10	130	46
HSK-A 50 SFH1/2" 160 FCC 2.5G 25000 SL	K10166983175256	50	1/2"	24	31	M10	160	46
HSK-A 50 SFH5/8" 095 FCC 2.5G 25000 SL	K10166984145256	50	5/8"	27	34	M12	95	49
HSK-A 50 SFH5/8" 120 FCC 2.5G 25000 SL	K10166984162256	50	5/8"	27	34	M12	120	49
HSK-A 50 SFH5/8" 130 FCC 2.5G 25000 SL	K10306984165296	50	5/8"	27	34	M12	130	49
HSK-A 50 SFH5/8" 160 FCC 2.5G 25000 SL	K10166984175256	50	5/8"	27	34	M12	160	49
HSK-A 50 SFH3/4" 100 FCC 2.5G 25000 SL	K10166985148256	50	3/4"	33	40	M16	100	51
HSK-A 50 SFH3/4" 120 FCC 2.5G 25000 SL	K10166985162256	50	3/4"	33	40	M16	120	51
HSK-A 50 SFH3/4" 130 FCC 2.5G 25000 SL	K10306985165296	50	3/4"	33	40	M16	130	51
HSK-A 50 SFH3/4" 160 FCC 2.5G 25000 SL	K10166985175256	50	3/4"	33	40	M16	160	51

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



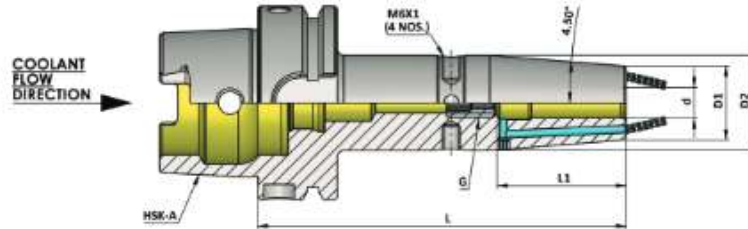
HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH03 080 FCC 2.5G 25000 SL	K10167274131256	63	3	10	20	—	80	12
HSK-A 63 SFH03 120 FCC 2.5G 25000 SL	K10167274162256	63	3	10	20	—	120	12
HSK-A 63 SFH03 130 FCC 2.5G 25000 SL	K10305274165256	63	3	10	20	—	130	12
HSK-A 63 SFH03 160 FCC 2.5G 25000 SL	K10167274175256	63	3	10	20	—	160	12
HSK-A 63 SFH04 080 FCC 2.5G 25000 SL	K10167275131256	63	4	15	22	—	80	14
HSK-A 63 SFH04 120 FCC 2.5G 25000 SL	K10167275162256	63	4	15	22	—	120	14
HSK-A 63 SFH04 130 FCC 2.5G 25000 SL	K10305275165256	63	4	15	22	—	130	14
HSK-A 63 SFH04 160 FCC 2.5G 25000 SL	K10167275175256	63	4	15	22	—	160	14
HSK-A 63 SFH05 080 FCC 2.5G 25000 SL	K10167276131256	63	5	15	22	—	80	15
HSK-A 63 SFH05 120 FCC 2.5G 25000 SL	K10167276162256	63	5	15	22	—	120	15
HSK-A 63 SFH05 130 FCC 2.5G 25000 SL	K10305276165256	63	5	15	22	—	130	15
HSK-A 63 SFH05 160 FCC 2.5G 25000 SL	K10167276175256	63	5	15	22	—	160	15
HSK-A 63 SFH06 080 FCC 2.5G 25000 SL	K10167277131256	63	6	21	27	M5	80	36
HSK-A 63 SFH06 120 FCC 2.5G 25000 SL	K10167277162256	63	6	21	27	M5	120	36
HSK-A 63 SFH06 130 FCC 2.5G 25000 SL	K10305277165256	63	6	21	27	M5	130	36
HSK-A 63 SFH06 160 FCC 2.5G 25000 SL	K10167277175256	63	6	21	27	M5	160	36
HSK-A 63 SFH08 080 FCC 2.5G 25000 SL	K10167285131256	63	8	21	27	M6	80	36
HSK-A 63 SFH08 120 FCC 2.5G 25000 SL	K10167285162256	63	8	21	27	M6	120	36
HSK-A 63 SFH08 130 FCC 2.5G 25000 SL	K10305285165256	63	8	21	27	M6	130	36
HSK-A 63 SFH08 160 FCC 2.5G 25000 SL	K10167285175256	63	8	21	27	M6	160	36
HSK-A 63 SFH10 085 FCC 2.5G 25000 SL	K10167279135256	63	10	24	31	M8	85	41
HSK-A 63 SFH10 120 FCC 2.5G 25000 SL	K10167279162256	63	10	24	31	M8	120	41
HSK-A 63 SFH10 130 FCC 2.5G 25000 SL	K10305279165256	63	10	24	31	M8	130	41
HSK-A 63 SFH10 160 FCC 2.5G 25000 SL	K10167279175256	63	10	24	31	M8	160	41
HSK-A 63 SFH12 090 FCC 2.5G 25000 SL	K10167280140256	63	12	24	31	M10	90	46
HSK-A 63 SFH12 120 FCC 2.5G 25000 SL	K10167280162256	63	12	24	31	M10	120	46
HSK-A 63 SFH12 130 FCC 2.5G 25000 SL	K10305280165256	63	12	24	31	M10	130	46
HSK-A 63 SFH12 160 FCC 2.5G 25000 SL	K10167280175256	63	12	24	31	M10	160	46
HSK-A 63 SFH14 090 FCC 2.5G 25000 SL	K10167284140256	63	14	27	34	M10	90	46
HSK-A 63 SFH14 120 FCC 2.5G 25000 SL	K10167284162256	63	14	27	34	M10	120	46
HSK-A 63 SFH14 130 FCC 2.5G 25000 SL	K10305284165256	63	14	27	34	M10	130	46
HSK-A 63 SFH14 160 FCC 2.5G 25000 SL	K10167284175256	63	14	27	34	M10	160	46

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



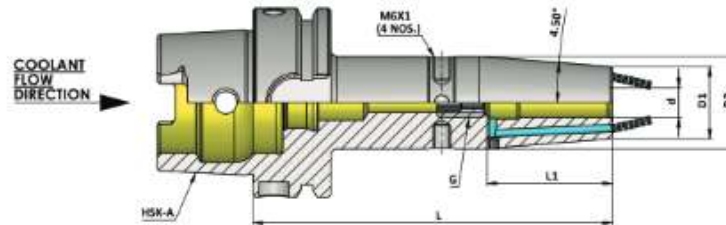
HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH16 095 FCC 2.5G 25000 SL	K10167281145256	63	16	27	34	M12	95	49
HSK-A 63 SFH16 120 FCC 2.5G 25000 SL	K10167281162256	63	16	27	34	M12	120	49
HSK-A 63 SFH16 130 FCC 2.5G 25000 SL	K10305281165256	63	16	27	34	M12	130	49
HSK-A 63 SFH16 160 FCC 2.5G 25000 SL	K10167281175256	63	16	27	34	M12	160	49
HSK-A 63 SFH18 095 FCC 2.5G 25000 SL	K10167282145256	63	18	33	40	M12	95	49
HSK-A 63 SFH18 120 FCC 2.5G 25000 SL	K10167282162256	63	18	33	40	M12	120	49
HSK-A 63 SFH18 130 FCC 2.5G 25000 SL	K10305282165256	63	18	33	40	M12	130	49
HSK-A 63 SFH18 160 FCC 2.5G 25000 SL	K10167282175256	63	18	33	40	M12	160	49
HSK-A 63 SFH20 100 FCC 2.5G 25000 SL	K10167283145256	63	20	33	40	M16	100	51
HSK-A 63 SFH20 120 FCC 2.5G 25000 SL	K10167283162256	63	20	33	40	M16	120	51
HSK-A 63 SFH20 130 FCC 2.5G 25000 SL	K10305283165256	63	20	33	40	M16	130	51
HSK-A 63 SFH20 160 FCC 2.5G 25000 SL	K10167283175256	63	20	33	40	M16	160	51
HSK-A 63 SFH25 115 FCC 2.5G 25000 SL	K10167287159256	63	25	44	53	M16	115	57
HSK-A 63 SFH25 120 FCC 2.5G 25000 SL	K10167287162256	63	25	44	53	M16	120	57
HSK-A 63 SFH25 130 FCC 2.5G 25000 SL	K10305287165256	63	25	44	53	M16	130	57
HSK-A 63 SFH25 160 FCC 2.5G 25000 SL	K10167287175256	63	25	44	53	M16	160	57
HSK-A 63 SFH32 120 FCC 2.5G 25000 SL	K10167288162256	63	32	44	53	M16	120	61
HSK-A 63 SFH32 130 FCC 2.5G 25000 SL	K10305288165256	63	32	44	53	M16	130	61
HSK-A 63 SFH32 160 FCC 2.5G 25000 SL	K10167288175256	63	32	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

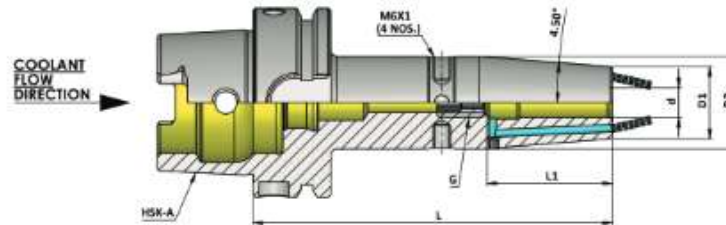


HSK-A (DIN 69893-1) (SFH FCC 4.5°)					(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1	
HSK-A 63 SFH1/8" 080 FCC / 2.5G 25000 SL	K10316978131296	63	1/8"	10	20	—	80	12	
HSK-A 63 SFH1/8" 120 FCC / 2.5G 25000 SL	K10316978162296	63	1/8"	10	20	—	120	12	
HSK-A 63 SFH1/8" 130 FCC / 2.5G 25000 SL	K10316978165296	63	1/8"	10	20	—	130	12	
HSK-A 63 SFH1/8" 160 FCC / 2.5G 25000 SL	K10316978175296	63	1/8"	10	20	—	160	12	
HSK-A 63 SFH3/16" 080 FCC / 2.5G 25000 SL	K10316979131296	63	3/16"	15	22	—	80	14	
HSK-A 63 SFH3/16" 120 FCC / 2.5G 25000 SL	K10316979162296	63	3/16"	15	22	—	120	14	
HSK-A 63 SFH3/16" 130 FCC / 2.5G 25000 SL	K10316979165296	63	3/16"	15	22	—	130	14	
HSK-A 63 SFH3/16" 160 FCC / 2.5G 25000 SL	K10316979175296	63	3/16"	15	22	—	160	14	
HSK-A 63 SFH1/4" 080 FCC / 2.5G 25000 SL	K10316980131296	63	1/4"	21	27	M5	80	36	
HSK-A 63 SFH1/4" 120 FCC / 2.5G 25000 SL	K10316980162296	63	1/4"	21	27	M5	120	36	
HSK-A 63 SFH1/4" 130 FCC / 2.5G 25000 SL	K10316980165296	63	1/4"	21	27	M5	130	36	
HSK-A 63 SFH1/4" 160 FCC / 2.5G 25000 SL	K10316980175296	63	1/4"	21	27	M5	160	36	
HSK-A 63 SFH5/16" 080 FCC / 2.5G 25000 SL	K10316981131296	63	5/16"	21	27	M6	80	36	
HSK-A 63 SFH5/16" 120 FCC / 2.5G 25000 SL	K10316981162296	63	5/16"	21	27	M6	120	36	
HSK-A 63 SFH5/16" 130 FCC / 2.5G 25000 SL	K10316981165296	63	5/16"	21	27	M6	130	36	
HSK-A 63 SFH5/16" 160 FCC / 2.5G 25000 SL	K10316981175296	63	5/16"	21	27	M6	160	36	
HSK-A 63 SFH3/8" 085 FCC / 2.5G 25000 SL	K10316982135296	63	3/8"	24	31	M8	85	41	
HSK-A 63 SFH3/8" 120 FCC / 2.5G 25000 SL	K10316982162296	63	3/8"	24	31	M8	120	41	
HSK-A 63 SFH3/8" 130 FCC / 2.5G 25000 SL	K10316982165296	63	3/8"	24	31	M8	130	41	
HSK-A 63 SFH3/8" 160 FCC / 2.5G 25000 SL	K10316982175296	63	3/8"	24	31	M8	160	41	
HSK-A 63 SFH1/2" 090 FCC / 2.5G 25000 SL	K10316983140296	63	1/2"	24	31	M10	90	46	
HSK-A 63 SFH1/2" 120 FCC / 2.5G 25000 SL	K10316983162296	63	1/2"	24	31	M10	120	46	
HSK-A 63 SFH1/2" 130 FCC / 2.5G 25000 SL	K10316983165296	63	1/2"	24	31	M10	130	46	
HSK-A 63 SFH1/2" 160 FCC / 2.5G 25000 SL	K10316983175296	63	1/2"	24	31	M10	160	46	
HSK-A 63 SFH5/8" 095 FCC / 2.5G 25000 SL	K10316984145296	63	5/8"	27	34	M12	95	49	
HSK-A 63 SFH5/8" 120 FCC / 2.5G 25000 SL	K10316984162296	63	5/8"	27	34	M12	120	49	
HSK-A 63 SFH5/8" 130 FCC / 2.5G 25000 SL	K10316984165296	63	5/8"	27	34	M12	130	49	
HSK-A 63 SFH5/8" 160 FCC / 2.5G 25000 SL	K10316984175296	63	5/8"	27	34	M12	160	49	
HSK-A 63 SFH3/4" 100 FCC / 2.5G 25000 SL	K10316985148296	63	3/4"	33	40	M16	100	51	
HSK-A 63 SFH3/4" 120 FCC / 2.5G 25000 SL	K10316985162296	63	3/4"	33	40	M16	120	51	
HSK-A 63 SFH3/4" 130 FCC / 2.5G 25000 SL	K10316985165296	63	3/4"	33	40	M16	130	51	
HSK-A 63 SFH3/4" 160 FCC / 2.5G 25000 SL	K10316985175296	63	3/4"	33	40	M16	160	51	
HSK-A 63 SFH1.0" 115 FCC / 2.5G 25000 SL	K10316986159286	63	1.0"	44	53	M16	115	57	
HSK-A 63 SFH1.0" 120 FCC / 2.5G 25000 SL	K10316986162286	63	1.0"	44	53	M16	120	57	
HSK-A 63 SFH1.0" 130 FCC / 2.5G 25000 SL	K10316986165296	63	1.0"	44	53	M16	130	57	
HSK-A 63 SFH1.0" 160 FCC / 2.5G 25000 SL	K10316986175286	63	1.0"	44	53	M16	160	57	
HSK-A 63 SFH1-1/4" 120 FCC / 2.5G 25000 SL	K10316987162286	63	1-1/4"	44	53	M16	120	61	
HSK-A 63 SFH1-1/4" 130 FCC / 2.5G 25000 SL	K10316987165296	63	1-1/4"	44	53	M16	130	61	
HSK-A 63 SFH1-1/4" 160 FCC / 2.5G 25000 SL	K10316987175286	63	1-1/4"	44	53	M16	160	61	

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



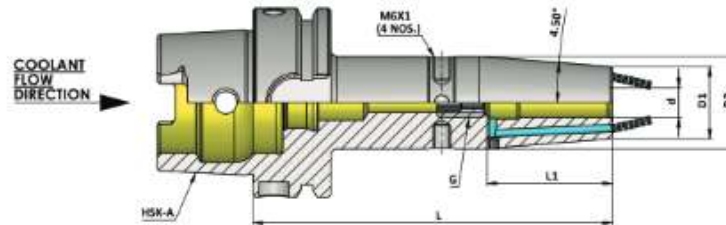
HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 80 SFH06 085 FCC 2.5G 25000 SL	K10320277131256	80	6	21	27	M5	85	36
HSK-A 80 SFH06 120 FCC 2.5G 25000 SL	K10320277162256	80	6	21	27	M5	120	36
HSK-A 80 SFH06 160 FCC 2.5G 25000 SL	K10320277175256	80	6	21	27	M5	160	36
HSK-A 80 SFH08 085 FCC 2.5G 25000 SL	K10320285135256	80	8	21	27	M6	85	36
HSK-A 80 SFH08 120 FCC 2.5G 25000 SL	K10320285162256	80	8	21	27	M6	120	36
HSK-A 80 SFH08 160 FCC 2.5G 25000 SL	K10320285175256	80	8	21	27	M6	160	36
HSK-A 80 SFH10 090 FCC 2.5G 25000 SL	K10320279140256	80	10	24	32	M8	90	41
HSK-A 80 SFH10 120 FCC 2.5G 25000 SL	K10320279162256	80	10	24	32	M8	120	41
HSK-A 80 SFH10 160 FCC 2.5G 25000 SL	K10320279175256	80	10	24	32	M8	160	41
HSK-A 80 SFH12 095 FCC 2.5G 25000 SL	K10320280145256	80	12	24	32	M10	95	46
HSK-A 80 SFH12 120 FCC 2.5G 25000 SL	K10320280162256	80	12	24	32	M10	120	46
HSK-A 80 SFH12 160 FCC 2.5G 25000 SL	K10320280175256	80	12	24	32	M10	160	46
HSK-A 80 SFH14 095 FCC 2.5G 25000 SL	K10320284145256	80	14	27	34	M10	95	46
HSK-A 80 SFH14 120 FCC 2.5G 25000 SL	K10320284162256	80	14	27	34	M10	120	46
HSK-A 80 SFH14 160 FCC 2.5G 25000 SL	K10320284175256	80	14	27	34	M10	160	46
HSK-A 80 SFH16 100 FCC 2.5G 25000 SL	K10320281148256	80	16	27	34	M12	100	49
HSK-A 80 SFH16 120 FCC 2.5G 25000 SL	K10320281162256	80	16	27	34	M12	120	49
HSK-A 80 SFH16 160 FCC 2.5G 25000 SL	K10320281175256	80	16	27	34	M12	160	49
HSK-A 80 SFH18 100 FCC 2.5G 25000 SL	K10320282148256	80	18	33	42	M12	100	49
HSK-A 80 SFH18 120 FCC 2.5G 25000 SL	K10320282162256	80	18	33	42	M12	120	49
HSK-A 80 SFH18 160 FCC 2.5G 25000 SL	K10320282175256	80	18	33	42	M12	160	49
HSK-A 80 SFH20 105 FCC 2.5G 25000 SL	K10320283152256	80	20	33	42	M16	105	51
HSK-A 80 SFH20 120 FCC 2.5G 25000 SL	K10320283162256	80	20	33	42	M16	120	51
HSK-A 80 SFH20 160 FCC 2.5G 25000 SL	K10320283175256	80	20	33	42	M16	160	51
HSK-A 80 SFH25 115 FCC 2.5G 25000 SL	K10320287159256	80	25	44	53	M16	115	57
HSK-A 80 SFH25 120 FCC 2.5G 25000 SL	K10320287162256	80	25	44	53	M16	120	57
HSK-A 80 SFH25 160 FCC 2.5G 25000 SL	K10320287175256	80	25	44	53	M16	160	57
HSK-A 80 SFH32 120 FCC 2.5G 25000 SL	K10320288162256	80	32	44	53	M16	120	61
HSK-A 80 SFH32 160 FCC 2.5G 25000 SL	K10320288175256	80	32	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



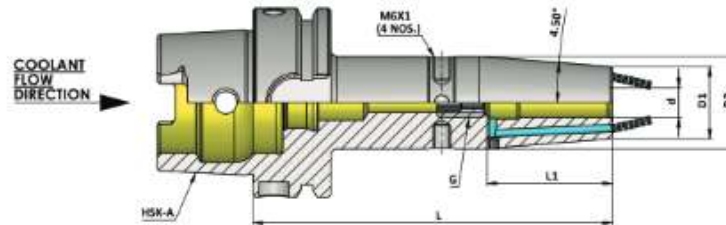
HSK-A (DIN 69893-1) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 80 SFH1/4" 085 FCC / 2.5G 25000 SL	K10320980135296	80	1/4"	21	27	M5	85	36
HSK-A 80 SFH1/4" 120 FCC / 2.5G 25000 SL	K10320980162296	80	1/4"	21	27	M5	120	36
HSK-A 80 SFH1/4" 160 FCC / 2.5G 25000 SL	K10320980175296	80	1/4"	21	27	M5	160	36
HSK-A 80 SFH5/16" 085 FCC / 2.5G 25000 SL	K10320981135296	80	5/16"	21	27	M6	85	36
HSK-A 80 SFH5/16" 120 FCC / 2.5G 25000 SL	K10320981162296	80	5/16"	21	27	M6	120	36
HSK-A 80 SFH5/16" 160 FCC / 2.5G 25000 SL	K10320981175296	80	5/16"	21	27	M6	160	36
HSK-A 80 SFH3/8" 090 FCC / 2.5G 25000 SL	K10320982140296	80	3/8"	24	32	M8	90	41
HSK-A 80 SFH3/8" 120 FCC / 2.5G 25000 SL	K10320982162296	80	3/8"	24	32	M8	120	41
HSK-A 80 SFH3/8" 160 FCC / 2.5G 25000 SL	K10320982175296	80	3/8"	24	32	M8	160	41
HSK-A 80 SFH1/2" 095 FCC / 2.5G 25000 SL	K10320983145296	80	1/2"	24	32	M10	95	46
HSK-A 80 SFH1/2" 120 FCC / 2.5G 25000 SL	K10320983162296	80	1/2"	24	32	M10	120	46
HSK-A 80 SFH1/2" 160 FCC / 2.5G 25000 SL	K10320983175296	80	1/2"	24	32	M10	160	46
HSK-A 80 SFH5/8" 100 FCC / 2.5G 25000 SL	K10320984148296	80	5/8"	27	34	M12	100	49
HSK-A 80 SFH5/8" 120 FCC / 2.5G 25000 SL	K10320984162296	80	5/8"	27	34	M12	120	49
HSK-A 80 SFH5/8" 160 FCC / 2.5G 25000 SL	K10320984175296	80	5/8"	27	34	M12	160	49
HSK-A 80 SFH3/4" 105 FCC / 2.5G 25000 SL	K10320985152296	80	3/4"	33	42	M16	105	51
HSK-A 80 SFH3/4" 120 FCC / 2.5G 25000 SL	K10320985162296	80	3/4"	33	42	M16	120	51
HSK-A 80 SFH3/4" 160 FCC / 2.5G 25000 SL	K10320985175296	80	3/4"	33	42	M16	160	51
HSK-A 80 SFH1.0" 115 FCC / 2.5G 25000 SL	K10320986159296	80	1.0"	44	53	M16	115	57
HSK-A 80 SFH1.0" 120 FCC / 2.5G 25000 SL	K10320986162296	80	1.0"	44	53	M16	120	57
HSK-A 80 SFH1.0" 160 FCC / 2.5G 25000 SL	K10320986175296	80	1.0"	44	53	M16	160	57
HSK-A 80 SFH1-1/4" 120 FCC / 2.5G 25000 SL	K10320987162296	80	1-1/4"	44	53	M16	120	61
HSK-A 80 SFH1-1/4" 160 FCC / 2.5G 25000 SL	K10320987175296	80	1-1/4"	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

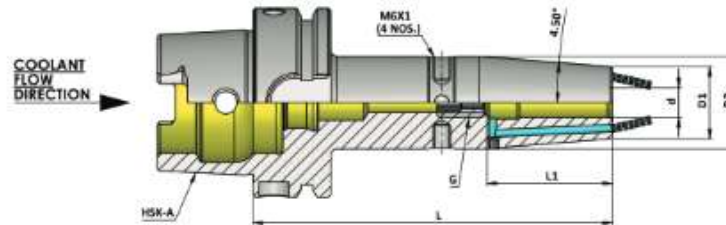


HSK-A (DIN 69893-1) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 100 SFH06 085 FCC 2.5G 25000 SL	K10168277135256	100	6	21	27	M5	85	36
HSK-A 100 SFH06 120 FCC 2.5G 25000 SL	K10168277162256	100	6	21	27	M5	120	36
HSK-A 100 SFH06 130 FCC 2.5G 25000 SL	K10168277165256	100	6	21	27	M5	130	36
HSK-A 100 SFH06 160 FCC 2.5G 25000 SL	K10168277175256	100	6	21	27	M5	160	36
HSK-A 100 SFH08 085 FCC 2.5G 25000 SL	K10168285135256	100	8	21	27	M6	85	36
HSK-A 100 SFH08 120 FCC 2.5G 25000 SL	K10168285162256	100	8	21	27	M6	120	36
HSK-A 100 SFH08 130 FCC 2.5G 25000 SL	K10168285165256	100	8	21	27	M6	130	36
HSK-A 100 SFH08 160 FCC 2.5G 25000 SL	K10168285175256	100	8	21	27	M6	160	36
HSK-A 100 SFH10 090 FCC 2.5G 25000 SL	K10168279140256	100	10	24	31	M8	90	41
HSK-A 100 SFH10 120 FCC 2.5G 25000 SL	K10168279162256	100	10	24	31	M8	120	41
HSK-A 100 SFH10 130 FCC 2.5G 25000 SL	K10168279165256	100	10	24	31	M8	130	41
HSK-A 100 SFH10 160 FCC 2.5G 25000 SL	K10168279175256	100	10	24	31	M8	160	41
HSK-A 100 SFH12 095 FCC 2.5G 25000 SL	K10168280145256	100	12	24	31	M10	95	46
HSK-A 100 SFH12 120 FCC 2.5G 25000 SL	K10168280162256	100	12	24	31	M10	120	46
HSK-A 100 SFH12 130 FCC 2.5G 25000 SL	K10168280165256	100	12	24	31	M10	130	46
HSK-A 100 SFH12 160 FCC 2.5G 25000 SL	K10168280175256	100	12	24	31	M10	160	46
HSK-A 100 SFH14 095 FCC 2.5G 25000 SL	K10168284145256	100	14	27	34	M10	95	46
HSK-A 100 SFH14 120 FCC 2.5G 25000 SL	K10168284162256	100	14	27	34	M10	120	46
HSK-A 100 SFH14 130 FCC 2.5G 25000 SL	K10168284165256	100	14	27	34	M10	130	46
HSK-A 100 SFH14 160 FCC 2.5G 25000 SL	K10168284175256	100	14	27	34	M10	160	46
HSK-A 100 SFH16 100 FCC 2.5G 25000 SL	K10168281148256	100	16	27	34	M12	100	49
HSK-A 100 SFH16 120 FCC 2.5G 25000 SL	K10168281162256	100	16	27	34	M12	120	49
HSK-A 100 SFH16 130 FCC 2.5G 25000 SL	K10168281165256	100	16	27	34	M12	130	49
HSK-A 100 SFH16 160 FCC 2.5G 25000 SL	K10168281175256	100	16	27	34	M12	160	49
HSK-A 100 SFH18 100 FCC 2.5G 25000 SL	K10168282148256	100	18	33	40	M12	100	49
HSK-A 100 SFH18 120 FCC 2.5G 25000 SL	K10168282162256	100	18	33	40	M12	120	49
HSK-A 100 SFH18 130 FCC 2.5G 25000 SL	K10168282165256	100	18	33	40	M12	130	49
HSK-A 100 SFH18 160 FCC 2.5G 25000 SL	K10168282175256	100	18	33	40	M12	160	49
HSK-A 100 SFH20 105 FCC 2.5G 25000 SL	K10168283152256	100	20	33	40	M16	105	51
HSK-A 100 SFH20 120 FCC 2.5G 25000 SL	K10168283162256	100	20	33	40	M16	120	51
HSK-A 100 SFH20 130 FCC 2.5G 25000 SL	K10168283165256	100	20	33	40	M16	130	51
HSK-A 100 SFH20 160 FCC 2.5G 25000 SL	K10168283175256	100	20	33	40	M16	160	51
HSK-A 100 SFH25 115 FCC 2.5G 25000 SL	K10168287159256	100	25	44	53	M16	115	57
HSK-A 100 SFH25 120 FCC 2.5G 25000 SL	K10168287162256	100	25	44	53	M16	120	57
HSK-A 100 SFH25 130 FCC 2.5G 25000 SL	K10168287165256	100	25	44	53	M16	130	57
HSK-A 100 SFH25 160 FCC 2.5G 25000 SL	K10168287175256	100	25	44	53	M16	160	57
HSK-A 100 SFH32 120 FCC 2.5G 25000 SL	K10168288162256	100	32	44	53	M16	120	61
HSK-A 100 SFH32 130 FCC 2.5G 25000 SL	K10168288165256	100	32	44	53	M16	130	61
HSK-A 100 SFH32 160 FCC 2.5G 25000 SL	K10168288175256	100	32	44	53	M16	160	61

HSK-A (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



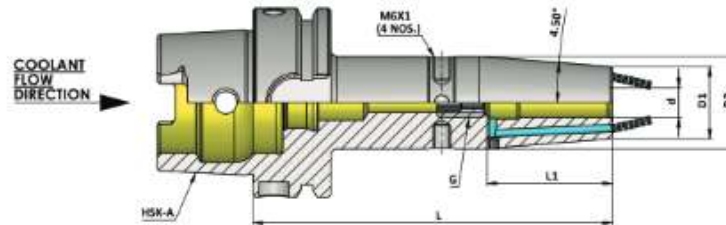
HSK-A (DIN 69893-1) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 100 SFH1/4" 085 FCC / 2.5G 25000 SL	K10168980135286	100	1/4"	21	27	M5	85	36
HSK-A 100 SFH1/4" 120 FCC / 2.5G 25000 SL	K10168980162286	100	1/4"	21	27	M5	120	36
HSK-A 100 SFH1/4" 130 FCC / 2.5G 25000 SL	K10320980165296	100	1/4"	21	27	M5	130	36
HSK-A 100 SFH1/4" 160 FCC / 2.5G 25000 SL	K10168980175286	100	1/4"	21	27	M5	160	36
HSK-A 100 SFH5/16" 085 FCC / 2.5G 25000 SL	K10168981135286	100	5/16"	21	27	M6	85	36
HSK-A 100 SFH5/16" 120 FCC / 2.5G 25000 SL	K10168981162286	100	5/16"	21	27	M6	120	36
HSK-A 100 SFH5/16" 130 FCC / 2.5G 25000 SL	K10168981165296	100	5/16"	21	27	M6	130	36
HSK-A 100 SFH5/16" 160 FCC / 2.5G 25000 SL	K10168981175286	100	5/16"	21	27	M6	160	36
HSK-A 100 SFH3/8" 090 FCC / 2.5G 25000 SL	K10168982140286	100	3/8"	24	31	M8	90	41
HSK-A 100 SFH3/8" 120 FCC / 2.5G 25000 SL	K10168982162286	100	3/8"	24	31	M8	120	41
HSK-A 100 SFH3/8" 130 FCC / 2.5G 25000 SL	K10168982165286	100	3/8"	24	31	M8	130	41
HSK-A 100 SFH3/8" 160 FCC / 2.5G 25000 SL	K10168982175286	100	3/8"	24	31	M8	160	41
HSK-A 100 SFH1/2" 095 FCC / 2.5G 25000 SL	K10168983145286	100	1/2"	24	31	M10	95	46
HSK-A 100 SFH1/2" 120 FCC / 2.5G 25000 SL	K10168983162286	100	1/2"	24	31	M10	120	46
HSK-A 100 SFH1/2" 130 FCC / 2.5G 25000 SL	K10168983165286	100	1/2"	24	31	M10	130	46
HSK-A 100 SFH1/2" 160 FCC / 2.5G 25000 SL	K10168983175286	100	1/2"	24	31	M10	160	46
HSK-A 100 SFH5/8" 100 FCC / 2.5G 25000 SL	K10168984148286	100	5/8"	27	34	M12	100	49
HSK-A 100 SFH5/8" 120 FCC / 2.5G 25000 SL	K10168984162286	100	5/8"	27	34	M12	120	49
HSK-A 100 SFH5/8" 130 FCC / 2.5G 25000 SL	K10168984165286	100	5/8"	27	34	M12	130	49
HSK-A 100 SFH5/8" 160 FCC / 2.5G 25000 SL	K10168984175286	100	5/8"	27	34	M12	160	49
HSK-A 100 SFH3/4" 105 FCC / 2.5G 25000 SL	K10168985152286	100	3/4"	33	40	M16	105	51
HSK-A 100 SFH3/4" 120 FCC / 2.5G 25000 SL	K10168985162286	100	3/4"	33	40	M16	120	51
HSK-A 100 SFH3/4" 130 FCC / 2.5G 25000 SL	K10168985165286	100	3/4"	33	40	M16	130	51
HSK-A 100 SFH3/4" 160 FCC / 2.5G 25000 SL	K10168985175286	100	3/4"	33	40	M16	160	51
HSK-A 100 SFH1.0" 115 FCC / 2.5G 25000 SL	K10168986159286	100	1.0"	44	53	M16	115	57
HSK-A 100 SFH1.0" 120 FCC / 2.5G 25000 SL	K10168986162286	100	1.0"	44	53	M16	120	57
HSK-A 100 SFH1.0" 130 FCC / 2.5G 25000 SL	K10168986165286	100	1.0"	44	53	M16	130	57
HSK-A 100 SFH1.0" 160 FCC / 2.5G 25000 SL	K10168986175286	100	1.0"	44	53	M16	160	57
HSK-A 100 SFH1-1/4" 120 FCC / 2.5G 25000 SL	K10168987162286	100	1-1/4"	44	53	M16	120	61
HSK-A 100 SFH1-1/4" 130 FCC / 2.5G 25000 SL	K10168987165286	100	1-1/4"	44	53	M16	130	61
HSK-A 100 SFH1-1/4" 160 FCC / 2.5G 25000 SL	K10168987175286	100	1-1/4"	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



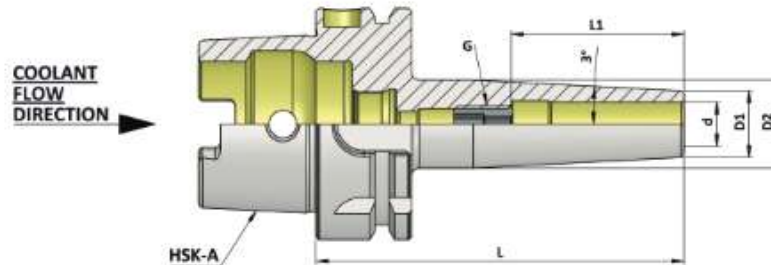
HSK-A (DIN 69893-1) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 125 SFH10 130 FCC 2.5G 25000 SL	K10382279165256	125	10	24	31	M8	130	41
HSK-A 125 SFH10 160 FCC 2.5G 25000 SL	K10382279175256	125	10	24	31	M8	160	41
HSK-A 125 SFH10 200 FCC 2.5G 25000 SL	K10382279239256	125	10	24	31	M8	200	41
HSK-A 125 SFH12 130 FCC 2.5G 25000 SL	K10382280165256	125	12	24	31	M10	130	46
HSK-A 125 SFH12 160 FCC 2.5G 25000 SL	K10382280175256	125	12	24	31	M10	160	46
HSK-A 125 SFH12 200 FCC 2.5G 25000 SL	K10382280239256	125	12	24	31	M10	200	46
HSK-A 125 SFH16 130 FCC 2.5G 25000 SL	K10382281165256	125	16	27	34	M12	130	49
HSK-A 125 SFH16 160 FCC 2.5G 25000 SL	K10382281175256	125	16	27	34	M12	160	49
HSK-A 125 SFH16 200 FCC 2.5G 25000 SL	K10382281239256	125	16	27	34	M12	200	49
HSK-A 125 SFH20 130 FCC 2.5G 25000 SL	K10382283165256	125	20	33	40	M16	130	51
HSK-A 125 SFH20 160 FCC 2.5G 25000 SL	K10382283175256	125	20	33	40	M16	160	51
HSK-A 125 SFH20 200 FCC 2.5G 25000 SL	K10382283239256	125	20	33	40	M16	200	51
HSK-A 125 SFH25 130 FCC 2.5G 25000 SL	K10382287165256	125	25	44	53	M16	130	57
HSK-A 125 SFH25 160 FCC 2.5G 25000 SL	K10382287175256	125	25	44	53	M16	160	57
HSK-A 125 SFH25 200 FCC 2.5G 25000 SL	K10382287239256	125	25	44	53	M16	200	57
HSK-A 125 SFH32 130 FCC 2.5G 25000 SL	K10382288165256	125	32	44	53	M16	130	61
HSK-A 125 SFH32 160 FCC 2.5G 25000 SL	K10382288175256	125	32	44	53	M16	160	61
HSK-A 125 SFH32 200 FCC 2.5G 25000 SL	K10382288239256	125	32	44	53	M16	200	61

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder Slim 3 Degree (SFH SLIM 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



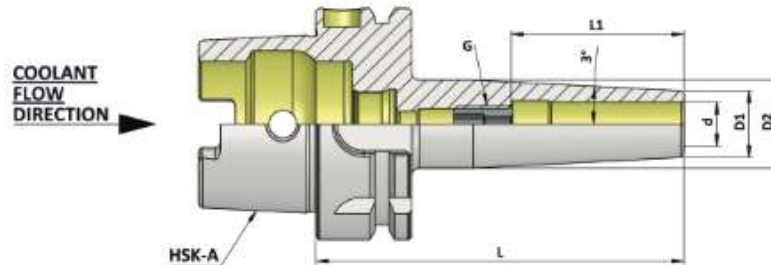
HSK-A (DIN 69893-1) (SFH SLIM 3°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH03 080 SLIM 2.5G 25000 SL	K10305274131258	63	3	9	14	—	80	12
HSK-A 63 SFH03 120 SLIM 2.5G 25000 SL	K10305274162258	63	3	9	18	—	120	12
HSK-A 63 SFH03 160 SLIM 2.5G 25000 SL	K10305274175258	63	3	9	19	—	160	12
HSK-A 63 SFH04 080 SLIM 2.5G 25000 SL	K10305275131258	63	4	10	15	—	80	14
HSK-A 63 SFH04 120 SLIM 2.5G 25000 SL	K10305275162258	63	4	10	19	—	120	14
HSK-A 63 SFH04 160 SLIM 2.5G 25000 SL	K10305275175258	63	4	10	23	—	160	14
HSK-A 63 SFH05 080 SLIM 2.5G 25000 SL	K10305276131258	63	5	11	16	—	80	15
HSK-A 63 SFH05 120 SLIM 2.5G 25000 SL	K10305276162258	63	5	11	20	—	120	15
HSK-A 63 SFH05 160 SLIM 2.5G 25000 SL	K10305276175258	63	5	11	24	—	160	15
HSK-A 63 SFH06 080 SLIM 2.5G 25000 SL	K10305277131258	63	6	12	17	M5	80	36
HSK-A 63 SFH06 120 SLIM 2.5G 25000 SL	K10305277162258	63	6	12	21	M5	120	36
HSK-A 63 SFH06 160 SLIM 2.5G 25000 SL	K10305277175258	63	6	12	25	M5	160	36
HSK-A 63 SFH08 080 SLIM 2.5G 25000 SL	K10305285131258	63	8	14	19	M6	80	36
HSK-A 63 SFH08 120 SLIM 2.5G 25000 SL	K10305285162258	63	8	14	23	M6	120	36
HSK-A 63 SFH08 160 SLIM 2.5G 25000 SL	K10305285175258	63	8	14	27	M6	160	36
HSK-A 63 SFH10 085 SLIM 2.5G 25000 SL	K10305279135258	63	10	16	21.5	M8	85	41
HSK-A 63 SFH10 120 SLIM 2.5G 25000 SL	K10305279162258	63	10	16	25	M8	120	41
HSK-A 63 SFH10 160 SLIM 2.5G 25000 SL	K10305279175258	63	10	16	29	M8	160	41
HSK-A 63 SFH12 090 SLIM 2.5G 25000 SL	K10305280140258	63	12	18	24	M10	90	46
HSK-A 63 SFH12 120 SLIM 2.5G 25000 SL	K10305280162258	63	12	18	27	M10	120	46
HSK-A 63 SFH12 160 SLIM 2.5G 25000 SL	K10305280175258	63	12	18	31	M10	160	46
HSK-A 63 SFH14 090 SLIM 2.5G 25000 SL	K10305284140258	63	14	20	26	M10	90	46
HSK-A 63 SFH14 120 SLIM 2.5G 25000 SL	K10305284162258	63	14	20	29	M10	120	46
HSK-A 63 SFH14 160 SLIM 2.5G 25000 SL	K10305284175258	63	14	20	32	M10	160	46
HSK-A 63 SFH16 095 SLIM 2.5G 25000 SL	K10305281145258	63	16	22	28	M12	95	49
HSK-A 63 SFH16 120 SLIM 2.5G 25000 SL	K10305281162258	63	16	22	31	M12	120	49
HSK-A 63 SFH16 160 SLIM 2.5G 25000 SL	K10305281175258	63	16	22	34	M12	160	49
HSK-A 63 SFH18 095 SLIM 2.5G 25000 SL	K10305282145258	63	18	24	30	M12	95	49
HSK-A 63 SFH18 120 SLIM 2.5G 25000 SL	K10305282162258	63	18	24	33	M12	120	49
HSK-A 63 SFH18 160 SLIM 2.5G 25000 SL	K10305282175258	63	18	24	36	M12	160	49
HSK-A 63 SFH20 100 SLIM 2.5G 25000 SL	K10305283148258	63	20	26	32	M16	100	51
HSK-A 63 SFH20 120 SLIM 2.5G 25000 SL	K10305283162258	63	20	26	35	M16	120	51
HSK-A 63 SFH20 160 SLIM 2.5G 25000 SL	K10305283175258	63	20	26	38	M16	160	51

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder Slim 3 Degree (SFH SLIM 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



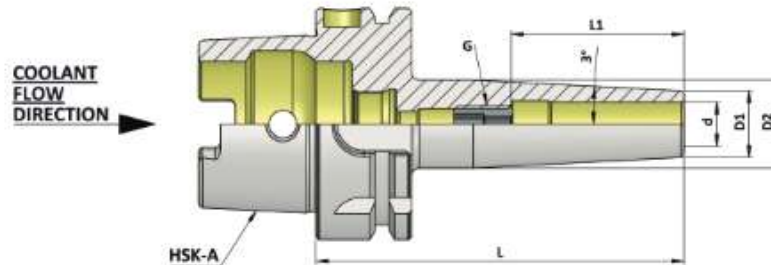
HSK-A (DIN 69893-1) (SFH SLIM 3°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 SFH1/8" 080 SLIM /2.5G 25000 SL	K10316978131542	63	1/8"	9	14	—	80	12
HSK-A 63 SFH1/8" 120 SLIM /2.5G 25000 SL	K10316978162542	63	1/8"	9	18	—	120	12
HSK-A 63 SFH1/8" 160 SLIM /2.5G 25000 SL	K10316978175542	63	1/8"	9	19	—	160	12
HSK-A 63 SFH3/16" 080 SLIM /2.5G 25000 SL	K10316979131542	63	3/16"	10	15	—	80	14
HSK-A 63 SFH3/16" 120 SLIM /2.5G 25000 SL	K10316979162542	63	3/16"	10	19	—	120	14
HSK-A 63 SFH3/16" 160 SLIM /2.5G 25000 SL	K10316979175542	63	3/16"	10	23	—	160	14
HSK-A 63 SFH1/4" 080 SLIM /2.5G 25000 SL	K10316980131542	63	1/4"	12	17	M5	80	36
HSK-A 63 SFH1/4" 120 SLIM /2.5G 25000 SL	K10316980162542	63	1/4"	12	21	M5	120	36
HSK-A 63 SFH1/4" 160 SLIM /2.5G 25000 SL	K10316980175542	63	1/4"	12	25	M5	160	36
HSK-A 63 SFH5/16" 080 SLIM /2.5G 25000 SL	K10316981131542	63	5/16"	14	19	M6	80	36
HSK-A 63 SFH5/16" 120 SLIM /2.5G 25000 SL	K10316981162542	63	5/16"	14	23	M6	120	36
HSK-A 63 SFH5/16" 160 SLIM /2.5G 25000 SL	K10316981175542	63	5/16"	14	27	M6	160	36
HSK-A 63 SFH3/8" 085 SLIM /2.5G 25000 SL	K10316982135542	63	3/8"	16	21.5	M8	85	41
HSK-A 63 SFH3/8" 120 SLIM /2.5G 25000 SL	K10316982162542	63	3/8"	16	25	M8	120	41
HSK-A 63 SFH3/8" 160 SLIM /2.5G 25000 SL	K10316982175542	63	3/8"	16	29	M8	160	41
HSK-A 63 SFH1/2" 090 SLIM /2.5G 25000 SL	K10316983140542	63	1/2"	18	24	M10	90	46
HSK-A 63 SFH1/2" 120 SLIM /2.5G 25000 SL	K10316983162542	63	1/2"	18	27	M10	120	46
HSK-A 63 SFH1/2" 160 SLIM /2.5G 25000 SL	K10316983175542	63	1/2"	18	31	M10	160	46
HSK-A 63 SFH5/8" 095 SLIM /2.5G 25000 SL	K10316984145542	63	5/8"	22	28	M12	95	49
HSK-A 63 SFH5/8" 120 SLIM /2.5G 25000 SL	K10316984162542	63	5/8"	22	31	M12	120	49
HSK-A 63 SFH5/8" 160 SLIM /2.5G 25000 SL	K10316984175542	63	5/8"	22	34	M12	160	49
HSK-A 63 SFH3/4" 100 SLIM /2.5G 25000 SL	K10316985148542	63	3/4"	26	32	M16	100	51
HSK-A 63 SFH3/4" 120 SLIM /2.5G 25000 SL	K10316985162542	63	3/4"	26	35	M16	120	51
HSK-A 63 SFH3/4" 160 SLIM /2.5G 25000 SL	K10316985175542	63	3/4"	26	38	M16	160	51

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder Slim 3 Degree (SFH SLIM 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



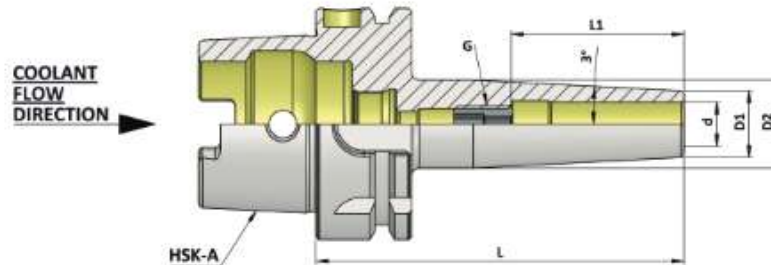
HSK-A (DIN 69893-1) (SFH SLIM 3°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 100 SFH06 085 SLIM 2.5G 25000 SL	K10168277135258	100	6	12	17	M5	85	36
HSK-A 100 SFH06 120 SLIM 2.5G 25000 SL	K10168277162258	100	6	12	20.5	M5	120	36
HSK-A 100 SFH06 160 SLIM 2.5G 25000 SL	K10168277175258	100	6	12	24	M5	160	36
HSK-A 100 SFH08 085 SLIM 2.5G 25000 SL	K10168285135258	100	8	14	19	M6	85	36
HSK-A 100 SFH08 120 SLIM 2.5G 25000 SL	K10168285162258	100	8	14	22.5	M6	120	36
HSK-A 100 SFH08 160 SLIM 2.5G 25000 SL	K10168285175258	100	8	14	27	M6	160	36
HSK-A 100 SFH10 090 SLIM 2.5G 25000 SL	K10168279140258	100	10	16	21.5	M8	90	41
HSK-A 100 SFH10 120 SLIM 2.5G 25000 SL	K10168279162258	100	10	16	24.5	M8	120	41
HSK-A 100 SFH10 160 SLIM 2.5G 25000 SL	K10168279175258	100	10	16	29	M8	160	41
HSK-A 100 SFH12 095 SLIM 2.5G 25000 SL	K10168280145258	100	12	18	24	M10	95	46
HSK-A 100 SFH12 120 SLIM 2.5G 25000 SL	K10168280162258	100	12	18	26.5	M10	120	46
HSK-A 100 SFH12 160 SLIM 2.5G 25000 SL	K10168280175258	100	12	18	31	M10	160	46
HSK-A 100 SFH14 095 SLIM 2.5G 25000 SL	K10168284145258	100	14	20	26	M10	95	46
HSK-A 100 SFH14 120 SLIM 2.5G 25000 SL	K10168284162258	100	14	20	29	M10	120	46
HSK-A 100 SFH14 160 SLIM 2.5G 25000 SL	K10168284175258	100	14	20	32	M10	160	46
HSK-A 100 SFH16 100 SLIM 2.5G 25000 SL	K10168281148258	100	16	22	29	M12	100	49
HSK-A 100 SFH16 120 SLIM 2.5G 25000 SL	K10168281162258	100	16	22	31	M12	120	49
HSK-A 100 SFH16 160 SLIM 2.5G 25000 SL	K10168281175258	100	16	22	35	M12	160	49
HSK-A 100 SFH18 100 SLIM 2.5G 25000 SL	K10168282148258	100	18	24	30	M12	100	49
HSK-A 100 SFH18 120 SLIM 2.5G 25000 SL	K10168282162258	100	18	24	33	M12	120	49
HSK-A 100 SFH18 160 SLIM 2.5G 25000 SL	K10168282175258	100	18	24	36	M12	160	49
HSK-A 100 SFH20 105 SLIM 2.5G 25000 SL	K10168283148258	100	20	26	32	M16	105	51
HSK-A 100 SFH20 120 SLIM 2.5G 25000 SL	K10168283162258	100	20	26	35	M16	120	51
HSK-A 100 SFH20 160 SLIM 2.5G 25000 SL	K10168283175258	100	20	26	38	M16	160	51

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Shrink Fit Holder Slim 3 Degree (SFH SLIM 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



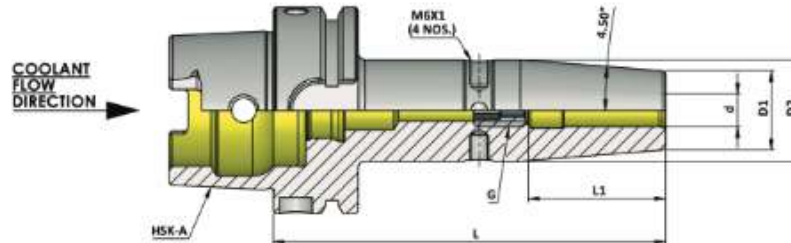
HSK-A (DIN 69893-1) (SFH SLIM 3°)				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1	
HSK-A 100 SFH1/4" 085 SLIM /2.5G 25000 SL	K10168980135542	100	1/4"	12	17	M5	85	36	
HSK-A 100 SFH1/4" 120 SLIM /2.5G 25000 SL	K10168980162542	100	1/4"	12	20.5	M5	120	36	
HSK-A 100 SFH1/4" 160 SLIM /2.5G 25000 SL	K10168980175542	100	1/4"	12	24	M5	160	36	
HSK-A 100 SFH5/16" 085 SLIM /2.5G 25000 SL	K10168981135542	100	5/16"	14	19	M6	85	36	
HSK-A 100 SFH5/16" 120 SLIM /2.5G 25000 SL	K10168981162542	100	5/16"	14	22.5	M6	120	36	
HSK-A 100 SFH5/16" 160 SLIM /2.5G 25000 SL	K10168981175542	100	5/16"	14	27	M6	160	36	
HSK-A 100 SFH3/8" 090 SLIM /2.5G 25000 SL	K10168982140542	100	3/8"	16	21.5	M8	90	41	
HSK-A 100 SFH3/8" 120 SLIM /2.5G 25000 SL	K10168982162542	100	3/8"	16	24.5	M8	120	41	
HSK-A 100 SFH3/8" 160 SLIM /2.5G 25000 SL	K10168982175542	100	3/8"	16	29	M8	160	41	
HSK-A 100 SFH1/2" 095 SLIM /2.5G 25000 SL	K10168983145542	100	1/2"	18	24	M10	95	46	
HSK-A 100 SFH1/2" 120 SLIM /2.5G 25000 SL	K10168983162542	100	1/2"	18	26.5	M10	120	46	
HSK-A 100 SFH1/2" 160 SLIM /2.5G 25000 SL	K10168983175542	100	1/2"	18	31	M10	160	46	
HSK-A 100 SFH5/8" 100 SLIM /2.5G 25000 SL	K10168984148542	100	5/8"	22	29	M12	100	49	
HSK-A 100 SFH5/8" 120 SLIM /2.5G 25000 SL	K10168984162542	100	5/8"	22	31	M12	120	49	
HSK-A 100 SFH5/8" 160 SLIM /2.5G 25000 SL	K10168984175542	100	5/8"	22	35	M12	160	49	
HSK-A 100 SFH3/4" 105 SLIM /2.5G 25000 SL	K10168985152542	100	3/4"	26	32	M16	105	51	
HSK-A 100 SFH3/4" 120 SLIM /2.5G 25000 SL	K10168985162542	100	3/4"	26	35	M16	120	51	
HSK-A 100 SFH3/4" 160 SLIM /2.5G 25000 SL	K10168985175542	100	3/4"	26	38	M16	160	51	

Note: All Dimensions are in mm

HSK-A 63 x 80 (DIN 69893 - 1) **Shrink Fit Holder 4.5 Degree (SFH 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



HSK-A 63 X 80 (DIN 69893-1) (SFH 4.5°) **(Balanced to 2.5G 25000 RPM)**

ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 X 80 SFH06 130 2.5G 25000 SL	K10394277165283	63	6	21	27	M5	130	36
HSK-A 63 X 80 SFH08 130 2.5G 25000 SL	K10394285165283	63	8	21	27	M6	130	36
HSK-A 63 X 80 SFH10 130 2.5G 25000 SL	K10394279165283	63	10	24	31	M8	130	41
HSK-A 63 X 80 SFH12 130 2.5G 25000 SL	K10394280165283	63	12	24	31	M10	130	46
HSK-A 63 X 80 SFH14 130 2.5G 25000 SL	K10394284165283	63	14	27	34	M10	130	46
HSK-A 63 X 80 SFH16 130 2.5G 25000 SL	K10394281165283	63	16	27	34	M12	130	49
HSK-A 63 X 80 SFH18 130 2.5G 25000 SL	K10394282165283	63	18	33	40	M16	130	49
HSK-A 63 X 80 SFH20 130 2.5G 25000 SL	K10394283165283	63	20	33	40	M16	130	51

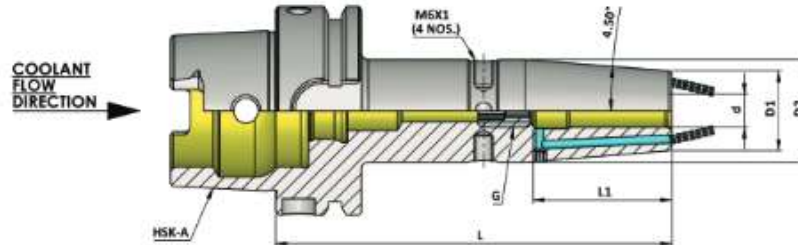
HSK-A 63 X 80 SFH1/4" 130 2.5G 25000 SL	K10394980165283	63	1/4"	21	27	M5	130	36
HSK-A 63 X 80 SFH5/16" 130 2.5G 25000 SL	K10394981165283	63	5/16"	21	27	M6	130	36
HSK-A 63 X 80 SFH3/8" 130 2.5G 25000 SL	K10394982165283	63	3/8"	24	31	M8	130	41
HSK-A 63 X 80 SFH1/2" 130 2.5G 25000 SL	K10394983165283	63	1/2"	24	31	M10	130	46
HSK-A 63 X 80 SFH5/8" 130 2.5G 25000 SL	K10394984165283	63	5/8"	27	34	M12	130	49
HSK-A 63 X 80 SFH3/4" 130 2.5G 25000 SL	K10394985165283	63	3/4"	33	40	M16	130	51

Note: All Dimensions are in mm

HSK-A 63 x 80 (DIN 69893 - 1) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



HSK-A 63 X 80 (DIN 69893-1) (SFH FCC 4.5°) (Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1
HSK-A 63 X 80 SFH06 130 FCC 2.5G 25000 SL	K10394277165256	63	6	21	27	M5	130	36
HSK-A 63 X 80 SFH08 130 FCC 2.5G 25000 SL	K10394285165256	63	8	21	27	M6	130	36
HSK-A 63 X 80 SFH10 130 FCC 2.5G 25000 SL	K10394279165256	63	10	24	31	M8	130	41
HSK-A 63 X 80 SFH12 130 FCC 2.5G 25000 SL	K10394280165256	63	12	24	31	M10	130	46
HSK-A 63 X 80 SFH14 130 FCC 2.5G 25000 SL	K10394284165256	63	14	27	34	M10	130	46
HSK-A 63 X 80 SFH16 130 FCC 2.5G 25000 SL	K10394281165256	63	16	27	34	M12	130	49
HSK-A 63 X 80 SFH18 130 FCC 2.5G 25000 SL	K10394282165256	63	18	33	40	M16	130	49
HSK-A 63 X 80 SFH20 130 FCC 2.5G 25000 SL	K10394283165256	63	20	33	40	M16	130	51

HSK-A 63 X 80 SFH1/4" 130 FCC 2.5G 25000 SL	K10394980165256	63	1/4"	21	27	M5	130	36
HSK-A 63 X 80 SFH5/16" 130 FCC 2.5G 25000 SL	K10394981165256	63	5/16"	21	27	M6	130	36
HSK-A 63 X 80 SFH3/8" 130 FCC 2.5G 25000 SL	K10394982165256	63	3/8"	24	31	M8	130	41
HSK-A 63 X 80 SFH1/2" 130 FCC 2.5G 25000 SL	K10394983165256	63	1/2"	24	31	M10	130	46
HSK-A 63 X 80 SFH5/8" 130 FCC 2.5G 25000 SL	K10394984165256	63	5/8"	27	34	M12	130	49
HSK-A 63 X 80 SFH3/4" 130 FCC 2.5G 25000 SL	K10394985165256	63	3/4"	33	40	M16	130	51

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/18/20/25/32mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"
Having GPL 200/250/300/350/400 MM
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

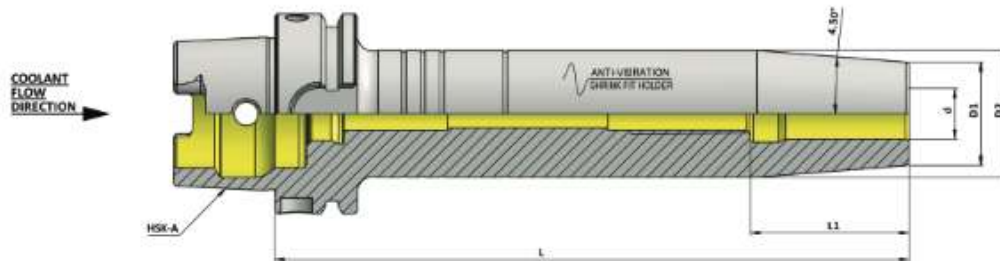
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



HSK-A (DIN 69893-1) **Shrink Fit Holder 4.5 Degree Anti - Vibration** **(SFH 4.5° - AV)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893-1) (SFH 4.5° - AV)

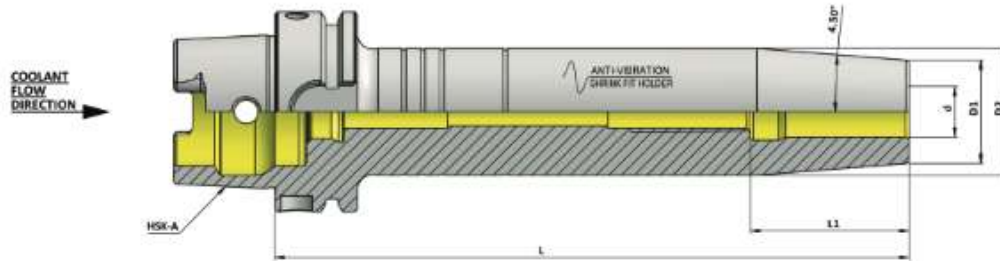
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	L	L1
HSK-A 63 SFH16 200 AV	K10305281239539	63	16	27	34	200	49
HSK-A 63 SFH16 250 AV	K10305281182539	63	16	27	34	250	49
HSK-A 63 SFH16 300 AV	K10305281183539	63	16	27	34	300	49
HSK-A 63 SFH18 200 AV	K10305282239539	63	18	33	40	200	49
HSK-A 63 SFH18 250 AV	K10305282182539	63	18	33	40	250	49
HSK-A 63 SFH18 300 AV	K10305282183539	63	18	33	40	300	49
HSK-A 63 SFH20 200 AV	K10305283239539	63	20	33	40	200	51
HSK-A 63 SFH20 250 AV	K10305283182539	63	20	33	40	250	51
HSK-A 63 SFH20 300 AV	K10305283183539	63	20	33	40	300	51
HSK-A 63 SFH25 200 AV	K10305287239539	63	25	44	53	200	57
HSK-A 63 SFH25 250 AV	K10305287182539	63	25	44	53	250	57
HSK-A 63 SFH25 300 AV	K10305287183539	63	25	44	53	300	57
HSK-A 63 SFH32 200 AV	K10305288239539	63	32	44	53	200	61
HSK-A 63 SFH32 250 AV	K10305288182209	63	32	44	53	250	61
HSK-A 63 SFH32 300 AV	K10305288183539	63	32	44	53	300	61
HSK-A 63 SFH5/8" 200 AV	K10305984239539	63	5/8"	27	34	200	49
HSK-A 63 SFH5/8" 250 AV	K10305984182539	63	5/8"	27	34	250	49
HSK-A 63 SFH5/8" 300 AV	K10305984183539	63	5/8"	27	34	300	49
HSK-A 63 SFH3/4" 200 AV	K10305985239539	63	3/4"	33	40	200	51
HSK-A 63 SFH3/4" 250 AV	K10305985182539	63	3/4"	33	40	250	51
HSK-A 63 SFH3/4" 300 AV	K10305985183539	63	3/4"	33	40	300	51
HSK-A 63 SFH1.0" 200 AV	K10305986239539	63	1.0"	44	53	200	57
HSK-A 63 SFH1.0" 250 AV	K10305986182539	63	1.0"	44	53	250	57
HSK-A 63 SFH1.0" 300 AV	K10305986183539	63	1.0"	44	53	300	57
HSK-A 63 SFH1-1/4" 200 AV	K10305987239539	63	1-1/4"	44	53	200	61
HSK-A 63 SFH1-1/4" 250 AV	K10305987182539	63	1-1/4"	44	53	250	61
HSK-A 63 SFH1-1/4" 300 AV	K10305987183539	63	1-1/4"	44	53	300	61

Note: All Dimensions are in mm

HSK-A (DIN 69893-1) **Shrink Fit Holder 4.5 Degree Anti - Vibration** **(SFH 4.5° - AV)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893-1) (SFH 4.5° - AV)

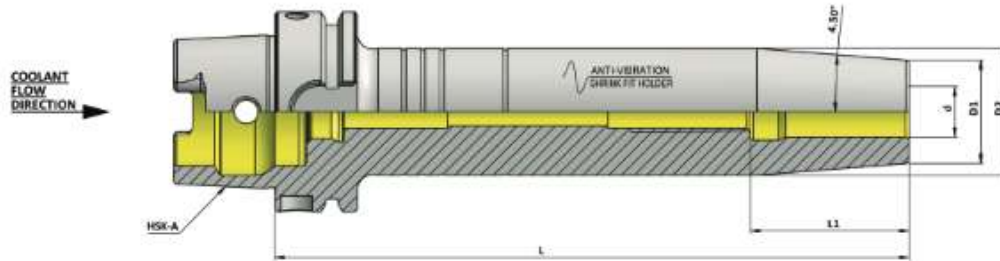
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	L	L1
HSK-A 100 SFH16 200 AV	K10168281239539	100	16	27	34	200	49
HSK-A 100 SFH16 250 AV	K10168281182539	100	16	27	34	250	49
HSK-A 100 SFH16 300 AV	K10168281183539	100	16	27	34	300	49
HSK-A 100 SFH16 350 AV	K10168281184539	100	16	27	34	350	49
HSK-A 100 SFH16 400 AV	K10168281540539	100	16	27	34	400	49
HSK-A 100 SFH18 200 AV	K10168282239539	100	18	33	40	200	49
HSK-A 100 SFH18 250 AV	K10168282182539	100	18	33	40	250	49
HSK-A 100 SFH18 300 AV	K10168282183539	100	18	33	40	300	49
HSK-A 100 SFH18 350 AV	K10168282184539	100	18	33	40	350	49
HSK-A 100 SFH18 400 AV	K10168282540539	100	18	33	40	400	49
HSK-A 100 SFH20 200 AV	K10168283239539	100	20	33	40	200	51
HSK-A 100 SFH20 250 AV	K10168283182539	100	20	33	40	250	51
HSK-A 100 SFH20 300 AV	K10168283183539	100	20	33	40	300	51
HSK-A 100 SFH20 350 AV	K10168283184539	100	20	33	40	350	51
HSK-A 100 SFH20 400 AV	K10168283540539	100	20	33	40	400	51
HSK-A 100 SFH25 200 AV	K10168287239539	100	25	44	53	200	57
HSK-A 100 SFH25 250 AV	K10168287182539	100	25	44	53	250	57
HSK-A 100 SFH25 300 AV	K10168287183539	100	25	44	53	300	57
HSK-A 100 SFH25 350 AV	K10168287184539	100	25	44	53	350	57
HSK-A 100 SFH25 400 AV	K10168287540539	100	25	44	53	400	57
HSK-A 100 SFH32 200 AV	K10168288239539	100	32	44	53	200	61
HSK-A 100 SFH32 250 AV	K10168288182539	100	32	44	53	250	61
HSK-A 100 SFH32 300 AV	K10168288183539	100	32	44	53	300	61
HSK-A 100 SFH32 350 AV	K10168288184539	100	32	44	53	350	61
HSK-A 100 SFH32 400 AV	K10168288540539	100	32	44	53	400	61

Note: All Dimensions are in mm

HSK-A (DIN 69893-1) **Shrink Fit Holder 4.5 Degree Anti - Vibration** **(SFH 4.5° - AV)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893-1) (SFH 4.5° - AV)

ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	L	L1
HSK-A 100 SFH5/8" 200 AV	K10168984239539	100	5/8"	27	34	200	49
HSK-A 100 SFH5/8" 250 AV	K10168984182539	100	5/8"	27	34	250	49
HSK-A 100 SFH5/8" 300 AV	K10168984183539	100	5/8"	27	34	300	49
HSK-A 100 SFH5/8" 350 AV	K10168984184539	100	5/8"	27	34	350	49
HSK-A 100 SFH5/8" 400 AV	K10168984540539	100	5/8"	27	34	400	49
HSK-A 100 SFH3/4" 200 AV	K10168985239539	100	3/4"	33	40	200	51
HSK-A 100 SFH3/4" 250 AV	K10168985182539	100	3/4"	33	40	250	51
HSK-A 100 SFH3/4" 300 AV	K10168985183539	100	3/4"	33	40	300	51
HSK-A 100 SFH3/4" 350 AV	K10168985184539	100	3/4"	33	40	350	51
HSK-A 100 SFH3/4" 400 AV	K10168985540539	100	3/4"	33	40	400	51
HSK-A 100 SFH1.0" 200 AV	K10168986239539	100	1.0"	44	53	200	57
HSK-A 100 SFH1.0" 250 AV	K10168986182539	100	1.0"	44	53	250	57
HSK-A 100 SFH1.0" 300 AV	K10168986183539	100	1.0"	44	53	300	57
HSK-A 100 SFH1.0" 350 AV	K10168986184539	100	1.0"	44	53	350	57
HSK-A 100 SFH1.0" 400 AV	K10168986540539	100	1.0"	44	53	400	57
HSK-A 100 SFH1-1/4" 200 AV	K10168987239539	100	1-1/4"	44	53	200	61
HSK-A 100 SFH1-1/4" 250 AV	K10168987182539	100	1-1/4"	44	53	250	61
HSK-A 100 SFH1-1/4" 300 AV	K10168987183539	100	1-1/4"	44	53	300	61
HSK-A 100 SFH1-1/4" 350 AV	K10168987184539	100	1-1/4"	44	53	350	61
HSK-A 100 SFH1-1/4" 400 AV	K10168987540539	100	1-1/4"	44	53	400	61

Note: All Dimensions are in mm

Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Features:

- Maximum Run-out of external diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm

Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm

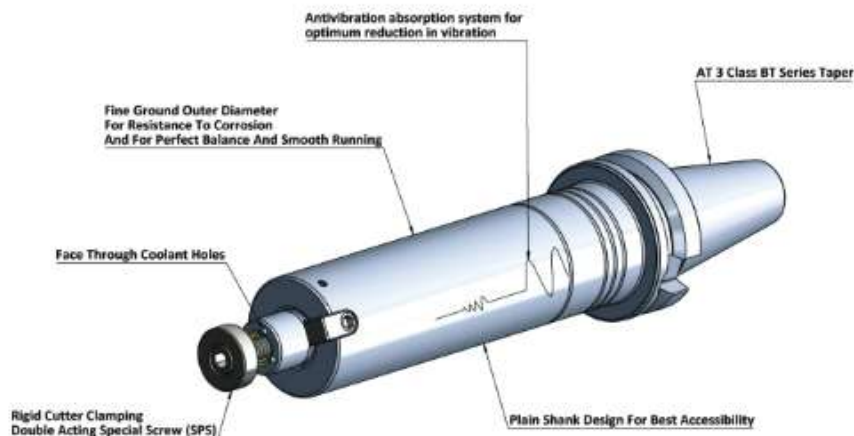
- Through Coolant Facility Double Acting Nut for cutter clamping

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life & run-away of metal swarf Perfect Alignment with cutter face & rigid clamping.

Available In Mountings :

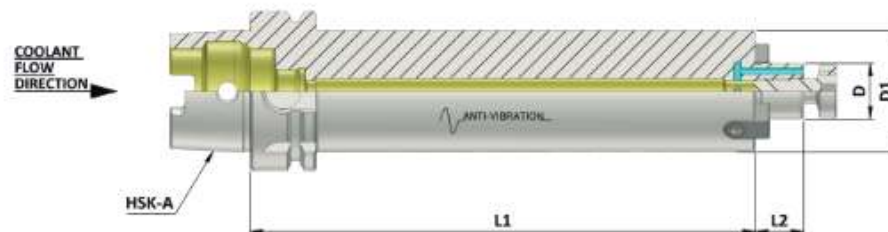
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



HSK-A (DIN 69893 - 1) Face Mill Holder Anti - Vibration (FMH-K AV)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (FMH-K AV)

ITEM NAME	ITEM CODE	HSK-A	D	D1	L1	L2
HSK-A 63 FMH-K16 200 AV SP.S	K10305131239270	63	16	38	200	17
HSK-A 63 FMH-K16 250 AV SP.S	K10316131182270	63	16	38	250	17
HSK-A 63 FMH-K16 300 AV SP.S	K10305131183270	63	16	38	300	17
HSK-A 63 FMH-K22 200 AV SP.S	K10305127239260	63	22	48	200	19
HSK-A 63 FMH-K22 250 AV SP.S	K10316132182270	63	22	48	250	19
HSK-A 63 FMH-K22 300 AV SP.S	K10305127183260	63	22	48	300	19
HSK-A 63 FMH-K27 200 AV SP.S	K10305133239270	63	27	58	200	21
HSK-A 63 FMH-K27 250 AV SP.S	K10316133182270	63	27	58	250	21
HSK-A 63 FMH-K27 300 AV SP.S	K10316133183270	63	27	58	300	21
HSK-A 63 FMH-K32 200 AV SP.S	K10305134239270	63	32	78	200	24
HSK-A 63 FMH-K32 250 AV SP.S	K10305134182270	63	32	78	250	24
HSK-A 63 FMH-K32 300 AV SP.S	K10305134183270	63	32	78	300	24
HSK-A 63 FMH-K40 200 AV SP.S	K10305576239270	63	40	88	200	27
HSK-A 63 FMH-K40 250 AV SP.S	K10305576182270	63	40	88	250	27
HSK-A 63 FMH-K40 300 AV SP.S	K10305576183270	63	40	88	300	27

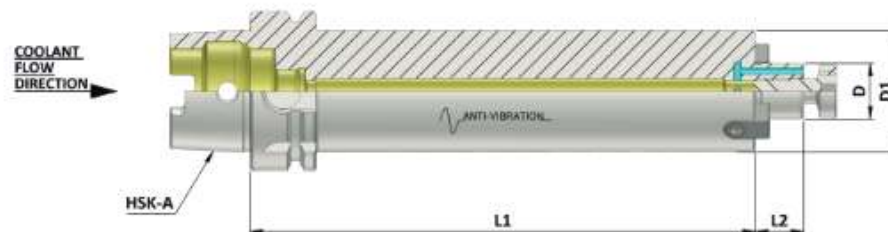
HSK-A 63 FMH-K3/4" 200 AV	K10305958239539	63	3/4"	2.0"	200	0.687"
HSK-A 63 FMH-K3/4" 250 AV	K10305958182539	63	3/4"	2.0"	250	0.687"
HSK-A 63 FMH-K3/4" 300 AV	K10305958183539	63	3/4"	2.0"	300	0.687"
HSK-A 63 FMH-K1.0" 200 AV	K10305959239539	63	1.0"	2.375"	200	0.687"
HSK-A 63 FMH-K1.0" 250 AV	K10305959182539	63	1.0"	2.375"	250	0.687"
HSK-A 63 FMH-K1.0" 300 AV	K10305959183539	63	1.0"	2.375"	300	0.687"
HSK-A 63 FMH-K1-1/4" 200 AV	K10305960239270	63	1-1/4"	2.875"	200	0.687"
HSK-A 63 FMH-K1-1/4" 250 AV	K10305960182270	63	1-1/4"	2.875"	250	0.687"
HSK-A 63 FMH-K1-1/4" 300 AV	K10305960183539	63	1-1/4"	2.875"	300	0.687"
HSK-A 63 FMH-K1-1/2" 200 AV	K10305639239539	63	1-1/2"	3.750"	200	0.938"
HSK-A 63 FMH-K1-1/2" 250 AV	K10305639182539	63	1-1/2"	3.750"	250	0.938"
HSK-A 63 FMH-K1-1/2" 300 AV	K10305639183539	63	1-1/2"	3.750"	300	0.938"

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Face Mill Holder Anti - Vibration (FMH-K AV)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (FMH-K AV)

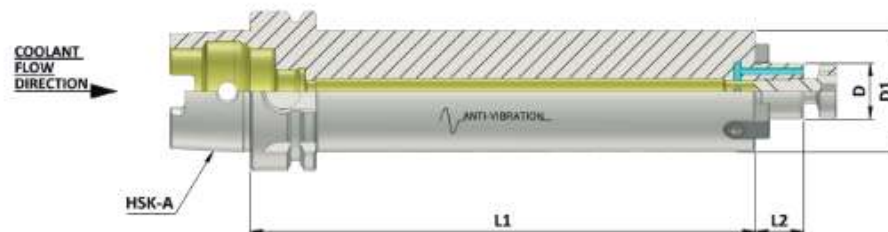
ITEM NAME	ITEM CODE	HSK-A	D	D1	L1	L2
HSK-A 100 FMH-K16 200 AV SP.S	K10168131239270	100	16	38	200	17
HSK-A 100 FMH-K16 250 AV SP.S	K10168131182270	100	16	38	250	17
HSK-A 100 FMH-K16 300 AV SP.S	K10168131183270	100	16	38	300	17
HSK-A 100 FMH-K16 350 AV SP.S	K10168131184270	100	16	38	350	17
HSK-A 100 FMH-K16 400 AV SP.S	K10168131540270	100	16	38	400	17
HSK-A 100 FMH-K22 200 AV SP.S	K10168132239270	100	22	48	200	19
HSK-A 100 FMH-K22 250 AV SP.S	K10168132182270	100	22	48	250	19
HSK-A 100 FMH-K22 300 AV SP.S	K10168132183270	100	22	48	300	19
HSK-A 100 FMH-K22 350 AV SP.S	K10168132184270	100	22	48	350	19
HSK-A 100 FMH-K22 400 AV SP.S	K10168132540270	100	22	48	400	19
HSK-A 100 FMH-K27 200 AV SP.S	K10168133239270	100	27	58	200	21
HSK-A 100 FMH-K27 250 AV SP.S	K10168133182270	100	27	58	250	21
HSK-A 100 FMH-K27 300 AV SP.S	K10168133183270	100	27	58	300	21
HSK-A 100 FMH-K27 350 AV SP.S	K10168133184270	100	27	58	350	21
HSK-A 100 FMH-K27 400 AV SP.S	K10168133540270	100	27	58	400	21
HSK-A 100 FMH-K32 200 AV SP.S	K10168134239270	100	32	78	200	24
HSK-A 100 FMH-K32 250 AV SP.S	K10168134182270	100	32	78	250	24
HSK-A 100 FMH-K32 300 AV SP.S	K10168134183270	100	32	78	300	24
HSK-A 100 FMH-K32 350 AV SP.S	K10168134184270	100	32	78	350	24
HSK-A 100 FMH-K32 400 AV SP.S	K10168134540270	100	32	78	400	24
HSK-A 100 FMH-K40 200 AV SP.S	K10168576239270	100	40	88	200	27
HSK-A 100 FMH-K40 250 AV SP.S	K10168576182270	100	40	88	250	27
HSK-A 100 FMH-K40 300 AV SP.S	K10168576183270	100	40	88	300	27
HSK-A 100 FMH-K40 350 AV SP.S	K10168576184270	100	40	88	350	27
HSK-A 100 FMH-K40 400 AV SP.S	K10168576184270	100	40	88	400	27

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Face Mill Holder Anti - Vibration (FMH-K AV)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (FMH-K AV)

ITEM NAME	ITEM CODE	HSK-A	D	D1	L1	L2
HSK-A 100 FMH-K3/4" 200 AV	K10168958239539	100	3/4"	2.0"	200	0.687"
HSK-A 100 FMH-K3/4" 250 AV	K10168958182539	100	3/4"	2.0"	250	0.687"
HSK-A 100 FMH-K3/4" 300 AV	K10168958183539	100	3/4"	2.0"	300	0.687"
HSK-A 100 FMH-K3/4" 350 AV	K10168958184539	100	3/4"	2.0"	350	0.687"
HSK-A 100 FMH-K3/4" 400 AV	K10168958540539	100	3/4"	2.0"	400	0.687"
HSK-A 100 FMH-K1.0" 200 AV	K10168959239539	100	1.0"	2.375"	200	0.687"
HSK-A 100 FMH-K1.0" 250 AV	K10168959182539	100	1.0"	2.375"	250	0.687"
HSK-A 100 FMH-K1.0" 300 AV	K10168959183539	100	1.0"	2.375"	300	0.687"
HSK-A 100 FMH-K1.0" 350 AV	K10168959184539	100	1.0"	2.375"	350	0.687"
HSK-A 100 FMH-K1.0" 400 AV	K10168959540539	100	1.0"	2.375"	400	0.687"
HSK-A 100 FMH-K1-1/4" 200 AV	K10168960239539	100	1-1/4"	2.875"	200	0.687"
HSK-A 100 FMH-K1-1/4" 250 AV	K10168960182539	100	1-1/4"	2.875"	250	0.687"
HSK-A 100 FMH-K1-1/4" 300 AV	K10168960183539	100	1-1/4"	2.875"	300	0.687"
HSK-A 100 FMH-K1-1/4" 350 AV	K10168960184539	100	1-1/4"	2.875"	350	0.687"
HSK-A 100 FMH-K1-1/4" 400 AV	K10168960540539	100	1-1/4"	2.875"	400	0.687"
HSK-A 100 FMH-K1-1/2" 200 AV	K10168639239539	100	1-1/2"	3.750"	200	0.938"
HSK-A 100 FMH-K1-1/2" 250 AV	K10168639182539	100	1-1/2"	3.750"	250	0.938"
HSK-A 100 FMH-K1-1/2" 300 AV	K10168639183539	100	1-1/2"	3.750"	300	0.938"
HSK-A 100 FMH-K1-1/2" 350 AV	K10168639184539	100	1-1/2"	3.750"	350	0.938"
HSK-A 100 FMH-K1-1/2" 400 AV	K10168639540539	100	1-1/2"	3.750"	400	0.938"

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2" Having GPL - 200/250/300/350/400mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

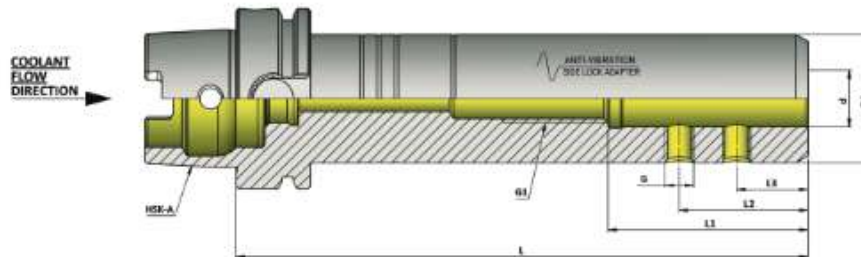
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



HSK-A (DIN 69893 - 1) Side Lock Adaptor Anti - Vibration (SLA - AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (SLA - AV)

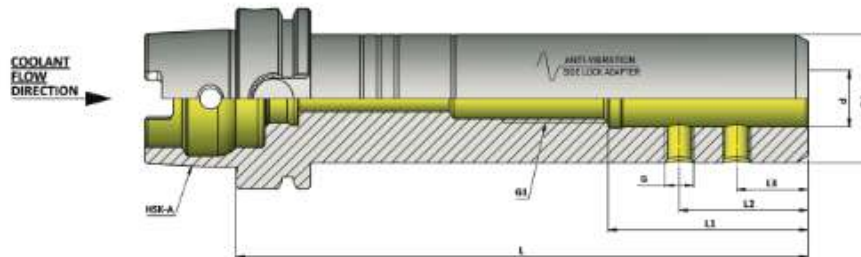
ITEM NAME	ITEM CODE	HSK-A	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
HSK-A 63 SLA16 200 AV	K10305105239539	63	16	48	M14	M12	200	57	-	23.50	1
HSK-A 63 SLA16 250 AV	K10305105182539	63	16	48	M14	M12	250	57	-	23.50	1
HSK-A 63 SLA16 300 AV	K10305105183539	63	16	48	M14	M12	300	57	-	23.50	1
HSK-A 63 SLA20 200 AV	K10305106239539	63	20	50	M10	M16	200	70	45	25	2
HSK-A 63 SLA20 250 AV	K10305106182539	63	20	50	M10	M16	250	70	45	25	2
HSK-A 63 SLA20 300 AV	K10305106183539	63	20	50	M10	M16	300	70	45	25	2
HSK-A 63 SLA25 200 AV	K10305107239539	63	25	50	M10	M16	200	70	45	25	2
HSK-A 63 SLA25 250 AV	K10305107182539	63	25	50	M10	M16	250	70	45	25	2
HSK-A 63 SLA25 300 AV	K10305107183539	63	25	50	M10	M16	300	70	45	25	2
HSK-A 63 SLA32 200 AV	K10305108239539	63	32	60	M10	M16	200	70	50	30	2
HSK-A 63 SLA32 250 AV	K10305108182539	63	32	60	M10	M16	250	70	50	30	2
HSK-A 63 SLA32 300 AV	K10305108183539	63	32	60	M10	M16	300	70	50	30	2
HSK-A 63 SLA40 200 AV	K10305109239539	63	40	60	M10	M16	200	70	50	30	2
HSK-A 63 SLA40 250 AV	K10305109182539	63	40	60	M10	M16	250	70	50	30	2
HSK-A 63 SLA40 300 AV	K10305109183539	63	40	60	M10	M16	300	70	50	30	2

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Side Lock Adaptor Anti - Vibration (SLA - AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (SLA - AV)

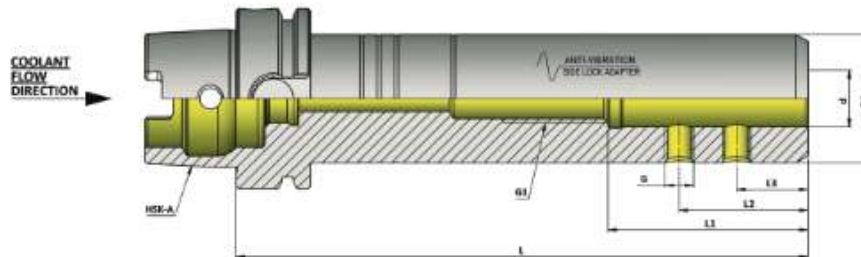
ITEM NAME	ITEM CODE	HSK-A	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
HSK-A 63 SLA5/8" 200 AV	K10316989239561	63	5/8"	48	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
HSK-A 63 SLA5/8" 250 AV	K10316989182561	63	5/8"	48	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
HSK-A 63 SLA5/8" 300 AV	K10316989183561	63	5/8"	48	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
HSK-A 63 SLA3/4" 200 AV	K10316990239561	63	3/4"	50	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
HSK-A 63 SLA3/4" 250 AV	K10316990182561	63	3/4"	50	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
HSK-A 63 SLA3/4" 300 AV	K10316990183561	63	3/4"	50	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
HSK-A 63 SLA1.0" 200 AV	K10316991239561	63	1.0"	50	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
HSK-A 63 SLA1.0" 250 AV	K10316991182561	63	1.0"	50	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
HSK-A 63 SLA1.0" 300 AV	K10316991183561	63	1.0"	50	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
HSK-A 63 SLA1 1/4" 200 AV	K10316992239561	63	1-1/4"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
HSK-A 63 SLA1 1/4" 250 AV	K10316992182561	63	1-1/4"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
HSK-A 63 SLA1 1/4" 300 AV	K10316992183561	63	1-1/4"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
HSK-A 63 SLA1 1/2" 200 AV	K10316993239561	63	1-1/2"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
HSK-A 63 SLA1 1/2" 250 AV	K10316993182561	63	1-1/2"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
HSK-A 63 SLA1 1/2" 300 AV	K10316993183561	63	1-1/2"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) **Side Lock Adaptor Anti - Vibration (SLA - AV)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (SLA - AV)

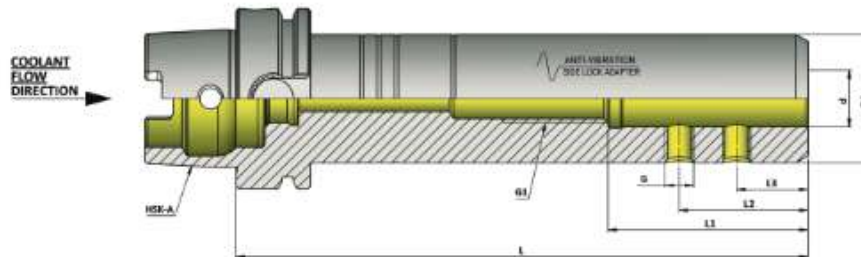
ITEM NAME	ITEM CODE	HSK-A	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
HSK-A 100 SLA16 200 AV	K10168105239539	100	16	48	M14	M12	200	57	-	23.50	1
HSK-A 100 SLA16 250 AV	K10168105182539	100	16	48	M14	M12	250	57	-	23.50	1
HSK-A 100 SLA16 300 AV	K10168105183539	100	16	48	M14	M12	300	57	-	23.50	1
HSK-A 100 SLA16 350 AV	K10168105184539	100	16	48	M14	M12	350	57	-	23.50	1
HSK-A 100 SLA16 400 AV	K10168105540539	100	16	48	M14	M12	400	57	-	23.50	1
HSK-A 100 SLA20 200 AV	K10168106239539	100	20	50	M10	M16	200	70	45	25	2
HSK-A 100 SLA20 250 AV	K10168106182539	100	20	50	M10	M16	250	70	45	25	2
HSK-A 100 SLA20 300 AV	K10168106183539	100	20	50	M10	M16	300	70	45	25	2
HSK-A 100 SLA20 350 AV	K10168106184539	100	20	50	M10	M16	350	70	45	25	2
HSK-A 100 SLA20 400 AV	K10168106540539	100	20	50	M10	M16	400	70	45	25	2
HSK-A 100 SLA25 200 AV	K10168107239539	100	25	50	M10	M16	200	70	45	25	2
HSK-A 100 SLA25 250 AV	K10168107182539	100	25	50	M10	M16	250	70	45	25	2
HSK-A 100 SLA25 300 AV	K10168107183539	100	25	50	M10	M16	300	70	45	25	2
HSK-A 100 SLA25 350 AV	K10168107184539	100	25	50	M10	M16	350	70	45	25	2
HSK-A 100 SLA25 400 AV	K10168107540539	100	25	50	M10	M16	400	70	45	25	2
HSK-A 100 SLA32 200 AV	K10168108239539	100	32	60	M10	M16	200	70	50	30	2
HSK-A 100 SLA32 250 AV	K10168108182539	100	32	60	M10	M16	250	70	50	30	2
HSK-A 100 SLA32 300 AV	K10168108183539	100	32	60	M10	M16	300	70	50	30	2
HSK-A 100 SLA32 350 AV	K10168108184539	100	32	60	M10	M16	350	70	50	30	2
HSK-A 100 SLA32 400 AV	K10168108540539	100	32	60	M10	M16	400	70	50	30	2
HSK-A 100 SLA40 200 AV	K10168109239539	100	40	60	M10	M16	200	70	50	30	2
HSK-A 100 SLA40 250 AV	K10168109182539	100	40	60	M10	M16	250	70	50	30	2
HSK-A 100 SLA40 300 AV	K10168109183539	100	40	60	M10	M16	300	70	50	30	2
HSK-A 100 SLA40 350 AV	K10168109184539	100	40	60	M10	M16	350	70	50	30	2
HSK-A 100 SLA40 400 AV	K10168109540539	100	40	60	M10	M16	400	70	50	30	2

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Side Lock Adaptor Anti - Vibration (SLA - AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (SLA - AV)

ITEM NAME	ITEM CODE	HSK-A	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
HSK-A 100 SLA5/8" 200 AV	K10168989239561	100	5/8"	48	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
HSK-A 100 SLA5/8" 250 AV	K10168989182561	100	5/8"	48	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
HSK-A 100 SLA5/8" 300 AV	K10168989183561	100	5/8"	48	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
HSK-A 100 SLA5/8" 350 AV	K10168989184561	100	5/8"	48	1/2"20UNFx7/16"	M12	350	57	-	0.937"	1
HSK-A 100 SLA5/8" 400 AV	K10168989540561	100	5/8"	48	1/2"20UNFx7/16"	M12	400	57	-	0.937"	1
HSK-A 100 SLA3/4" 200 AV	K10168990239561	100	3/4"	50	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
HSK-A 100 SLA3/4" 250 AV	K10168990182561	100	3/4"	50	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
HSK-A 100 SLA3/4" 300 AV	K10168990183561	100	3/4"	50	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
HSK-A 100 SLA3/4" 350 AV	K10168990184561	100	3/4"	50	5/8"18UNFx1/2"	M16	350	59	-	1.00"	1
HSK-A 100 SLA3/4" 400 AV	K10168990540561	100	3/4"	50	5/8"18UNFx1/2"	M16	400	59	-	1.00"	1
HSK-A 100 SLA1.0" 200 AV	K10168991239561	100	1.0"	50	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
HSK-A 100 SLA1.0" 250 AV	K10168991182561	100	1.0"	50	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
HSK-A 100 SLA1.0" 300 AV	K10168991183561	100	1.0"	50	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
HSK-A 100 SLA1.0" 350 AV	K10168991184561	100	1.0"	50	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
HSK-A 100 SLA1.0" 400 AV	K10168991540561	100	1.0"	50	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/4" 200 AV	K10168992239561	100	1-1/4"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/4" 250 AV	K10168992182561	100	1-1/4"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/4" 300 AV	K10168992183561	100	1-1/4"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/4" 350 AV	K10168992184561	100	1-1/4"	60	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/4" 400 AV	K10168992540561	100	1-1/4"	60	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/2" 200 AV	K10168993239561	100	1-1/2"	60	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/2" 250 AV	K10168993182561	100	1-1/2"	60	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/2" 300 AV	K10168993183561	100	1-1/2"	60	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/2" 350 AV	K10168993184561	100	1-1/2"	60	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
HSK-A 100 SLA1 1/2" 400 AV	K10168993540561	100	1-1/2"	60	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal taper w.r.t external taper is within 0.010 mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Holding ER 16/20/25/32/40 mm Having GPL - 200/250/300/350/400 mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

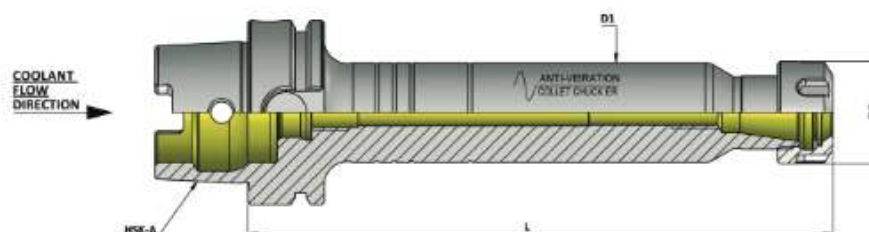
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



HSK-A (DIN 69893 - 1) Collet Chuck ER Anti - vibration (ER AV)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (ER AV)

ITEM NAME	ITEM CODE	HSK-A	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
HSK-A 63 ER 16 200 AV	K10316149239539	63	ER 16	0.5-10	30	32	200	UM/ER16	E16
HSK-A 63 ER 16 250 AV	K10316149182539	63	ER 16	0.5-10	30	32	250	UM/ER16	E16
HSK-A 63 ER 16 300 AV	K10316149183539	63	ER 16	0.5-10	30	32	300	UM/ER16	E16
HSK-A 63 ER 20 200 AV	K10316150239539	63	ER 20	1.0-13	34	35	200	UM/ER20	E20
HSK-A 63 ER 20 250 AV	K10316150182539	63	ER 20	1.0-13	34	35	250	UM/ER20	E20
HSK-A 63 ER 20 300 AV	K10316150183539	63	ER 20	1.0-13	34	35	300	UM/ER20	E20
HSK-A 63 ER 25 200 AV	K10316151239539	63	ER 25	1.0-16	40	42	200	UM/ER25	E25
HSK-A 63 ER 25 250 AV	K10316151182539	63	ER 25	1.0-16	40	42	250	UM/ER25	E25
HSK-A 63 ER 25 300 AV	K10316151183539	63	ER 25	1.0-16	40	42	300	UM/ER25	E25
HSK-A 63 ER 32 200 AV	K10316152239539	63	ER 32	2.0-20	48	50	200	UM/ER32	E32
HSK-A 63 ER 32 250 AV	K10316152182539	63	ER 32	2.0-20	48	50	250	UM/ER32	E32
HSK-A 63 ER 32 300 AV	K10316152183539	63	ER 32	2.0-20	48	50	300	UM/ER32	E32
HSK-A 63 ER 40 200 AV	K10316153239539	63	ER 40	3.0-26	52	63	200	UM/ER40	E40
HSK-A 63 ER 40 250 AV	K10316153182539	63	ER 40	3.0-26	52	63	250	UM/ER40	E40
HSK-A 63 ER 40 300 AV	K10316153183539	63	ER 40	3.0-26	52	63	300	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



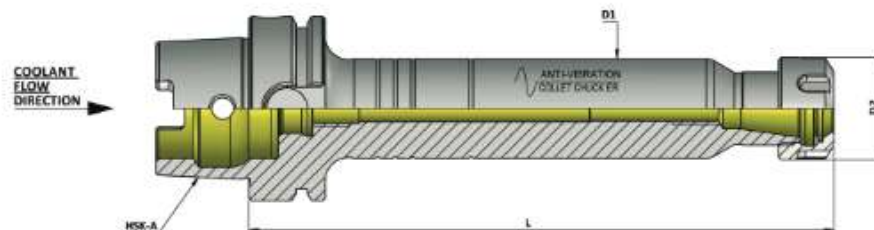
ER SPANNER

Note: All Dimensions are in mm

HSK-A (DIN 69893 - 1) Collet Chuck ER Anti - vibration (ER AV)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



HSK-A (DIN 69893 - 1) (ER AV)

ITEM NAME	ITEM CODE	HSK-A	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
HSK-A 100 ER 16 200 AV	K10168149239539	100	ER 16	0.5-10	30	32	200	UM/ER16	E16
HSK-A 100 ER 16 250 AV	K10168149182539	100	ER 16	0.5-10	30	32	250	UM/ER16	E16
HSK-A 100 ER 16 300 AV	K10168149183539	100	ER 16	0.5-10	30	32	300	UM/ER16	E16
HSK-A 100 ER 16 350 AV	K10168149184539	100	ER 16	0.5-10	30	32	350	UM/ER16	E16
HSK-A 100 ER 16 400 AV	K10168149540539	100	ER 16	0.5-10	30	32	400	UM/ER16	E16
HSK-A 100 ER 20 200 AV	K10168150239539	100	ER 20	1.0-13	34	35	200	UM/ER20	E20
HSK-A 100 ER 20 250 AV	K10168150182539	100	ER 20	1.0-13	34	35	250	UM/ER20	E20
HSK-A 100 ER 20 300 AV	K10168150183539	100	ER 20	1.0-13	34	35	300	UM/ER20	E20
HSK-A 100 ER 20 350 AV	K10168150184539	100	ER 20	1.0-13	34	35	350	UM/ER20	E20
HSK-A 100 ER 20 400 AV	K10168150540539	100	ER 20	1.0-13	34	35	400	UM/ER20	E20
HSK-A 100 ER 25 200 AV	K10168151239539	100	ER 25	1.0-16	40	42	200	UM/ER25	E25
HSK-A 100 ER 25 250 AV	K10168151182539	100	ER 25	1.0-16	40	42	250	UM/ER25	E25
HSK-A 100 ER 25 300 AV	K10168151183539	100	ER 25	1.0-16	40	42	300	UM/ER25	E25
HSK-A 100 ER 25 350 AV	K10168151184539	100	ER 25	1.0-16	40	42	350	UM/ER25	E25
HSK-A 100 ER 25 400 AV	K10168151540539	100	ER 25	1.0-16	40	42	400	UM/ER25	E25
HSK-A 100 ER 32 200 AV	K10168152239539	100	ER 32	2.0-20	48	50	200	UM/ER32	E32
HSK-A 100 ER 32 250 AV	K10168152182539	100	ER 32	2.0-20	48	50	250	UM/ER32	E32
HSK-A 100 ER 32 300 AV	K10168152183539	100	ER 32	2.0-20	48	50	300	UM/ER32	E32
HSK-A 100 ER 32 350 AV	K10168152184539	100	ER 32	2.0-20	48	50	350	UM/ER32	E32
HSK-A 100 ER 32 400 AV	K10168152540539	100	ER 32	2.0-20	48	50	400	UM/ER32	E32
HSK-A 100 ER 40 200 AV	K10168153239539	100	ER 40	3.0-26	60	63	200	UM/ER40	E40
HSK-A 100 ER 40 250 AV	K10168153182539	100	ER 40	3.0-26	60	63	250	UM/ER40	E40
HSK-A 100 ER 40 300 AV	K10168153183539	100	ER 40	3.0-26	60	63	300	UM/ER40	E40
HSK-A 100 ER 40 350 AV	K10168153184539	100	ER 40	3.0-26	60	63	350	UM/ER40	E40
HSK-A 100 ER 40 400 AV	K10168153540539	100	ER 40	3.0-26	60	63	400	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



ER SPANNER

Note: All Dimensions are in mm

Features :

- Small outside diameter.
- Best suitable for Die & Mould Industry.
- Most suitable for machining of cavities difficult to reach.
- High precision Runout <0.005mm (4xd)
- All 'KTA' Die & Mould Chucks are subjected to Sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Capacity :

- DMC 06 (3mm to 6mm)
- DMC 08 (3mm to 8mm)
- DMC 10 (3mm to 10mm)

Available in Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

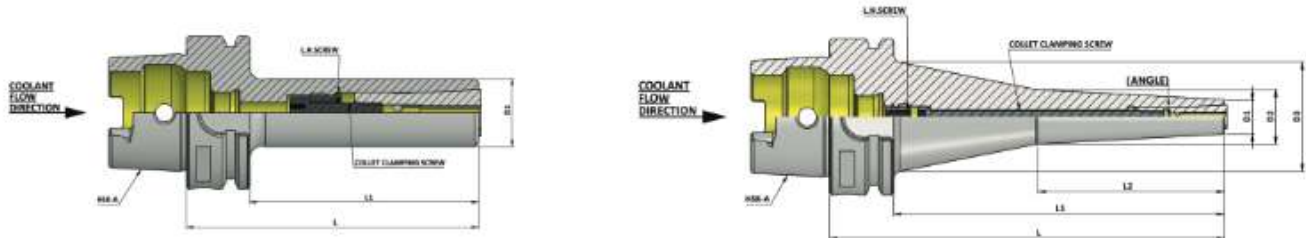
- Balanced To 2.5G 25000 RPM



HSK-A (DIN 69893 - 1) Die & Mould Chuck (DMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



HSK-A (DIN 69893 - 1) (DMC)

(Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	HSK-A	GRIPPING RANGE	D1	D2	D3	L	L1	L2	ANGLE	SUITABLE COLLET	SCREW	ALLEN KEY
HSK-A 50 DMC 06 075 2.5G 25000 SL	K10166161127129	50	3-6	14	17.6	-	75	49	34	3	DMC-6	M5	4X200
HSK-A 63 DMC 06 075 2.5G 25000 SL	K10167161127124	63	3-6	14	17.6	-	75	49	34	3	DMC-6	M5	4X200
HSK-A 63 DMC 06 095 2.5G 25000 SL	K10167161145124	63	3-6	14	18.7	36	95	69	45	3	DMC-6	M5	4X200
HSK-A 63 DMC 06 120 2.5G 25000 SL	K10167161162124	63	3-6	14	19.6	40	120	94	53	3	DMC-6	M5	4X200
HSK-A 63 DMC 06 150 2.5G 25000 SL	K10167161173138	63	3-6	14	22.4	45	150	124	80	3	DMC-6	M5	4X200
HSK-A 63 DMC 06 160 2.5G 25000 SL	K10167161175124	63	3-6	14	22.4	45	160	134	80	3	DMC-6	M5	4X200
HSK-A 63 DMC 08 100 2.5G 25000 SL	K10167162148124	63	3-8	22	27.5	36	100	74	53	3	DMC-8	M6	5X200
HSK-A 63 DMC 08 160 2.5G 25000 SL	K10167162175124	63	3-8	22	30.4	45	160	134	80	3	DMC-8	M6	5X200
HSK-A 63 DMC 10 110 2.5G 25000 SL	K10167163156124	63	3-10	28	-	-	110	84	-	-	DMC-10	M8	6X200

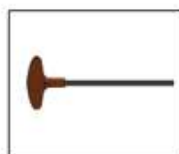
Accessories:



DMC COLLET



DMC ALLEN CAP SCREW



DMC ALLEN KEY



DMC LH SCREW

Note: All Dimensions are in mm

Features :

- 'KTA' Power Milling Chuck is Very Rigid & Precision.
- It is best for Drilling, Reaming & Milling Operations.
- The tool runs true less than 5 micron on 2D. Hence the tool life increases drastically.
- It's Unibody construction reduces the vibrations. This also helps to increase the tool life.
- All 'KTA' Power Milling Chucks are subjected to sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Available In Mountings

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 96893-1)
- CAT (ANSI B 5.50)

Balancing

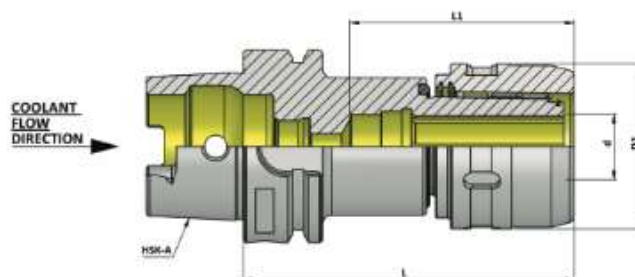
- Balanced To 6.3G 15000 RPM



HSK-A (DIN 69893 - 1) Power Milling Chuck (PMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



HSK-A (DIN 69893 - 1) (PMC)			(Balanced to 6.3G 20000 RPM)			
ITEM NAME	ITEM CODE	HSK-A	d	D1	L	L1
HSK-A 50 C20 100 AD/6.3G 20000 SL	K10166445148114	50	20	54	100	70
HSK-A 50 C 3/4" 100 AD/6.3G 20000 SL	K10306393148110	50	3/4"	54	100	70
HSK-A 63 C20 105 AD/6.3G 20000 SL	K10167445152114	63	20	54	105	70
HSK-A 63 C32 130 AD/6.3G 20000 SL	K10167446165114	63	32	72	130	100
HSK-A 63 C 3/4" 105 AD/6.3G 20000 SL	K10305393152110	63	3/4"	54	105	70
HSK-A 63 C 1 1/4" 130 AD/6.3G 20000 SL	K10305540165110	63	1-1/4"	72	130	100
HSK-A 100 C20 110 AD/6.3G 20000 SL	K10168445156114	100	20	54	110	70
HSK-A 100 C32 135 AD/6.3G 20000 SL	K10168446166114	100	32	72	135	100
HSK-A 100 C 3/4" 110 AD/6.3G 20000 SL	K10168393156110	100	3/4"	54	110	70
HSK-A 100 C 1 1/4" 135 AD/6.3G 20000 SL	K10168553166110	100	1-1/4"	72	135	100

Accessories:



RS SEAL SLEEVE



POWER CHUCK SPANNER

Note: All Dimensions are in mm

Features :

- KTA "Minimum Length Compensation Tapping Chuck (MLC)" For Synchronised (Rigid) Tapping Cycle.
- Best suitable for Die & Mould Industry.
- Compression & Expansion $\pm 0.5\text{mm}$
- High Concentricity Enables High Speed Tapping
- Possible Clamping Through ER Tap Collet.

Technical Details :

- "MLC" Tapping Chucks to be used with CNC Machines, having Synchronised Tapping Cycle.
- In this case, Rigid Tapping cycle takes care of tap pitch controlling the feed, spindle speed and feed. So, theoretically, ordinary holder without any compensation also should be suitable for performing the process. But by law of theory, following factors they do affect tapping quality, tap life etc.
- This will lead to :
 - » Less Tap life because of Flank wear (one side)
 - » Damaged Flanks on threads on the work piece
 - » Threads not answering to Gauge.
- All above errors can be taken care by using ' MLC '
- KTA 'MLC' Tapping chucks with $\pm 0.5\text{mm}$ compensation.
- Available in Following Range :
 - » ER 16 : M3 to M12
 - » ER 20 : M3 to M16
 - » ER 25 : M3 to M20
 - » ER 32 : M4 to M27
 - » ER 40 : M6 to M33
- Available in Mountings :
 - » BT (MAS 403) (DIN ISO 7388-2)
 - » KBT (MAS 403) (DIN ISO 7388-2)
 - » SK (DIN 69871) (DIN ISO 7388-1)
 - » HSK-A (DIN 69893-1)
 - » CAT (ANSI B 5.50)
 - » Cylindrical Shank



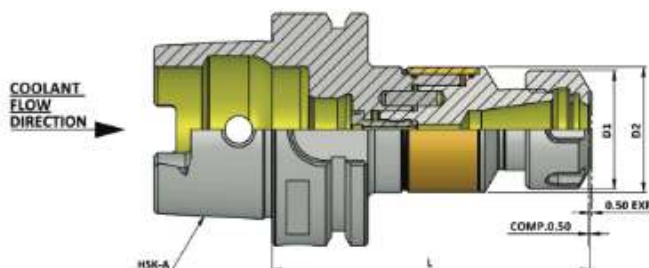
Balancing :

- Main Body Balanced to 2.5G 25000 RPM

HSK-A (DIN 69893-1) Minimum Length Compensation Tapping Chuck (MLC)



Maximum Run out of the Internal Taper with respect to the External Taper 0.020 mm



HSK-A (DIN 69893-1) (MLC)

ITEM NAME	ITEM CODE	HSK-A	TAPPING RANGE	CLAMPING RANGE	NUT SIZE	D1	D2	L	COMP.	EXP.
HSK-A 50 ER 11M 095 MLC	K10306156145245	50	M2-M6	2.5-6	ER 11M	16	32.5	95	0.4	0.4
HSK-A 50 ER 16M 089 MLC	K10306157139245	50	M3-M12	3.5-10	ER 16M	22	34	89	0.5	0.5
HSK-A 50 ER 16 089 MLC	K10306149139245	50	M3-M12	3.5-10	ER 16	32	34	89	0.5	0.5
HSK-A 50 ER 20 090 MLC	K10306150139245	50	M3-M16	3.5-12	ER 20	35	34	90	0.5	0.5
HSK-A 50 ER 25 094 MLC	K10306151139245	50	M3-M20	3.5-16	ER 25	42	34	94	0.5	0.5
HSK-A 63 ER 11M 095 MLC	K10305156145245	63	M2-M6	2.5-6	ER 11M	16	32.5	95	0.4	0.4
HSK-A 63 ER 16M 089 MLC	K10167157139245	63	M3-M12	3.5-10	ER 16M	22	34	89	0.5	0.5
HSK-A 63 ER 16 089 MLC	K10167149139245	63	M3-M12	3.5-10	ER 16	32	34	89	0.5	0.5
HSK-A 63 ER 20 090 MLC	K10167150140245	63	M3-M16	3.5-12	ER 20	35	34	90	0.5	0.5
HSK-A 63 ER 25 094 MLC	K10167151548245	63	M3-M20	3.5-16	ER 25	42	34	94	0.5	0.5
HSK-A 63 ER 32 105 MLC	K10167152152245	63	M4-M27	3.5-20	ER 32	50	45	105	0.5	0.5
HSK-A 63 ER 40 133.5 MLC	K10167153549245	63	M6-M33	6-25	ER 40	63	62	133.5	0.5	0.5
HSK-A 100 ER 16M 097 MLC	K10168157556245	100	M3-M12	3.5-10	ER 16M	22	34	97	0.5	0.5
HSK-A 100 ER 16 096 MLC	K10168149262245	100	M3-M12	3.5-10	ER 16	32	34	96	0.5	0.5
HSK-A 100 ER 20 097 MLC	K10168150562245	100	M3-M16	3.5-12	ER 20	35	34	97	0.5	0.5
HSK-A 100 ER 25 101 MLC	K10168151261245	100	M3-M20	3.5-16	ER 25	42	34	101	0.5	0.5
HSK-A 100 ER 32 110 MLC	K10168152156245	100	M4-M27	3.5-20	ER 32	50	45	110	0.5	0.5
HSK-A 100 ER 40 133 MLC	K10168153550245	100	M6-M33	6-25	ER 40	63	62	133	0.5	0.5

Accessories:



QC Tap Collet QCTC



ER TAP COLLET



ER SLOTTED NUT



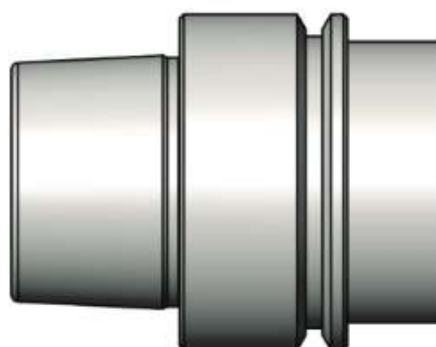
ER SPANNER

Note: All Dimensions are in mm

Precision Tool Holders

HSK- E (DIN 69893 - 5)

HSK- F (DIN 69893 - 6)

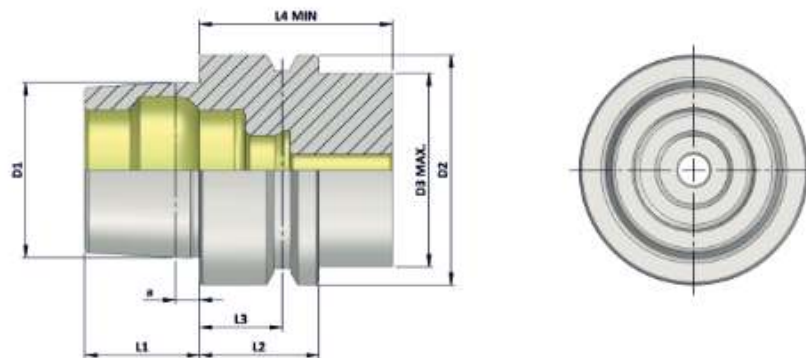


INDEX

Sr. No.	Contents		Page No.
①	Technical Information : HSK-E (DIN 69893-5)		189
②	Shrink Fit Holders HSK-E 25 Slim 3° Shrink Fit Holders 4.5 Degree (SFH 4.5°) • Shrink Fit Holders (SFH 4.5°) • Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°)		190 - 205
③	Technical Information : HSK-F (DIN 69893-6)		206
④	Shrink Fit Holders 4.5 Degree (SFH 4.5°)		207 - 209

HSK-E (DIN 69893-5) Form E

Technical Information



HSK-E	D1	D2	D3	a	L1	L2	L3	L4
25	19.006	25	20	2.5	13	10	4.5	20
32	24.007	32	26	3.2	16	20	16	35
40	30	40	34	4	20	20	16	35
50	38	50	42	5	25	26	18	42
63	48	63	53	6.3	32	26	18	42

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm²

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3

Features :

- For Mounting Of Carbide Drills, End Mills etc.
- Easy to reach at Deep cavities.
- Best T.I.R. & Rigidity during long working life, Result of in house Reasearch & Development & special Heat Treatment.

Available In Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- HSK-E (DIN 69893-5)
- HSK-F (DIN 69893-6)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

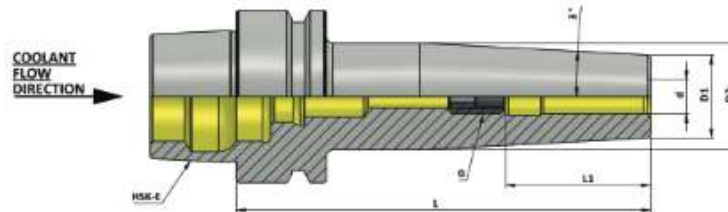
- Balanced To 2.5G 25000 SL



HSK-E (DIN 69893 - 5) Shrink Fit Holder Slim 3 Degree (SFH SLIM 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



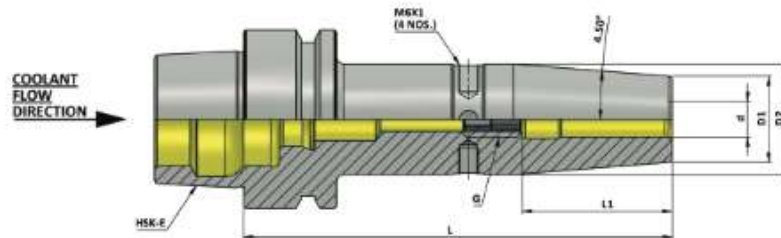
HSK-E (DIN 69893-5) (SFH SLIM 3°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 25 SFH03 045 SLIM 2.5G 25000 SL	K10381274666258	25	3	9	-	-	45	12
HSK-E 25 SFH04 045 SLIM 2.5G 25000 SL	K10396275666258	25	4	10	-	-	45	14
HSK-E 25 SFH05 045 SLIM 2.5G 25000 SL	K10396276666258	25	5	11	-	-	45	15
HSK-E 25 SFH06 050 SLIM 2.5G 25000 SL	K10396277277258	25	6	12	-	M5	50	36
HSK-E 25 SFH08 050 SLIM 2.5G 25000 SL	K10396285277258	25	8	14	-	M6	50	36
HSK-E 25 SFH10 050 SLIM 2.5G 25000 SL	K10396279277258	25	10	16	18	M8	50	41
HSK-E 25 SFH12 050 SLIM 2.5G 25000 SL	K10396280277258	25	12	18	20	M10	50	46
HSK-E 25 SFH1/8" 045 SLIM 2.5G 25000 SL	K10396978666537	25	1/8"	9	-	-	45	12
HSK-E 25 SFH3/16" 045 SLIM 2.5G 25000 SL	K10396979666537	25	3/16"	10	-	-	45	14
HSK-E 25 SFH1/4" 050 SLIM 2.5G 25000 SL	K10396980277537	25	1/4"	12	-	M5	50	36
HSK-E 25 SFH5/16" 050 SLIM 2.5G 25000 SL	K10396981277537	25	5/16"	14	-	M6	50	36
HSK-E 25 SFH3/8" 050 SLIM 2.5G 25000 SL	K10396982277537	25	3/8"	16	18	M8	50	41
HSK-E 25 SFH1/2" 050 SLIM 2.5G 25000 SL	K10396983617258	25	1/2"	18	20	M10	50	46

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



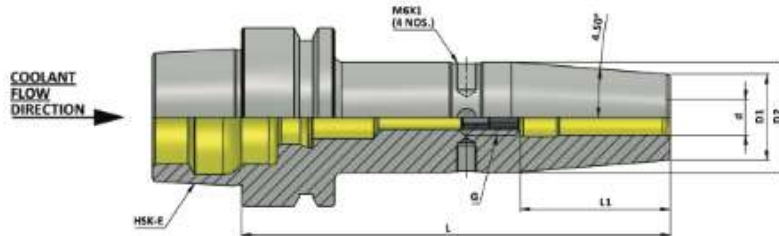
HSK-E (DIN 69893-5) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 32 SFH03 060 2.5G 25000 SL	K10381274117283	32	3	10	16	-	60	12
HSK-E 32 SFH04 060 2.5G 25000 SL	K10381275117283	32	4	12	18	-	60	14
HSK-E 32 SFH05 060 2.5G 25000 SL	K10381276117283	32	5	12	18	-	60	15
HSK-E 32 SFH06 070 2.5G 25000 SL	K10381277125283	32	6	21	25	M5	70	36
HSK-E 32 SFH08 070 2.5G 25000 SL	K10381285125283	32	8	21	25	M6	70	36
HSK-E 32 SFH10 070 2.5G 25000 SL	K10381279125283	32	10	24	29	M8	70	41
HSK-E 32 SFH12 080 2.5G 25000 SL	K10381280131283	32	12	24	29	M10	80	46
HSK-E 32 SFH1/8" 60 2.5G 25000 SL	K10381978667283	32	1/8"	10	16	-	60	12
HSK-E 32 SFH3/16" 60 2.5G 25000 SL	K10381979667283	32	3/16"	12	18	-	60	14
HSK-E 32 SFH1/4" 70 2.5G 25000 SL	K10381980282283	32	1/4"	21	25	M5	70	36
HSK-E 32 SFH5/16" 70 2.5G 25000 SL	K10381981282283	32	5/16"	21	25	M6	70	36
HSK-E 32 SFH3/8" 70 2.5G 25000 SL	K10381982282283	32	3/8"	24	29	M8	70	41
HSK-E 32 SFH1/2" 80 2.5G 25000 SL	K10381983285283	32	1/2"	24	29	M10	80	46

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



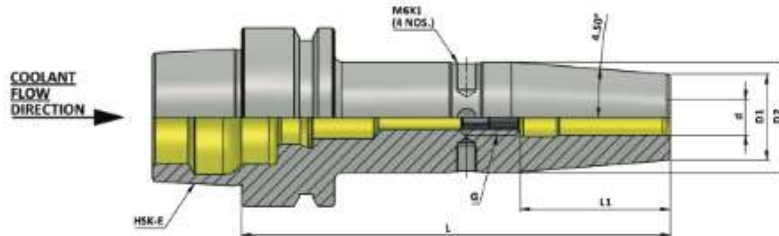
HSK-E (DIN 69893-5) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 40 SFH03 060 2.5G 25000 SL	K10321274117283	40	3	10	16	-	60	12
HSK-E 40 SFH03 120 2.5G 25000 SL	K10321274162283	40	3	10	16	-	120	12
HSK-E 40 SFH03 160 2.5G 25000 SL	K10321274175283	40	3	10	16	-	160	12
HSK-E 40 SFH04 060 2.5G 25000 SL	K10321275117283	40	4	12	18	-	60	14
HSK-E 40 SFH04 120 2.5G 25000 SL	K10321275162283	40	4	12	20	-	120	14
HSK-E 40 SFH04 160 2.5G 25000 SL	K10321275175283	40	4	12	20	-	160	14
HSK-E 40 SFH05 060 2.5G 25000 SL	K10321276117283	40	5	12	18	-	60	15
HSK-E 40 SFH05 120 2.5G 25000 SL	K10321276162283	40	5	12	22	-	120	15
HSK-E 40 SFH05 160 2.5G 25000 SL	K10321202175283	40	5	12	22	-	160	15
HSK-E 40 SFH06 080 2.5G 25000 SL	K10321203131283	40	6	21	27	M5	80	36
HSK-E 40 SFH06 120 2.5G 25000 SL	K10321203162283	40	6	21	27	M5	120	36
HSK-E 40 SFH06 160 2.5G 25000 SL	K10321203175283	40	6	21	27	M5	160	36
HSK-E 40 SFH08 080 2.5G 25000 SL	K10321205131283	40	8	21	27	M6	80	36
HSK-E 40 SFH08 120 2.5G 25000 SL	K10321205162283	40	8	21	27	M6	120	36
HSK-E 40 SFH08 160 2.5G 25000 SL	K10321205175283	40	8	21	27	M6	160	36
HSK-E 40 SFH10 080 2.5G 25000 SL	K10321207131283	40	10	24	32	M8	80	41
HSK-E 40 SFH10 120 2.5G 25000 SL	K10321207162283	40	10	24	32	M8	120	41
HSK-E 40 SFH10 160 2.5G 25000 SL	K10321207175283	40	10	24	32	M8	160	41
HSK-E 40 SFH12 090 2.5G 25000 SL	K10321209140283	40	12	24	32	M10	90	46
HSK-E 40 SFH12 120 2.5G 25000 SL	K10321209162283	40	12	24	32	M10	120	46
HSK-E 40 SFH12 160 2.5G 25000 SL	K10321209175283	40	12	24	32	M10	160	46
HSK-E 40 SFH14 090 2.5G 25000 SL	K10321211140283	40	14	27	34	M10	90	46
HSK-E 40 SFH14 120 2.5G 25000 SL	K10321211162283	40	14	27	34	M10	120	46
HSK-E 40 SFH14 160 2.5G 25000 SL	K10321211175283	40	14	27	34	M10	160	46
HSK-E 40 SFH16 090 2.5G 25000 SL	K10321213140283	40	16	27	34	M12	90	49
HSK-E 40 SFH16 120 2.5G 25000 SL	K10321213162283	40	16	27	34	M12	120	49
HSK-E 40 SFH16 160 2.5G 25000 SL	K10321213175283	40	16	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (SFH 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



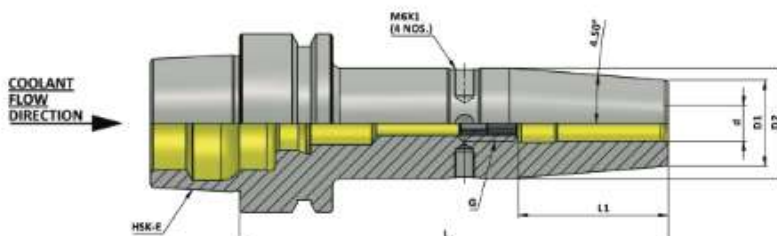
HSK-E (DIN 69893-5) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 40 SFH1/8" 60 2.5G 25000 SL	K10321978667283	40	1/8"	10	16	-	60	12
HSK-E 40 SFH1/8" 120 2.5G 25000 SL	K10321978162283	40	1/8"	10	16	-	120	12
HSK-E 40 SFH1/8" 160 2.5G 25000 SL	K10321978175283	40	1/8"	10	16	-	160	12
HSK-E 40 SFH3/16" 60 2.5G 25000 SL	K10321979667283	40	3/16"	12	18	-	60	14
HSK-E 40 SFH3/16" 120 2.5G 25000 SL	K10321979162283	40	3/16"	12	20	-	120	14
HSK-E 40 SFH3/16" 160 2.5G 25000 SL	K10321979175283	40	3/16"	12	20	-	160	14
HSK-E 40 SFH1/4" 80 2.5G 25000 SL	K10321980285283	40	1/4"	21	27	M5	80	36
HSK-E 40 SFH1/4" 120 2.5G 25000 SL	K10321980162283	40	1/4"	21	27	M5	120	36
HSK-E 40 SFH1/4" 160 2.5G 25000 SL	K10321980175283	40	1/4"	21	27	M5	160	36
HSK-E 40 SFH5/16" 80 2.5G 25000 SL	K10321981285283	40	5/16"	21	27	M6	80	36
HSK-E 40 SFH5/16" 120 2.5G 25000 SL	K10321981162283	40	5/16"	21	27	M6	120	36
HSK-E 40 SFH5/16" 160 2.5G 25000 SL	K10321981175283	40	5/16"	21	27	M6	160	36
HSK-E 40 SFH3/8" 80 2.5G 25000 SL	K10321982285283	40	3/8"	24	32	M8	80	41
HSK-E 40 SFH3/8" 120 2.5G 25000 SL	K10321982162283	40	3/8"	24	32	M8	120	41
HSK-E 40 SFH3/8" 160 2.5G 25000 SL	K10321982175283	40	3/8"	24	32	M8	160	41
HSK-E 40 SFH1/2" 090 2.5G 25000 SL	K10321983140283	40	1/2"	24	32	M10	90	46
HSK-E 40 SFH1/2" 120 2.5G 25000 SL	K10321983162283	40	1/2"	24	32	M10	120	46
HSK-E 40 SFH1/2" 160 2.5G 25000 SL	K10321983175283	40	1/2"	24	32	M10	160	46
HSK-E 40 SFH5/8" 090 2.5G 25000 SL	K10321984140283	40	5/8"	27	34	M12	90	49
HSK-E 40 SFH5/8" 120 2.5G 25000 SL	K10321983165283	40	5/8"	27	34	M12	120	49
HSK-E 40 SFH5/8" 160 2.5G 25000 SL	K10321984175283	40	5/8"	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



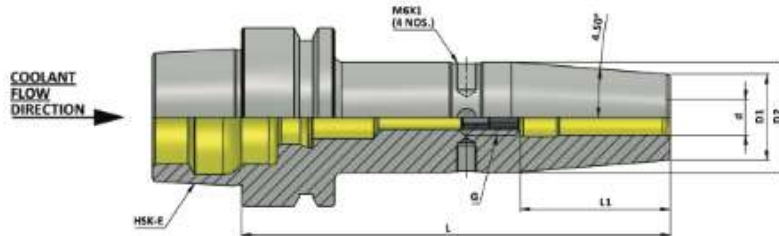
HSK-E (DIN 69893-5) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 50 SFH03 080 2.5G 25000 SL	K10286274131283	50	3	10	20	-	80	12
HSK-E 50 SFH03 120 2.5G 25000 SL	K10286274162283	50	3	10	20	-	120	12
HSK-E 50 SFH03 160 2.5G 25000 SL	K10286274175283	50	3	10	20	-	160	12
HSK-E 50 SFH04 080 2.5G 25000 SL	K10286275131283	50	4	15	22	-	80	14
HSK-E 50 SFH04 120 2.5G 25000 SL	K10286275162283	50	4	15	22	-	120	14
HSK-E 50 SFH04 160 2.5G 25000 SL	K10286275175283	50	4	15	22	-	160	14
HSK-E 50 SFH05 080 2.5G 25000 SL	K10286276131283	50	5	15	22	-	80	15
HSK-E 50 SFH05 120 2.5G 25000 SL	K10286276162283	50	5	15	22	-	120	15
HSK-E 50 SFH05 160 2.5G 25000 SL	K10286276175283	50	5	15	22	-	160	15
HSK-E 50 SFH06 080 2.5G 25000 SL	K10286277117283	50	6	21	27	M5	80	36
HSK-E 50 SFH06 120 2.5G 25000 SL	K10286277162283	50	6	21	27	M5	120	36
HSK-E 50 SFH06 160 2.5G 25000 SL	K10286277175283	50	6	21	27	M5	160	36
HSK-E 50 SFH08 080 2.5G 25000 SL	K10286285117283	50	8	21	27	M6	80	36
HSK-E 50 SFH08 120 2.5G 25000 SL	K10286285162283	50	8	21	27	M6	120	36
HSK-E 50 SFH08 160 2.5G 25000 SL	K10286285175283	50	8	21	27	M6	160	36
HSK-E 50 SFH10 085 2.5G 25000 SL	K10286279135283	50	10	24	31	M8	85	41
HSK-E 50 SFH10 120 2.5G 25000 SL	K10286279162283	50	10	24	31	M8	120	41
HSK-E 50 SFH10 160 2.5G 25000 SL	K10286279175283	50	10	24	31	M8	160	41
HSK-E 50 SFH12 090 2.5G 25000 SL	K10286280140283	50	12	24	31	M10	90	46
HSK-E 50 SFH12 120 2.5G 25000 SL	K10286280162283	50	12	24	31	M10	120	46
HSK-E 50 SFH12 160 2.5G 25000 SL	K10286280175283	50	12	24	31	M10	160	46
HSK-E 50 SFH14 090 2.5G 25000 SL	K10286284140283	50	14	27	34	M10	90	46
HSK-E 50 SFH14 120 2.5G 25000 SL	K10286284162283	50	14	27	34	M10	120	46
HSK-E 50 SFH14 160 2.5G 25000 SL	K10286284175283	50	14	27	34	M10	160	46
HSK-E 50 SFH16 095 2.5G 25000 SL	K10286281140283	50	16	27	34	M12	95	49
HSK-E 50 SFH16 120 2.5G 25000 SL	K10286281162283	50	16	27	34	M12	120	49
HSK-E 50 SFH16 160 2.5G 25000 SL	K10286281175283	50	16	27	34	M12	160	49
HSK-E 50 SFH18 095 2.5G 25000 SL	K10286282145283	50	18	33	40	M12	95	49
HSK-E 50 SFH18 120 2.5G 25000 SL	K10286282162283	50	18	33	40	M12	120	49
HSK-E 50 SFH18 160 2.5G 25000 SL	K10286282175283	50	18	33	40	M12	160	49
HSK-E 50 SFH20 100 2.5G 25000 SL	K10286283148283	50	20	33	40	M16	100	51
HSK-E 50 SFH20 120 2.5G 25000 SL	K10286283162283	50	20	33	40	M16	120	51
HSK-E 50 SFH20 160 2.5G 25000 SL	K10286283175283	50	20	33	40	M16	160	51

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (SFH 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



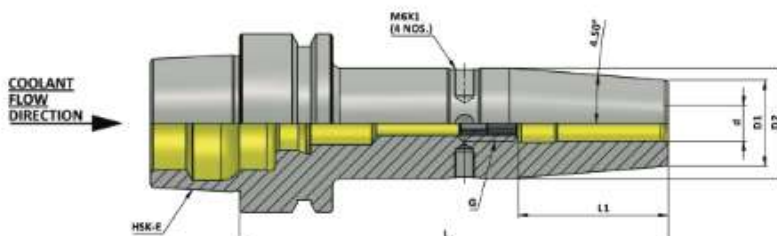
HSK-E (DIN 69893-5) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 50 SFH1/8" 060 2.5G 25000 SL	K10286978117283	50	1/8"	10	20	-	60	12
HSK-E 50 SFH1/8" 120 2.5G 25000 SL	K10286978162283	50	1/8"	10	20	-	120	12
HSK-E 50 SFH1/8" 160 2.5G 25000 SL	K10286978175283	50	1/8"	10	20	-	160	12
HSK-E 50 SFH3/16" 060 2.5G 25000 SL	K10286979117283	50	3/16"	15	22	-	60	14
HSK-E 50 SFH3/16" 120 2.5G 25000 SL	K10286979162283	50	3/16"	15	22	-	120	14
HSK-E 50 SFH3/16" 160 2.5G 25000 SL	K10286979175283	50	3/16"	15	22	-	160	14
HSK-E 50 SFH1/4" 080 2.5G 25000 SL	K10286980131283	50	1/4"	21	27	M5	80	36
HSK-E 50 SFH1/4" 120 2.5G 25000 SL	K10286980162283	50	1/4"	21	27	M5	120	36
HSK-E 50 SFH1/4" 160 2.5G 25000 SL	K10286980175283	50	1/4"	21	27	M5	160	36
HSK-E 50 SFH5/16" 080 2.5G 25000 SL	K10286981131283	50	5/16"	21	27	M6	80	36
HSK-E 50 SFH5/16" 120 2.5G 25000 SL	K10286981162283	50	5/16"	21	27	M6	120	36
HSK-E 50 SFH5/16" 160 2.5G 25000 SL	K10286981175283	50	5/16"	21	27	M6	160	36
HSK-E 50 SFH3/8" 080 2.5G 25000 SL	K10286982131283	50	3/8"	24	31	M8	80	41
HSK-E 50 SFH3/8" 120 2.5G 25000 SL	K10286982162283	50	3/8"	24	31	M8	120	41
HSK-E 50 SFH3/8" 160 2.5G 25000 SL	K10286982175283	50	3/8"	24	31	M8	160	41
HSK-E 50 SFH1/2" 090 2.5G 25000 SL	K10286983140283	50	1/2"	24	31	M10	90	46
HSK-E 50 SFH1/2" 120 2.5G 25000 SL	K10286983162283	50	1/2"	24	31	M10	120	46
HSK-E 50 SFH1/2" 160 2.5G 25000 SL	K10286983175283	50	1/2"	24	31	M10	160	46
HSK-E 50 SFH5/8" 095 2.5G 25000 SL	K10286984140283	50	5/8"	27	34	M12	95	49
HSK-E 50 SFH5/8" 120 2.5G 25000 SL	K10286984162283	50	5/8"	27	34	M12	120	49
HSK-E 50 SFH5/8" 160 2.5G 25000 SL	K10286984175283	50	5/8"	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

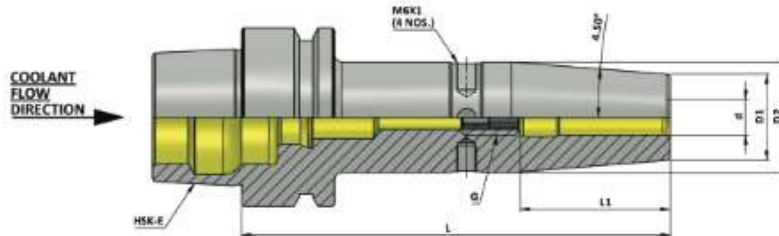


HSK-E (DIN 69893-5) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 63 SFH03 080 2.5G 25000 SL	K10383274131283	63	3	10	20	—	80	12
HSK-E 63 SFH03 120 2.5G 25000 SL	K10383274162283	63	3	10	20	—	120	12
HSK-E 63 SFH03 160 2.5G 25000 SL	K10383274175283	63	3	10	20	—	160	12
HSK-E 63 SFH04 080 2.5G 25000 SL	K10383275131283	63	4	15	22	—	80	14
HSK-E 63 SFH04 120 2.5G 25000 SL	K10383275162283	63	4	15	22	—	120	14
HSK-E 63 SFH04 160 2.5G 25000 SL	K10383275175283	63	4	15	22	—	160	14
HSK-E 63 SFH05 080 2.5G 25000 SL	K10383276131283	63	5	15	22	—	80	15
HSK-E 63 SFH05 120 2.5G 25000 SL	K10383276162283	63	5	15	22	—	120	15
HSK-E 63 SFH05 160 2.5G 25000 SL	K10383276175283	63	5	15	22	—	160	15
HSK-E 63 SFH06 080 2.5G 25000 SL	K10383277131283	63	6	21	27	M5	80	36
HSK-E 63 SFH06 120 2.5G 25000 SL	K10383277162283	63	6	21	27	M5	120	36
HSK-E 63 SFH06 160 2.5G 25000 SL	K10383277175283	63	6	21	27	M5	160	36
HSK-E 63 SFH08 080 2.5G 25000 SL	K10383285131283	63	8	21	27	M6	80	36
HSK-E 63 SFH08 120 2.5G 25000 SL	K10383285162283	63	8	21	27	M6	120	36
HSK-E 63 SFH08 160 2.5G 25000 SL	K10383285175283	63	8	21	27	M6	160	36
HSK-E 63 SFH10 085 2.5G 25000 SL	K10383279135283	63	10	24	31	M8	85	41
HSK-E 63 SFH10 120 2.5G 25000 SL	K10383279162283	63	10	24	31	M8	120	41
HSK-E 63 SFH10 160 2.5G 25000 SL	K10383279175283	63	10	24	31	M8	160	41
HSK-E 63 SFH12 090 2.5G 25000 SL	K10383280140283	63	12	24	31	M10	90	46
HSK-E 63 SFH12 120 2.5G 25000 SL	K10383280162283	63	12	24	31	M10	120	46
HSK-E 63 SFH12 160 2.5G 25000 SL	K10383280175279	63	12	24	31	M10	160	46
HSK-E 63 SFH14 090 2.5G 25000 SL	K10383284140283	63	14	27	34	M10	90	46
HSK-E 63 SFH14 120 2.5G 25000 SL	K10383284162283	63	14	27	34	M10	120	46
HSK-E 63 SFH14 160 2.5G 25000 SL	K10383284175283	63	14	27	34	M10	160	46
HSK-E 63 SFH16 095 2.5G 25000 SL	K10383281145283	63	16	27	34	M12	95	49
HSK-E 63 SFH16 120 2.5G 25000 SL	K10383281162283	63	16	27	34	M12	120	49
HSK-E 63 SFH16 160 2.5G 25000 SL	K10383281175283	63	16	27	34	M12	160	49
HSK-E 63 SFH18 095 2.5G 25000 SL	K10383282145283	63	18	33	40	M12	95	49
HSK-E 63 SFH18 120 2.5G 25000 SL	K10383282162283	63	18	33	40	M12	120	49
HSK-E 63 SFH18 160 2.5G 25000 SL	K10383282175283	63	18	33	40	M12	160	49
HSK-E 63 SFH20 100 2.5G 25000 SL	K10383283148283	63	20	33	40	M16	100	51
HSK-E 63 SFH20 120 2.5G 25000 SL	K10383283162283	63	20	33	40	M16	120	51
HSK-E 63 SFH20 160 2.5G 25000 SL	K10383283175283	63	20	33	40	M16	160	51
HSK-E 63 SFH25 115 2.5G 25000 SL	K10383287159283	63	25	44	53	M16	115	57
HSK-E 63 SFH25 120 2.5G 25000 SL	K10383287162283	63	25	44	53	M16	120	57
HSK-E 63 SFH25 160 2.5G 25000 SL	K10383287175283	63	25	44	53	M16	160	57
HSK-E 63 SFH32 120 2.5G 25000 SL	K10383288162283	63	32	44	53	M16	120	61
HSK-E 63 SFH32 160 2.5G 25000 SL	K10383288175283	63	32	44	53	M16	160	61

HSK-E (DIN 69893 - 5) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



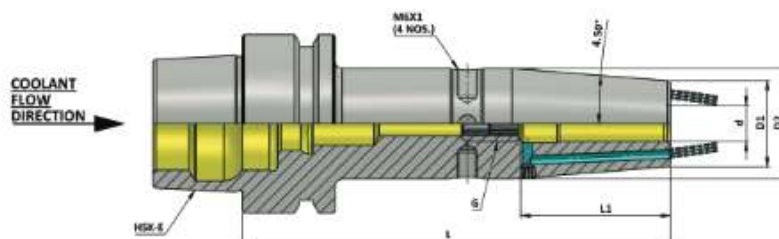
HSK-E (DIN 69893-5) (SFH 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 63 SFH1/8" 080 2.5G 25000 SL	K10383978117256	63	1/8"	10	20	—	80	12
HSK-E 63 SFH1/8" 120 2.5G 25000 SL	K10383978162283	63	1/8"	10	20	—	120	12
HSK-E 63 SFH1/8" 160 2.5G 25000 SL	K10383978175283	63	1/8"	10	20	—	160	12
HSK-E 63 SFH3/16" 080 2.5G 25000 SL	K10383979117283	63	3/16"	15	22	—	80	14
HSK-E 63 SFH3/16" 120 2.5G 25000 SL	K10383979162283	63	3/16"	15	22	—	120	14
HSK-E 63 SFH3/16" 160 2.5G 25000 SL	K10383979175283	63	3/16"	15	22	—	160	14
HSK-E 63 SFH1/4" 080 2.5G 25000 SL	K10383980131283	63	1/4"	21	27	M5	80	36
HSK-E 63 SFH1/4" 120 2.5G 25000 SL	K10383980162283	63	1/4"	21	27	M5	120	36
HSK-E 63 SFH1/4" 160 2.5G 25000 SL	K10383980175283	63	1/4"	21	27	M5	160	36
HSK-E 63 SFH5/16" 080 2.5G 25000 SL	K10383981131283	63	5/16"	21	27	M6	80	36
HSK-E 63 SFH5/16" 120 2.5G 25000 SL	K10383981162283	63	5/16"	21	27	M6	120	36
HSK-E 63 SFH5/16" 160 2.5G 25000 SL	K10383981175283	63	5/16"	21	27	M6	160	36
HSK-E 63 SFH3/8" 085 2.5G 25000 SL	K10383982131283	63	3/8"	24	31	M8	85	41
HSK-E 63 SFH3/8" 120 2.5G 25000 SL	K10383982162283	63	3/8"	24	31	M8	120	41
HSK-E 63 SFH3/8" 160 2.5G 25000 SL	K10383982175283	63	3/8"	24	31	M8	160	41
HSK-E 63 SFH1/2" 090 2.5G 25000 SL	K10383983140283	63	1/2"	24	31	M10	90	46
HSK-E 63 SFH1/2" 120 2.5G 25000 SL	K10383983162283	63	1/2"	24	31	M10	120	46
HSK-E 63 SFH1/2" 160 2.5G 25000 SL	K10383983175283	63	1/2"	24	31	M10	160	46
HSK-E 63 SFH5/8" 095 2.5G 25000 SL	K10383984140283	63	5/8"	27	34	M12	95	49
HSK-E 63 SFH5/8" 120 2.5G 25000 SL	K10383984162283	63	5/8"	27	34	M12	120	49
HSK-E 63 SFH5/8" 160 2.5G 25000 SL	K10383984175283	63	5/8"	27	34	M12	160	49
HSK-E 63 SFH3/4" 100 2.5G 25000 SL	K10383985148283	63	3/4"	33	40	M16	100	51
HSK-E 63 SFH3/4" 120 2.5G 25000 SL	K10383985162283	63	3/4"	33	40	M16	120	51
HSK-E 63 SFH3/4" 160 2.5G 25000 SL	K10383985175283	63	3/4"	33	40	M16	160	51
HSK-E 63 SFH1.0" 115 2.5G 25000 SL	K10383986159283	63	1.0"	44	53	M16	115	57
HSK-E 63 SFH1.0" 120 2.5G 25000 SL	K10383986162283	63	1.0"	44	53	M16	120	57
HSK-E 63 SFH1.0" 160 2.5G 25000 SL	K10383986175283	63	1.0"	44	53	M16	160	57
HSK-E 63 SFH1-1/4" 120 2.5G 25000 SL	K10383987162283	63	1-1/4"	44	53	M16	120	61
HSK-E 63 SFH1-1/4" 160 2.5G 25000 SL	K10383987175283	63	1-1/4"	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



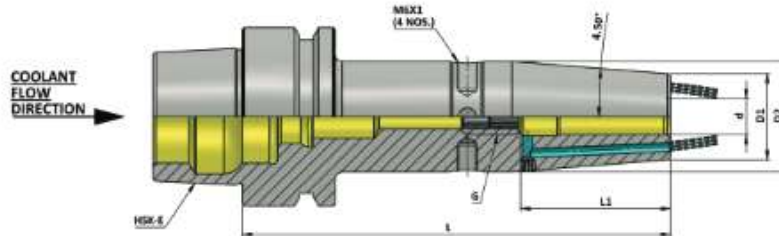
HSK-E (DIN 69893-5) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 32 SFH03 060 FCC 2.5G 25000 SL	K10381274117256	32	3	10	16	–	60	12
HSK-E 32 SFH04 060 FCC 2.5G 25000 SL	K10381275117256	32	4	12	18	–	60	14
HSK-E 32 SFH05 060 FCC 2.5G 25000 SL	K10381276117256	32	5	12	18	–	60	15
HSK-E 32 SFH06 070 FCC 2.5G 25000 SL	K10381277125256	32	6	21	25	M5	70	36
HSK-E 32 SFH08 070 FCC 2.5G 25000 SL	K10381285125256	32	8	21	25	M6	70	36
HSK-E 32 SFH10 070 FCC 2.5G 25000 SL	K10381279125256	32	10	24	29	M8	70	41
HSK-E 32 SFH12 080 FCC 2.5G 25000 SL	K10381280131256	32	12	24	29	M10	80	46
HSK-E 32 SFH1/8" 60 FCC 2.5G 25000 SL	K10381978667256	32	1/8"	10	16	–	60	12
HSK-E 32 SFH3/16" 60 FCC 2.5G 25000 SL	K10381979667256	32	3/16"	12	18	–	60	14
HSK-E 32 SFH1/4" 70 FCC 2.5G 25000 SL	K10381980126256	32	1/4"	21	25	M5	70	36
HSK-E 32 SFH5/16" 70 FCC 2.5G 25000 SL	K10381981126256	32	5/16"	21	25	M6	70	36
HSK-E 32 SFH3/8" 70 FCC 2.5G 25000 SL	K10381982126256	32	3/8"	24	29	M8	70	41
HSK-E 32 SFH1/2" 80 FCC 2.5G 25000 SL	K10381983285256	32	1/2"	24	29	M10	80	46

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



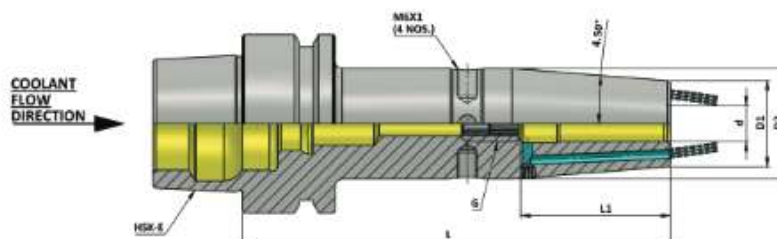
HSK-E (DIN 69893-5) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 40 SFH03 060 FCC 2.5G 25000 SL	K10321274117256	40	3	10	16	–	60	12
HSK-E 40 SFH03 120 FCC 2.5G 25000 SL	K10321274162256	40	3	10	16	–	120	12
HSK-E 40 SFH03 160 FCC 2.5G 25000 SL	K10321274175256	40	3	10	16	–	160	12
HSK-E 40 SFH04 060 FCC 2.5G 25000 SL	K10321275117256	40	4	12	18	–	60	14
HSK-E 40 SFH04 120 FCC 2.5G 25000 SL	K10321275162256	40	4	12	20	–	120	14
HSK-E 40 SFH04 160 FCC 2.5G 25000 SL	K10321275175256	40	4	12	20	–	160	14
HSK-E 40 SFH05 060 FCC 2.5G 25000 SL	K10321276117256	40	5	12	18	–	60	15
HSK-E 40 SFH05 120 FCC 2.5G 25000 SL	K10321276162256	40	5	12	22	–	120	15
HSK-E 40 SFH05 160 FCC 2.5G 25000 SL	K10321276175256	40	5	12	22	–	160	15
HSK-E 40 SFH06 080 FCC 2.5G 25000 SL	K10321277131256	40	6	21	27	M5	80	36
HSK-E 40 SFH06 120 FCC 2.5G 25000 SL	K10321277162256	40	6	21	27	M5	120	36
HSK-E 40 SFH06 160 FCC 2.5G 25000 SL	K10321277175256	40	6	21	27	M5	160	36
HSK-E 40 SFH08 080 FCC 2.5G 25000 SL	K10321285131256	40	8	21	27	M6	80	36
HSK-E 40 SFH08 120 FCC 2.5G 25000 SL	K10321285162256	40	8	21	27	M6	120	36
HSK-E 40 SFH08 160 FCC 2.5G 25000 SL	K10321285175256	40	8	21	27	M6	160	36
HSK-E 40 SFH10 080 FCC 2.5G 25000 SL	K10321279131256	40	10	24	32	M8	80	41
HSK-E 40 SFH10 120 FCC 2.5G 25000 SL	K10321279162244	40	10	24	32	M8	120	41
HSK-E 40 SFH10 160 FCC 2.5G 25000 SL	K10321279175244	40	10	24	32	M8	160	41
HSK-E 40 SFH12 090 FCC 2.5G 25000 SL	K10321280140256	40	12	24	32	M10	90	46
HSK-E 40 SFH12 120 FCC 2.5G 25000 SL	K10321280162256	40	12	24	32	M10	120	46
HSK-E 40 SFH12 160 FCC 2.5G 25000 SL	K10321280175256	40	12	24	32	M10	160	46
HSK-E 40 SFH14 090 FCC 2.5G 25000 SL	K10321284140256	40	14	27	34	M10	90	46
HSK-E 40 SFH14 120 FCC 2.5G 25000 SL	K10321284162256	40	14	27	34	M10	120	46
HSK-E 40 SFH14 160 FCC 2.5G 25000 SL	K10321284175256	40	14	27	34	M10	160	46
HSK-E 40 SFH16 090 FCC 2.5G 25000 SL	K10321281140256	40	16	27	34	M12	90	49
HSK-E 40 SFH16 120 FCC 2.5G 25000 SL	K10321281162256	40	16	27	34	M12	120	49
HSK-E 40 SFH16 160 FCC 2.5G 25000 SL	K10321281175256	40	16	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



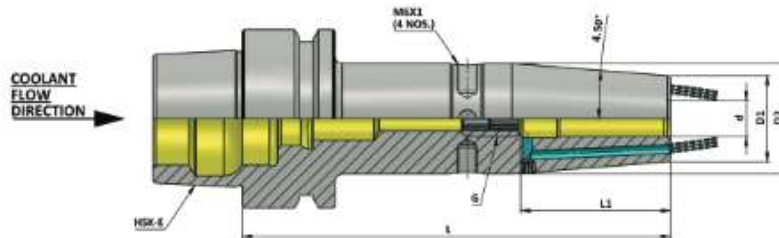
HSK-E (DIN 69893-5) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 40 SFH1/8" 60 FCC 2.5G 25000 SL	K10321978667256	40	1/8"	10	16	-	60	12
HSK-E 40 SFH1/8" 120 FCC 2.5G 25000 SL	K10321978162256	40	1/8"	10	16	-	120	12
HSK-E 40 SFH1/8" 160 FCC 2.5G 25000 SL	K10321978175256	40	1/8"	10	16	-	160	12
HSK-E 40 SFH3/16" 60 FCC 2.5G 25000 SL	K10321979667256	40	3/16"	12	18	-	60	14
HSK-E 40 SFH3/16" 120 FCC 2.5G 25000 SL	K10321979162256	40	3/16"	12	20	-	120	14
HSK-E 40 SFH3/16" 160 FCC 2.5G 25000 SL	K10321979175256	40	3/16"	12	20	-	160	14
HSK-E 40 SFH1/4" 80 FCC 2.5G 25000 SL	K10321980285256	40	1/4"	21	27	M5	80	36
HSK-E 40 SFH1/4" 120 FCC 2.5G 25000 SL	K10321980162256	40	1/4"	21	27	M5	120	36
HSK-E 40 SFH1/4" 160 FCC 2.5G 25000 SL	K10321980175256	40	1/4"	21	27	M5	160	36
HSK-E 40 SFH5/16" 80 FCC 2.5G 25000 SL	K10321981285256	40	5/16"	21	27	M6	80	36
HSK-E 40 SFH5/16" 120 FCC 2.5G 25000 SL	K10321981162256	40	5/16"	21	27	M6	120	36
HSK-E 40 SFH5/16" 160 FCC 2.5G 25000 SL	K10321981175256	40	5/16"	21	27	M6	160	36
HSK-E 40 SFH3/8" 80 FCC 2.5G 25000 SL	K10321982285256	40	3/8"	24	32	M8	80	41
HSK-E 40 SFH3/8" 120 FCC 2.5G 25000 SL	K10321982162256	40	3/8"	24	32	M8	120	41
HSK-E 40 SFH3/8" 160 FCC 2.5G 25000 SL	K10321982175256	40	3/8"	24	32	M8	160	41
HSK-E 40 SFH1/2" 090 FCC 2.5G 25000 SL	K10321983140256	40	1/2"	24	32	M10	90	46
HSK-E 40 SFH1/2" 120 FCC 2.5G 25000 SL	K10321983162256	40	1/2"	24	32	M10	120	46
HSK-E 40 SFH1/2" 160 FCC 2.5G 25000 SL	K10321983175256	40	1/2"	24	32	M10	160	46
HSK-E 40 SFH5/8" 090 FCC 2.5G 25000 SL	K10321984140256	40	5/8"	27	34	M12	90	49
HSK-E 40 SFH5/8" 120 FCC 2.5G 25000 SL	K10321984162256	40	5/8"	27	34	M12	120	49
HSK-E 40 SFH5/8" 160 FCC 2.5G 25000 SL	K10321984175256	40	5/8"	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



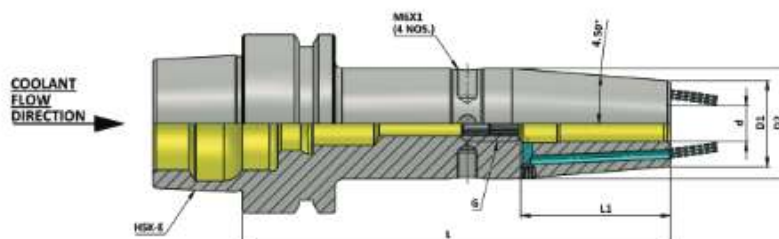
HSK-E (DIN 69893-5) (SFH FCC 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 50 SFH03 080 FCC 2.5G 25000 SL	K10286274131256	50	3	10	16	—	80	12
HSK-E 50 SFH03 120 FCC 2.5G 25000 SL	K10286274162256	50	3	10	16	—	120	12
HSK-E 50 SFH03 160 FCC 2.5G 25000 SL	K10286274175256	50	3	10	16	—	160	12
HSK-E 50 SFH04 080 FCC 2.5G 25000 SL	K10286275131256	50	4	12	20	—	80	14
HSK-E 50 SFH04 120 FCC 2.5G 25000 SL	K10286275162256	50	4	12	22	—	120	14
HSK-E 50 SFH04 160 FCC 2.5G 25000 SL	K10286275175256	50	4	12	22	—	160	14
HSK-E 50 SFH05 080 FCC 2.5G 25000 SL	K10286276131256	50	5	12	20.5	—	80	15
HSK-E 50 SFH05 120 FCC 2.5G 25000 SL	K10286276162256	50	5	12	22	—	120	15
HSK-E 50 SFH05 160 FCC 2.5G 25000 SL	K10286276175256	50	5	12	22	—	160	15
HSK-E 50 SFH06 080 FCC 2.5G 25000 SL	K10286277131256	50	6	21	27	M5	80	36
HSK-E 50 SFH06 120 FCC 2.5G 25000 SL	K10286277162256	50	6	21	27	M5	120	36
HSK-E 50 SFH06 160 FCC 2.5G 25000 SL	K10286277175256	50	6	21	27	M5	160	36
HSK-E 50 SFH08 080 FCC 2.5G 25000 SL	K10286285135256	50	8	21	27	M6	80	36
HSK-E 50 SFH08 120 FCC 2.5G 25000 SL	K10286285162256	50	8	21	27	M6	120	36
HSK-E 50 SFH08 160 FCC 2.5G 25000 SL	K10286285175256	50	8	21	27	M6	160	36
HSK-E 50 SFH10 085 FCC 2.5G 25000 SL	K10286279135256	50	10	24	32	M8	85	41
HSK-E 50 SFH10 120 FCC 2.5G 25000 SL	K10286279162256	50	10	24	32	M8	120	41
HSK-E 50 SFH10 160 FCC 2.5G 25000 SL	K10286279175256	50	10	24	32	M8	160	41
HSK-E 50 SFH12 090 FCC 2.5G 25000 SL	K10286280313256	50	12	24	32	M10	90	46
HSK-E 50 SFH12 120 FCC 2.5G 25000 SL	K10286280162256	50	12	24	32	M10	120	46
HSK-E 50 SFH12 160 FCC 2.5G 25000 SL	K10286280175256	50	12	24	32	M10	160	46
HSK-E 50 SFH14 090 FCC 2.5G 25000 SL	K10286284140256	50	14	27	34	M10	90	46
HSK-E 50 SFH14 120 FCC 2.5G 25000 SL	K10286284162256	50	14	27	34	M10	120	46
HSK-E 50 SFH14 160 FCC 2.5G 25000 SL	K10286284175256	50	14	27	34	M10	160	46
HSK-E 50 SFH16 095 FCC 2.5G 25000 SL	K10286281145256	50	16	27	34	M12	95	49
HSK-E 50 SFH16 120 FCC 2.5G 25000 SL	K10286281162256	50	16	27	34	M12	120	49
HSK-E 50 SFH16 160 FCC 2.5G 25000 SL	K10286281175256	50	16	27	34	M12	160	49
HSK-E 50 SFH18 095 FCC 2.5G 25000 SL	K10286282145256	50	18	33	42	M12	95	49
HSK-E 50 SFH18 120 FCC 2.5G 25000 SL	K10286282162256	50	18	33	42	M12	120	49
HSK-E 50 SFH18 160 FCC 2.5G 25000 SL	K10286282175256	50	18	33	42	M12	160	49
HSK-E 50 SFH20 100 FCC 2.5G 25000 SL	K10286283148256	50	20	33	42	M16	100	51
HSK-E 50 SFH20 120 FCC 2.5G 25000 SL	K10286283162256	50	20	33	42	M16	120	51
HSK-E 50 SFH20 160 FCC 2.5G 25000 SL	K10286283175256	50	20	33	42	M16	160	51

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



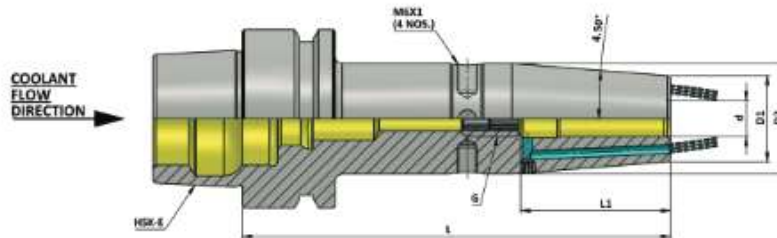
HSK-E (DIN 69893-5) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 50 SFH1/8" 060 FCC 2.5G 25000 SL	K10286978117256	50	1/8"	10	16	—	60	12
HSK-E 50 SFH1/8" 120 FCC 2.5G 25000 SL	K10286978162256	50	1/8"	10	16	—	120	12
HSK-E 50 SFH1/8" 160 FCC 2.5G 25000 SL	K10286978175256	50	1/8"	10	16	—	160	12
HSK-E 50 SFH3/16" 060 FCC 2.5G 25000 SL	K10286979117256	50	3/16"	12	20	—	60	14
HSK-E 50 SFH3/16" 120 FCC 2.5G 25000 SL	K10286979162256	50	3/16"	12	22	—	120	14
HSK-E 50 SFH3/16" 160 FCC 2.5G 25000 SL	K10286979175256	50	3/16"	12	22	—	160	14
HSK-E 50 SFH1/4" 080 FCC 2.5G 25000 SL	K10286980131256	50	1/4"	21	27	M5	80	36
HSK-E 50 SFH1/4" 120 FCC 2.5G 25000 SL	K10286980162256	50	1/4"	21	27	M5	120	36
HSK-E 50 SFH1/4" 160 FCC 2.5G 25000 SL	K10286980175256	50	1/4"	21	27	M5	160	36
HSK-E 50 SFH5/16" 080 FCC 2.5G 25000 SL	K10286981131256	50	5/16"	21	27	M6	80	36
HSK-E 50 SFH5/16" 120 FCC 2.5G 25000 SL	K10286981162256	50	5/16"	21	27	M6	120	36
HSK-E 50 SFH5/16" 160 FCC 2.5G 25000 SL	K10286981175256	50	5/16"	21	27	M6	160	36
HSK-E 50 SFH3/8" 080 FCC 2.5G 25000 SL	K10286982131256	50	3/8"	24	32	M8	80	41
HSK-E 50 SFH3/8" 120 FCC 2.5G 25000 SL	K10286982162256	50	3/8"	24	32	M8	120	41
HSK-E 50 SFH3/8" 160 FCC 2.5G 25000 SL	K10286982175256	50	3/8"	24	32	M8	160	41
HSK-E 50 SFH1/2" 090 FCC 2.5G 25000 SL	K10286983140256	50	1/2"	24	32	M10	90	46
HSK-E 50 SFH1/2" 120 FCC 2.5G 25000 SL	K10286983162256	50	1/2"	24	32	M10	120	46
HSK-E 50 SFH1/2" 160 FCC 2.5G 25000 SL	K10286983175256	50	1/2"	24	32	M10	160	46
HSK-E 50 SFH5/8" 090 FCC 2.5G 25000 SL	K10286984140256	50	5/8"	27	34	M12	90	49
HSK-E 50 SFH5/8" 120 FCC 2.5G 25000 SL	K10286984140256	50	5/8"	27	34	M12	120	49
HSK-E 50 SFH5/8" 160 FCC 2.5G 25000 SL	K10286984175256	50	5/8"	27	34	M12	160	49

Note: All Dimensions are in mm

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

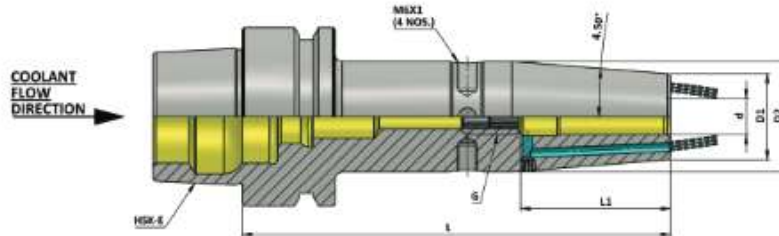


HSK-E (DIN 69893-5) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1
HSK-E 63 SFH03 080 FCC 2.5G 25000 SL	K10383274131256	63	3	10	16	—	80	12
HSK-E 63 SFH03 120 FCC 2.5G 25000 SL	K10383274162256	63	3	10	16	—	120	12
HSK-E 63 SFH03 160 FCC 2.5G 25000 SL	K10383274175256	63	3	10	16	—	160	12
HSK-E 63 SFH04 080 FCC 2.5G 25000 SL	K10383275131256	63	4	12	20	—	80	14
HSK-E 63 SFH04 120 FCC 2.5G 25000 SL	K10383275162256	63	4	12	20	—	120	14
HSK-E 63 SFH04 160 FCC 2.5G 25000 SL	K10383275175256	63	4	12	20	—	160	14
HSK-E 63 SFH05 080 FCC 2.5G 25000 SL	K10383276131256	63	5	12	20.5	—	80	15
HSK-E 63 SFH05 120 FCC 2.5G 25000 SL	K10383276162256	63	5	12	22	—	120	15
HSK-E 63 SFH05 160 FCC 2.5G 25000 SL	K10383276175256	63	5	12	22	—	160	15
HSK-E 63 SFH06 080 FCC 2.5G 25000 SL	K10383277131256	63	6	21	27	M5	80	36
HSK-E 63 SFH06 120 FCC 2.5G 25000 SL	K10383277162256	63	6	21	27	M5	120	36
HSK-E 63 SFH06 160 FCC 2.5G 25000 SL	K10383277175256	63	6	21	27	M5	160	36
HSK-E 63 SFH08 080 FCC 2.5G 25000 SL	K10383285131256	63	8	21	27	M6	80	36
HSK-E 63 SFH08 120 FCC 2.5G 25000 SL	K10383285162256	63	8	21	27	M6	120	36
HSK-E 63 SFH08 160 FCC 2.5G 25000 SL	K10383285175256	63	8	21	27	M6	160	36
HSK-E 63 SFH10 085 FCC 2.5G 25000 SL	K10383279135256	63	10	24	32	M8	85	41
HSK-E 63 SFH10 120 FCC 2.5G 25000 SL	K10383279162256	63	10	24	32	M8	120	41
HSK-E 63 SFH10 160 FCC 2.5G 25000 SL	K10383279175256	63	10	24	32	M8	160	41
HSK-E 63 SFH12 090 FCC 2.5G 25000 SL	K10383280140256	63	12	24	32	M10	90	46
HSK-E 63 SFH12 120 FCC 2.5G 25000 SL	K10383280162256	63	12	24	32	M10	120	46
HSK-E 63 SFH12 160 FCC 2.5G 25000 SL	K10383280175256	63	12	24	32	M10	160	46
HSK-E 63 SFH14 090 FCC 2.5G 25000 SL	K10383284140256	63	14	27	34	M10	90	46
HSK-E 63 SFH14 120 FCC 2.5G 25000 SL	K10383284162256	63	14	27	34	M10	120	46
HSK-E 63 SFH14 160 FCC 2.5G 25000 SL	K10383284175256	63	14	27	34	M10	160	46
HSK-E 63 SFH16 095 FCC 2.5G 25000 SL	K10383281145256	63	16	27	34	M12	95	49
HSK-E 63 SFH16 120 FCC 2.5G 25000 SL	K10383281162256	63	16	27	34	M12	120	49
HSK-E 63 SFH16 160 FCC 2.5G 25000 SL	K10383281175256	63	16	27	34	M12	160	49
HSK-E 63 SFH18 095 FCC 2.5G 25000 SL	K10383282145256	63	18	33	42	M12	95	49
HSK-E 63 SFH18 120 FCC 2.5G 25000 SL	K10383282162256	63	18	33	42	M12	120	49
HSK-E 63 SFH18 160 FCC 2.5G 25000 SL	K10383282175256	63	18	33	42	M12	160	49
HSK-E 63 SFH20 100 FCC 2.5G 25000 SL	K10383283148256	63	20	33	42	M16	100	51
HSK-E 63 SFH20 120 FCC 2.5G 25000 SL	K10383283162256	63	20	33	42	M16	120	51
HSK-E 63 SFH20 160 FCC 2.5G 25000 SL	K10383283175256	63	20	33	42	M16	160	51
HSK-E 63 SFH25 115 FCC 2.5G 25000 SL	K10383287159256	63	25	44	53	M16	115	57
HSK-E 63 SFH25 120 FCC 2.5G 25000 SL	K10383287162256	63	25	44	53	M16	120	57
HSK-E 63 SFH25 160 FCC 2.5G 25000 SL	K10383287175256	63	25	44	53	M16	160	57
HSK-E 63 SFH32 120 FCC 2.5G 25000 SL	K10383288162256	63	32	44	53	M16	120	61
HSK-E 63 SFH32 160 FCC 2.5G 25000 SL	K10383288175256	63	32	44	53	M16	160	61

HSK-E (DIN 69893 - 5) **Shrink Fit Holder 4.5 Degree (Face Coolant Channel)** **(SFH FCC 4.5°)**

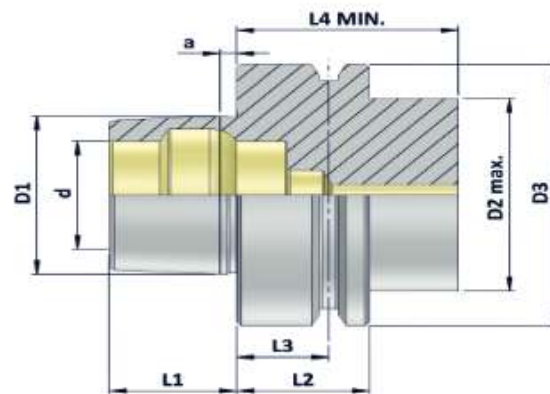


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



HSK-E (DIN 69893-5) (SFH FCC 4.5°)				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-E	d	D1	D2	G	L	L1	
HSK-E 63 SFH1/8" 080 FCC 2.5G 25000 SL	K10383978667256	63	1/8"	10	16	—	80	12	
HSK-E 63 SFH1/8" 120 FCC 2.5G 25000 SL	K10383978162256	63	1/8"	10	16	—	120	12	
HSK-E 63 SFH1/8" 160 FCC 2.5G 25000 SL	K10383978175256	63	1/8"	10	16	—	160	12	
HSK-E 63 SFH3/16" 080 FCC 2.5G 25000 SL	K10383979117256	63	3/16"	12	20	—	80	14	
HSK-E 63 SFH3/16" 120 FCC 2.5G 25000 SL	K10383979162256	63	3/16"	12	20	—	120	14	
HSK-E 63 SFH3/16" 160 FCC 2.5G 25000 SL	K10383979175256	63	3/16"	12	20	—	160	14	
HSK-E 63 SFH1/4" 080 FCC 2.5G 25000 SL	K10383980131256	63	1/4"	21	27	M5	80	36	
HSK-E 63 SFH1/4" 120 FCC 2.5G 25000 SL	K10383980162256	63	1/4"	21	27	M5	120	36	
HSK-E 63 SFH1/4" 160 FCC 2.5G 25000 SL	K10383980175256	63	1/4"	21	27	M5	160	36	
HSK-E 63 SFH5/16" 080 FCC 2.5G 25000 SL	K10383981131256	63	5/16"	21	27	M6	80	36	
HSK-E 63 SFH5/16" 120 FCC 2.5G 25000 SL	K10383981162256	63	5/16"	21	27	M6	120	36	
HSK-E 63 SFH5/16" 160 FCC 2.5G 25000 SL	K10383981175256	63	5/16"	21	27	M6	160	36	
HSK-E 63 SFH3/8" 085 FCC 2.5G 25000 SL	K10383982131256	63	3/8"	24	32	M8	85	41	
HSK-E 63 SFH3/8" 120 FCC 2.5G 25000 SL	K10383982162256	63	3/8"	24	32	M8	120	41	
HSK-E 63 SFH3/8" 160 FCC 2.5G 25000 SL	K10383982175256	63	3/8"	24	32	M8	160	41	
HSK-E 63 SFH1/2" 090 FCC 2.5G 25000 SL	K10383983140256	63	1/2"	24	32	M10	90	46	
HSK-E 63 SFH1/2" 120 FCC 2.5G 25000 SL	K10383983162256	63	1/2"	24	32	M10	120	46	
HSK-E 63 SFH1/2" 160 FCC 2.5G 25000 SL	K10383983175256	63	1/2"	24	32	M10	160	46	
HSK-E 63 SFH5/8" 095 FCC 2.5G 25000 SL	K10383984140256	63	5/8"	27	34	M12	95	49	
HSK-E 63 SFH5/8" 120 FCC 2.5G 25000 SL	K10383984162256	63	5/8"	27	34	M12	120	49	
HSK-E 63 SFH5/8" 160 FCC 2.5G 25000 SL	K10383984175256	63	5/8"	27	34	M12	160	49	
HSK-E 63 SFH3/4" 100 FCC 2.5G 25000 SL	K10383985148256	63	3/4"	33	42	M16	100	51	
HSK-E 63 SFH3/4" 120 FCC 2.5G 25000 SL	K10383985162256	63	3/4"	33	42	M16	120	51	
HSK-E 63 SFH3/4" 160 FCC 2.5G 25000 SL	K10383985175256	63	3/4"	33	42	M16	160	51	
HSK-E 63 SFH1.0" 115 FCC 2.5G 25000 SL	K10383986159256	63	1.0"	44	53	M16	115	57	
HSK-E 63 SFH1.0" 120 FCC 2.5G 25000 SL	K10383986162256	63	1.0"	44	53	M16	120	57	
HSK-E 63 SFH1.0" 160 FCC 2.5G 25000 SL	K10383986175256	63	1.0"	44	53	M16	160	57	
HSK-E 63 SFH1-1/4" 120 FCC 2.5G 25000 SL	K10383987162256	63	1-1/4"	44	53	M16	120	61	
HSK-E 63 SFH1-1/4" 160 FCC 2.5G 25000 SL	K10383987175256	63	1-1/4"	44	53	M16	160	61	

Note: All Dimensions are in mm



HSK-F	d	D1	D2	D3	a	L1	L2	L3	L4
63	26	38	53	63	5	25	26	18	42
80	34	48.01	68	80	6.3	32	26	18	42

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm²

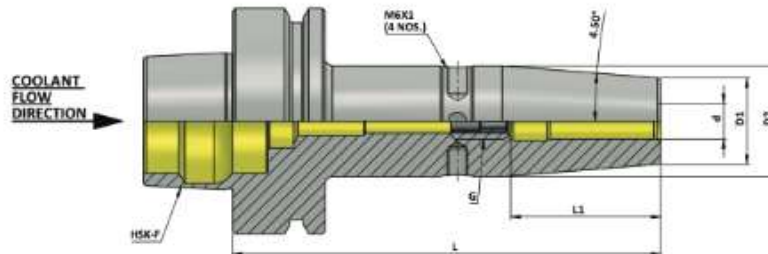
Execution :- Case hardened to HRC 58 $\pm$ 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- Taper Angle Class AT 3

HSK-F (DIN 69893 - 6) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



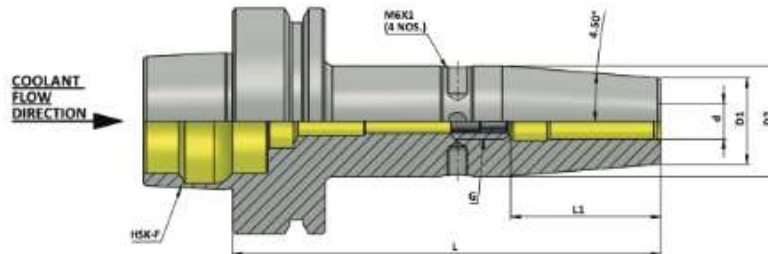
HSK-F (DIN 69893-6) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-F	d	D1	D2	G	L	L1
HSK-63F SFH03 080 2.5G 25000 SL	K10260274131227	63	3	10	20	—	80	12
HSK-63F SFH03 120 2.5G 25000 SL	K10260274162227	63	3	10	20	—	120	12
HSK-63F SFH03 160 2.5G 25000 SL	K10260274175227	63	3	10	20	—	160	12
HSK-63F SFH04 080 2.5G 25000 SL	K10260275131227	63	4	15	22	—	80	14
HSK-63F SFH04 120 2.5G 25000 SL	K10260275162227	63	4	15	22	—	120	14
HSK-63F SFH04 160 2.5G 25000 SL	K10260275175227	63	4	15	22	—	160	14
HSK-63F SFH05 080 2.5G 25000 SL	K10260276131227	63	5	15	22	—	80	15
HSK-63F SFH05 120 2.5G 25000 SL	K10260276162227	63	5	15	22	—	120	15
HSK-63F SFH05 160 2.5G 25000 SL	K10260276175227	63	5	15	22	—	160	15
HSK-63F SFH06 080 2.5G 25000 SL	K10260277131227	63	6	21	27	M5	80	36
HSK-63F SFH06 120 2.5G 25000 SL	K10260277162227	63	6	21	27	M5	120	36
HSK-63F SFH06 160 2.5G 25000 SL	K10260277175227	63	6	21	27	M5	160	36
HSK-63F SFH08 080 2.5G 25000 SL	K10260285131227	63	8	21	27	M6	80	36
HSK-63F SFH08 120 2.5G 25000 SL	K10260285162227	63	8	21	27	M6	120	36
HSK-63F SFH08 160 2.5G 25000 SL	K10260285175227	63	8	21	27	M6	160	36
HSK-63F SFH10 085 2.5G 25000 SL	K10260279135227	63	10	24	31	M8	85	41
HSK-63F SFH10 120 2.5G 25000 SL	K10260279162227	63	10	24	31	M8	120	41
HSK-63F SFH10 160 2.5G 25000 SL	K10260279175227	63	10	24	31	M8	160	41
HSK-63F SFH12 090 2.5G 25000 SL	K10260280140227	63	12	24	31	M10	90	46
HSK-63F SFH12 120 2.5G 25000 SL	K10260280162227	63	12	24	31	M10	120	46
HSK-63F SFH12 160 2.5G 25000 SL	K10260280175227	63	12	24	31	M10	160	46
HSK-63F SFH14 090 2.5G 25000 SL	K10260284140227	63	14	27	34	M10	90	46
HSK-63F SFH14 120 2.5G 25000 SL	K10260284162227	63	14	27	34	M10	120	46
HSK-63F SFH14 160 2.5G 25000 SL	K10260284175227	63	14	27	34	M10	160	46
HSK-63F SFH16 095 2.5G 25000 SL	K10260281145227	63	16	27	34	M12	95	49
HSK-63F SFH16 120 2.5G 25000 SL	K10260281162227	63	16	27	34	M12	120	49
HSK-63F SFH16 160 2.5G 25000 SL	K10260281175227	63	16	27	34	M12	160	49
HSK-63F SFH18 095 2.5G 25000 SL	K10260282145227	63	18	33	40	M12	95	49
HSK-63F SFH18 120 2.5G 25000 SL	K10260282162227	63	18	33	40	M12	120	49
HSK-63F SFH18 160 2.5G 25000 SL	K10260282175227	63	18	33	40	M12	160	49
HSK-63F SFH20 100 2.5G 25000 SL	K10260283148227	63	20	33	40	M16	100	51
HSK-63F SFH20 120 2.5G 25000 SL	K10260283162227	63	20	33	40	M16	120	51
HSK-63F SFH20 160 2.5G 25000 SL	K10260283175227	63	20	33	40	M16	160	51
HSK-63F SFH25 120 2.5G 25000 SL	K10260287162227	63	25	44	53	M16	120	57
HSK-63F SFH25 160 2.5G 25000 SL	K10260287175227	63	25	44	53	M16	160	57
HSK-63F SFH32 120 2.5G 25000 SL	K10260288162227	63	32	44	53	M16	120	61
HSK-63F SFH32 160 2.5G 25000 SL	K10260288175227	63	32	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-F (DIN 69893 - 6) **Shrink Fit Holder 4.5 Degree (SFH 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



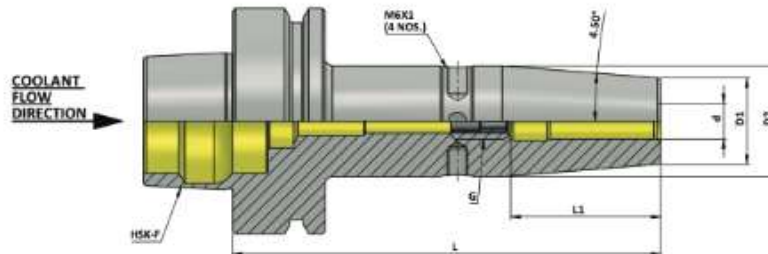
HSK-F (DIN 69893-6) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-F	d	D1	D2	G	L	L1
HSK-63F SFH1/8" 080 2.5G 25000 SL	K10260978131283	63	1/8"	10	20	—	80	12
HSK-63F SFH1/8" 120 2.5G 25000 SL	K10260978162283	63	1/8"	10	20	—	120	12
HSK-63F SFH1/8" 160 2.5G 25000 SL	K10260978175283	63	1/8"	10	20	—	160	12
HSK-63F SFH3/16" 080 2.5G 25000 SL	K10260979131283	63	3/16"	15	22	—	80	14
HSK-63F SFH3/16" 120 2.5G 25000 SL	K10260979162283	63	3/16"	15	22	—	120	14
HSK-63F SFH3/16" 160 2.5G 25000 SL	K10260979175283	63	3/16"	15	22	—	160	14
HSK-63F SFH1/4" 080 2.5G 25000 SL	K10260980131283	63	1/4"	21	27	M5	80	36
HSK-63F SFH1/4" 120 2.5G 25000 SL	K10260980162283	63	1/4"	21	27	M5	120	36
HSK-63F SFH1/4" 160 2.5G 25000 SL	K10260980175283	63	1/4"	21	27	M5	160	36
HSK-63F SFH5/16" 080 2.5G 25000 SL	K10260981131283	63	5/16"	21	27	M6	80	36
HSK-63F SFH5/16" 120 2.5G 25000 SL	K10260981162283	63	5/16"	21	27	M6	120	36
HSK-63F SFH5/16" 160 2.5G 25000 SL	K10260981175283	63	5/16"	21	27	M6	160	36
HSK-63F SFH3/8" 085 2.5G 25000 SL	K10260982135283	63	3/8"	24	31	M8	85	41
HSK-63F SFH3/8" 120 2.5G 25000 SL	K10260982162283	63	3/8"	24	31	M8	120	41
HSK-63F SFH3/8" 160 2.5G 25000 SL	K10260982175283	63	3/8"	24	31	M8	160	41
HSK-63F SFH1/2" 090 2.5G 25000 SL	K10260983140283	63	1/2"	24	31	M10	90	46
HSK-63F SFH1/2" 120 2.5G 25000 SL	K10260983162283	63	1/2"	24	31	M10	120	46
HSK-63F SFH1/2" 160 2.5G 25000 SL	K10260983175283	63	1/2"	24	31	M10	160	46
HSK-63F SFH5/8" 095 2.5G 25000 SL	K10260984145283	63	5/8"	27	34	M12	95	49
HSK-63F SFH5/8" 120 2.5G 25000 SL	K10260984162283	63	5/8"	27	34	M12	120	49
HSK-63F SFH5/8" 160 2.5G 25000 SL	K10260984175283	63	5/8"	27	34	M12	160	49
HSK-63F SFH3/4" 100 2.5G 25000 SL	K10260985148283	63	3/4"	33	40	M16	100	51
HSK-63F SFH3/4" 120 2.5G 25000 SL	K10260985162283	63	3/4"	33	40	M16	120	51
HSK-63F SFH3/4" 160 2.5G 25000 SL	K10260985175283	63	3/4"	33	40	M16	160	51
HSK-63F SFH1.0" 120 2.5G 25000 SL	K10260986162283	63	1.0"	44	53	M16	120	57
HSK-63F SFH1.0" 160 2.5G 25000 SL	K10260986175283	63	1.0"	44	53	M16	160	57
HSK-63F SFH1-1/4" 120 2.5G 25000 SL	K10260987162283	63	1-1/4"	44	53	M16	120	61
HSK-63F SFH1-1/4" 160 2.5G 25000 SL	K10260987175283	63	1-1/4"	44	53	M16	160	61

Note: All Dimensions are in mm

HSK-F (DIN 69893 - 6) **Shrink Fit Holder 4.5 Degree (SFH 4.5°)**



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

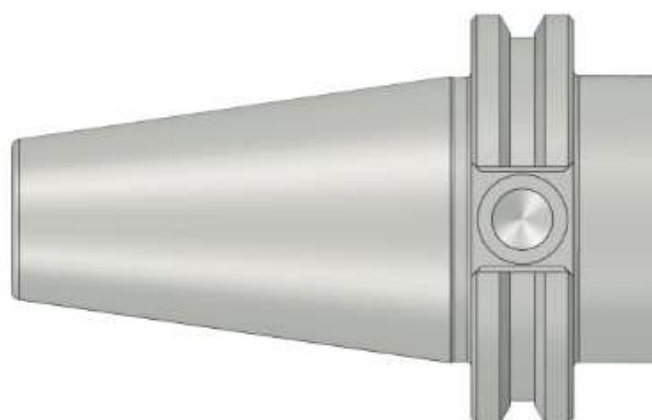


HSK-F (DIN 69893-6) (SFH 4.5°)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	HSK-F	d	D1	D2	G	L	L1
HSK-F 80 SFH06 070 2.5G 25000 SL	K10395277125527	80	6	21	27	M5	70	36
HSK-F 80 SFH08 070 2.5G 25000 SL	K10395285125527	80	8	21	27	M6	70	36
HSK-F 80 SFH10 070 2.5G 25000 SL	K10395279125527	80	10	24	32	M8	70	41
HSK-F 80 SFH12 070 2.5G 25000 SL	K10395280125527	80	12	24	32	M10	70	46
HSK-F 80 SFH14 070 2.5G 25000 SL	K10395284125527	80	14	27	34	M10	70	46
HSK-F 80 SFH16 070 2.5G 25000 SL	K10395281125527	80	16	27	34	M12	70	49
HSK-F 80 SFH20 070 2.5G 25000 SL	K10395282125527	80	20	33	40	M16	70	51
HSK-F 80 SFH25 070 2.5G 25000 SL	K10395287125527	80	25	44	53	M16	70	57

HSK-F 80 SFH1/4" 070 2.5G 25000 SL	K10395980125527	80	1/4"	21	27	M5	70	36
HSK-F 80 SFH5/16" 070 2.5G 25000 SL	K10395981125527	80	5/16"	21	27	M6	70	36
HSK-F 80 SFH3/8" 070 2.5G 25000 SL	K10395982125527	80	3/8"	24	32	M8	70	41
HSK-F 80 SFH1/2" 070 2.5G 25000 SL	K10395983125527	80	1/2"	24	32	M10	70	46
HSK-F 80 SFH5/8" 070 2.5G 25000 SL	K10395984125527	80	5/8"	27	34	M12	70	49
HSK-F 80 SFH3/4" 070 2.5G 25000 SL	K10395985125527	80	3/4"	33	40	M16	70	51
HSK-F 80 SFH1.0" 070 2.5G 25000 SL	K10395986125527	80	1.0"	44	53	M16	70	57

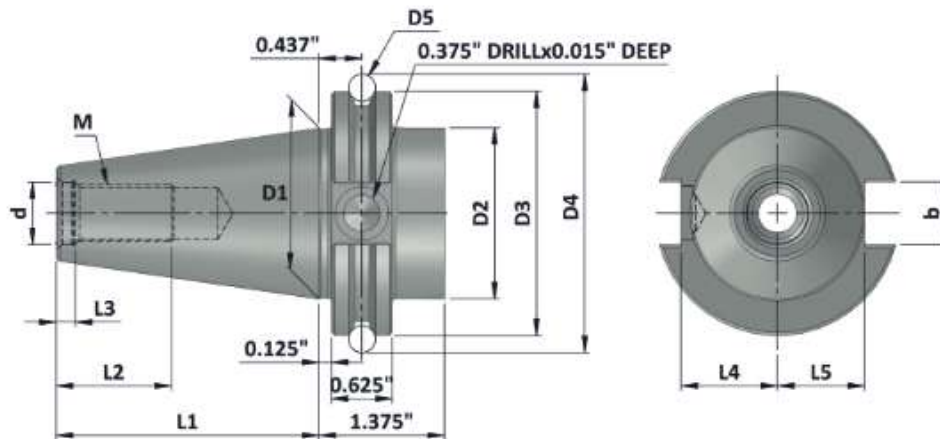
Note: All Dimensions are in mm

Precision Tool Holders CAT (ANSI B 5.50)



INDEX

Sr. No.	Contents		Page No.
①	Technical Information : CAT (ANSI B 5.50)		212
②	Shrink Fit Holders 4.5 Degree (SFH 4.5°) • Shrink Fit Holders (SFH 4.5°) (AD) • Shrink Fit Holders (Face Coolant Channel) (SFH FCC 4.5°) (AD)		213 - 229
③	Shrink Fit Holders Slim 3 Degree (SFH Slim 3°) • Shrink Fit Holders (SFH Slim 3°) (AD)		230 - 235
④	Shrink Fit Holders 4.5° Anti - Vibration (SFH - AD/AV)		236 - 239
⑤	Face Mill Holders Anti - Vibration (FMH-K - AD/AV)		240 - 243
⑥	Side Lock Adaptor Anti - Vibration (SLA - AD/AV)		244 - 247
⑦	Collet Chuck "ER" Anti - Vibration (ER - AD/AV)		248 - 250
⑧	Die & Mould Chuck (DMC)		251 - 252
⑨	Power Milling Chuck (PMC)		253 - 254
⑩	Minimum Length Compensation Tapping Chuck (MLC)		255 - 256



CAT	d	D1	D2	D3	D4	D5	b	M UNC 2B	L1	L2	L3	L4	L5
40	0.641"	1.750"	1.750"	2.500"	2.863"	0.2813"	0.645"	5/8" - 11"	2.687"	1.12"	0.188"	0.985"	0.890"
50	1.031"	2.750"	2.750"	3.875"	4.238"	0.2813"	1.120"	1" - 8"	4.000"	1.75"	0.250"	1.485"	1.390"

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm²

Execution :- Case hardened to HRC 58 $\pm$ 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

Features :

- For Mounting Of Carbide Drills, End Mills etc.
- Easy to reach at Deep cavities.
- Best T.I.R. & Rigidity during long working life, Result of in house Research & Development & special Heat Treatment.

Available In Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- HSK-E (DIN 69893-5)
- HSK-F (DIN 69893-6)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

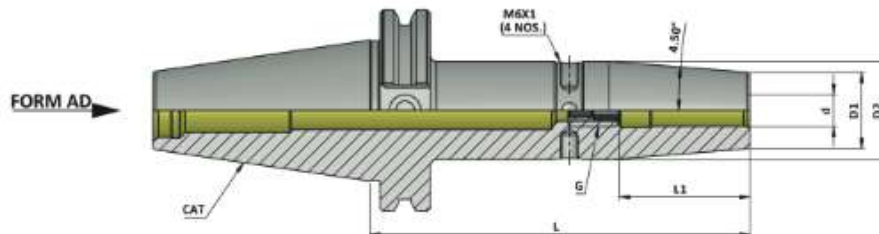
- Balanced To 2.5G 25000 SL



CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



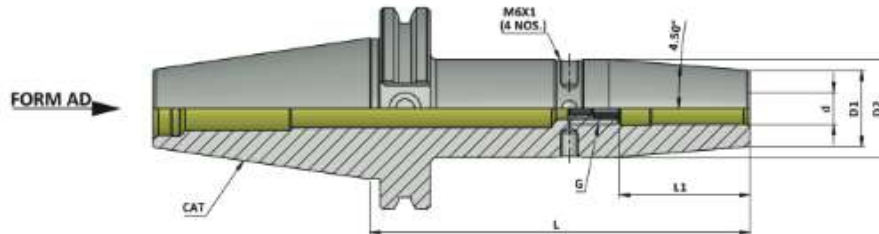
CAT (ANSI B 5.50) (SFH 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH03 080 AD/2.5G 25000 SL	K10203274131228	40	3	10	20	—	80	12
CAT40 SFH03 120 AD/2.5G 25000 SL	K10203274162228	40	3	10	20	—	120	12
CAT40 SFH03 130 AD/2.5G 25000 SL	K10203274165282	40	3	10	20	—	130	12
CAT40 SFH03 160 AD/2.5G 25000 SL	K10203274175228	40	3	10	20	—	160	12
CAT40 SFH04 080 AD/2.5G 25000 SL	K10203275131228	40	4	15	22	—	80	14
CAT40 SFH04 120 AD/2.5G 25000 SL	K10203275162228	40	4	15	22	—	120	14
CAT40 SFH04 130 AD/2.5G 25000 SL	K10203275165282	40	4	15	22	—	130	14
CAT40 SFH04 160 AD/2.5G 25000 SL	K10203275175228	40	4	15	22	—	160	14
CAT40 SFH05 080 AD/2.5G 25000 SL	K10203276131228	40	5	15	22	—	80	15
CAT40 SFH05 120 AD/2.5G 25000 SL	K10203276162228	40	5	15	22	—	120	15
CAT40 SFH05 130 AD/2.5G 25000 SL	K10203276165282	40	5	15	22	—	130	15
CAT40 SFH05 160 AD/2.5G 25000 SL	K10203276175228	40	5	15	22	—	160	15
CAT40 SFH06 080 AD/2.5G 25000 SL	K10203277131228	40	6	21	27	M5	80	36
CAT40 SFH06 120 AD/2.5G 25000 SL	K10203277162228	40	6	21	27	M5	120	36
CAT40 SFH06 130 AD/2.5G 25000 SL	K10203277165282	40	6	21	27	M5	130	36
CAT40 SFH06 160 AD/2.5G 25000 SL	K10203277175228	40	6	21	27	M5	160	36
CAT40 SFH06 200 AD/2.5G 25000 SL	K10203277239228	40	6	21	27	M5	200	36
CAT40 SFH08 080 AD/2.5G 25000 SL	K10203285131228	40	8	21	27	M6	80	36
CAT40 SFH08 120 AD/2.5G 25000 SL	K10203285162228	40	8	21	27	M6	120	36
CAT40 SFH08 130 AD/2.5G 25000 SL	K10203285165282	40	8	21	27	M6	130	36
CAT40 SFH08 160 AD/2.5G 25000 SL	K10203285175228	40	8	21	27	M6	160	36
CAT40 SFH08 200 AD/2.5G 25000 SL	K10203285239228	40	8	21	27	M6	200	36
CAT40 SFH10 080 AD/2.5G 25000 SL	K10203279131228	40	10	24	31	M8	80	41
CAT40 SFH10 120 AD/2.5G 25000 SL	K10203279162228	40	10	24	31	M8	120	41
CAT40 SFH10 130 AD/2.5G 25000 SL	K10203279165282	40	10	24	31	M8	130	41
CAT40 SFH10 160 AD/2.5G 25000 SL	K10203279175228	40	10	24	31	M8	160	41
CAT40 SFH10 200 AD/2.5G 25000 SL	K10203279239228	40	10	24	31	M8	200	41
CAT40 SFH12 080 AD/2.5G 25000 SL	K10203280131228	40	12	24	31	M10	80	46
CAT40 SFH12 120 AD/2.5G 25000 SL	K10203280162228	40	12	24	31	M10	120	46
CAT40 SFH12 130 AD/2.5G 25000 SL	K10203280165282	40	12	24	31	M10	130	46
CAT40 SFH12 160 AD/2.5G 25000 SL	K10203280175228	40	12	24	31	M10	160	46
CAT40 SFH12 200 AD/2.5G 25000 SL	K10203280239114	40	12	24	31	M10	200	46
CAT40 SFH14 080 AD/2.5G 25000 SL	K10203284131228	40	14	27	34	M10	80	46
CAT40 SFH14 120 AD/2.5G 25000 SL	K10203284162228	40	14	27	34	M10	120	46
CAT40 SFH14 130 AD/2.5G 25000 SL	K10203284165282	40	14	27	34	M10	130	46
CAT40 SFH14 160 AD/2.5G 25000 SL	K10203284175228	40	14	27	34	M10	160	46
CAT40 SFH14 200 AD/2.5G 25000 SL	K10203284239114	40	14	27	34	M10	200	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



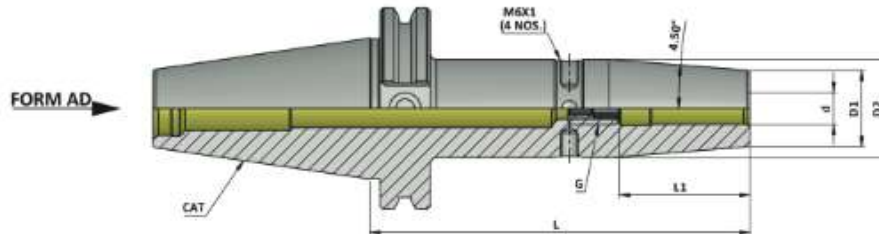
CAT (ANSI B 5.50) (SFH 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH16 080 AD/2.5G 25000 SL	K10203281131228	40	16	27	34	M12	80	49
CAT40 SFH16 120 AD/2.5G 25000 SL	K10203281162228	40	16	27	34	M12	120	49
CAT40 SFH16 130 AD/2.5G 25000 SL	K10203281165282	40	16	27	34	M12	130	49
CAT40 SFH16 160 AD/2.5G 25000 SL	K10203281175228	40	16	27	34	M12	160	49
CAT40 SFH16 200 AD/2.5G 25000 SL	K10203281239114	40	16	27	34	M12	200	49
CAT40 SFH18 080 AD/2.5G 25000 SL	K10203282131228	40	18	33	40	M12	80	49
CAT40 SFH18 120 AD/2.5G 25000 SL	K10203282162228	40	18	33	40	M12	120	49
CAT40 SFH18 130 AD/2.5G 25000 SL	K10203282165282	40	18	33	40	M12	130	49
CAT40 SFH18 160 AD/2.5G 25000 SL	K10203282175228	40	18	33	40	M12	160	49
CAT40 SFH18 200 AD/2.5G 25000 SL	K10203282239114	40	18	33	40	M12	200	49
CAT40 SFH20 080 AD/2.5G 25000 SL	K10203283131228	40	20	33	40	M16	80	51
CAT40 SFH20 120 AD/2.5G 25000 SL	K10203283162228	40	20	33	40	M16	120	51
CAT40 SFH20 130 AD/2.5G 25000 SL	K10203283165282	40	20	33	40	M16	130	51
CAT40 SFH20 160 AD/2.5G 25000 SL	K10203283175228	40	20	33	40	M16	160	51
CAT40 SFH20 200 AD/2.5G 25000 SL	K10203283239114	40	20	33	40	M16	200	51
CAT40 SFH25 100 AD/2.5G 25000 SL	K10203287148228	40	25	44	53	M16	100	57
CAT40 SFH25 120 AD/2.5G 25000 SL	K10203287162228	40	25	44	53	M16	120	57
CAT40 SFH25 130 AD/2.5G 25000 SL	K10203287165282	40	25	44	53	M16	130	57
CAT40 SFH25 160 AD/2.5G 25000 SL	K10203287175228	40	25	44	53	M16	160	57
CAT40 SFH25 200 AD/2.5G 25000 SL	K10203287239114	40	25	44	53	M16	200	57
CAT40 SFH32 100 AD/2.5G 25000 SL	K10203288148228	40	32	44	53	M16	100	61
CAT40 SFH32 120 AD/2.5G 25000 SL	K10203288162228	40	32	44	53	M16	120	61
CAT40 SFH32 130 AD/2.5G 25000 SL	K10203288165282	40	32	44	53	M16	130	61
CAT40 SFH32 160 AD/2.5G 25000 SL	K10203288175228	40	32	44	53	M16	160	61
CAT40 SFH32 200 AD/2.5G 25000 SL	K10203288239114	40	32	44	53	M16	200	61

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



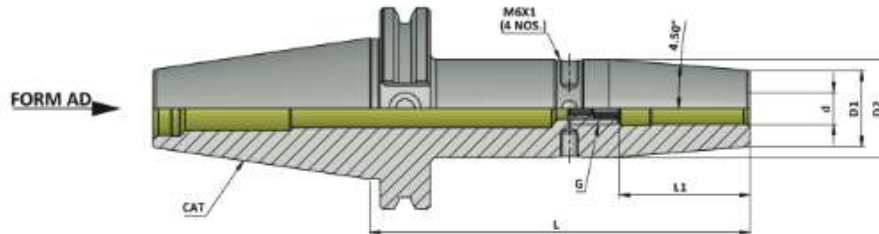
CAT (ANSI B 5.50) (SFH 4.5°) (AD)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH1/8" 3.15" AD/ 2.5G 25000 SL	K10203978675282	40	1/8"	10	20	—	3.15"	12
CAT40 SFH1/8" 4.72" AD/ 2.5G 25000 SL	K10203978863282	40	1/8"	10	20	—	4.72"	12
CAT40 SFH1/8" 5.12" AD/ 2.5G 25000 SL	K10203978676282	40	1/8"	10	20	—	5.12"	12
CAT40 SFH1/8" 6.30" AD/ 2.5G 25000 SL	K10203978673282	40	1/8"	10	20	—	6.30"	12
CAT40 SFH3/16" 3.15" AD/ 2.5G 25000 SL	K10203979675282	40	3/16"	15	22	—	3.15"	14
CAT40 SFH3/16" 4.72" AD/ 2.5G 25000 SL	K10203979672282	40	3/16"	15	22	—	4.72"	14
CAT40 SFH3/16" 5.12" AD/ 2.5G 25000 SL	K10203979916282	40	3/16"	15	22	—	5.12"	14
CAT40 SFH3/16" 6.30" AD/ 2.5G 25000 SL	K10203979673282	40	3/16"	15	22	—	6.30"	14
CAT40 SFH1/4" 3.15" AD/ 2.5G 25000 SL	K10203980675282	40	1/4"	21	27	M5	3.15"	36
CAT40 SFH1/4" 4.72" AD/ 2.5G 25000 SL	K10203980916282	40	1/4"	21	27	M5	4.72"	36
CAT40 SFH1/4" 5.12" AD/ 2.5G 25000 SL	K10203980676282	40	1/4"	21	27	M5	5.12"	36
CAT40 SFH1/4" 6.30" AD/ 2.5G 25000 SL	K10203980673282	40	1/4"	21	27	M5	6.30"	36
CAT40 SFH1/4" 7.87" AD/ 2.5G 25000 SL	K10203980647282	40	1/4"	21	27	M5	7.87"	36
CAT40 SFH5/16" 3.15" AD/ 2.5G 25000 SL	K10203981675282	40	5/16"	21	27	M6	3.15"	36
CAT40 SFH5/16" 4.72" AD/ 2.5G 25000 SL	K10203981916282	40	5/16"	21	27	M6	4.72"	36
CAT40 SFH5/16" 5.12" AD/ 2.5G 25000 SL	K10203981676282	40	5/16"	21	27	M6	5.12"	36
CAT40 SFH5/16" 6.30" AD/ 2.5G 25000 SL	K10203981673282	40	5/16"	21	27	M6	6.30"	36
CAT40 SFH5/16" 7.87" AD/ 2.5G 25000 SL	K10203981647282	40	5/16"	21	27	M6	7.87"	36
CAT40 SFH3/8" 3.15" AD/ 2.5G 25000 SL	K10203982671282	40	3/8"	24	31	M8	3.15"	41
CAT40 SFH3/8" 4.72" AD/ 2.5G 25000 SL	K10203982916282	40	3/8"	24	31	M8	4.72"	41
CAT40 SFH3/8" 5.12" AD/ 2.5G 25000 SL	K10203982676282	40	3/8"	24	31	M8	5.12"	41
CAT40 SFH3/8" 6.30" AD/ 2.5G 25000 SL	K10203982673282	40	3/8"	24	31	M8	6.30"	41
CAT40 SFH3/8" 7.87" AD/ 2.5G 25000 SL	K10203982685282	40	3/8"	24	31	M8	7.87"	41
CAT40 SFH7/16" 3.15" AD/ 2.5G 25000 SL	K10204979674282	40	7/16"	24	31	M10	3.15"	46
CAT40 SFH7/16" 4.72" AD/ 2.5G 25000 SL	K10203981762282	40	7/16"	24	31	M10	4.72"	46
CAT40 SFH7/16" 5.12" AD/ 2.5G 25000 SL	K10203979682282	40	7/16"	24	31	M10	5.12"	46
CAT40 SFH7/16" 6.30" AD/ 2.5G 25000 SL	K10203979683282	40	7/16"	24	31	M10	6.30"	46
CAT40 SFH7/16" 7.87" AD/ 2.5G 25000 SL	K10203979674282	40	7/16"	24	31	M10	7.87"	46
CAT40 SFH1/2" 3.15" AD/ 2.5G 25000 SL	K10203983671282	40	1/2"	24	31	M10	3.15"	46
CAT40 SFH1/2" 4.72" AD/ 2.5G 25000 SL	K10203983916282	40	1/2"	24	31	M10	4.72"	46
CAT40 SFH1/2" 5.12" AD/ 2.5G 25000 SL	K10203983676282	40	1/2"	24	31	M10	5.12"	46
CAT40 SFH1/2" 6.30" AD/ 2.5G 25000 SL	K10203983673282	40	1/2"	24	31	M10	6.30"	46
CAT40 SFH1/2" 7.87" AD/ 2.5G 25000 SL	K10203983685282	40	1/2"	24	31	M10	7.87"	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



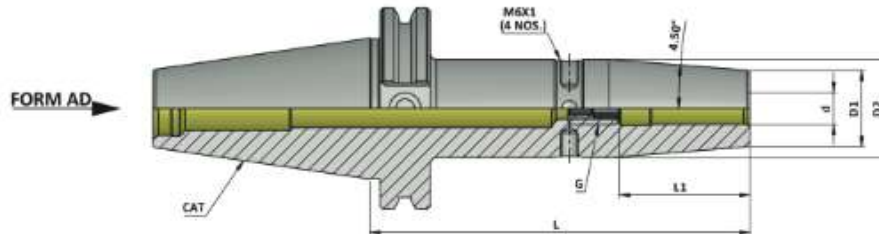
CAT (ANSI B 5.50) (SFH 4.5°) (AD)									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT40 SFH5/8" 3.15" AD/ 2.5G 25000 SL	K10203984685282	40	5/8"	27	34	M12	3.15"	49	
CAT40 SFH5/8" 4.72" AD/ 2.5G 25000 SL	K10203984190282	40	5/8"	27	34	M12	4.72"	49	
CAT40 SFH5/8" 5.12" AD/ 2.5G 25000 SL	K10168984916282	40	5/8"	27	34	M12	5.12"	49	
CAT40 SFH5/8" 6.30" AD/ 2.5G 25000 SL	K10203984916282	40	5/8"	27	34	M12	6.30"	49	
CAT40 SFH5/8" 7.87" AD/ 2.5G 25000 SL	K10203984337282	40	5/8"	27	34	M12	7.87"	49	
CAT40 SFH3/4" 3.15" AD/ 2.5G 25000 SL	K10203985671282	40	3/4"	33	40	M16	3.15"	51	
CAT40 SFH3/4" 4.72" AD/ 2.5G 25000 SL	K10203985190282	40	3/4"	33	40	M16	4.72"	51	
CAT40 SFH3/4" 5.12" AD/ 2.5G 25000 SL	K10203985672282	40	3/4"	33	40	M16	5.12"	51	
CAT40 SFH3/4" 6.30" AD/ 2.5G 25000 SL	K10203985676282	40	3/4"	33	40	M16	6.30"	51	
CAT40 SFH3/4" 7.87" AD/ 2.5G 25000 SL	K10203985673282	40	3/4"	33	40	M16	7.87"	51	
CAT40 SFH1.0" 3.94" AD/ 2.5G 25000 SL	K10203986671282	40	1.0"	44	53	M16	3.94"	57	
CAT40 SFH1.0" 4.72" AD/ 2.5G 25000 SL	K10203986190282	40	1.0"	44	53	M16	4.72"	57	
CAT40 SFH1.0" 5.12" AD/ 2.5G 25000 SL	K10203986183228	40	1.0"	44	53	M16	5.12"	57	
CAT40 SFH1.0" 6.30" AD/ 2.5G 25000 SL	K10203986673282	40	1.0"	44	53	M16	6.30"	57	
CAT40 SFH1.0" 7.87" AD/ 2.5G 25000 SL	K10203986672282	40	1.0"	44	53	M16	7.87"	57	
CAT40 SFH1-1/4" 3.94" AD/ 2.5G 25000 SL	K10203987672282	40	1-1/4"	44	53	M16	3.94"	61	
CAT40 SFH1-1/4" 4.72" AD/ 2.5G 25000 SL	K10203987190282	40	1-1/4"	44	53	M16	4.72"	61	
CAT40 SFH1-1/4" 5.12" AD/ 2.5G 25000 SL	K10203987337282	40	1-1/4"	44	53	M16	5.12"	61	
CAT40 SFH1-1/4" 6.30" AD/ 2.5G 25000 SL	K10203987676282	40	1-1/4"	44	53	M16	6.30"	61	
CAT40 SFH1-1/4" 7.87" AD/ 2.5G 25000 SL	K10203987680282	40	1-1/4"	44	53	M16	7.87"	61	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



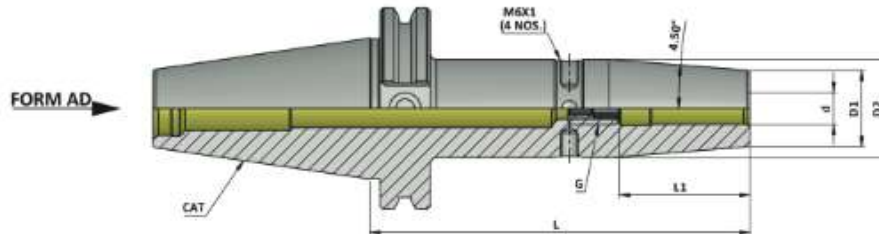
CAT (ANSI B 5.50) (SFH 4.5°) (AD)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT50 SFH03 080 AD/2.5G 25000 SL	K10204274131228	50	3	10	20	—	80	12
CAT50 SFH03 120 AD/2.5G 25000 SL	K10204274162228	50	3	10	20	—	120	12
CAT50 SFH03 130 AD/2.5G 25000 SL	K10204274165282	50	3	10	20	—	130	12
CAT50 SFH03 160 AD/2.5G 25000 SL	K10204274175228	50	3	10	20	—	160	12
CAT50 SFH04 080 AD/2.5G 25000 SL	K10204275131228	50	4	15	22	—	80	14
CAT50 SFH04 120 AD/2.5G 25000 SL	K10204275162228	50	4	15	22	—	120	14
CAT50 SFH04 130 AD/2.5G 25000 SL	K10204275165282	50	4	15	22	—	130	14
CAT50 SFH04 160 AD/2.5G 25000 SL	K10204275175228	50	4	15	22	—	160	14
CAT50 SFH05 080 AD/2.5G 25000 SL	K10204276131228	50	5	15	22	—	80	15
CAT50 SFH05 120 AD/2.5G 25000 SL	K10204276162228	50	5	15	22	—	120	15
CAT50 SFH05 130 AD/2.5G 25000 SL	K10204276165282	50	5	15	22	—	130	15
CAT50 SFH05 160 AD/2.5G 25000 SL	K10204276175228	50	5	15	22	—	160	15
CAT50 SFH06 080 AD/2.5G 25000 SL	K10204277131228	50	6	21	27	M5	80	36
CAT50 SFH06 120 AD/2.5G 25000 SL	K10204277162228	50	6	21	27	M5	120	36
CAT50 SFH06 130 AD/2.5G 25000 SL	K10204277165282	50	6	21	27	M5	130	36
CAT50 SFH06 160 AD/2.5G 25000 SL	K10204277175228	50	6	21	27	M5	160	36
CAT50 SFH06 200 AD/2.5G 25000 SL	K10204277239228	50	6	21	27	M5	200	36
CAT50 SFH08 080 AD/2.5G 25000 SL	K10204285131228	50	8	21	27	M6	80	36
CAT50 SFH08 120 AD/2.5G 25000 SL	K10204285162228	50	8	21	27	M6	120	36
CAT50 SFH08 130 AD/2.5G 25000 SL	K10204285165282	50	8	21	27	M6	130	36
CAT50 SFH08 160 AD/2.5G 25000 SL	K10204285175228	50	8	21	27	M6	160	36
CAT50 SFH08 200 AD/2.5G 25000 SL	K10204285239228	50	8	21	27	M6	200	36
CAT50 SFH10 080 AD/2.5G 25000 SL	K10204279131228	50	10	24	31	M8	80	41
CAT50 SFH10 120 AD/2.5G 25000 SL	K10204279162228	50	10	24	31	M8	120	41
CAT50 SFH10 130 AD/2.5G 25000 SL	K10204279165282	50	10	24	31	M8	130	41
CAT50 SFH10 160 AD/2.5G 25000 SL	K10204279175228	50	10	24	31	M8	160	41
CAT50 SFH10 200 AD/2.5G 25000 SL	K10204279239228	50	10	24	31	M8	200	41
CAT50 SFH12 080 AD/2.5G 25000 SL	K10204280131228	50	12	24	31	M10	80	46
CAT50 SFH12 120 AD/2.5G 25000 SL	K10204280162228	50	12	24	31	M10	120	46
CAT50 SFH12 130 AD/2.5G 25000 SL	K10204280165282	50	12	24	31	M10	130	46
CAT50 SFH12 160 AD/2.5G 25000 SL	K10204280175228	50	12	24	31	M10	160	46
CAT50 SFH12 200 AD/2.5G 25000 SL	K10204280239114	50	12	24	31	M10	200	46
CAT50 SFH14 080 AD/2.5G 25000 SL	K10204284131228	50	14	27	34	M10	80	46
CAT50 SFH14 120 AD/2.5G 25000 SL	K10204284162228	50	14	27	34	M10	120	46
CAT50 SFH14 130 AD/2.5G 25000 SL	K10204284165282	50	14	27	34	M10	130	46
CAT50 SFH14 160 AD/2.5G 25000 SL	K10204284175228	50	14	27	34	M10	160	46
CAT50 SFH14 200 AD/2.5G 25000 SL	K10204284239114	50	14	27	34	M10	200	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



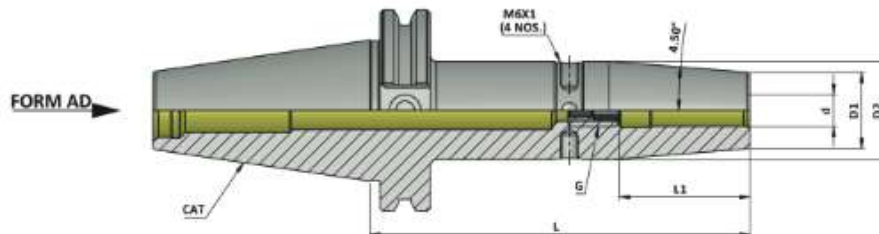
CAT (ANSI B 5.50) (SFH 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT50 SFH16 080 AD/2.5G 25000 SL	K10204281131228	50	16	27	34	M12	80	49
CAT50 SFH16 120 AD/2.5G 25000 SL	K10204281162228	50	16	27	34	M12	120	49
CAT50 SFH16 130 AD/2.5G 25000 SL	K10204281165282	50	16	27	34	M12	130	49
CAT50 SFH16 160 AD/2.5G 25000 SL	K10204281175228	50	16	27	34	M12	160	49
CAT50 SFH16 200 AD/2.5G 25000 SL	K10204281239114	50	16	27	34	M12	200	49
CAT50 SFH18 080 AD/2.5G 25000 SL	K10204282131228	50	18	33	40	M12	80	49
CAT50 SFH18 120 AD/2.5G 25000 SL	K10204282162228	50	18	33	40	M12	120	49
CAT50 SFH18 130 AD/2.5G 25000 SL	K10204282165282	50	18	33	40	M12	130	49
CAT50 SFH18 160 AD/2.5G 25000 SL	K10204282175228	50	18	33	40	M12	160	49
CAT50 SFH18 200 AD/2.5G 25000 SL	K10204282239114	50	18	33	40	M12	200	49
CAT50 SFH20 080 AD/2.5G 25000 SL	K10204283131228	50	20	33	40	M16	80	51
CAT50 SFH20 120 AD/2.5G 25000 SL	K10204283162228	50	20	33	40	M16	120	51
CAT50 SFH20 130 AD/2.5G 25000 SL	K10204283165282	50	20	33	40	M16	130	51
CAT50 SFH20 160 AD/2.5G 25000 SL	K10204283175228	50	20	33	40	M16	160	51
CAT50 SFH20 200 AD/2.5G 25000 SL	K10204283239114	50	20	33	40	M16	200	51
CAT50 SFH25 100 AD/2.5G 25000 SL	K10204287148228	50	25	44	53	M16	100	57
CAT50 SFH25 120 AD/2.5G 25000 SL	K10204287162228	50	25	44	53	M16	120	57
CAT50 SFH25 130 AD/2.5G 25000 SL	K10204287165282	50	25	44	53	M16	130	57
CAT50 SFH25 160 AD/2.5G 25000 SL	K10204287175228	50	25	44	53	M16	160	57
CAT50 SFH25 200 AD/2.5G 25000 SL	K10204287239114	50	25	44	53	M16	200	57
CAT50 SFH32 100 AD/2.5G 25000 SL	K10204288148228	50	32	44	53	M16	100	61
CAT50 SFH32 120 AD/2.5G 25000 SL	K10204288162228	50	32	44	53	M16	120	61
CAT50 SFH32 130 AD/2.5G 25000 SL	K10204288165282	50	32	44	53	M16	130	61
CAT50 SFH32 160 AD/2.5G 25000 SL	K10204288175228	50	32	44	53	M16	160	61
CAT50 SFH32 200 AD/2.5G 25000 SL	K10204288239114	50	32	44	53	M16	200	61

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



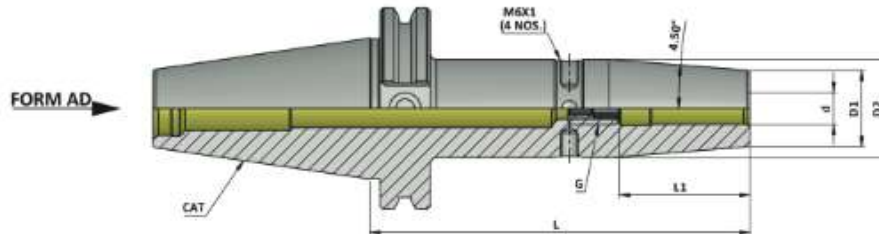
CAT (ANSI B 5.50) (SFH 4.5°) (AD)			(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT50 SFH1/8" 3.15" AD/ 2.5G 25000 SL	K10204978685282	50	1/8"	10	20	—	3.15"	12
CAT50 SFH1/8" 4.72" AD/ 2.5G 25000 SL	K10204978675282	50	1/8"	10	20	—	4.72"	12
CAT50 SFH1/8" 5.12" AD/ 2.5G 25000 SL	K10204978916282	50	1/8"	10	20	—	5.12"	12
CAT50 SFH1/8" 6.30" AD/ 2.5G 25000 SL	K10204978269282	50	1/8"	10	20	—	6.30"	12
CAT50 SFH3/16" 3.15" AD/ 2.5G 25000 SL	K10204979685282	50	3/16"	15	22	—	3.15"	14
CAT50 SFH3/16" 4.72" AD/ 2.5G 25000 SL	K10204979276282	50	3/16"	15	22	—	4.72"	14
CAT50 SFH3/16" 5.12" AD/ 2.5G 25000 SL	K10204979916282	50	3/16"	15	22	—	5.12"	14
CAT50 SFH3/16" 6.30" AD/ 2.5G 25000 SL	K10204979269282	50	3/16"	15	22	—	6.30"	14
CAT50 SFH1/4" 3.15" AD/ 2.5G 25000 SL	K10204980675282	50	1/4"	21	27	M5	3.15"	36
CAT50 SFH1/4" 4.72" AD/ 2.5G 25000 SL	K10204978672282	50	1/4"	21	27	M5	4.72"	36
CAT50 SFH1/4" 5.12" AD/ 2.5G 25000 SL	K10204980671282	50	1/4"	21	27	M5	5.12"	36
CAT50 SFH1/4" 6.30" AD/ 2.5G 25000 SL	K10204980673282	50	1/4"	21	27	M5	6.30"	36
CAT50 SFH1/4" 7.87" AD/ 2.5G 25000 SL	K10204980194282	50	1/4"	21	27	M5	7.87"	36
CAT50 SFH5/16" 3.15" AD/ 2.5G 25000 SL	K10204981675282	50	5/16"	21	27	M6	3.15"	36
CAT50 SFH5/16" 4.72" AD/ 2.5G 25000 SL	K10204978672282	50	5/16"	21	27	M6	4.72"	36
CAT50 SFH5/16" 5.12" AD/ 2.5G 25000 SL	K10204981680282	50	5/16"	21	27	M6	5.12"	36
CAT50 SFH5/16" 6.30" AD/ 2.5G 25000 SL	K10204981670282	50	5/16"	21	27	M6	6.30"	36
CAT50 SFH5/16" 7.87" AD/ 2.5G 25000 SL	K10204981194282	50	5/16"	21	27	M6	7.87"	36
CAT50 SFH3/8" 3.15" AD/ 2.5G 25000 SL	K10204982773282	50	3/8"	24	31	M8	3.15"	41
CAT50 SFH3/8" 4.72" AD/ 2.5G 25000 SL	K10204981674282	50	3/8"	24	31	M8	4.72"	41
CAT50 SFH3/8" 5.12" AD/ 2.5G 25000 SL	K10204982673282	50	3/8"	24	31	M8	5.12"	41
CAT50 SFH3/8" 6.30" AD/ 2.5G 25000 SL	K10204982270282	50	3/8"	24	31	M8	6.30"	41
CAT50 SFH3/8" 7.87" AD/ 2.5G 25000 SL	K10204982676282	50	3/8"	24	31	M8	7.87"	41
CAT50 SFH7/16" 3.15" AD/ 2.5G 25000 SL	K10204979676282	50	7/16"	24	31	M10	3.15"	46
CAT50 SFH7/16" 4.72" AD/ 2.5G 25000 SL	K10204979863282	50	7/16"	24	31	M10	4.72"	46
CAT50 SFH7/16" 5.12" AD/ 2.5G 25000 SL	K10204979337282	50	7/16"	24	31	M10	5.12"	46
CAT50 SFH7/16" 6.30" AD/ 2.5G 25000 SL	K10204979672282	50	7/16"	24	31	M10	6.30"	46
CAT50 SFH7/16" 7.87" AD/ 2.5G 25000 SL	K10204979336282	50	7/16"	24	31	M10	7.87"	46
CAT50 SFH1/2" 3.15" AD/ 2.5G 25000 SL	K10204983675282	50	1/2"	24	31	M10	3.15"	46
CAT50 SFH1/2" 4.72" AD/ 2.5G 25000 SL	K10204983672282	50	1/2"	24	31	M10	4.72"	46
CAT50 SFH1/2" 5.12" AD/ 2.5G 25000 SL	K10204983673282	50	1/2"	24	31	M10	5.12"	46
CAT50 SFH1/2" 6.30" AD/ 2.5G 25000 SL	K10204983270282	50	1/2"	24	31	M10	6.30"	46
CAT50 SFH1/2" 7.87" AD/ 2.5G 25000 SL	K1020498336282	50	1/2"	24	31	M10	7.87"	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (SFH 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



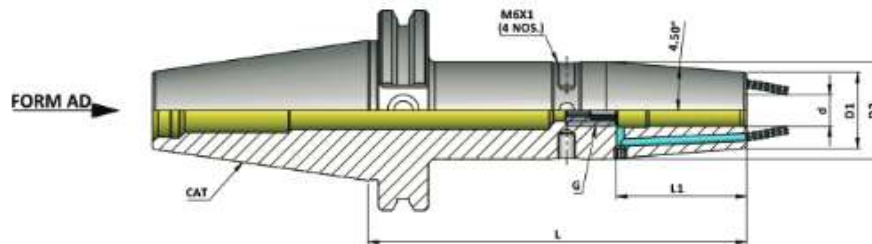
CAT (ANSI B 5.50) (SFH 4.5°) (AD)									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT50 SFH5/8" 3.15" AD/ 2.5G 25000 SL	K10204984675282	50	5/8"	27	34	M12	3.15"	49	
CAT50 SFH5/8" 4.72" AD/ 2.5G 25000 SL	K10204984276282	50	5/8"	27	34	M12	4.72"	49	
CAT50 SFH5/8" 5.12" AD/ 2.5G 25000 SL	K10204984673282	50	5/8"	27	34	M12	5.12"	49	
CAT50 SFH5/8" 6.30" AD/ 2.5G 25000 SL	K10204984336282	50	5/8"	27	34	M12	6.30"	49	
CAT50 SFH5/8" 7.87" AD/ 2.5G 25000 SL	K10204984672282	50	5/8"	27	34	M12	7.87"	49	
CAT50 SFH3/4" 3.15" AD/ 2.5G 25000 SL	K10204985863282	50	3/4"	33	40	M16	3.15"	51	
CAT50 SFH3/4" 4.72" AD/ 2.5G 25000 SL	K10204985276282	50	3/4"	33	40	M16	4.72"	51	
CAT50 SFH3/4" 5.12" AD/ 2.5G 25000 SL	K10204985673282	50	3/4"	33	40	M16	5.12"	51	
CAT50 SFH3/4" 6.30" AD/ 2.5G 25000 SL	K10204985672282	50	3/4"	33	40	M16	6.30"	51	
CAT50 SFH3/4" 7.87" AD/ 2.5G 25000 SL	K10204985336282	50	3/4"	33	40	M16	7.87"	51	
CAT50 SFH1.0" 3.94" AD/ 2.5G 25000 SL	K10204986863282	50	1.0"	44	53	M16	3.94"	57	
CAT50 SFH1.0" 4.72" AD/ 2.5G 25000 SL	K10204986276282	50	1.0"	44	53	M16	4.72"	57	
CAT50 SFH1.0" 5.12" AD/ 2.5G 25000 SL	K10204986673282	50	1.0"	44	53	M16	5.12"	57	
CAT50 SFH1.0" 6.30" AD/ 2.5G 25000 SL	K10204986336282	50	1.0"	44	53	M16	6.30"	57	
CAT50 SFH1.0" 7.87" AD/ 2.5G 25000 SL	K10204986672282	50	1.0"	44	53	M16	7.87"	57	
CAT50 SFH1-1/4" 3.94" AD/ 2.5G 25000 SL	K10204987336282	50	1-1/4"	44	53	M16	3.94"	61	
CAT50 SFH1-1/4" 4.72" AD/ 2.5G 25000 SL	K10204987276282	50	1-1/4"	44	53	M16	4.72"	61	
CAT50 SFH1-1/4" 5.12" AD/ 2.5G 25000 SL	K10204987673282	50	1-1/4"	44	53	M16	5.12"	61	
CAT50 SFH1-1/4" 6.30" AD/ 2.5G 25000 SL	K10204987863282	50	1-1/4"	44	53	M16	6.30"	61	
CAT50 SFH1-1/4" 7.87" AD/ 2.5G 25000 SL	K10204987672282	50	1-1/4"	44	53	M16	7.87"	61	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



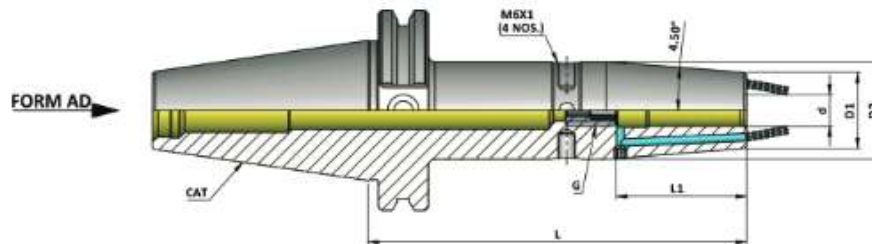
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH03 080 FCC AD/ 2.5G 25000SL	K10203274131286	40	3	10	20	—	80	12
CAT40 SFH03 120 FCC AD/ 2.5G 25000SL	K10203610162286	40	3	10	20	—	120	12
CAT40 SFH03 130 FCC AD/ 2.5G 25000SL	K10203610165286	40	3	10	20	—	130	12
CAT40 SFH03 160 FCC AD/ 2.5G 25000SL	K10203610175286	40	3	10	20	—	160	12
CAT40 SFH04 080 FCC AD/ 2.5G 25000SL	K10203275131286	40	4	15	22	—	80	14
CAT40 SFH04 120 FCC AD/ 2.5G 25000SL	K10203349162286	40	4	15	22	—	120	14
CAT40 SFH04 130 FCC AD/ 2.5G 25000SL	K10203349165286	40	4	15	22	—	130	14
CAT40 SFH04 160 FCC AD/ 2.5G 25000SL	K10203349175286	40	4	15	22	—	160	14
CAT40 SFH05 080 FCC AD/ 2.5G 25000SL	K10203276131286	40	5	15	22	—	80	15
CAT40 SFH05 120 FCC AD/ 2.5G 25000SL	K10203347162286	40	5	15	22	—	120	15
CAT40 SFH05 130 FCC AD/ 2.5G 25000SL	K10203347165286	40	5	15	22	—	130	15
CAT40 SFH05 160 FCC AD/ 2.5G 25000SL	K10203347175286	40	5	15	22	—	160	15
CAT40 SFH06 080 FCC AD/ 2.5G 25000SL	K10203277131286	40	6	21	27	M5	80	36
CAT40 SFH06 120 FCC AD/ 2.5G 25000SL	K10203277162286	40	6	21	27	M5	120	36
CAT40 SFH06 130 FCC AD/ 2.5G 25000SL	K10203277165286	40	6	21	27	M5	130	36
CAT40 SFH06 160 FCC AD/ 2.5G 25000SL	K10203277175286	40	6	21	27	M5	160	36
CAT40 SFH08 080 FCC AD/ 2.5G 25000SL	K10203285131286	40	8	21	27	M6	80	36
CAT40 SFH08 120 FCC AD/ 2.5G 25000SL	K10203285162286	40	8	21	27	M6	120	36
CAT40 SFH08 130 FCC AD/ 2.5G 25000SL	K10203285165286	40	8	21	27	M6	130	36
CAT40 SFH08 160 FCC AD/ 2.5G 25000SL	K10203285175286	40	8	21	27	M6	160	36
CAT40 SFH10 080 FCC AD/ 2.5G 25000SL	K10203279131286	40	10	24	31	M8	80	41
CAT40 SFH10 120 FCC AD/ 2.5G 25000SL	K10203279162286	40	10	24	31	M8	120	41
CAT40 SFH10 130 FCC AD/ 2.5G 25000SL	K10203279165286	40	10	24	31	M8	130	41
CAT40 SFH10 160 FCC AD/ 2.5G 25000SL	K10203279175286	40	10	24	31	M8	160	41
CAT40 SFH12 080 FCC AD/ 2.5G 25000SL	K10203280131286	40	12	24	31	M10	80	46
CAT40 SFH12 120 FCC AD/ 2.5G 25000SL	K10203280162286	40	12	24	31	M10	120	46
CAT40 SFH12 130 FCC AD/ 2.5G 25000SL	K10203280165286	40	12	24	31	M10	130	46
CAT40 SFH12 160 FCC AD/ 2.5G 25000SL	K10203280175286	40	12	24	31	M10	160	46
CAT40 SFH14 080 FCC AD/ 2.5G 25000SL	K10203284131286	40	14	27	34	M10	80	46
CAT40 SFH14 120 FCC AD/ 2.5G 25000SL	K10203284162286	40	14	27	34	M10	120	46
CAT40 SFH14 130 FCC AD/ 2.5G 25000SL	K10203284165286	40	14	27	34	M10	130	46
CAT40 SFH14 160 FCC AD/ 2.5G 25000SL	K10203284175286	40	14	27	34	M10	160	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



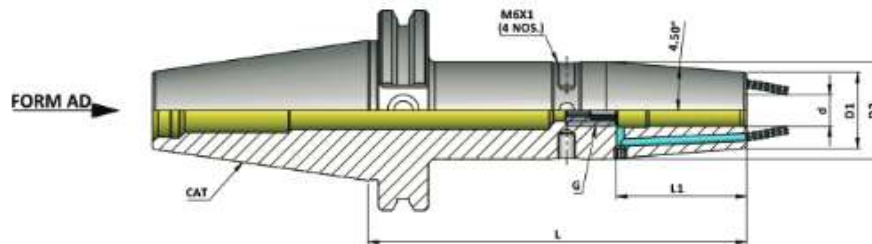
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)								(Balanced to 2.5G 25000 RPM)	
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT40 SFH16 080 FCC AD/ 2.5G 25000SL	K10203281131286	40	16	27	34	M12	80	49	
CAT40 SFH16 120 FCC AD/ 2.5G 25000SL	K10203281162286	40	16	27	34	M12	120	49	
CAT40 SFH16 130 FCC AD/ 2.5G 25000SL	K10203281165286	40	16	27	34	M12	130	49	
CAT40 SFH16 160 FCC AD/ 2.5G 25000SL	K10203281175286	40	16	27	34	M12	160	49	
CAT40 SFH18 080 FCC AD/ 2.5G 25000SL	K10203282131286	40	18	33	40	M12	80	49	
CAT40 SFH18 120 FCC AD/ 2.5G 25000SL	K10203282162286	40	18	33	40	M12	120	49	
CAT40 SFH18 130 FCC AD/ 2.5G 25000SL	K10203282165286	40	18	33	40	M12	130	49	
CAT40 SFH18 160 FCC AD/ 2.5G 25000SL	K10203282175286	40	18	33	40	M12	160	49	
CAT40 SFH20 080 FCC AD/ 2.5G 25000SL	K10203283131286	40	20	33	40	M16	80	51	
CAT40 SFH20 120 FCC AD/ 2.5G 25000SL	K10203283162286	40	20	33	40	M16	120	51	
CAT40 SFH20 130 FCC AD/ 2.5G 25000SL	K10203283165286	40	20	33	40	M16	130	51	
CAT40 SFH20 160 FCC AD/ 2.5G 25000SL	K10203283175286	40	20	33	40	M16	160	51	
CAT40 SFH25 100 FCC AD/ 2.5G 25000SL	K10203287148286	40	25	44	53	M16	100	57	
CAT40 SFH25 120 FCC AD/ 2.5G 25000SL	K10203287162286	40	25	44	53	M16	120	57	
CAT40 SFH25 130 FCC AD/ 2.5G 25000SL	K10203287165286	40	25	44	53	M16	130	57	
CAT40 SFH25 160 FCC AD/ 2.5G 25000SL	K10203287175286	40	25	44	53	M16	160	57	
CAT40 SFH32 100 FCC AD/ 2.5G 25000SL	K10203288148286	40	32	44	53	M16	100	61	
CAT40 SFH32 120 FCC AD/ 2.5G 25000SL	K10203288162286	40	32	44	53	M16	120	61	
CAT40 SFH32 130 FCC AD/ 2.5G 25000SL	K10203288165286	40	32	44	53	M16	130	61	
CAT40 SFH32 160 FCC AD/ 2.5G 25000SL	K10203288175286	40	32	44	53	M16	160	61	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



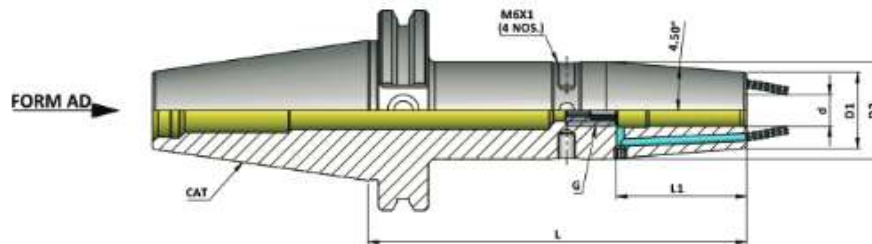
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH1/8" 3.15" FCC AD/ 2.5G 25000SL	K10203978675286	40	1/8"	10	20	—	3.15"	12
CAT40 SFH1/8" 4.72" FCC AD/ 2.5G 25000SL	K10203978672286	40	1/8"	10	20	—	4.72"	12
CAT40 SFH1/8" 5.12" FCC AD/ 2.5G 25000SL	K10203978676286	40	1/8"	10	20	—	5.12"	12
CAT40 SFH1/8" 6.30" FCC AD/ 2.5G 25000SL	K10203978667286	40	1/8"	10	20	—	6.30"	12
CAT40 SFH3/16" 3.15" FCC AD/ 2.5G 25000SL	K10203979675286	40	3/16"	15	22	—	3.15"	14
CAT40 SFH3/16" 4.72" FCC AD/ 2.5G 25000SL	K10203979672286	40	3/16"	15	22	—	4.72"	14
CAT40 SFH3/16" 5.12" FCC AD/ 2.5G 25000SL	K10203979337286	40	3/16"	15	22	—	5.12"	14
CAT40 SFH3/16" 6.30" FCC AD/ 2.5G 25000SL	K10203979667286	40	3/16"	15	22	—	6.30"	14
CAT40 SFH1/4" 3.15" FCC AD/ 2.5G 25000SL	K10203980671286	40	1/4"	21	27	M5	3.15"	36
CAT40 SFH1/4" 4.72" FCC AD/ 2.5G 25000SL	K10203980337286	40	1/4"	21	27	M5	4.72"	36
CAT40 SFH1/4" 5.12" FCC AD/ 2.5G 25000SL	K10203980675286	40	1/4"	21	27	M5	5.12"	36
CAT40 SFH1/4" 6.30" FCC AD/ 2.5G 25000SL	K10204980672282	40	1/4"	21	27	M5	6.30"	36
CAT40 SFH5/16" 3.15" FCC AD/ 2.5G 25000SL	K10203981675286	40	5/16"	21	27	M6	3.15"	36
CAT40 SFH5/16" 4.72" FCC AD/ 2.5G 25000SL	K10203981337286	40	5/16"	21	27	M6	4.72"	36
CAT40 SFH5/16" 5.12" FCC AD/ 2.5G 25000SL	K10203981676286	40	5/16"	21	27	M6	5.12"	36
CAT40 SFH5/16" 6.30" FCC AD/ 2.5G 25000SL	K10203981336286	40	5/16"	21	27	M6	6.30"	36
CAT40 SFH3/8" 3.15" FCC AD/ 2.5G 25000SL	K10203982675286	40	3/8"	24	31	M8	3.15"	41
CAT40 SFH3/8" 4.72" FCC AD/ 2.5G 25000SL	K10203982337286	40	3/8"	24	31	M8	4.72"	41
CAT40 SFH3/8" 5.12" FCC AD/ 2.5G 25000SL	K10203982676286	40	3/8"	24	31	M8	5.12"	41
CAT40 SFH3/8" 6.30" FCC AD/ 2.5G 25000SL	K10203982673286	40	3/8"	24	31	M8	6.30"	41
CAT40 SFH7/16" 3.15" FCC AD/ 2.5G 25000SL	K10203981277286	40	7/16"	24	31	M10	3.15"	46
CAT40 SFH7/16" 4.72" FCC AD/ 2.5G 25000SL	K10203281337286	40	7/16"	24	31	M10	4.72"	46
CAT40 SFH7/16" 5.12" FCC AD/ 2.5G 25000SL	K10203981281286	40	7/16"	24	31	M10	5.12"	46
CAT40 SFH7/16" 6.30" FCC AD/ 2.5G 25000SL	K10203981646286	40	7/16"	24	31	M10	6.30"	46
CAT40 SFH1/2" 3.15" FCC AD/ 2.5G 25000SL	K10203983671286	40	1/2"	24	31	M10	3.15"	46
CAT40 SFH1/2" 4.72" FCC AD/ 2.5G 25000SL	K10203983337286	40	1/2"	24	31	M10	4.72"	46
CAT40 SFH1/2" 5.12" FCC AD/ 2.5G 25000SL	K10203983675286	40	1/2"	24	31	M10	5.12"	46
CAT40 SFH1/2" 6.30" FCC AD/ 2.5G 25000SL	K10203983676286	40	1/2"	24	31	M10	6.30"	46
CAT40 SFH5/8" 3.15" FCC AD/ 2.5G 25000SL	K10203984684286	40	5/8"	27	34	M12	3.15"	49
CAT40 SFH5/8" 4.72" FCC AD/ 2.5G 25000SL	K10203984663286	40	5/8"	27	34	M12	4.72"	49
CAT40 SFH5/8" 5.12" FCC AD/ 2.5G 25000SL	K10203984619286	40	5/8"	27	34	M12	5.12"	49
CAT40 SFH5/8" 6.30" FCC AD/ 2.5G 25000SL	K10203984277286	40	5/8"	27	34	M12	6.30"	49

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



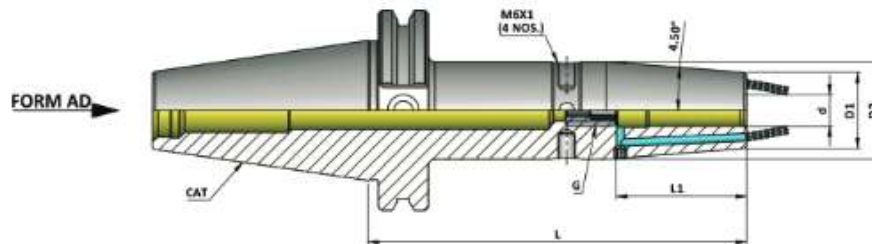
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)					(Balanced to 2.5G 25000 RPM)			
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH3/4" 3.15" FCC AD/ 2.5G 25000SL	K10203985671286	40	3/4"	33	40	M16	3.15"	51
CAT40 SFH3/4" 4.72" FCC AD/ 2.5G 25000SL	K10203985863286	40	3/4"	33	40	M16	4.72"	51
CAT40 SFH3/4" 5.12" FCC AD/ 2.5G 25000SL	K10203985672286	40	3/4"	33	40	M16	5.12"	51
CAT40 SFH3/4" 6.30" FCC AD/ 2.5G 25000SL	K10203985673286	40	3/4"	33	40	M16	6.30"	51
CAT40 SFH1.0" 3.94" FCC AD/ 2.5G 25000SL	K10203986671286	40	1.0"	44	53	M16	3.94"	57
CAT40 SFH1.0" 4.72" FCC AD/ 2.5G 25000SL	K10203986673286	40	1.0"	44	53	M16	4.72"	57
CAT40 SFH1.0" 5.12" FCC AD/ 2.5G 25000SL	K10203986672286	40	1.0"	44	53	M16	5.12"	57
CAT40 SFH1.0" 6.30" FCC AD/ 2.5G 25000SL	K10203986673286	40	1.0"	44	53	M16	6.30"	57
CAT40 SFH1-1/4" 3.94" FCC AD/ 2.5G 25000SL	K10203987672286	40	1-1/4"	44	53	M16	3.94"	61
CAT40 SFH1-1/4" 4.72" FCC AD/ 2.5G 25000SL	K10203987863286	40	1-1/4"	44	53	M16	4.72"	61
CAT40 SFH1-1/4" 5.12 FCC AD/ 2.5G 25000SL	K10203987281286	40	1-1/4"	44	53	M16	5.12"	61
CAT40 SFH1-1/4" 6.30 FCC AD/ 2.5G 25000SL	K10203986281286	40	1-1/4"	44	53	M16	6.30"	61

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



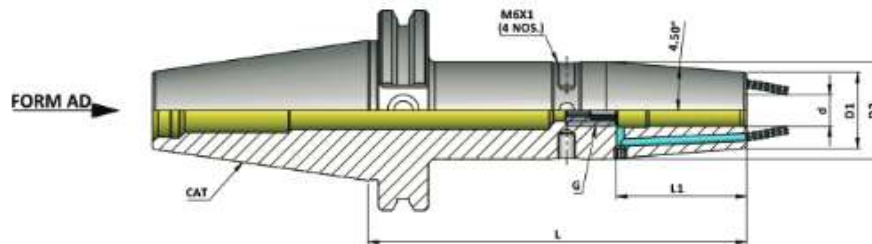
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT50 SFH03 080 FCC AD/ 2.5G 25000SL	K10204274285286	50	3	10	20	—	80	12
CAT50 SFH03 120 FCC AD/ 2.5G 25000 SL	K10204274162228	50	3	10	20	—	120	12
CAT50 SFH03 130 FCC AD/ 2.5G 25000SL	K10204274205286	50	3	10	20	—	130	12
CAT50 SFH03 160 FCC AD/ 2.5G 25000SL	K10204274175286	50	3	10	20	—	160	12
CAT50 SFH04 080 FCC AD/ 2.5G 25000SL	K10204275285286	50	4	15	22	—	80	14
CAT50 SFH04 120 FCC AD/ 2.5G 25000SL	K10204695162286	50	4	15	22	—	120	14
CAT50 SFH04 130 FCC AD/ 2.5G 25000SL	K10204695165286	50	4	15	22	—	130	14
CAT50 SFH04 160 FCC AD/ 2.5G 25000SL	K10204695175286	50	4	15	22	—	160	14
CAT50 SFH05 080 FCC AD/ 2.5G 25000SL	K10204695285286	50	5	15	22	—	80	15
CAT50 SFH05 120 FCC AD/ 2.5G 25000SL	K10204234162286	50	5	15	22	—	120	15
CAT50 SFH05 130 FCC AD/ 2.5G 25000SL	K10204234165286	50	5	15	22	—	130	15
CAT50 SFH05 160 FCC AD/ 2.5G 25000SL	K10204234175286	50	5	15	22	—	160	15
CAT50 SFH06 080 FCC AD/ 2.5G 25000SL	K10204277131286	50	6	21	27	M5	80	36
CAT50 SFH06 120 FCC AD/ 2.5G 25000SL	K10204595162286	50	6	21	27	M5	120	36
CAT50 SFH06 130 FCC AD/ 2.5G 25000SL	K10204277165286	50	6	21	27	M5	130	36
CAT50 SFH06 160 FCC AD/ 2.5G 25000SL	K10204277175286	50	6	21	27	M5	160	36
CAT50 SFH08 080 FCC AD/ 2.5G 25000SL	K10204285131286	50	8	21	27	M6	80	36
CAT50 SFH08 120 FCC AD/ 2.5G 25000SL	K10204596162286	50	8	21	27	M6	120	36
CAT50 SFH08 130 FCC AD/ 2.5G 25000SL	K10204285165286	50	8	21	27	M6	130	36
CAT50 SFH08 160 FCC AD/ 2.5G 25000SL	K10204285175286	50	8	21	27	M6	160	36
CAT50 SFH10 080 FCC AD/ 2.5G 25000SL	K10204279131286	50	10	24	31	M8	80	41
CAT50 SFH10 120 FCC AD/ 2.5G 25000SL	K10204389162286	50	10	24	31	M8	120	41
CAT50 SFH10 130 FCC AD/ 2.5G 25000SL	K10204279165286	50	10	24	31	M8	130	41
CAT50 SFH10 160 FCC AD/ 2.5G 25000SL	K10204279175286	50	10	24	31	M8	160	41
CAT50 SFH12 080 FCC AD/ 2.5G 25000SL	K10204280131286	50	12	24	31	M10	80	46
CAT50 SFH12 130 FCC AD/ 2.5G 25000SL	K10204280165286	50	12	24	31	M10	120	46
CAT50 SFH12 120 FCC AD/ 2.5G 25000SL	K10204101162286	50	12	24	31	M10	130	46
CAT50 SFH12 160 FCC AD/ 2.5G 25000SL	K10204280175286	50	12	24	31	M10	160	46
CAT50 SFH14 080 FCC AD/ 2.5G 25000SL	K10204284131228	50	14	27	34	M10	80	46
CAT50 SFH14 120 FCC AD/ 2.5G 25000SL	K10204102162286	50	14	27	34	M10	120	46
CAT50 SFH14 130 FCC AD/ 2.5G 25000SL	K10204284165286	50	14	27	34	M10	130	46
CAT50 SFH14 160 FCC AD/ 2.5G 25000SL	K10204284175286	50	14	27	34	M10	160	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



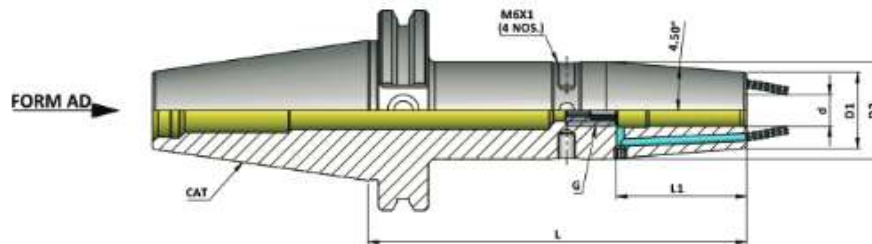
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT50 SFH16 080 FCC AD/ 2.5G 25000SL	K10204281131286	50	16	27	34	M12	80	49	
CAT50 SFH16 120 FCC AD/ 2.5G 25000SL	K10204103162286	50	16	27	34	M12	120	49	
CAT50 SFH16 130 FCC AD/ 2.5G 25000SL	K10204281165286	50	16	27	34	M12	130	49	
CAT50 SFH16 160 FCC AD/ 2.5G 25000SL	K10204281175286	50	16	27	34	M12	160	49	
CAT50 SFH18 080 FCC AD/ 2.5G 25000SL	K10204282131286	50	18	33	40	M12	80	49	
CAT50 SFH18 120 FCC AD/ 2.5G 25000SL	K10204104162286	50	18	33	40	M12	120	49	
CAT50 SFH18 130 FCC AD/ 2.5G 25000SL	K10204282165286	50	18	33	40	M12	130	49	
CAT50 SFH18 160 FCC AD/ 2.5G 25000SL	K10204282175286	50	18	33	40	M12	160	49	
CAT50 SFH20 080 FCC AD/ 2.5G 25000SL	K10204283131286	50	20	33	40	M16	80	51	
CAT50 SFH20 120 FCC AD/ 2.5G 25000SL	K10204489162286	50	20	33	40	M16	120	51	
CAT50 SFH20 130 FCC AD/ 2.5G 25000SL	K10204283165286	50	20	33	40	M16	130	51	
CAT50 SFH20 160 FCC AD/ 2.5G 25000SL	K10204283175286	50	20	33	40	M16	160	51	
CAT50 SFH25 100 FCC AD/ 2.5G 25000SL	K10204287131286	50	25	44	53	M16	100	57	
CAT50 SFH25 120 FCC AD/ 2.5G 25000SL	K10204972162286	50	25	44	53	M16	120	57	
CAT50 SFH25 130 FCC AD/ 2.5G 25000SL	K10204222165286	50	25	44	53	M16	130	57	
CAT50 SFH25 160 FCC AD/ 2.5G 25000SL	K10204287175286	50	25	44	53	M16	160	57	
CAT50 SFH32 100 FCC AD/ 2.5G 25000SL	K10204288148286	50	32	44	53	M16	100	61	
CAT50 SFH32 120 FCC AD/ 2.5G 25000SL	K10204105162286	50	32	44	53	M16	120	61	
CAT50 SFH32 130 FCC AD/ 2.5G 25000SL	K10204288165286	50	32	44	53	M16	130	61	
CAT50 SFH32 160 FCC AD/ 2.5G 25000SL	K10204288175286	50	32	44	53	M16	160	61	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



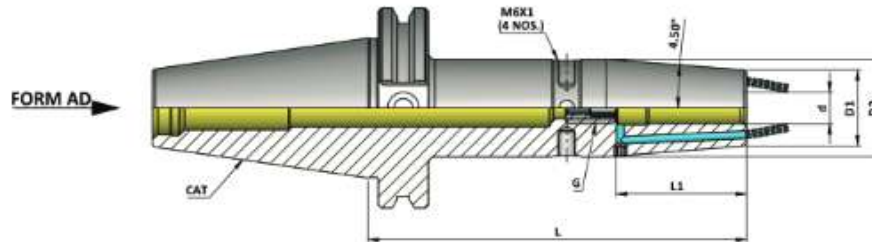
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT50 SFH1/8" 3.15" FCC AD/ 2.5G 25000SL	K10204978863286	50	1/8"	10	20	—	3.15"	12	
CAT50 SFH1/8" 4.72" FCC AD/ 2.5G 25000SL	K10204978672286	50	1/8"	10	20	—	4.72"	12	
CAT50 SFH1/8" 5.12" FCC AD/ 2.5G 25000SL	K10204978276286	50	1/8"	10	20	—	5.12"	12	
CAT50 SFH1/8" 6.30" FCC AD/ 2.5G 25000SL	K10204978540286	50	1/8"	10	20	—	6.30"	12	
CAT50 SFH3/16" 3.15" FCC AD/ 2.5G 25000SL	K10204979675286	50	3/16"	15	22	—	3.15"	14	
CAT50 SFH3/16" 4.72" FCC AD/ 2.5G 25000SL	K10204979249286	50	3/16"	15	22	—	4.72"	14	
CAT50 SFH3/16" 5.12" FCC AD/ 2.5G 25000SL	K10204979540286	50	3/16"	15	22	—	5.12"	14	
CAT50 SFH3/16" 6.30" FCC AD/ 2.5G 25000SL	K10204979673286	50	3/16"	15	22	—	6.30"	14	
CAT50 SFH1/4" 3.15" FCC AD/ 2.5G 25000SL	K10204980675286	50	1/4"	21	27	M5	3.15"	36	
CAT50 SFH1/4" 4.72" FCC AD/ 2.5G 25000SL	K10204980249286	50	1/4"	21	27	M5	4.72"	36	
CAT50 SFH1/4" 5.12" FCC AD/ 2.5G 25000SL	K10204980673286	50	1/4"	21	27	M5	5.12"	36	
CAT50 SFH1/4" 6.30" FCC AD/ 2.5G 25000SL	K10204274131286	50	1/4"	21	27	M5	6.30"	36	
CAT50 SFH5/16" 3.15" FCC AD/ 2.5G 25000SL	K10204981675286	50	5/16"	21	27	M6	3.15"	36	
CAT50 SFH5/16" 4.72" FCC AD/ 2.5G 25000SL	K10204981249286	50	5/16"	21	27	M6	4.72"	36	
CAT50 SFH5/16" 5.12" FCC AD/ 2.5G 25000SL	K10204275131286	50	5/16"	21	27	M6	5.12"	36	
CAT50 SFH5/16" 6.30" FCC AD/ 2.5G 25000SL	K10204275162286	50	5/16"	21	27	M6	6.30"	36	
CAT50 SFH3/8" 3.15" FCC AD/ 2.5G 25000SL	K10204982675286	50	3/8"	24	31	M8	3.15"	41	
CAT50 SFH3/8" 4.72" FCC AD/ 2.5G 25000SL	K10204982249286	50	3/8"	24	31	M8	4.72"	41	
CAT50 SFH3/8" 5.12" FCC AD/ 2.5G 25000SL	K10204982673286	50	3/8"	24	31	M8	5.12"	41	
CAT50 SFH3/8" 6.30" FCC AD/ 2.5G 25000SL	K10204275175286	50	3/8"	24	31	M8	6.30"	41	
CAT50 SFH7/16" 3.15" FCC AD/ 2.5G 25000SL	K10204276131286	50	7/16"	24	31	M10	3.15"	46	
CAT50 SFH7/16" 4.72" FCC AD/ 2.5G 25000SL	K10204282249286	50	7/16"	24	31	M10	4.72"	46	
CAT50 SFH7/16" 5.12" FCC AD/ 2.5G 25000SL	K10204276162286	50	7/16"	24	31	M10	5.12"	46	
CAT50 SFH7/16" 6.30" FCC AD/ 2.5G 25000SL	K10204276165286	50	7/16"	24	31	M10	6.30"	46	
CAT50 SFH1/2" 3.15" FCC AD/ 2.5G 25000SL	K10204983675286	50	1/2"	24	31	M10	3.15"	46	
CAT50 SFH1/2" 4.72" FCC AD/ 2.5G 25000SL	K10204283249286	50	1/2"	24	31	M10	4.72"	46	
CAT50 SFH1/2" 5.12" FCC AD/ 2.5G 25000SL	K10204983673286	50	1/2"	24	31	M10	5.12"	46	
CAT50 SFH1/2" 6.30" FCC AD/ 2.5G 25000SL	K10203274162286	50	1/2"	24	31	M10	6.30"	46	
CAT50 SFH5/8" 3.15" FCC AD/ 2.5G 25000SL	K10204984675286	50	5/8"	27	34	M12	3.15"	49	
CAT50 SFH5/8" 4.72" FCC AD/ 2.5G 25000SL	K10204287249286	50	5/8"	27	34	M12	4.72"	49	
CAT50 SFH5/8" 5.12" FCC AD/ 2.5G 25000SL	K10204984673286	50	5/8"	27	34	M12	5.12"	49	
CAT50 SFH5/8" 6.30" FCC AD/ 2.5G 25000SL	K10203274175286	50	5/8"	27	34	M12	6.30"	49	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder 4.5 Degree (Face Coolant Channel) (SFH FCC 4.5°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



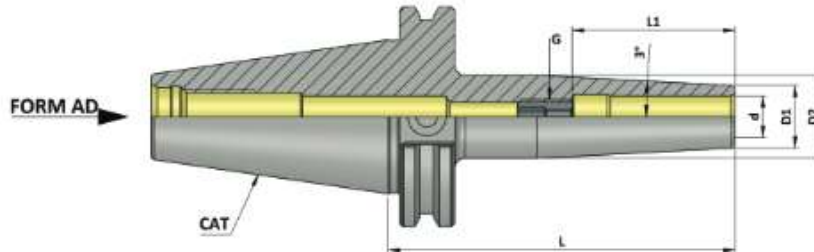
CAT (ANSI B 5.50) (SFH FCC 4.5°) (AD)					(Balanced to 2.5G 25000 RPM)			
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT50 SFH3/4" 3.15" FCC AD/ 2.5G 25000SL	K10204985863286	50	3/4"	33	40	M16	3.15"	51
CAT50 SFH3/4" 4.72" FCC AD/ 2.5G 25000SL	K10204288249286	50	3/4"	33	40	M16	4.72"	51
CAT50 SFH3/4" 5.12" FCC AD/ 2.5G 25000SL	K10204985673286	50	3/4"	33	40	M16	5.12"	51
CAT50 SFH3/4" 6.30" FCC AD/ 2.5G 25000SL	K10203275165286	50	3/4"	33	40	M16	6.30"	51
CAT50 SFH1.0" 3.94" FCC AD/ 2.5G 25000SL	K10204986863286	50	1.0"	44	53	M16	3.94"	57
CAT50 SFH1.0" 4.72" FCC AD/ 2.5G 25000SL	K10204349249286	50	1.0"	44	53	M16	4.72"	57
CAT50 SFH1.0" 5.12" FCC AD/ 2.5G 25000SL	K10204986673286	50	1.0"	44	53	M16	5.12"	57
CAT50 SFH1.0" 6.30" FCC AD/ 2.5G 25000SL	K10203276162286	50	1.0"	44	53	M16	6.30"	57
CAT50 SFH1-1/4" 3.94" FCC AD/ 2.5G 25000SL	K10204987863286	50	1-1/4"	44	53	M16	3.94"	61
CAT50 SFH1-1/4" 4.72" FCC AD/ 2.5G 25000SL	K10204610249286	50	1-1/4"	44	53	M16	4.72"	61
CAT50 SFH1-1/4" 5.12" FCC AD/ 2.5G 25000SL	K10204987672286	50	1-1/4"	44	53	M16	5.12"	61
CAT50 SFH1-1/4" 6.30" FCC AD/ 2.5G 25000SL	K10204987673286	50	1-1/4"	44	53	M16	6.30"	61

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



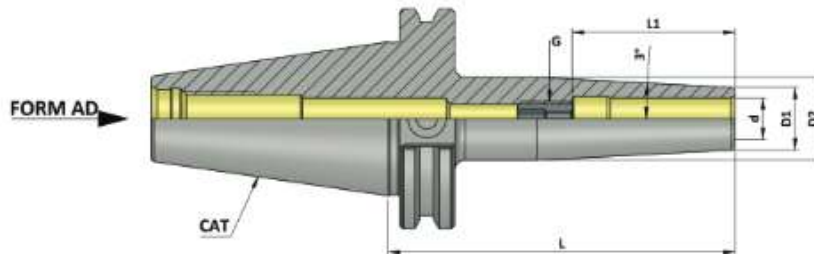
CAT (ANSI B 5.50) (SFH SLIM 3°) (AD)					(Balanced to 2.5G 25000 RPM)			
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT40 SFH03 080 SLIM AD/2.5G 25000 SL	K10203274131542	40	3	9	14	—	80	12
CAT40 SFH03 120 SLIM AD/2.5G 25000 SL	K10203274162542	40	3	9	18	—	120	12
CAT40 SFH03 130 SLIM AD/2.5G 25000 SL	K10203274165297	40	3	9	18	—	130	12
CAT40 SFH03 160 SLIM AD/2.5G 25000 SL	K10203274175542	40	3	9	19	—	160	12
CAT40 SFH04 080 SLIM AD/2.5G 25000 SL	K10203275131542	40	4	10	15	—	80	14
CAT40 SFH04 120 SLIM AD/2.5G 25000 SL	K10203275162542	40	4	10	19	—	120	14
CAT40 SFH04 130 SLIM AD/2.5G 25000 SL	K10203275165297	40	4	10	19	—	130	14
CAT40 SFH04 160 SLIM AD/2.5G 25000 SL	K10203275175542	40	4	10	20	—	160	14
CAT40 SFH05 080 SLIM AD/2.5G 25000 SL	K10203276131542	40	5	11	16	—	80	15
CAT40 SFH05 120 SLIM AD/2.5G 25000 SL	K10203276162542	40	5	11	20	—	120	15
CAT40 SFH05 130 SLIM AD/2.5G 25000 SL	K10203276165297	40	5	11	20	—	130	15
CAT40 SFH05 160 SLIM AD/2.5G 25000 SL	K10203276175542	40	5	11	21	—	160	15
CAT40 SFH06 080 SLIM AD/2.5G 25000 SL	K10203277131542	40	6	12	17	M5	80	36
CAT40 SFH06 120 SLIM AD/2.5G 25000 SL	K10203277162542	40	6	12	21	M5	120	36
CAT40 SFH06 130 SLIM AD/2.5G 25000 SL	K10203277165297	40	6	12	21	M5	130	36
CAT40 SFH06 160 SLIM AD/2.5G 25000 SL	K10203277175542	40	6	12	25	M5	160	36
CAT40 SFH08 080 SLIM AD/2.5G 25000 SL	K10203285131542	40	8	14	19	M6	80	36
CAT40 SFH08 120 SLIM AD/2.5G 25000 SL	K10203285162542	40	8	14	23	M6	120	36
CAT40 SFH08 130 SLIM AD/2.5G 25000 SL	K10203285165297	40	8	14	23	M6	130	36
CAT40 SFH08 160 SLIM AD/2.5G 25000 SL	K10203285175542	40	8	14	27	M6	160	36
CAT40 SFH10 080 SLIM AD/2.5G 25000 SL	K10203279131542	40	10	16	21	M8	80	41
CAT40 SFH10 120 SLIM AD/2.5G 25000 SL	K10203279162542	40	10	16	25	M8	120	41
CAT40 SFH10 130 SLIM AD/2.5G 25000 SL	K10203279165297	40	10	16	25	M8	130	41
CAT40 SFH10 160 SLIM AD/2.5G 25000 SL	K10203279175542	40	10	16	29	M8	160	41
CAT40 SFH12 080 SLIM AD/2.5G 25000 SL	K10203280131542	40	12	18	23	M10	80	46
CAT40 SFH12 120 SLIM AD/2.5G 25000 SL	K10203280162542	40	12	18	27	M10	120	46
CAT40 SFH12 130 SLIM AD/2.5G 25000 SL	K10203280165297	40	12	18	27	M10	130	46
CAT40 SFH12 160 SLIM AD/2.5G 25000 SL	K10203280175542	40	12	18	31	M10	160	46
CAT40 SFH14 080 SLIM AD/2.5G 25000 SL	K10203284131542	40	14	20	26	M10	80	46
CAT40 SFH14 120 SLIM AD/2.5G 25000 SL	K10203284162542	40	14	20	29	M10	120	46
CAT40 SFH14 130 SLIM AD/2.5G 25000 SL	K10203284165297	40	14	20	29	M10	130	46
CAT40 SFH14 160 SLIM AD/2.5G 25000 SL	K10203284175542	40	14	20	32	M10	160	46

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



CAT (ANSI B 5.50) (SFH SLIM 3°) (AD)								(Balanced to 2.5G 25000 RPM)	
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT40 SFH16 080 SLIM AD/2.5G 25000 SL	K10203281131542	40	16	22	28	M12	80	49	
CAT40 SFH16 120 SLIM AD/2.5G 25000 SL	K10203281162542	40	16	22	31	M12	120	49	
CAT40 SFH16 130 SLIM AD/2.5G 25000 SL	K10203281165297	40	16	22	31	M12	130	49	
CAT40 SFH16 160 SLIM AD/2.5G 25000 SL	K10203281175542	40	16	22	34	M12	160	49	
CAT40 SFH18 080 SLIM AD/2.5G 25000 SL	K10203282131542	40	18	24	30	M12	80	49	
CAT40 SFH18 120 SLIM AD/2.5G 25000 SL	K10203282162542	40	18	24	33	M12	120	49	
CAT40 SFH18 130 SLIM AD/2.5G 25000 SL	K10203282165297	40	18	24	33	M12	130	49	
CAT40 SFH18 160 SLIM AD/2.5G 25000 SL	K10203282175542	40	18	24	36	M12	160	49	
CAT40 SFH20 080 SLIM AD/2.5G 25000 SL	K10203283131542	40	20	26	32	M16	80	51	
CAT40 SFH20 120 SLIM AD/2.5G 25000 SL	K10203283162542	40	20	26	35	M16	120	51	
CAT40 SFH20 130 SLIM AD/2.5G 25000 SL	K10203283165297	40	20	26	35	M16	130	51	
CAT40 SFH20 160 SLIM AD/2.5G 25000 SL	K10203283175542	40	20	26	38	M16	160	51	

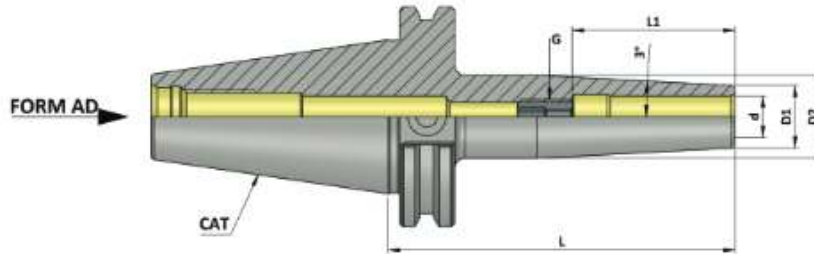
CAT40 SFH1/8" 3.15" SLIM AD/ 2.5G 25000SL	K10203978685286	40	1/8"	9	14	—	3.15"	12	
CAT40 SFH1/8" 4.72" SLIM AD / 2.5G 25000 SL	K10203978249297	40	1/8"	9	18	—	4.72"	12	
CAT40 SFH1/8" 5.12" SLIM AD / 2.5G 25000 SL	K10203978916297	40	1/8"	9	18	—	5.12"	12	
CAT40 SFH1/8" 6.30" SLIM AD / 2.5G 25000 SL	K10203978667297	40	1/8"	9	19	—	6.30"	12	
CAT40 SFH3/16" 3.15" SLIM AD/ 2.5G 25000SL	K10203979685297	40	3/16"	10	15	—	3.15"	14	
CAT40 SFH3/16" 4.72" SLIM AD / 2.5G 25000 SL	K10203979672297	40	3/16"	10	19	—	4.72"	14	
CAT40 SFH3/16" 5.12" SLIM AD / 2.5G 25000 SL	K10203979916297	40	3/16"	10	19	—	5.12"	14	
CAT40 SFH3/16" 6.30" SLIM AD / 2.5G 25000 SL	K10203979667297	40	3/16"	10	20	—	6.30"	14	
CAT40 SFH1/4" 3.15" SLIM AD / 2.5G 25000 SL	K10203980685297	40	1/4"	12	17	M5	3.15"	36	
CAT40 SFH1/4" 4.72" SLIM AD / 2.5G 25000 SL	K10203978685297	40	1/4"	12	21	M5	4.72"	36	
CAT40 SFH1/4" 5.12" SLIM AD / 2.5G 25000 SL	K10203980916297	40	1/4"	12	21	M5	5.12"	36	
CAT40 SFH1/4" 6.30" SLIM AD / 2.5G 25000 SL	K10203979676282	40	1/4"	12	25	M5	6.30"	36	
CAT40 SFH5/16" 3.15" SLIM AD / 2.5G 25000 SL	K10203980676286	40	5/16"	14	19	M6	3.15"	36	
CAT40 SFH5/16" 4.72" SLIM AD / 2.5G 25000 SL	K10203980673286	40	5/16"	14	23	M6	4.72"	36	
CAT40 SFH5/16" 5.12" SLIM AD / 2.5G 25000 SL	K10203981916297	40	5/16"	14	23	M6	5.12"	36	
CAT40 SFH5/16" 6.30" SLIM AD / 2.5G 25000 SL	K10203979676286	40	5/16"	14	27	M6	6.30"	36	
CAT40 SFH3/8" 3.15" SLIM AD / 2.5G 25000 SL	K10203982685297	40	3/8"	16	21	M8	3.15"	41	
CAT40 SFH3/8" 4.72" SLIM AD / 2.5G 25000 SL	K10203982671286	40	3/8"	16	25	M8	4.72"	41	
CAT40 SFH3/8" 5.12" SLIM AD / 2.5G 25000 SL	K10203982916297	40	3/8"	16	25	M8	5.12"	41	
CAT40 SFH3/8" 6.30" SLIM AD / 2.5G 25000 SL	K10204277162286	40	3/8"	16	29	M8	6.30"	41	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



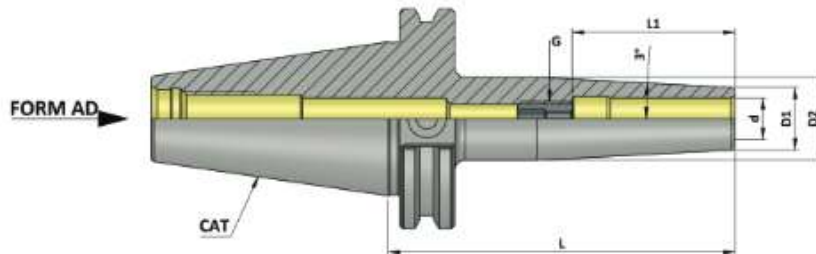
CAT (ANSI B 5.50) (SFH SLIM 3°) (AD)									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT40 SFH7/16" 3.15" SLIM AD / 2.5G 25000 SL	K10204285162286	40	7/16"	18	23	M10	3.15"	46	
CAT40 SFH7/16" 4.72" SLIM AD / 2.5G 25000 SL	K10204279162286	40	7/16"	18	27	M10	4.72"	46	
CAT40 SFH7/16" 5.12" SLIM AD / 2.5G 25000 SL	K10203281916297	40	7/16"	18	27	M10	5.12"	46	
CAT40 SFH7/16" 6.30" SLIM AD / 2.5G 25000 SL	K10204280162286	40	7/16"	18	31	M10	6.30"	46	
CAT40 SFH1/2" 3.15" SLIM AD / 2.5G 25000 SL	K10203983685297	40	1/2"	18	23	M10	3.15"	46	
CAT40 SFH1/2" 4.72" SLIM AD / 2.5G 25000 SL	K10204284162286	40	1/2"	18	27	M10	4.72"	46	
CAT40 SFH1/2" 5.12" SLIM AD / 2.5G 25000 SL	K10203983916297	40	1/2"	18	27	M10	5.12"	46	
CAT40 SFH1/2" 6.30" SLIM AD / 2.5G 25000 SL	K10204281162286	40	1/2"	18	31	M10	6.30"	46	
CAT40 SFH5/8" 3.15" SLIM AD / 2.5G 25000 SL	K10204287162286	40	5/8"	22	28	M12	3.15"	49	
CAT40 SFH5/8" 4.72" SLIM AD / 2.5G 25000 SL	K10204283162286	40	5/8"	22	31	M12	4.72"	49	
CAT40 SFH5/8" 5.12" SLIM AD / 2.5G 25000 SL	K10203984916297	40	5/8"	22	31	M12	5.12"	49	
CAT40 SFH5/8" 6.30" SLIM AD / 2.5G 25000 SL	K10204282162286	40	5/8"	22	34	M12	6.30"	49	
CAT40 SFH3/4" 3.15" SLIM AD / 2.5G 25000 SL	K10204288162286	40	3/4"	26	32	M16	3.15"	51	
CAT40 SFH3/4" 4.72" SLIM AD / 2.5G 25000 SL	K10203985624297	40	3/4"	26	35	M16	4.72"	51	
CAT40 SFH3/4" 5.12" SLIM AD / 2.5G 25000 SL	K10203985916297	40	3/4"	26	35	M16	5.12"	51	
CAT40 SFH3/4" 6.30" SLIM AD / 2.5G 25000 SL	K10203985672297	40	3/4"	26	38	M16	6.30"	51	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



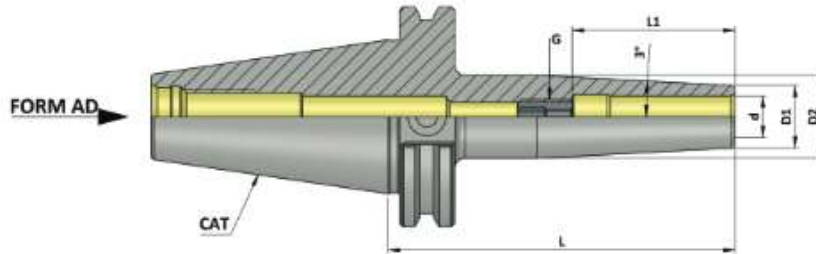
CAT (ANSI B 5.50) (SFH SLIM 3°) (AD)									(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT50 SFH03 080 SLIM AD/2.5G 25000 SL	K10204274131542	50	3	9	14	—	80	12	
CAT50 SFH03 120 SLIM AD/2.5G 25000 SL	K10204274162542	50	3	9	18	—	120	12	
CAT50 SFH03 130 SLIM AD/2.5G 25000 SL	K10204274165297	50	3	9	18	—	130	12	
CAT50 SFH04 080 SLIM AD/2.5G 25000 SL	K10204275131542	50	4	10	15	—	80	14	
CAT50 SFH04 120 SLIM AD/2.5G 25000 SL	K10204275162542	50	4	10	19	—	120	14	
CAT50 SFH04 130 SLIM AD/2.5G 25000 SL	K10204275165297	50	4	10	19	—	130	14	
CAT50 SFH05 080 SLIM AD/2.5G 25000 SL	K10204276131542	50	5	11	16	—	80	15	
CAT50 SFH05 120 SLIM AD/2.5G 25000 SL	K10204276162542	50	5	11	20	—	120	15	
CAT50 SFH05 130 SLIM AD/2.5G 25000 SL	K10204276165297	50	5	11	20	—	130	15	
CAT50 SFH06 080 SLIM AD/2.5G 25000 SL	K10204277131542	50	6	12	17	M5	80	36	
CAT50 SFH06 120 SLIM AD/2.5G 25000 SL	K10204277162542	50	6	12	21	M5	120	36	
CAT50 SFH06 130 SLIM AD/2.5G 25000 SL	K10204277165297	50	6	12	21	M5	130	36	
CAT50 SFH06 160 SLIM AD/2.5G 25000 SL	K10204277175542	50	6	12	25	M5	160	36	
CAT50 SFH08 080 SLIM AD/2.5G 25000 SL	K10204285131542	50	8	14	19	M6	80	36	
CAT50 SFH08 120 SLIM AD/2.5G 25000 SL	K10204285162542	50	8	14	23	M6	120	36	
CAT50 SFH08 130 SLIM AD/2.5G 25000 SL	K10204285165297	50	8	14	23	M6	130	36	
CAT50 SFH08 160 SLIM AD/2.5G 25000 SL	K10204285175542	50	8	14	27	M6	160	36	
CAT50 SFH10 080 SLIM AD/2.5G 25000 SL	K10204279131542	50	10	16	21	M8	80	41	
CAT50 SFH10 120 SLIM AD/2.5G 25000 SL	K10204279162542	50	10	16	25	M8	120	41	
CAT50 SFH10 130 SLIM AD/2.5G 25000 SL	K10204279165297	50	10	16	25	M8	130	41	
CAT50 SFH10 160 SLIM AD/2.5G 25000 SL	K10204279175542	50	10	16	29	M8	160	41	
CAT50 SFH12 080 SLIM AD/2.5G 25000 SL	K10204280131542	50	12	18	23	M10	80	46	
CAT50 SFH12 120 SLIM AD/2.5G 25000 SL	K10204280162542	50	12	18	27	M10	120	46	
CAT50 SFH12 130 SLIM AD/2.5G 25000 SL	K10204280165297	50	12	18	27	M10	130	46	
CAT50 SFH12 160 SLIM AD/2.5G 25000 SL	K10204280175542	50	12	18	31	M10	160	46	
CAT50 SFH14 080 SLIM AD/2.5G 25000 SL	K10204284131542	50	14	20	26	M10	80	46	
CAT50 SFH14 120 SLIM AD/2.5G 25000 SL	K10204284162542	50	14	20	29	M10	120	46	
CAT50 SFH14 130 SLIM AD/2.5G 25000 SL	K10204284165297	50	14	20	29	M10	130	46	
CAT50 SFH14 160 SLIM AD/2.5G 25000 SL	K10204284175542	50	14	20	32	M10	160	46	

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



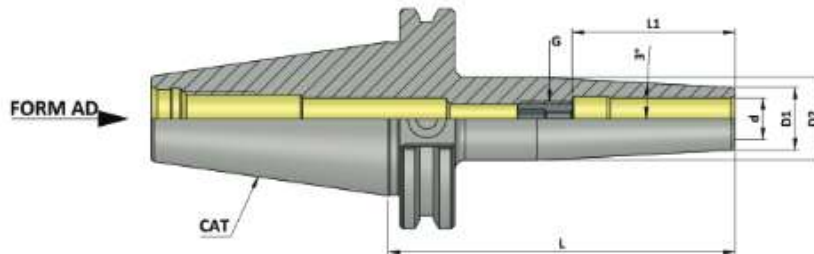
CAT (ANSI B 5.50) (SFH SLIM 3°) (AD)								(Balanced to 2.5G 25000 RPM)
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1
CAT50 SFH16 080 SLIM AD/2.5G 25000 SL	K10204281131542	50	16	22	28	M12	80	49
CAT50 SFH16 120 SLIM AD/2.5G 25000 SL	K10204281162542	50	16	22	31	M12	120	49
CAT50 SFH16 130 SLIM AD/2.5G 25000 SL	K10204281165297	50	16	22	31	M12	130	49
CAT50 SFH16 160 SLIM AD/2.5G 25000 SL	K10204281175542	50	16	22	34	M12	160	49
CAT50 SFH18 080 SLIM AD/2.5G 25000 SL	K10204282131542	50	18	24	30	M12	80	49
CAT50 SFH18 120 SLIM AD/2.5G 25000 SL	K10204282162542	50	18	24	33	M12	120	49
CAT50 SFH18 130 SLIM AD/2.5G 25000 SL	K10204282165297	50	18	24	33	M12	130	49
CAT50 SFH18 160 SLIM AD/2.5G 25000 SL	K10204282175542	50	18	24	36	M12	160	49
CAT50 SFH20 080 SLIM AD/2.5G 25000 SL	K10204283131542	50	20	26	32	M16	80	51
CAT50 SFH20 120 SLIM AD/2.5G 25000 SL	K10204283162542	50	20	26	35	M16	120	51
CAT50 SFH20 130 SLIM AD/2.5G 25000 SL	K10204283165297	50	20	26	35	M16	130	51
CAT50 SFH20 160 SLIM AD/2.5G 25000 SL	K10204283175542	50	20	26	38	M16	160	51

Note: All Dimensions are in mm

CAT (ANSI B 5.50) (AD) Shrink Fit Holder Slim 3 Degree (SFH Slim 3°)



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



CAT (ANSI B 5.50) (SFH SLIM 3°) (AD)				(Balanced to 2.5G 25000 RPM)					
ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	
CAT50 SFH1/8" 3.15" SLIM AD / 2.5G 25000 SL	K10204978336297	50	1/8"	9	14	—	3.15"	12	
CAT50 SFH1/8" 4.72" SLIM AD / 2.5G 25000 SL	K10204978672297	50	1/8"	9	18	—	4.72"	12	
CAT50 SFH1/8" 5.12" SLIM AD / 2.5G 25000 SL	K10204978916297	50	1/8"	9	18	—	5.12"	12	
CAT50 SFH3/16" 3.15" SLIM AD / 2.5G 25000 SL	K10204979672297	50	3/16"	10	15	—	3.15"	14	
CAT50 SFH3/16" 4.72" SLIM AD / 2.5G 25000 SL	K10204979863297	50	3/16"	10	19	—	4.72"	14	
CAT50 SFH3/16" 5.12" SLIM AD / 2.5G 25000 SL	K10204979916297	50	3/16"	10	19	—	5.12"	14	
CAT50 SFH1/4" 3.15" SLIM AD / 2.5G 25000 SL	K10204980671297	50	1/4"	12	17	M5	3.15"	36	
CAT50 SFH1/4" 4.72" SLIM AD / 2.5G 25000 SL	K10204980672297	50	1/4"	12	21	M5	4.72"	36	
CAT50 SFH1/4" 5.12" SLIM AD / 2.5G 25000 SL	K10204980335297	50	1/4"	12	21	M5	5.12"	36	
CAT50 SFH1/4" 6.30" SLIM AD / 2.5G 25000 SL	K10204980685297	50	1/4"	12	25	M5	6.30"	36	
CAT50 SFH5/16" 3.15" SLIM AD / 2.5G 25000 SL	K10204980455297	50	5/16"	14	19	M6	3.15"	36	
CAT50 SFH5/16" 4.72" SLIM AD / 2.5G 25000 SL	K10204981672297	50	5/16"	14	23	M6	4.72"	36	
CAT50 SFH5/16" 5.12" SLIM AD / 2.5G 25000 SL	K10204981673297	50	5/16"	14	23	M6	5.12"	36	
CAT50 SFH5/16" 6.30" SLIM AD / 2.5G 25000 SL	K10204981916297	50	5/16"	14	27	M6	6.30"	36	
CAT50 SFH3/8" 3.15" SLIM AD / 2.5G 25000 SL	K10204982673297	50	3/8"	16	21	M8	3.15"	41	
CAT50 SFH3/8" 4.72" SLIM AD / 2.5G 25000 SL	K10204982672297	50	3/8"	16	25	M8	4.72"	41	
CAT50 SFH3/8" 5.12" SLIM AD / 2.5G 25000 SL	K10204982647297	50	3/8"	16	25	M8	5.12"	41	
CAT50 SFH3/8" 6.30" SLIM AD / 2.5G 25000 SL	K10204982676297	50	3/8"	16	29	M8	6.30"	41	
CAT50 SFH7/16" 3.15" SLIM AD / 2.5G 25000 SL	K10204979676297	50	7/16"	18	23	M10	3.15"	46	
CAT50 SFH7/16" 4.72" SLIM AD / 2.5G 25000 SL	K10204213672297	50	7/16"	18	27	M10	4.72"	46	
CAT50 SFH7/16" 5.12" SLIM AD / 2.5G 25000 SL	K10204979337297	50	7/16"	18	27	M10	5.12"	46	
CAT50 SFH7/16" 6.30" SLIM AD / 2.5G 25000 SL	K10204979673297	50	7/16"	18	31	M10	6.30"	46	
CAT50 SFH1/2" 3.15" SLIM AD / 2.5G 25000 SL	K10204983675286	50	1/2"	18	23	M10	3.15"	46	
CAT50 SFH1/2" 4.72" SLIM AD / 2.5G 25000 SL	K10204983672297	50	1/2"	18	27	M10	4.72"	46	
CAT50 SFH1/2" 5.12" SLIM AD / 2.5G 25000 SL	K10204983673286	50	1/2"	18	27	M10	5.12"	46	
CAT50 SFH1/2" 6.30" SLIM AD / 2.5G 25000 SL	K10204275165286	50	1/2"	18	31	M10	6.30"	46	
CAT50 SFH5/8" 3.15" SLIM AD / 2.5G 25000 SL	K10203275162286	50	5/8"	22	28	M12	3.15"	49	
CAT50 SFH5/8" 4.72" SLIM AD / 2.5G 25000 SL	K10204984672297	50	5/8"	22	31	M12	4.72"	49	
CAT50 SFH5/8" 5.12" SLIM AD / 2.5G 25000 SL	K10203275175286	50	5/8"	22	31	M12	5.12"	49	
CAT50 SFH5/8" 6.30" SLIM AD / 2.5G 25000 SL	K10203276165286	50	5/8"	22	34	M12	6.30"	49	
CAT50 SFH3/4" 3.15" SLIM AD / 2.5G 25000 SL	K10204985685297	50	3/4"	26	32	M16	3.15"	51	
CAT50 SFH3/4" 4.72" SLIM AD / 2.5G 25000 SL	K10204985672297	50	3/4"	26	35	M16	4.72"	51	
CAT50 SFH3/4" 5.12" SLIM AD / 2.5G 25000 SL	K10204985676297	50	3/4"	26	35	M16	5.12"	51	
CAT50 SFH3/4" 6.30" SLIM AD / 2.5G 25000 SL	K10204985673297	50	3/4"	26	38	M16	6.30"	51	

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/18/20/25/32mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"
Having GPL 200/250/300/350/400 MM
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

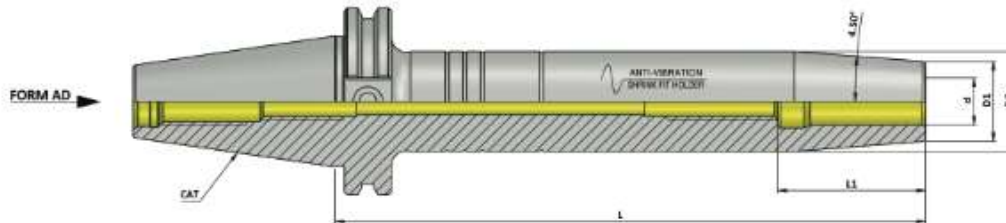
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



CAT (ANSI B 5.50) Shrink Fit Holder Anti - Vibration 4.5 Degree (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (SFH - AD/AV)

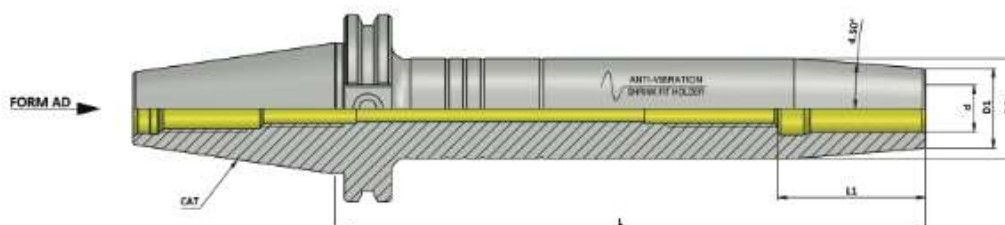
ITEM NAME	ITEM CODE	CAT	d	D1	D2	L	L1
CAT40 SFH16 200 AD/AV	K10203281239539	40	16	27	34	200	49
CAT40 SFH16 250 AD/AV	K10203281182539	40	16	27	34	250	49
CAT40 SFH16 300 AD/AV	K10203281183539	40	16	27	34	300	49
CAT40 SFH18 200 AD/AV	K10203282239539	40	18	33	40	200	49
CAT40 SFH18 250 AD/AV	K10203282182539	40	18	33	40	250	49
CAT40 SFH18 300 AD/AV	K10203282183539	40	18	33	40	300	49
CAT40 SFH20 200 AD/AV	K10203283239539	40	20	33	40	200	51
CAT40 SFH20 250 AD/AV	K10203283182539	40	20	33	40	250	51
CAT40 SFH20 300 AD/AV	K10203283183539	40	20	33	40	300	51
CAT40 SFH25 200 AD/AV	K10203287239539	40	25	44	53	200	57
CAT40 SFH25 250 AD/AV	K10203287182539	40	25	44	53	250	57
CAT40 SFH25 300 AD/AV	K10203287183539	40	25	44	53	300	57
CAT40 SFH32 200 AD/AV	K10203288239539	40	32	44	53	200	61
CAT40 SFH32 250 AD/AV	K10203288182539	40	32	44	53	250	61
CAT40 SFH32 300 AD/AV	K10203288183539	40	32	44	53	300	61
CAT40 SFH5/8" 200 AD/AV	K10203984239539	40	5/8"	27	34	200	49
CAT40 SFH5/8" 250 AD/AV	K10203984182539	40	5/8"	27	34	250	49
CAT40 SFH5/8" 300 AD/AV	K10203984183539	40	5/8"	27	34	300	49
CAT40 SFH3/4" 200 AD/AV	K10203985239539	40	3/4"	33	40	200	51
CAT40 SFH3/4" 250 AD/AV	K10203985182539	40	3/4"	33	40	250	51
CAT40 SFH3/4" 300 AD/AV	K10203985183539	40	3/4"	33	40	300	51
CAT40 SFH1.0" 200 AD/AV	K10203986239539	40	1.0"	44	53	200	57
CAT40 SFH1.0" 250 AD/AV	K10203986182539	40	1.0"	44	53	250	57
CAT40 SFH1.0" 300 AD/AV	K10203986183539	40	1.0"	44	53	300	57
CAT40 SFH1-1/4" 200 AD/AV	K10203987239539	40	1-1/4"	44	53	200	61
CAT40 SFH1-1/4" 250 AD/AV	K10203987182539	40	1-1/4"	44	53	250	61
CAT40 SFH1-1/4" 300 AD/AV	K10203987183539	40	1-1/4"	44	53	300	61

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Shrink Fit Holder Anti - Vibration 4.5 Degree (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (SFH- AD/AV)

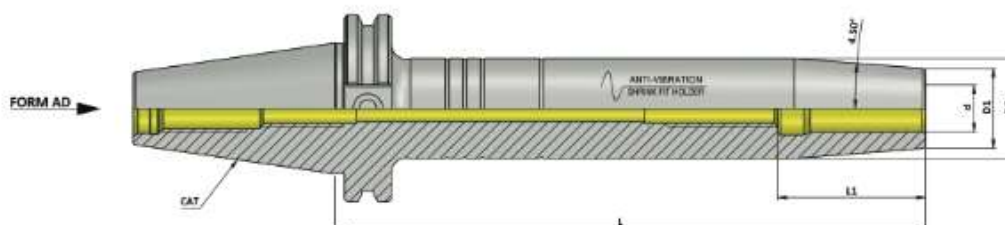
ITEM NAME	ITEM CODE	CAT	d	D1	D2	L	L1
CAT50 SFH16 200 AD/AV	K10204281239539	50	16	27	34	200	49
CAT50 SFH16 250 AD/AV	K10204281182539	50	16	27	34	250	49
CAT50 SFH16 300 AD/AV	K10204281183539	50	16	27	34	300	49
CAT50 SFH16 350 AD/AV	K10204281184539	50	16	27	34	350	49
CAT50 SFH16 400 AD/AV	K10204281540539	50	16	27	34	400	49
CAT50 SFH18 200 AD/AV	K10204282239539	50	18	33	40	200	49
CAT50 SFH18 250 AD/AV	K10204282182539	50	18	33	40	250	49
CAT50 SFH18 300 AD/AV	K10204282183539	50	18	33	40	300	49
CAT50 SFH18 350 AD/AV	K10204282184539	50	18	33	40	350	49
CAT50 SFH18 400 AD/AV	K10204282540539	50	18	33	40	400	49
CAT50 SFH20 200 AD/AV	K10204283239539	50	20	33	40	200	51
CAT50 SFH20 250 AD/AV	K10204283182539	50	20	33	40	250	51
CAT50 SFH20 300 AD/AV	K10204283183539	50	20	33	40	300	51
CAT50 SFH20 350 AD/AV	K10204283184539	50	20	33	40	350	51
CAT50 SFH20 400 AD/AV	K10204283540539	50	20	33	40	400	51
CAT50 SFH25 200 AD/AV	K10204287239539	50	25	44	53	200	57
CAT50 SFH25 250 AD/AV	K10204287182539	50	25	44	53	250	57
CAT50 SFH25 300 AD/AV	K10204287183539	50	25	44	53	300	57
CAT50 SFH25 350 AD/AV	K10204287184539	50	25	44	53	350	57
CAT50 SFH25 400 AD/AV	K10204287540539	50	25	44	53	400	57
CAT50 SFH32 200 AD/AV	K10204288239539	50	32	44	53	200	61
CAT50 SFH32 250 AD/AV	K10204288182539	50	32	44	53	250	61
CAT50 SFH32 300 AD/AV	K10204288183539	50	32	44	53	300	61
CAT50 SFH32 350 AD/AV	K10204288184539	50	32	44	53	350	61
CAT50 SFH32 400 AD/AV	K10204288540539	50	32	44	53	400	61

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Shrink Fit Holder Anti - Vibration 4.5 Degree (SFH - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (SFH- AD/AV)

ITEM NAME	ITEM CODE	CAT	d	D1	D2	L	L1
CAT50 SFH5/8" 200 AD/AV	K10204984239539	50	5/8"	27	34	200	49
CAT50 SFH5/8" 250 AD/AV	K10204984182539	50	5/8"	27	34	250	49
CAT50 SFH5/8" 300 AD/AV	K10204984183539	50	5/8"	27	34	300	49
CAT50 SFH5/8" 350 AD/AV	K10204984184539	50	5/8"	27	34	350	49
CAT50 SFH5/8" 400 AD/AV	K10204984540539	50	5/8"	27	34	400	49
CAT50 SFH3/4" 200 AD/AV	K10204985239539	50	3/4"	33	40	200	51
CAT50 SFH3/4" 250 AD/AV	K10204985182539	50	3/4"	33	40	250	51
CAT50 SFH3/4" 300 AD/AV	K10204985183539	50	3/4"	33	40	300	51
CAT50 SFH3/4" 350 AD/AV	K10204985184539	50	3/4"	33	40	350	51
CAT50 SFH3/4" 400 AD/AV	K10204985540539	50	3/4"	33	40	400	51
CAT50 SFH1.0" 200 AD/AV	K10204986239539	50	1.0"	44	53	200	57
CAT50 SFH1.0" 250 AD/AV	K10204986182539	50	1.0"	44	53	250	57
CAT50 SFH1.0" 300 AD/AV	K10204986183539	50	1.0"	44	53	300	57
CAT50 SFH1.0" 350 AD/AV	K10204986184539	50	1.0"	44	53	350	57
CAT50 SFH1.0" 400 AD/AV	K10204986540539	50	1.0"	44	53	400	57
CAT50 SFH1-1/4" 200 AD/AV	K10204987239539	50	1-1/4"	44	53	200	61
CAT50 SFH1-1/4" 250 AD/AV	K10204987182539	50	1-1/4"	44	53	250	61
CAT50 SFH1-1/4" 300 AD/AV	K10204987183539	50	1-1/4"	44	53	300	61
CAT50 SFH1-1/4" 350 AD/AV	K10204987184539	50	1-1/4"	44	53	350	61
CAT50 SFH1-1/4" 400 AD/AV	K10204987540539	50	1-1/4"	44	53	400	61

Note: All Dimensions are in mm

Face Mill Holder Anti - Vibration (FMH-K - AD/AV)



Features:

- Maximum Run-out of external diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm

Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm

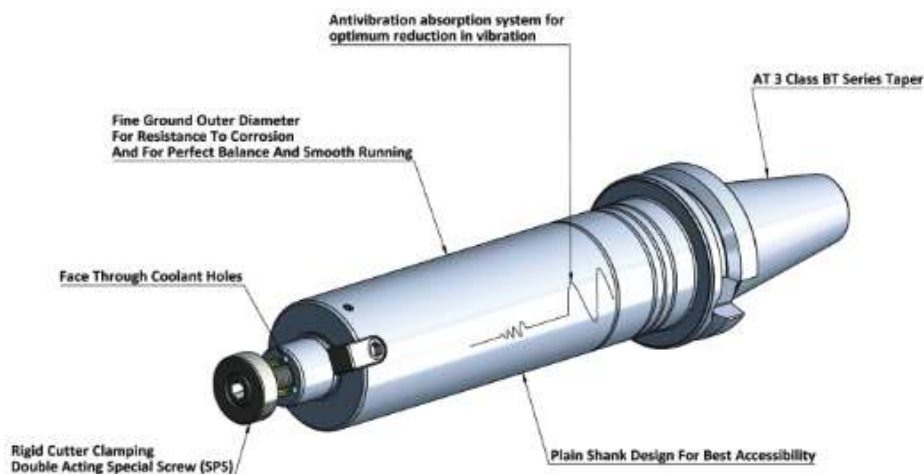
- Through Coolant Facility Double Acting Nut for cutter clamping

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life & run-away of metal swarf Perfect Alignment with cutter face & rigid clamping.

Available In Mountings :

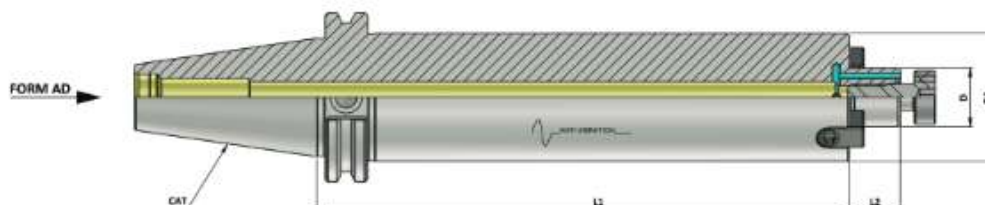
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



CAT (ANSI B 5.50) Face Mill Holder Anti - Vibration (FMH-K AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (FMH-K AD/AV)						
ITEM NAME	ITEM CODE	CAT	D	D1	L1	L2
CAT40 FMH-K16 200 AD/AV	K10203126239539	40	16	38	200	17
CAT40 FMH-K16 250 AD/AV	K10203131182539	40	16	38	250	17
CAT40 FMH-K16 300 AD/AV	K10203131183539	40	16	38	300	17
CAT40 FMH-K22 200 AD/AV	K10203132239539	40	22	48	200	19
CAT40 FMH-K22 250 AD/AV	K10203132182539	40	22	48	250	19
CAT40 FMH-K22 300 AD/AV	K10203132183539	40	22	48	300	19
CAT40 FMH-K27 200 AD/AV	K10203133239539	40	27	58	200	21
CAT40 FMH-K27 250 AD/AV	K10203133182539	40	27	58	250	21
CAT40 FMH-K27 300 AD/AV	K10203133183539	40	27	58	300	21
CAT40 FMH-K32 200 AD/AV	K10203134239539	40	32	78	200	24
CAT40 FMH-K32 250 AD/AV	K10203134182539	40	32	78	250	24
CAT40 FMH-K32 300 AD/AV	K10203134183539	40	32	78	300	24
CAT40 FMH-K40 200 AD/AV	K10203576239539	40	40	88	200	27
CAT40 FMH-K40 250 AD/AV	K10203576182539	40	40	88	250	27
CAT40 FMH-K40 300 AD/AV	K10203576183539	40	40	88	300	27

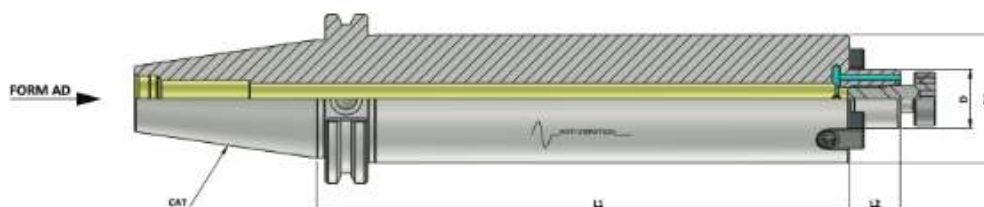
CAT40 FMH-K3/4" 200 AD/AV	K10203958239539	40	3/4"	2.0"	200	0.687"
CAT40 FMH-K3/4" 250 AD/AV	K10203958182539	40	3/4"	2.0"	250	0.687"
CAT40 FMH-K3/4" 300 AD/AV	K10203958183539	40	3/4"	2.0"	300	0.687"
CAT40 FMH-K1.0" 200 AD/AV	K10203959239539	40	1.0"	2.375"	200	0.687"
CAT40 FMH-K1.0" 250 AD/AV	K10203959182539	40	1.0"	2.375"	250	0.687"
CAT40 FMH-K1.0" 300 AD/AV	K10203959183539	40	1.0"	2.375"	300	0.687"
CAT40 FMH-K1-1/4" 200 AD/AV	K10203960239539	40	1-1/4"	2.875"	200	0.687"
CAT40 FMH-K1-1/4" 250 AD/AV	K10203960182539	40	1-1/4"	2.875"	250	0.687"
CAT40 FMH-K1-1/4" 300 AD/AV	K10203960183539	40	1-1/4"	2.875"	300	0.687"
CAT40 FMH-K1-1/2" 200 AD/AV	K10203639239539	40	1-1/2"	3.750"	200	0.938"
CAT40 FMH-K1-1/2" 250 AD/AV	K10203639182539	40	1-1/2"	3.750"	250	0.938"
CAT40 FMH-K1-1/2" 300 AD/AV	K10203639183539	40	1-1/2"	3.750"	300	0.938"

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Face Mill Holder Anti - Vibration (FMH-K AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



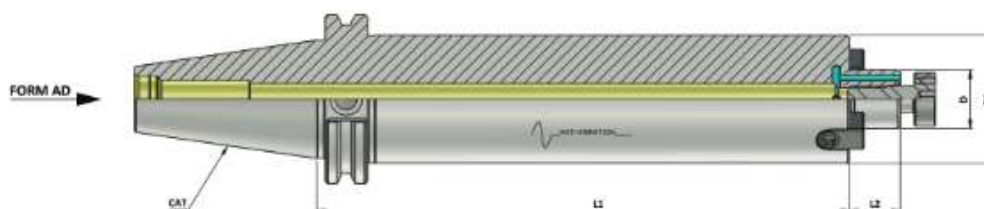
CAT (ANSI B 5.50) (FMH-K AD/AV)						
ITEM NAME	ITEM CODE	CAT	D	D1	L1	L2
CAT50 FMH-K16 200 AD/AV	K10204131239539	50	16	38	200	17
CAT50 FMH-K16 250 AD/AV	K10204131182539	50	16	38	250	17
CAT50 FMH-K16 300 AD/AV	K10204131183539	50	16	38	300	17
CAT50 FMH-K16 350 AD/AV	K10204131184539	50	16	38	350	17
CAT50 FMH-K16 400 AD/AV	K10204131540539	50	16	38	400	17
CAT50 FMH-K22 200 AD/AV	K10204132239539	50	22	48	200	19
CAT50 FMH-K22 250 AD/AV	K10204132182539	50	22	48	250	19
CAT50 FMH-K22 300 AD/AV	K10204132183539	50	22	48	300	19
CAT50 FMH-K22 350 AD/AV	K10204132184539	50	22	48	350	19
CAT50 FMH-K22 400 AD/AV	K10204132540539	50	22	48	400	19
CAT50 FMH-K27 200 AD/AV	K10204133239539	50	27	58	200	21
CAT50 FMH-K27 250 AD/AV	K10204133182539	50	27	58	250	21
CAT50 FMH-K27 300 AD/AV	K10204133183539	50	27	58	300	21
CAT50 FMH-K27 350 AD/AV	K10204133184539	50	27	58	350	21
CAT50 FMH-K27 400 AD/AV	K10204133540539	50	27	58	400	21
CAT50 FMH-K32 200 AD/AV	K10204134239539	50	32	78	200	24
CAT50 FMH-K32 250 AD/AV	K10204134182539	50	32	78	250	24
CAT50 FMH-K32 300 AD/AV	K10204134183539	50	32	78	300	24
CAT50 FMH-K32 350 AD/AV	K10204134184539	50	32	78	350	24
CAT50 FMH-K32 400 AD/AV	K10204134540539	50	32	78	400	24
CAT50 FMH-K40 200 AD/AV	K10204576239539	50	40	88	200	27
CAT50 FMH-K40 250 AD/AV	K10204576182539	50	40	88	250	27
CAT50 FMH-K40 300 AD/AV	K10204576183539	50	40	88	300	27
CAT50 FMH-K40 350 AD/AV	K10204576184539	50	40	88	350	27
CAT50 FMH-K40 400 AD/AV	K10204576540539	50	40	88	400	27

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Face Mill Holder Anti - Vibration (FMH-K AD/AV) (DIN 6357)



Maximum Run out of the External Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (FMH-K AD/AV)						
ITEM NAME	ITEM CODE	CAT	D	D1	L1	L2
CAT50 FMH-K3/4" 200 AD/AV	K10204958239539	50	3/4"	2.0"	200	0.687"
CAT50 FMH-K3/4" 250 AD/AV	K10204958182539	50	3/4"	2.0"	250	0.687"
CAT50 FMH-K3/4" 300 AD/AV	K10204958183539	50	3/4"	2.0"	300	0.687"
CAT50 FMH-K3/4" 350 AD/AV	K10204958184539	50	3/4"	2.0"	350	0.687"
CAT50 FMH-K3/4" 400 AD/AV	K10204958540539	50	3/4"	2.0"	400	0.687"
CAT50 FMH-K1.0" 200 AD/AV	K10204959239539	50	1.0"	2.375"	200	0.687"
CAT50 FMH-K1.0" 250 AD/AV	K10204959182539	50	1.0"	2.375"	250	0.687"
CAT50 FMH-K1.0" 300 AD/AV	K10204959183539	50	1.0"	2.375"	300	0.687"
CAT50 FMH-K1.0" 350 AD/AV	K10204959184539	50	1.0"	2.375"	350	0.687"
CAT50 FMH-K1.0" 400 AD/AV	K10204959540539	50	1.0"	2.375"	400	0.687"
CAT50 FMH-K1-1/4" 200 AD/AV	K10204960239539	50	1-1/4"	2.875"	200	0.687"
CAT50 FMH-K1-1/4" 250 AD/AV	K10204960182539	50	1-1/4"	2.875"	250	0.687"
CAT50 FMH-K1-1/4" 300 AD/AV	K10204960183539	50	1-1/4"	2.875"	300	0.687"
CAT50 FMH-K1-1/4" 350 AD/AV	K10204960184539	50	1-1/4"	2.875"	350	0.687"
CAT50 FMH-K1-1/4" 400 AD/AV	K10204960540539	50	1-1/4"	2.875"	400	0.687"
CAT50 FMH-K1-1/2" 200 AD/AV	K10204639239539	50	1-1/2"	3.750"	200	0.938"
CAT50 FMH-K1-1/2" 250 AD/AV	K10204639182539	50	1-1/2"	3.750"	250	0.938"
CAT50 FMH-K1-1/2" 300 AD/AV	K10204639183539	50	1-1/2"	3.750"	300	0.938"
CAT50 FMH-K1-1/2" 350 AD/AV	K10204639184539	50	1-1/2"	3.750"	350	0.938"
CAT50 FMH-K1-1/2" 400 AD/AV	K10204639540539	50	1-1/2"	3.750"	400	0.938"

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal diameter w.r.t external taper is within 0.010mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Tool Holding Shank Dia 16/20/25/32/40mm Having GPL 200/250/300/350/400mm
Availability in Inches Series Tool Holding Shank Dia 5/8"/3/4"/1.0"/1-1/4"/1-1/2"
Having GPL - 200/250/300/350/400mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

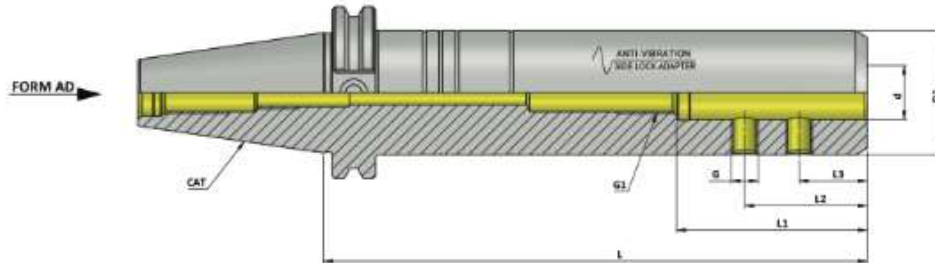
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



CAT (ANSI B 5.50) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (SLA - AD/AV)

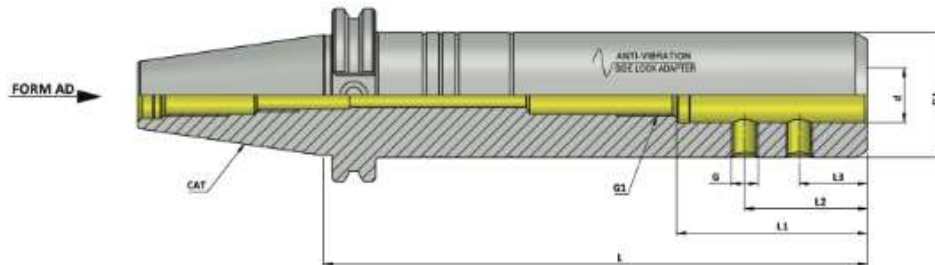
ITEM NAME	ITEM CODE	CAT	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
CAT40 SLA16 200 AD/AV	K10203105239539	40	16	48	M14	M12	200	57	-	23.50	1
CAT40 SLA16 250 AD/AV	K10203105182539	40	16	48	M14	M12	250	57	-	23.50	1
CAT40 SLA16 300 AD/AV	K10203105183539	40	16	48	M14	M12	300	57	-	23.50	1
CAT40 SLA20 200 AD/AV	K10203106239539	40	20	50	M10	M16	200	70	45	25	2
CAT40 SLA20 250 AD/AV	K10203106182539	40	20	50	M10	M16	250	70	45	25	2
CAT40 SLA20 300 AD/AV	K10203106183539	40	20	50	M10	M16	300	70	45	25	2
CAT40 SLA25 200 AD/AV	K10203107239539	40	25	50	M10	M16	200	70	45	25	2
CAT40 SLA25 250 AD/AV	K10203107182539	40	25	50	M10	M16	250	70	45	25	2
CAT40 SLA25 300 AD/AV	K10203107183539	40	25	50	M10	M16	300	70	45	25	2
CAT40 SLA32 200 AD/AV	K10203108239539	40	32	60	M10	M16	200	70	50	30	2
CAT40 SLA32 250 AD/AV	K10203108182539	40	32	60	M10	M16	250	70	50	30	2
CAT40 SLA32 300 AD/AV	K10203108183539	40	32	60	M10	M16	300	70	50	30	2
CAT40 SLA40 200 AD/AV	K10203109239539	40	40	60	M10	M16	200	70	50	30	2
CAT40 SLA40 250 AD/AV	K10203109182539	40	40	60	M10	M16	250	70	50	30	2
CAT40 SLA40 300 AD/AV	K10203109183539	40	40	60	M10	M16	300	70	50	30	2
CAT40 SLA5/8" 200 AD/AV	K10203989239539	40	5/8"	1.50"	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
CAT40 SLA5/8" 250 AD/AV	K10203989182539	40	5/8"	1.50"	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
CAT40 SLA5/8" 300 AD/AV	K10203989183539	40	5/8"	1.50"	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
CAT40 SLA3/4" 200 AD/AV	K10203990239539	40	3/4"	1.75"	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
CAT40 SLA3/4" 250 AD/AV	K10203990182539	40	3/4"	1.75"	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
CAT40 SLA3/4" 300 AD/AV	K10203990183539	40	3/4"	1.75"	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
CAT40 SLA1.0" 200 AD/AV	K10203991239539	40	1.0"	2.0"	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
CAT40 SLA1.0" 250 AD/AV	K10203991182539	40	1.0"	2.0"	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
CAT40 SLA1.0" 300 AD/AV	K10203991183539	40	1.0"	2.0"	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
CAT40 SLA1 1/4" 200 AD/AV	K10203992239539	40	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
CAT40 SLA1 1/4" 250 AD/AV	K10203992182539	40	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
CAT40 SLA1 1/4" 300 AD/AV	K10203992183539	40	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
CAT40 SLA1 1/2" 200 AD/AV	K10203993239539	40	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
CAT40 SLA1 1/2" 250 AD/AV	K10203993182539	40	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
CAT40 SLA1 1/2" 300 AD/AV	K10203993183539	40	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (SLA - AD/AV)

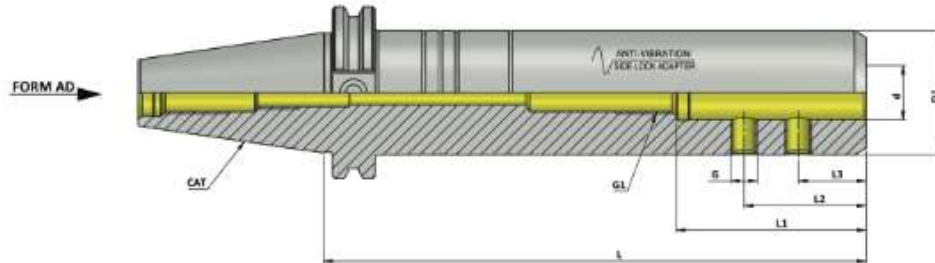
ITEM NAME	ITEM CODE	CAT	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
CAT50 SLA16 200 AD/AV	K10204105239539	50	16	48	M14	M12	200	57	-	23.50	1
CAT50 SLA16 250 AD/AV	K10204105182539	50	16	48	M14	M12	250	57	-	23.50	1
CAT50 SLA16 300 AD/AV	K10204105183539	50	16	48	M14	M12	300	57	-	23.50	1
CAT50 SLA16 350 AD/AV	K10204105184539	50	16	48	M14	M12	350	57	-	23.50	1
CAT50 SLA16 400 AD/AV	K10204105540539	50	16	48	M14	M12	400	57	-	23.50	1
CAT50 SLA20 200 AD/AV	K10204106239539	50	20	50	M10	M16	200	70	45	25	2
CAT50 SLA20 250 AD/AV	K10204106182539	50	20	50	M10	M16	250	70	45	25	2
CAT50 SLA20 300 AD/AV	K10204106183539	50	20	50	M10	M16	300	70	45	25	2
CAT50 SLA20 350 AD/AV	K10204106184539	50	20	50	M10	M16	350	70	45	25	2
CAT50 SLA20 400 AD/AV	K10204106540539	50	20	50	M10	M16	400	70	45	25	2
CAT50 SLA25 200 AD/AV	K10204107239539	50	25	50	M10	M16	200	70	45	25	2
CAT50 SLA25 250 AD/AV	K10204107182539	50	25	50	M10	M16	250	70	45	25	2
CAT50 SLA25 300 AD/AV	K10204107183539	50	25	50	M10	M16	300	70	45	25	2
CAT50 SLA25 350 AD/AV	K10204107184539	50	25	50	M10	M16	350	70	45	25	2
CAT50 SLA25 400 AD/AV	K10204107540539	50	25	50	M10	M16	400	70	45	25	2
CAT50 SLA32 200 AD/AV	K10204108239539	50	32	60	M10	M16	200	70	50	30	2
CAT50 SLA32 250 AD/AV	K10204108182539	50	32	60	M10	M16	250	70	50	30	2
CAT50 SLA32 300 AD/AV	K10204108183539	50	32	60	M10	M16	300	70	50	30	2
CAT50 SLA32 350 AD/AV	K10204108184539	50	32	60	M10	M16	350	70	50	30	2
CAT50 SLA32 400 AD/AV	K10204108540539	50	32	60	M10	M16	400	70	50	30	2
CAT50 SLA40 200 AD/AV	K10204109239539	50	40	60	M10	M16	200	70	50	30	2
CAT50 SLA40 250 AD/AV	K10204109182539	50	40	60	M10	M16	250	70	50	30	2
CAT50 SLA40 300 AD/AV	K10204109183539	50	40	60	M10	M16	300	70	50	30	2
CAT50 SLA40 350 AD/AV	K10204109184539	50	40	60	M10	M16	350	70	50	30	2
CAT50 SLA40 400 AD/AV	K10204109540539	50	40	60	M10	M16	400	70	50	30	2

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Side Lock Adaptor Anti - Vibration (SLA - AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (SLA - AD/AV)

ITEM NAME	ITEM CODE	CAT	d	D1	G	G1	L	L1	L2	L3	SCREW QTY.
CAT50 SLA5/8" 200 AD/AV	K10204989239539	50	5/8"	1.50"	1/2"20UNFx7/16"	M12	200	57	-	0.937"	1
CAT50 SLA5/8" 250 AD/AV	K10204989182539	50	5/8"	1.50"	1/2"20UNFx7/16"	M12	250	57	-	0.937"	1
CAT50 SLA5/8" 300 AD/AV	K10204989183539	50	5/8"	1.50"	1/2"20UNFx7/16"	M12	300	57	-	0.937"	1
CAT50 SLA5/8" 350 AD/AV	K10204989184539	50	5/8"	1.50"	1/2"20UNFx7/16"	M12	350	57	-	0.937"	1
CAT50 SLA5/8" 400 AD/AV	K10204989540539	50	5/8"	1.50"	1/2"20UNFx7/16"	M12	400	57	-	0.937"	1
CAT50 SLA3/4" 200 AD/AV	K10204990239539	50	3/4"	1.75"	5/8"18UNFx1/2"	M16	200	59	-	1.00"	1
CAT50 SLA3/4" 250 AD/AV	K10204990182539	50	3/4"	1.75"	5/8"18UNFx1/2"	M16	250	59	-	1.00"	1
CAT50 SLA3/4" 300 AD/AV	K10204990183539	50	3/4"	1.75"	5/8"18UNFx1/2"	M16	300	59	-	1.00"	1
CAT50 SLA3/4" 350 AD/AV	K10204990184539	50	3/4"	1.75"	5/8"18UNFx1/2"	M16	350	59	-	1.00"	1
CAT50 SLA3/4" 400 AD/AV	K10204990540539	50	3/4"	1.75"	5/8"18UNFx1/2"	M16	400	59	-	1.00"	1
CAT50 SLA1.0" 200 AD/AV	K10204991239539	50	1.0"	2.0"	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
CAT50 SLA1.0" 250 AD/AV	K10204991182539	50	1.0"	2.0"	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
CAT50 SLA1.0" 300 AD/AV	K10204991183539	50	1.0"	2.0"	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
CAT50 SLA1.0" 350 AD/AV	K10204991184539	50	1.0"	2.0"	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
CAT50 SLA1.0" 400 AD/AV	K10204991540539	50	1.0"	2.0"	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2
CAT50 SLA1 1/4" 200 AD/AV	K10204992239539	50	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
CAT50 SLA1 1/4" 250 AD/AV	K10204992183539	50	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
CAT50 SLA1 1/4" 300 AD/AV	K10204992183539	50	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
CAT50 SLA1 1/4" 350 AD/AV	K10204992184539	50	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
CAT50 SLA1 1/4" 400 AD/AV	K10204992540539	50	1-1/4"	2.5"	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2
CAT50 SLA1 1/2" 200 AD/AV	K10204993239539	50	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	200	75	2.125"	1.125"	2
CAT50 SLA1 1/2" 250 AD/AV	K10204993182539	50	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	250	75	2.125"	1.125"	2
CAT50 SLA1 1/2" 300 AD/AV	K10204993183539	50	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	300	75	2.125"	1.125"	2
CAT50 SLA1 1/2" 350 AD/AV	K10204993184539	50	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	350	75	2.125"	1.125"	2
CAT50 SLA1 1/2" 400 AD/AV	K10204993540539	50	1-1/2"	2.5"	3/4"16UNFx1/2"	M16	400	75	2.125"	1.125"	2

Note: All Dimensions are in mm

Features:

- Maximum Run-out of internal taper w.r.t external taper is within 0.010 mm.
- Special High Density material & embedded heavy metal core construction.
- Availability in Holding ER 16/20/25/32/40 mm Having GPL - 200/250/300/350/400 mm
- Through Coolant Facility

Benefits :

- Helps to Improve the tool life & end product quality.
- Helps to improve the surface finish & reduce vibration tendency.
- Suitable for every demanding application and reduce overhang due to different length availability.
- Helps to improve the tool life.

Available In Mountings :

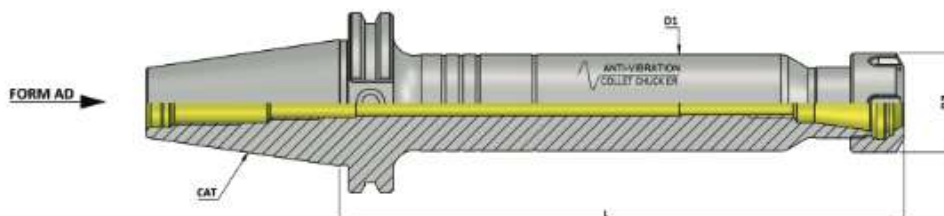
- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)



CAT (ANSI B 5.50) Collet Chuck ER Anti - vibration (ER - AD/AV) (DIN 6499)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (ER - AD/AV)									
ITEM NAME	ITEM CODE	CAT	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
CAT40 ER 16 200 AD/AV	K10203149239539	40	ER 16	0.0156"-0.375"	30	32	200	UM/ER16	E16
CAT40 ER 16 250 AD/AV	K10203149182539	40	ER 16	0.0156"-0.375"	30	32	250	UM/ER16	E16
CAT40 ER 16 300 AD/AV	K10203149183539	40	ER 16	0.0156"-0.375"	30	32	300	UM/ER16	E16
CAT40 ER 20 200 AD/AV	K10203150239539	40	ER 20	0.0625"-0.5"	34	35	200	UM/ER20	E20
CAT40 ER 20 250 AD/AV	K10203150182539	40	ER 20	0.0625"-0.5"	34	35	250	UM/ER20	E20
CAT40 ER 20 300 AD/AV	K10203150183539	40	ER 20	0.0625"-0.5"	34	35	300	UM/ER20	E20
CAT40 ER 25 200 AD/AV	K10203151239539	40	ER 25	0.0625"-0.625"	40	42	200	UM/ER25	E25
CAT40 ER 25 250 AD/AV	K10203151182539	40	ER 25	0.0625"-0.625"	40	42	250	UM/ER25	E25
CAT40 ER 25 300 AD/AV	K10203151183539	40	ER 25	0.0625"-0.625"	40	42	300	UM/ER25	E25
CAT40 ER 32 200 AD/AV	K10203152239539	40	ER 32	0.125"-0.75"	48	50	200	UM/ER32	E32
CAT40 ER 32 250 AD/AV	K10203152182539	40	ER 32	0.125"-0.75"	48	50	250	UM/ER32	E32
CAT40 ER 32 300 AD/AV	K10203152183539	40	ER 32	0.125"-0.75"	48	50	300	UM/ER32	E32
CAT40 ER 40 200 AD/AV	K10203153239539	40	ER 40	0.125"-1.00"	52	63	200	UM/ER40	E40
CAT40 ER 40 250 AD/AV	K10203153182539	40	ER 40	0.125"-1.00"	52	63	250	UM/ER40	E40
CAT40 ER 40 300 AD/AV	K10203153183539	40	ER 40	0.125"-1.00"	52	63	300	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



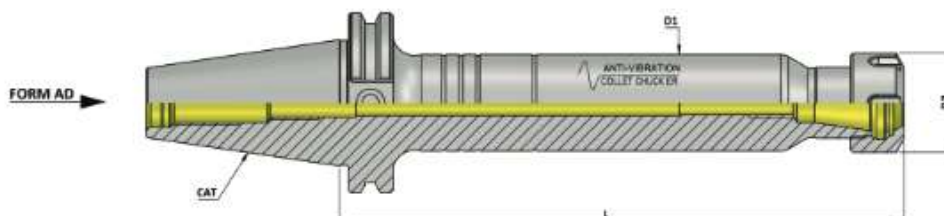
ER SPANNER

Note: All Dimensions are in mm

CAT (ANSI B 5.50) Collet Chuck ER Anti - vibration (ER - AD/AV) (DIN 6499)



Maximum Run out of the Internal Taper with respect to the External Taper 0.010 mm



CAT (ANSI B 5.50) (ER - AD/AV)

ITEM NAME	ITEM CODE	CAT	SUITABLE COLLET	COLLET CAPACITY	D1	D2	L	SUITABLE NUT	SUITABLE SPANNER
CAT50 ER 16 200 AD/AV	K10204149239539	50	ER 16	0.0156"-0.375"	30	32	200	UM/ER16	E16
CAT50 ER 16 250 AD/AV	K10204149182539	50	ER 16	0.0156"-0.375"	30	32	250	UM/ER16	E16
CAT50 ER 16 300 AD/AV	K10204149183539	50	ER 16	0.0156"-0.375"	30	32	300	UM/ER16	E16
CAT50 ER 16 350 AD/AV	K10204149184539	50	ER 16	0.0156"-0.375"	30	32	350	UM/ER16	E16
CAT50 ER 16 400 AD/AV	K10204149540539	50	ER 16	0.0156"-0.375"	30	32	400	UM/ER16	E16
CAT50 ER 20 200 AD/AV	K10204150239539	50	ER 20	0.0625"-0.5"	34	35	200	UM/ER20	E20
CAT50 ER 20 250 AD/AV	K10204150182539	50	ER 20	0.0625"-0.5"	34	35	250	UM/ER20	E20
CAT50 ER 20 300 AD/AV	K10204150183539	50	ER 20	0.0625"-0.5"	34	35	300	UM/ER20	E20
CAT50 ER 20 350 AD/AV	K10204150184539	50	ER 20	0.0625"-0.5"	34	35	350	UM/ER20	E20
CAT50 ER 20 400 AD/AV	K10204150540539	50	ER 20	0.0625"-0.5"	34	35	400	UM/ER20	E20
CAT50 ER 25 200 AD/AV	K10204151239539	50	ER 25	0.0625"-0.625"	40	42	200	UM/ER25	E25
CAT50 ER 25 250 AD/AV	K10204151182539	50	ER 25	0.0625"-0.625"	40	42	250	UM/ER25	E25
CAT50 ER 25 300 AD/AV	K10204151183539	50	ER 25	0.0625"-0.625"	40	42	300	UM/ER25	E25
CAT50 ER 25 350 AD/AV	K10204151184539	50	ER 25	0.0625"-0.625"	40	42	350	UM/ER25	E25
CAT50 ER 25 400 AD/AV	K10204151540539	50	ER 25	0.0625"-0.625"	40	42	400	UM/ER25	E25
CAT50 ER 32 200 AD/AV	K10204152239539	50	ER 32	0.125"-0.75"	48	50	200	UM/ER32	E32
CAT50 ER 32 250 AD/AV	K10204152182539	50	ER 32	0.125"-0.75"	48	50	250	UM/ER32	E32
CAT50 ER 32 300 AD/AV	K10204152183539	50	ER 32	0.125"-0.75"	48	50	300	UM/ER32	E32
CAT50 ER 32 350 AD/AV	K10204152184539	50	ER 32	0.125"-0.75"	48	50	350	UM/ER32	E32
CAT50 ER 32 400 AD/AV	K10204152540539	50	ER 32	0.125"-0.75"	48	50	400	UM/ER32	E32
CAT50 ER 40 200 AD/AV	K10204153239539	50	ER 40	0.125"-1.00"	60	63	200	UM/ER40	E40
CAT50 ER 40 250 AD/AV	K10204153182539	50	ER 40	0.125"-1.00"	60	63	250	UM/ER40	E40
CAT50 ER 40 300 AD/AV	K10204153183539	50	ER 40	0.125"-1.00"	60	63	300	UM/ER40	E40
CAT50 ER 40 350 AD/AV	K10204153184539	50	ER 40	0.125"-1.00"	60	63	350	UM/ER40	E40
CAT50 ER 40 400 AD/AV	K10204153540539	50	ER 40	0.125"-1.00"	60	63	400	UM/ER40	E40

Accessories:



ER COLLET



ER SLOTTED NUT



ER SPANNER

Note: All Dimensions are in mm

Features :

- Small outside diameter.
- Best suitable for Die & Mould Industry.
- Most suitable for machining of cavities difficult to reach.
- High precision Runout <0.005mm (4xd)
- All 'KTA' Die & Mould Chucks are subjected to Sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Capacity :

- DMC 06 (3mm to 6mm)
- DMC 08 (3mm to 8mm)
- DMC 10 (3mm to 10mm)

Available in Mountings :

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 69893-1)
- CAT (ANSI B 5.50)
- Cylindrical Shank

Balancing :

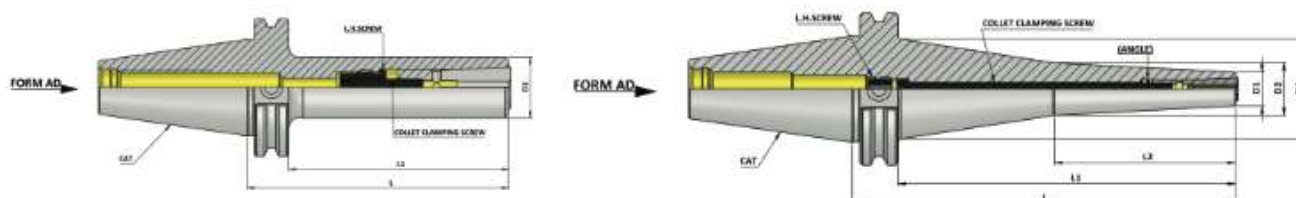
- Balanced To 2.5G 25000 RPM



CAT (ANSI B 5.50) Die & Mould Chuck (DMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



CAT (ANSI B 5.50) (DMC)														(Balanced to 2.5G 25000 RPM)	
ITEM NAME	ITEM CODE	CAT	GRIPPING RANGE	D1	D2	D3	L	L1	L2	ANGLE	SUITABLE COLLET	SCREW	ALLEN KEY		
CAT40 DMC 06 060 AD 2.5G 25000 SL	K10203161117555	40	3-6	14	16.7	-	60	40.95	26	3	DMC-6	M5	4X200		
CAT40 DMC 06 090 AD 2.5G 25000 SL	K10203161140555	40	3-6	14	18.7	35	90	70.95	45	3	DMC-6	M5	4X200		
CAT40 DMC 06 120 AD 2.5G 25000 SL	K10203161162555	40	3-6	14	20.2	40	120	100.95	60	3	DMC-6	M5	4X200		
CAT40 DMC 06 160 AD 2.5G 25000 SL	K10203161175555	40	3-6	14	21.9	45	160	140.95	76	3	DMC-6	M5	4X200		
CAT40 DMC 08 090 AD 2.5G 25000 SL	K10203162140555	40	3-8	22	27.5	35	90	70.95	53	3	DMC-8	M6	5X200		
CAT40 DMC 08 120 AD 2.5G 25000 SL	K10203162162555	40	3-8	22	28.8	40	120	100.95	65	3	DMC-8	M6	5X200		
CAT40 DMC 08 160 AD 2.5G 25000 SL	K10203162175555	40	3-8	22	29.9	45	160	140.95	76	3	DMC-8	M6	5X200		
CAT40 DMC 10 090 AD 2.5G 25000 SL	K10203163140555	40	3-10	28	-	-	90	70.95	-	-	DMC-10	M8	6X200		
CAT40 DMC 10 120 AD 2.5G 25000 SL	K10203163162555	40	3-10	28	-	-	120	100.95	-	-	DMC-10	M8	6X200		
CAT50 DMC 10 150 AD 2.5G 25000 SL	K10204163173555	50	3-10	28	-	-	150	130.95	-	-	DMC-10	M8	6X200		

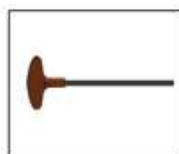
Accessories:



DMC COLLET



DMC ALLEN CAP SCREW



DMC ALLEN KEY



DMC LH SCREW

For DMC Accessories Ref. Pg.Nos 283 To 285

Note: All Dimensions are in mm

Features :

- 'KTA' Power Milling Chuck is Very Rigid & Precision.
- It is best for Drilling, Reaming & Milling Operations.
- The tool runs true less than 5 micron on 2D. Hence the tool life increases drastically.
- It's Unibody construction reduces the vibrations. This also helps to increase the tool life.
- All 'KTA' Power Milling Chucks are subjected to sub-zero treatment (-90 C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.

Available In Mountings

- BT (MAS 403) (DIN ISO 7388-2)
- KBT (MAS 403) (DIN ISO 7388-2)
- SK (DIN 69871) (DIN ISO 7388-1)
- HSK-A (DIN 96893-1)
- CAT (ANSI B 5.50)

Balancing

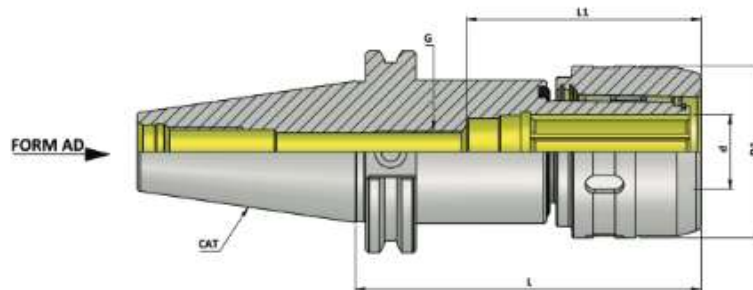
- Balanced To 6.3G 15000 RPM



CAT (ANSI B 5.50) Power Milling Chuck (PMC)



Maximum Run out of the Internal Dia with respect to the External Taper 0.005 mm



CAT (ANSI B 5.50) (PMC)				(Balanced to 6.3G 15000 RPM)			
ITEM NAME	ITEM CODE	ISO	d	D1	L	L1	G
CAT40 C20 105 AD/6.3G 15000 SL	K10203445152110	40	20	54	105	70	M 16
CAT40 C32 105 AD/6.3G 15000 SL	K10203446152110	40	32	72	105	100	M 16
CAT40 C 3/4" 4.13" AD/6.3G 15000 SL	K10203393863110	40	3/4"	54	4.13"	70	M 16
CAT40 C 1 1/4" 4.13" AD/6.3G 15000 SL	K10203553863110	40	1-1/4"	72	4.13"	100	M 16
CAT50 C20 105 AD/6.3G 15000 SL	K10204445152110	50	20	54	105	70	M 16
CAT50 C32 105 AD/6.3G 15000 SL	K10204446152110	50	32	72	105	100	M 16
CAT50 C 3/4" 4.13" AD/6.3G 15000 SL	K10204393863110	50	3/4"	54	4.13"	70	M 16
CAT50 C 1 1/4" 4.13" AD/6.3G 15000 SL	K10204553863110	50	1-1/4"	72	4.13"	100	M 16

Accessories:



RS SEAL SLEEVE



POWER CHUCK SPANNER

For PMC Spanner Ref. Pg.Nos 285

Note: All Dimensions are in mm

Features :

- KTA "Minimum Length Compensation Tapping Chuck (MLC)" For Synchronised (Rigid) Tapping Cycle.
- Best suitable for Die & Mould Industry.
- Compression & Expansion $\pm 0.5\text{mm}$
- High Concentricity Enables High Speed Tapping
- Possible Clamping Through ER Tap Collet.

Technical Details :

- "MLC" Tapping Chucks to be used with CNC Machines, having Synchronised Tapping Cycle.
- In this case, Rigid Tapping cycle takes care of tap pitch controlling the feed, spindle speed and feed. So, theoretically, ordinary holder without any compensation also should be suitable for performing the process. But by law of theory, following factors they do affect tapping quality, tap life etc.
- This will lead to :
 - » Less Tap life because of Flank wear (one side)
 - » Damaged Flanks on threads on the work piece
 - » Threads not answering to Gauge.
- All above errors can be taken care by using ' MLC '
- KTA 'MLC' Tapping chucks with $\pm 0.5\text{mm}$ compensation.
- Available in Following Range :
 - » ER 16 : M3 to M12
 - » ER 20 : M3 to M16
 - » ER 25 : M3 to M20
 - » ER 32 : M4 to M27
 - » ER 40 : M6 to M33
- Available in Mountings :
 - » BT (MAS 403) (DIN ISO 7388-2)
 - » KBT (MAS 403) (DIN ISO 7388-2)
 - » SK (DIN 69871) (DIN ISO 7388-1)
 - » HSK-A (DIN 69893-1)
 - » CAT (ANSI B 5.50)
 - » Cylindrical Shank



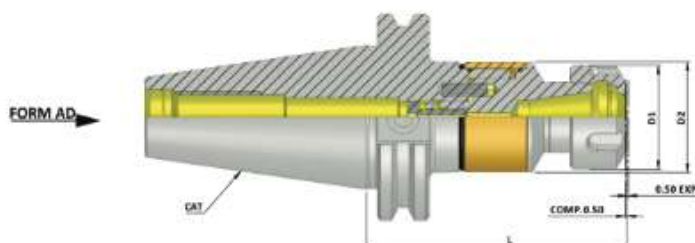
Balancing :

- Main Body Balanced to 2.5G 25000 RPM

CAT (ANSI B 5.50) Minimum Length Compensation Tapping Chuck (MLC)



Maximum Run out of the Internal Taper with respect to the External Taper 0.020 mm



CAT (ANSI B 5.50) (MLC)

ITEM NAME	ITEM CODE	CAT	TAPPING RANGE	CLAMPING RANGE	NUT SIZE	D1	D2	L	COMP.	EXP.
CAT40 ER 11M 090 AD MLC	K10203156140260	40	M2-M6	2.5-6	ER 11M	16	32.5	90	0.4	0.4
CAT40 ER 16M 095 AD MLC	K10203157145250	40	M3-M12	3.5-10	ER 16M	22	34	95	0.5	0.5
CAT40 ER 16 095 AD MLC	K10203149145250	40	M3-M12	3.5-10	ER 16	32	34	95	0.5	0.5
CAT40 ER 20 096 AD MLC	K10203150262250	40	M3-M16	3.5-12	ER 20	35	34	96	0.5	0.5
CAT40 ER 25 100 AD MLC	K10203151148250	40	M3-M20	3.5-16	ER 25	42	34	100	0.5	0.5
CAT40 ER 32 111 AD MLC	K10203152156250	40	M4-M27	3.5-20	ER 32	50	34	111	0.5	0.5
CAT40 ER 40 136 AD MLC	K10203153242250	40	M6-M33	6-25	ER 40	63	62	136	0.5	0.5

CAT50 ER 16M 095 AD MLC	K10204157548250	50	M3-M12	3.5-10	ER 16M	22	34	95	0.5	0.5
CAT50 ER 16 095 AD MLC	K10204149145250	50	M3-M12	3.5-10	ER 16	32	34	95	0.5	0.5
CAT50 ER 20 096 AD MLC	K10204150262250	50	M3-M16	3.5-12	ER 20	35	34	96	0.5	0.5
CAT50 ER 25 100 AD MLC	K10204151148250	50	M3-M20	3.5-16	ER 25	42	34	100	0.5	0.5
CAT50 ER 32 111 AD MLC	K10204152157250	50	M4-M27	3.5-20	ER 32	50	45	111	0.5	0.5
CAT50 ER 40 121 AD MLC	K10204153240250	50	M6-M33	6-25	ER 40	63	62	121	0.5	0.5

CAT40 ER 11M 090 AD MLC	K10203156140260	40	1/8"/No 06 - No 10	0.141" - 0.194"	ER 11M	16	32.5	90	0.4	0.4
CAT40 ER 16M 095 AD MLC	K10203157145250	40	1/8"/No 06 - 1/2"	0.141" - 0.381"	ER 16M	22	34	95	0.5	0.5
CAT40 ER 16 095 AD MLC	K10203149145250	40	1/8"/No 06 - 1/2"	0.141" - 0.381"	ER 16	32	34	95	0.5	0.5
CAT40 ER 20 096 AD MLC	K10203150262250	40	1/8"/No 06 - 1/2"	0.141" - 0.381"	ER 20	35	34	96	0.5	0.5
CAT40 ER 25 100 AD MLC	K10203151148250	40	1/8"/No 06 - 11/16"	0.141" - 0.542"	ER 25	42	34	100	0.5	0.5
CAT40 ER 32 111 AD MLC	K10203152156250	40	3/16"/No 10 - 13/16"	0.194" - 0.652"	ER 32	50	34	111	0.5	0.5
CAT40 ER 40 136 AD MLC	K10203153242250	40	1/4" - 1"	0.255" - 0.800"	ER 40	63	62	136	0.5	0.5

CAT50 ER 16M 095 AD MLC	K10204157548250	50	1/8"/No 06 - 1/2"	0.141" - 0.381"	ER 16M	22	34	95	0.5	0.5
CAT50 ER 16 095 AD MLC	K10204149145250	50	1/8"/No 06 - 1/2"	0.141" - 0.381"	ER 16	32	34	95	0.5	0.5
CAT50 ER 20 096 AD MLC	K10204150262250	50	1/8"/No 06 - 1/2"	0.141" - 0.381"	ER 20	35	34	96	0.5	0.5
CAT50 ER 25 100 AD MLC	K10204151148250	50	1/8"/No 06 - 11/16"	0.141" - 0.542"	ER 25	42	34	100	0.5	0.5
CAT50 ER 32 111 AD MLC	K10204152157250	50	3/16"/No 10 - 13/16"	0.194" - 0.652"	ER 32	50	45	111	0.5	0.5
CAT50 ER 40 121 AD MLC	K10204153240250	50	1/4" - 1"	0.255" - 0.800"	ER 40	63	62	121	0.5	0.5

Accessories:



QC Tap Collet QCTC



ER TAP COLLET



ER SLOTTED NUT



ER SPANNER

For QC Tap Collet QCTC Ref. Pg.Nos 273 TO 282

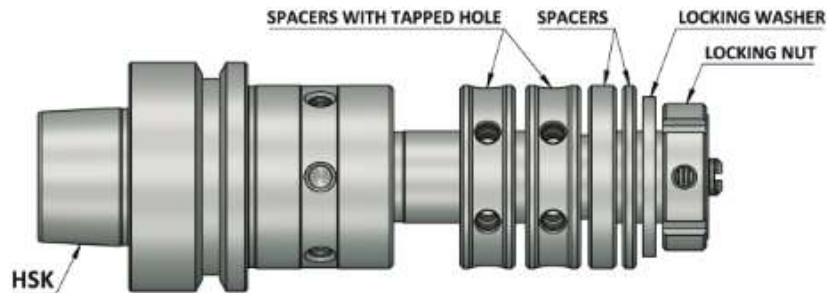
Note: All Dimensions are in mm

Precision Tool Holders CYLINDRICAL SHANK & ACCESSORIES



INDEX

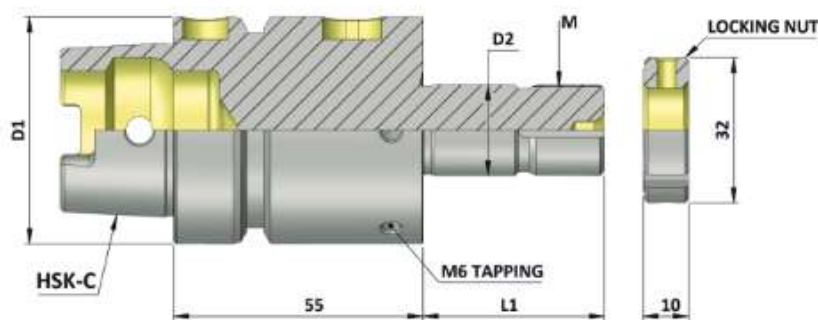
Sr. No.	Contents		Page No.
①	Precision Wheel Arbors For Tool & Cutter Grinding Machines		259 - 264
②	Cylindrical Shank Shrink Fit Holders 4.5 Degree (SFH 4.5°) (Shrinking Extention)		265 - 268
③	Shrink Fit holders "ER" Series 4 Degree (ER - SFH 4°)		269 - 270
④	Cylindrical Shank Die & Mould Chuck (DMC)		271
⑤	Cylindrical Shank (DIN 1835 B+E) Minimum Length Compensation Tapping Chuck (MLC)		272
⑥	Quick Change Tap Collet ER type (Rigid) (QCTC-ER)		273 - 282
⑦	Collets For DMC		283
⑧	Allen Cap Screws For DMC		284
⑨	Left Hand (L.H) Special Screws For DMC		285
⑩	Allen Key For DMC		286
⑪	Spanner For PMC		287



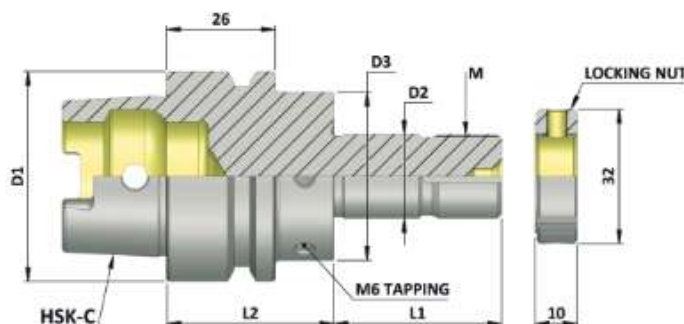
Features :

- All 'KTA' Precision Grinding Wheel Arbors are subjected to sub-zero treatment (-90°C). This treatment helps to prevent the holders from deformation for many years & hence increases the life.
- Concentricity within 0.003mm.
- Main body balanced to G2.5, 25000 R.P.M.
- Designed special washers with fine adjustment screw for re-balancing after wheel mounting.
- Spacers Dia 40 mm, Thickness : 3 mm = 1 no., 6 mm = 1 no. and 12 mm = 2 nos. will be supplied with each Grinding Wheel Arbor Assembly.
- Available for :
 - » ANCA Tool & Cutter Grinding Machine
 - » DECKEL Tool & Cutter Grinding Machine
 - » ROLLOMATIC Tool & Cutter Grinding Machine
 - » REINECKER Tool & Cutter Grinding Machine
 - » SCHUTTE (205 SERIES) & SAACKE Tool & Cutter Grinding Machine
 - » SCHUTTE (305 SERIES) Tool & Cutter Grinding Machine
 - » TGT Tool & Cutter Grinding Machine
 - » WALTER Tool & Cutter Grinding Machine
 - » WIDMA Tool & Cutter Grinding Machine (RX⁵/LX⁵/EZEE GRIND)

Precision Wheel Arbor For Tool & Cutter Grinding Machine



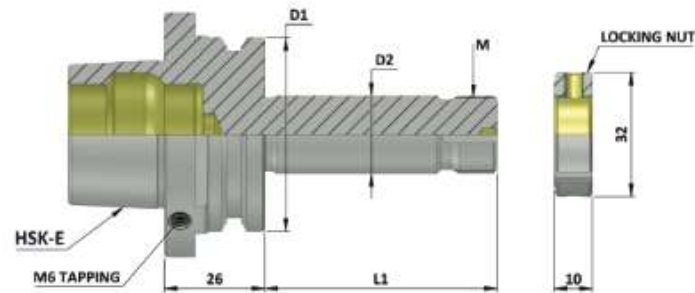
Wheel Arbor HSK - C 50 For WALTER				(Balanced to 2.5G 25000 RPM)		
ITEM NAME	ITEM CODE	HSK-C	D1	D2	L1	M
HSK-C 50 WHEEL ARBOR WALTER DIA 20 X 95	K10309588600127	HSK-C50	50	20	40	M20X1
HSK-C 50 WHEEL ARBOR WALTER DIA 20 X 115	K10309588601127	HSK-C50	50	20	60	M20X1
HSK-C 50 WHEEL ARBOR WALTER DIA 20 X 140	K10309588602127	HSK-C50	50	20	85	M20X1
HSK-C 50 WHEEL ARBOR WALTER DIA 20 X 155	K10309588603127	HSK-C50	50	20	100	M20X1
HSK-C 50 WHEEL ARBOR WALTER DIA 20 X 175	K10309588604127	HSK-C50	50	20	120	M20X1
HSK-C 50 WHEEL ARBOR WALTER DIA 20 X 195	K10309588973521	HSK-C50	50	20	140	M20X1



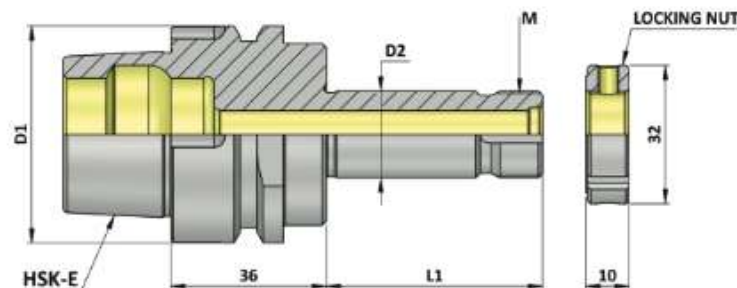
Wheel Arbor HSK - C 50 For SCHUTTE (205 Series) & SAACKE				(Balanced to 2.5G 25000 RPM)				
ITEM NAME	ITEM CODE	HSK-C	D1	D2	D3	L1	L2	M
HSK-C 50 WHEEL ARBOR SCHUTTE 205 DIA 20 X 80	K10309588605127	HSK-C50	50	20	40	40	40	M20X1
HSK-C 50 WHEEL ARBOR SCHUTTE 205 DIA 20 X 100	K10309588606127	HSK-C50	50	20	40	60	40	M20X1
HSK-C 50 WHEEL ARBOR SCHUTTE 205 DIA 20 X 115	K10309588601224	HSK-C50	50	20	40	75	40	M20X1
HSK-C 50 WHEEL ARBOR SCHUTTE 205 DIA 20 X 125	K10309588607127	HSK-C50	50	20	40	85	40	M20X1
HSK-C 50 WHEEL ARBOR SCHUTTE 205 DIA 20 X 140	K10309588602219	HSK-C50	50	20	40	100	40	M20X1

Note: All Dimensions are in mm

Precision Wheel Arbor For Tool & Cutter Grinding Machine



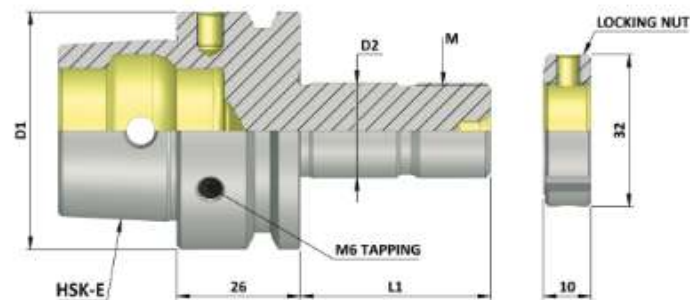
Wheel Arbor HSK- E 50 For ROLLOMATIC				(Balanced to 2.5G 25000 RPM)		
ITEM NAME	ITEM CODE	HSK-E	D1	D2	L1	M
HSK-E 50 WHEEL ARBOR ROLLOMATIC DIA 20 X 75	K10286588595127	HSK-E50	50	20	49	M20X1
HSK-E 50 WHEEL ARBOR ROLLOMATIC DIA 20 X 77	K10286588975521	HSK-E50	50	20	51	M20X1
HSK-E 50 WHEEL ARBOR ROLLOMATIC DIA 20 X 107	K10286588596127	HSK-E50	50	20	81	M20X1



Wheel Arbor HSK- E 50 For WIDMA (RX ⁵ /LX ⁵ /EZEE GRIND)				(Balanced to 2.5G 25000 RPM)		
ITEM NAME	ITEM CODE	HSK-E	D1	D2	L1	M
HSK-E 50 WHEEL ARBOR WIDMA DIA 20 X 86	K10286588545127	HSK-E50	50	20	50	M20X1
HSK-E 50 WHEEL ARBOR WIDMA DIA 20 X 126	K10286588544127	HSK-E50	50	20	90	M20X1
HSK-E 50 WHEEL ARBOR WIDMA DIA 1 1/4" X 126	K10286942331171	HSK-E50	50	1-1/4"	90	M31.50 x 1.50
HSK-E 50 WHEEL ARBOR WIDMA DIA 1 1/4" X 161	K10286942331174	HSK-E50	50	1-1/4"	125	M31.50 x 1.50

Note: All Dimensions are in mm

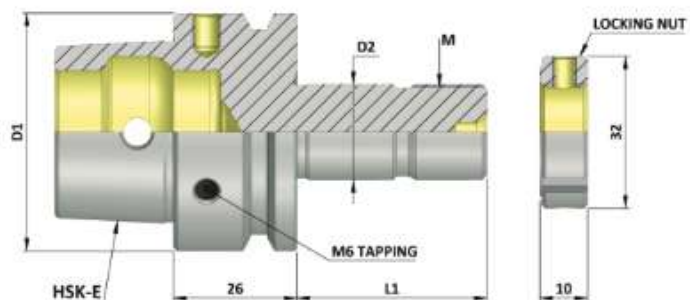
Precision Wheel Arbor For Tool & Cutter Grinding Machine



Wheel Arbor HSK- E 50 For REINECKER

(Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	HSK-E	D1	D2	L1	M
HSK-E 50 WHEEL ARBOR REINECKER DIA 20 X 75	K10286588595248	HSK-E50	50	20	49	M20X1
HSK-E 50 WHEEL ARBOR REINECKER DIA 20 X 100	K10286588596248	HSK-E50	50	20	74	M20X1
HSK-E 50 WHEEL ARBOR REINECKER DIA 20 X 135	K10286588580248	HSK-E50	50	20	109	M20X1



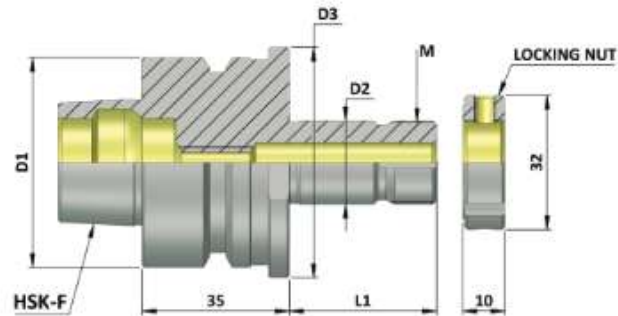
Wheel Arbor HSK- E 50 For SCHUTTE (305 Series)

(Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	HSK-E	D1	D2	L1	M
HSK-E 50 WHEEL ARBOR SCHUTTE 305 DIA 20 X 66	K10286588595182	HSK-E50	50	20	40	M20X1
HSK-E 50 WHEEL ARBOR SCHUTTE 305 DIA 20 X 81	K10286588589182	HSK-E50	50	20	55	M20X1
HSK-E 50 WHEEL ARBOR SCHUTTE 305 DIA 20 X 111	K10286588545182	HSK-E50	50	20	85	M20X1

Note: All Dimensions are in mm

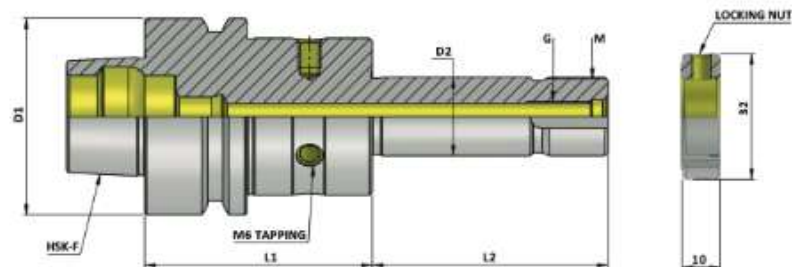
Precision Wheel Arbor For Tool & Cutter Grinding Machine



Wheel Arbor HSK-F 40 & HSK-F 50 For ANCA

(Balanced to 2.5G 25000 RPM)

ITEM NAME	ITEM CODE	HSK-F	D1	D2	D3	L1	M
HSK-F 40 WHEEL ARBOR ANCA DIA 20 X 128	K1035958880530	HSK-F40	40	20	50	95	M20X1
HSK-F 50 WHEEL ARBOR ANCA DIA 20 X 80	K10304588589127	HSK-F50	50	20	55	45	M20X1
HSK-F 50 WHEEL ARBOR ANCA DIA 20 X 107	K10304588590127	HSK-F50	50	20	55	72	M20X1
HSK-F 50 WHEEL ARBOR ANCA DIA 20 X 130	K10304588591127	HSK-F50	50	20	55	95	M20X1



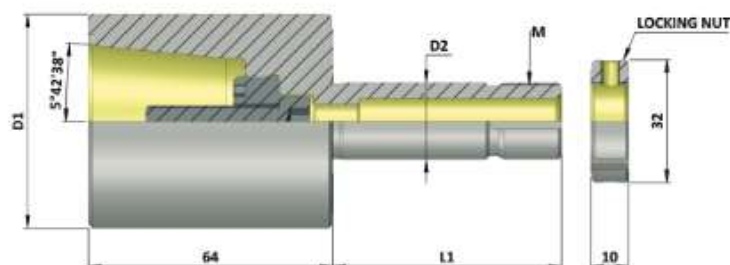
Wheel Arbor HSK-F50 For DECKEL

(Balanced to 2.5G 25000 RPM)

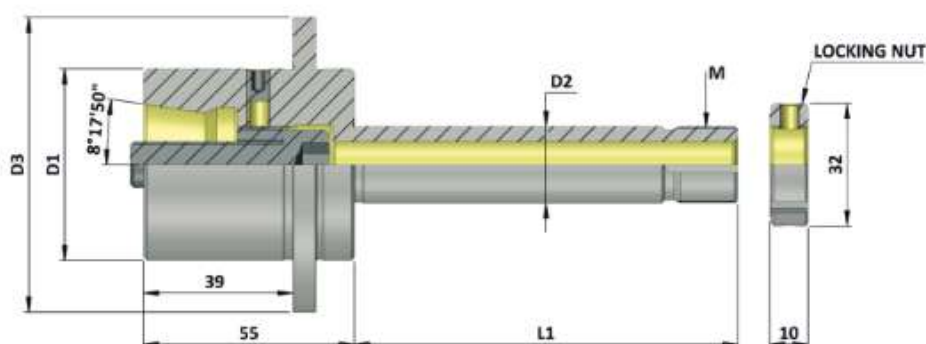
ITEM NAME	ITEM CODE	HSK-F	D1	D2	L1	L2	G	M
HSK-F 50 WHEEL ARBOR DECKEL DIA 20 X 118	K10304588580127	HSK-F50	50	20	58	60	M8	M20X1
HSK-F 50 WHEEL ARBOR DECKEL DIA 20 X 148	K10304588592127	HSK-F50	50	20	58	90	M8	M20X1

Note: All Dimensions are in mm

Precision Wheel Arbor For Tool & Cutter Grinding Machine



Wheel Arbor For TGT/WIDMA					
ITEM NAME	ITEM CODE	D1	D2	L1	M
WHEEL ARBOR TGT / WIDMA DIA 20 X 124	K10268627301127	56	20	60	M20X1
WHEEL ARBOR TGT / WIDMA DIA 20 X 144	K10268628301127	56	20	80	M20X1



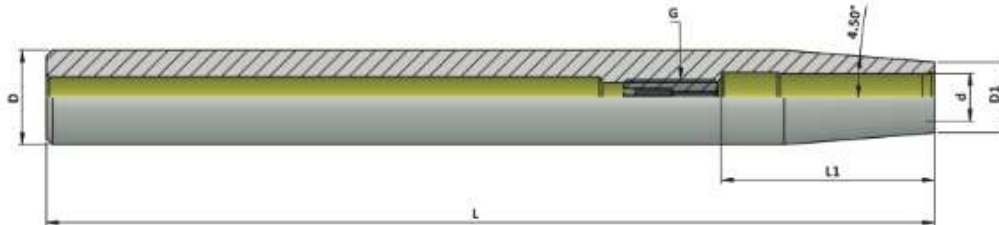
Wheel Arbor For WALTER						
ITEM NAME	ITEM CODE	D1	D2	D3	L1	M
WHEEL ARBOR WALTER DIA 20 X 115	K10268625301127	50	20	77	60	M20X1
WHEEL ARBOR WALTER DIA 20 X 155	K10268626301127	50	20	77	100	M20X1

Note: All Dimensions are in mm

Cylindrical Shank Shrink Fit Holder 4.5 Degree (Shrinking Extension) (SFH 4.5°)



Maximum Run out of the Internal Diameter with respect to the External Diameter 0.003 mm



(Shrinking Extension) (SFH 4.5°)

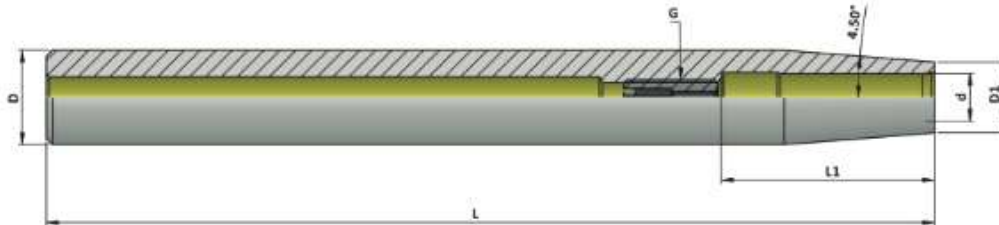
ITEM NAME	ITEM CODE	d	D1	D	G	L	L1
D12 SFH03 150	K10117274173127	3	8	12	–	150	12
D12 SFH04 150	K10117275173127	4	8	12	–	150	14
D12 SFH05 150	K10117276173127	5	8	12	–	150	15
D12 SFH1/8" 150	K10117978173127	1/8"	8	12	–	150	12
D12 SFH3/16" 150	K10117979173127	3/16"	8	12	–	150	14
D1/2" SFH03 150	K10208274173127	3	8	1/2"	–	150	12
D1/2" SFH04 150	K10208275173127	4	8	1/2"	–	150	14
D1/2" SFH05 150	K10208276173127	5	8	1/2"	–	150	15
D1/2" SFH1/8" 150	K10208978173127	1/8"	8	1/2"	–	150	12
D1/2" SFH3/16" 150	K10208979173127	3/16"	8	1/2"	–	150	14
D16 SFH03 150	K10118274173127	3	10	16	–	150	12
D16 SFH04 150	K10118275173127	4	10	16	–	150	14
D16 SFH05 150	K10118276173127	5	10	16	–	150	15
D16 SFH06 150	K10118277173127	6	10	16	M5	150	36
D16 SFH1/8" 150	K10118978173127	1/8"	10	16	–	150	12
D16 SFH3/16" 150	K10118979173127	3/16"	10	16	–	150	14
D16 SFH1/4" 150	K10118980173127	1/4"	10	16	M5	150	36
D5/8" SFH03 150	K10209274173127	3	10	5/8"	–	150	12
D5/8" SFH04 150	K10209275173127	4	10	5/8"	–	150	14
D5/8" SFH05 150	K10209276173127	5	10	5/8"	–	150	15
D5/8" SFH06 150	K10209277173127	6	10	5/8"	M5	150	36
D5/8" SFH1/8" 150	K10209978173127	1/8"	10	5/8"	–	150	12
D5/8" SFH3/16" 150	K10209979173127	3/16"	10	5/8"	–	150	14
D5/8" SFH1/4" 150	K10209980173127	1/4"	10	5/8"	M5	150	36

Note: All Dimensions are in mm

Cylindrical Shank Shrink Fit Holder 4.5 Degree (Shrinking Extension) (SFH 4.5°)



Maximum Run out of the Internal Diameter with respect to the External Diameter 0.003 mm



(Shrinking Extension) (SFH 4.5°)

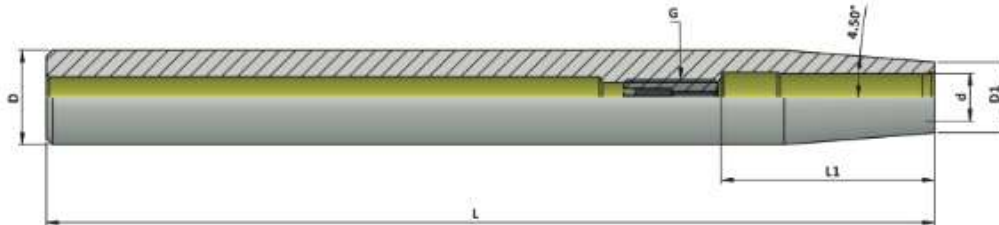
ITEM NAME	ITEM CODE	d	D1	D	G	L	L1
D20 SFH03 150	K10119274173127	3	10	20	–	150	12
D20 SFH04 150	K10119275173127	4	10	20	–	150	14
D20 SFH05 150	K10119276173127	5	10	20	–	150	15
D20 SFH06 150	K10119277173127	6	10	20	M5	150	36
D20 SFH08 150	K10119285173127	8	12	20	M6	150	36
D20 SFH10 150	K10119279173127	10	14	20	M8	150	41
D20 SFH12 150	K10119280173127	12	16	20	M10	150	46
D20 SFH1/8" 150	K10119978173127	1/8"	10	20	–	150	12
D20 SFH3/16" 150	K10119979173127	3/16"	10	20	–	150	14
D20 SFH1/4" 150	K10119980173127	1/4"	10	20	M5	150	36
D20 SFH5/16" 150	K10119981173127	5/16"	12	20	M6	150	36
D20 SFH3/8" 150	K10119982173127	3/8"	14	20	M8	150	41
D20 SFH1/2" 150	K10119983173127	1/2"	16	20	M10	150	46
D3/4" SFH03 150	K10210274173127	3	10	3/4"	–	150	12
D3/4" SFH04 150	K10210275173127	4	10	3/4"	–	150	14
D3/4" SFH05 150	K10210276173127	5	10	3/4"	–	150	15
D3/4" SFH06 150	K10210277173127	6	10	3/4"	M5	150	36
D3/4" SFH08 150	K10210285173127	8	12	3/4"	M6	150	36
D3/4" SFH10 150	K10210279173127	10	14	3/4"	M8	150	41
D3/4" SFH12 150	K10210280173127	12	16	3/4"	M10	150	46
D3/4" SFH1/8" 150	K10210978173127	1/8"	10	3/4"	–	150	12
D3/4" SFH3/16" 150	K10210979173127	3/16"	10	3/4"	–	150	14
D3/4" SFH1/4" 150	K10210980173127	1/4"	10	3/4"	M5	150	36
D3/4" SFH5/16" 150	K10210981173127	5/16"	12	3/4"	M6	150	36
D3/4" SFH3/8" 150	K10210982173127	3/8"	14	3/4"	M8	150	41
D3/4" SFH1/2" 150	K10210983173127	1/2"	16	3/4"	M10	150	46

Note: All Dimensions are in mm

Cylindrical Shank Shrink Fit Holder 4.5 Degree (Shrinking Extension) (SFH 4.5°)



Maximum Run out of the Internal Diameter with respect to the External Diameter 0.003 mm



(Shrinking Extension) (SFH 4.5°)

ITEM NAME	ITEM CODE	d	D1	D	G	L	L1
D25 SFH03 150	K10120274173127	3	15	25	-	150	12
D25 SFH04 150	K10120275173127	4	15	25	-	150	14
D25 SFH05 150	K10120276173127	5	15	25	-	150	15
D25 SFH06 150	K10120277173127	6	20	25	M5	150	36
D25 SFH08 150	K10120285173127	8	20	25	M6	150	36
D25 SFH10 150	K10120279173127	10	20	25	M8	150	41
D25 SFH12 150	K10120280173127	12	20	25	M10	150	46
D25 SFH14 150	K10120284173127	14	20	25	M10	150	46
D25 SFH16 150	K10120281173127	16	22	25	M12	150	49

D25 SFH1/8" 150	K10120978173127	1/8"	15	25	-	150	12
D25 SFH3/16" 150	K10120979173127	3/16"	15	25	-	150	14
D25 SFH1/4" 150	K10120980173127	1/4"	20	25	M5	150	36
D25 SFH5/16" 150	K10120981173127	5/16"	20	25	M6	150	36
D25 SFH3/8" 150	K10120982173127	3/8"	20	25	M8	150	41
D25 SFH1/2" 150	K10120983173127	1/2"	20	25	M10	150	46
D25 SFH5/8" 150	K10120984173127	5/8"	22	25	M12	150	49

D1.0" SFH03 150	K10211274173127	3	15	1.0"	-	150	12
D1.0" SFH04 150	K10211275173127	4	15	1.0"	-	150	14
D1.0" SFH05 150	K10211276173127	5	15	1.0"	-	150	15
D1.0" SFH06 150	K10211277173127	6	20	1.0"	M5	150	36
D1.0" SFH08 150	K10211285173127	8	20	1.0"	M6	150	36
D1.0" SFH10 150	K10211279173127	10	20	1.0"	M8	150	41
D1.0" SFH12 150	K10211280173127	12	20	1.0"	M10	150	46
D1.0" SFH14 150	K10211284173127	14	20	1.0"	M10	150	46
D1.0" SFH16 150	K10211281173127	16	22	1.0"	M12	150	49

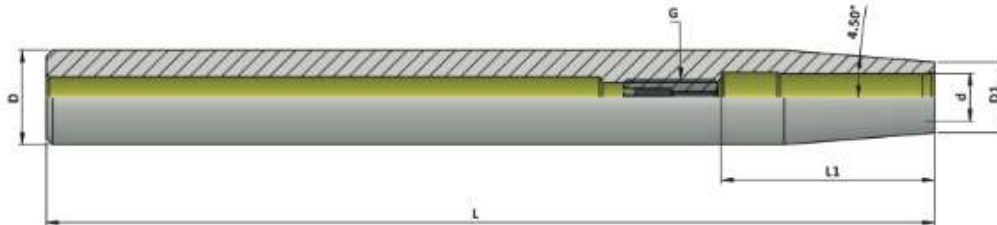
D1.0" SFH1/8" 150	K10211978173127	1/8"	15	1.0"	-	150	12
D1.0" SFH3/16" 150	K10211979173127	3/16"	15	1.0"	-	150	14
D1.0" SFH1/4" 150	K10211980173127	1/4"	20	1.0"	M5	150	36
D1.0" SFH5/16" 150	K10211981173127	5/16"	20	1.0"	M6	150	36
D1.0" SFH3/8" 150	K10211982173127	3/8"	20	1.0"	M8	150	41
D1.0" SFH1/2" 150	K10211983173127	1/2"	20	1.0"	M10	150	46
D1.0" SFH5/8" 150	K10211984173127	5/8"	22	1.0"	M12	150	49

Note: All Dimensions are in mm

Cylindrical Shank Shrink Fit Holder 4.5 Degree (Shrinking Extension) (SFH 4.5°)



Maximum Run out of the Internal Diameter with respect to the External Diameter 0.003 mm



(Shrinking Extension) (SFH 4.5°)

ITEM NAME	ITEM CODE	d	D1	D	G	L	L1
D32 SFH06 150	K10121277173127	6	21	32	M5	150	36
D32 SFH08 150	K10121285173127	8	21	32	M6	150	36
D32 SFH10 150	K10121279173127	10	24	32	M8	150	41
D32 SFH12 150	K10121280173127	12	24	32	M10	150	46
D32 SFH14 150	K10121284173127	14	27	32	M10	150	46
D32 SFH16 150	K10121281173127	16	27	32	M12	150	49
D32 SFH18 150	K10121282173127	18	27	32	M12	150	49
D32 SFH20 150	K10121283173127	20	27	32	M16	150	51

D32 SFH1/4" 150	K10121980173127	1/4"	21	32	M5	150	36
D32 SFH5/16" 150	K10121981173127	5/16"	21	32	M6	150	36
D32 SFH3/8" 150	K10121982173127	3/8"	24	32	M8	150	41
D32 SFH1/2" 150	K10121983173127	1/2"	24	32	M10	150	46
D32 SFH5/8" 150	K10121984173127	5/8"	27	32	M12	150	49
D32 SFH3/4" 150	K10121985173127	3/4"	27	32	M16	150	51

DIA 1 1/4" SFH06 150	K10222277173127	6	21	1-1/4"	M5	150	36
DIA 1 1/4" SFH08 150	K10222285173127	8	21	1-1/4"	M6	150	36
DIA 1 1/4" SFH10 150	K10222279173127	10	24	1-1/4"	M8	150	41
DIA 1 1/4" SFH12 150	K10222280173127	12	24	1-1/4"	M10	150	46
DIA 1 1/4" SFH14 150	K10222284173127	14	27	1-1/4"	M10	150	46
DIA 1 1/4" SFH16 150	K10222281173127	16	27	1-1/4"	M12	150	49
DIA 1 1/4" SFH18 150	K10222282173127	18	27	1-1/4"	M12	150	49
DIA 1 1/4" SFH20 150	K10222283173127	20	27	1-1/4"	M16	150	51

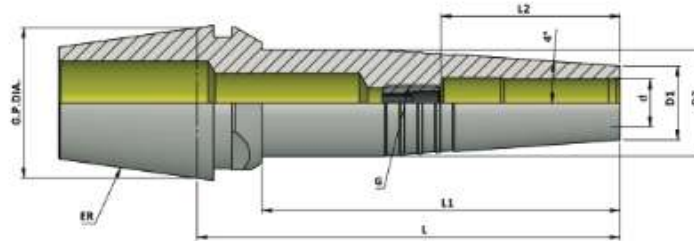
DIA 1 1/4" SFH1/4" 150	K10222980173127	1/4"	21	1-1/4"	M5	150	36
DIA 1 1/4" SFH5/16" 150	K10222981173127	5/16"	21	1-1/4"	M6	150	36
DIA 1 1/4" SFH3/8" 150	K10222982173127	3/8"	24	1-1/4"	M8	150	41
DIA 1 1/4" SFH1/2" 150	K10222983173127	1/2"	24	1-1/4"	M10	150	46
DIA 1 1/4" SFH5/8" 150	K10222984173127	5/8"	27	1-1/4"	M12	150	49
DIA 1 1/4" SFH3/4" 150	K10222985173127	3/4"	27	1-1/4"	M16	150	51

Note: All Dimensions are in mm

Shrink Fit Holder ER Series 4 Degree (ER - SFH 4°)



Maximum Run out of the Internal Diameter with respect to the External Taper 0.003 mm



Shrink Fit Holder ER Series 4 Degree (ER - SFH 4°)

ITEM NAME	ITEM CODE	ER	d	GP Dia	D1	D2	G	L	L1	L2
ER 16 SFH03 035	K10322274499521	ER16	3	16	10	12	-	43.10	36	12
ER 16 SFH04 035	K10322275527521	ER16	4	16	10	12	-	43.10	36	14
ER 16 SFH05 035	K10322276527521	ER16	5	16	10	12	-	43.10	36	15
ER 16 SFH06 035	K10322277527521	ER16	6	16	11	12	M5	43.10	36	36

ER 20 SFH03 035	K10324274499521	ER20	3	20	10	13.50	-	43.50	35	12
ER 20 SFH03 060	K10324274667521	ER20	3	20	10	13.50	-	68.50	60	12
ER 20 SFH04 035	K10324275527521	ER20	4	20	10	13.50	-	43.50	35	14
ER 20 SFH04 060	K10324275667521	ER20	4	20	10	13.50	-	68.50	60	14
ER 20 SFH05 035	K10324276527521	ER20	5	20	10	13.50	-	43.50	35	15
ER 20 SFH05 060	K10324276667521	ER20	5	20	10	13.50	-	68.50	60	15
ER 20 SFH06 035	K10324277527521	ER20	6	20	11	13.50	M5	43.50	35	36
ER 20 SFH06 060	K10324277667521	ER20	6	20	11	13.50	M5	68.50	60	36

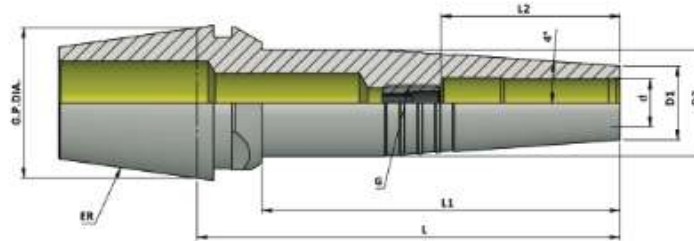
ER 25 SFH03 035	K10323274527521	ER25	3	25	10	13.50	-	44.00	35	12
ER 25 SFH03 060	K10323274667521	ER25	3	25	10	16.30	-	69.00	60	12
ER 25 SFH04 035	K10323275527521	ER25	4	25	10	13.50	-	44.00	35	14
ER 25 SFH04 060	K10323275667521	ER25	4	25	10	16.30	-	69.00	60	14
ER 25 SFH05 035	K10323276527521	ER25	5	25	10	13.50	-	44.00	35	15
ER 25 SFH05 060	K10323276667521	ER25	5	25	10	16.30	-	69.00	60	15
ER 25 SFH06 035	K10323277527521	ER25	6	25	11	14.70	M5	44.00	35	36
ER 25 SFH06 060	K10323277667521	ER25	6	25	11	17.30	M5	69.00	60	36
ER 25 SFH08 035	K10323285527521	ER25	8	25	14	17.80	M6	44.00	35	36
ER 25 SFH08 060	K10323285667521	ER25	8	25	14	17.90	M6	69.00	60	36

Note: All Dimensions are in mm

Shrink Fit Holder ER Series 4 Degree (ER - SFH 4°)



Maximum Run out of the Internal Diameter with respect to the External Taper 0.003 mm



Shrink Fit Holder ER Series 4 Degree (ER - SFH 4°)

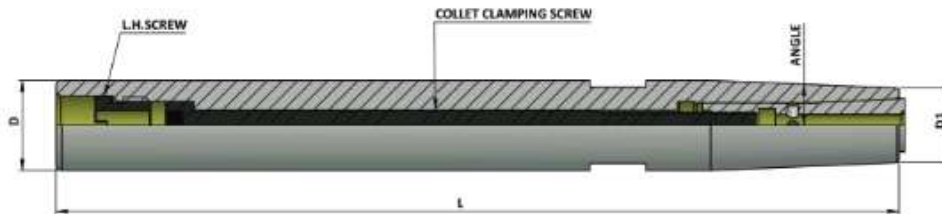
ITEM NAME	ITEM CODE	ER	d	GP Dia	D1	D2	G	L	L1	L2
ER 32 SFH03 035	K10325274527521	ER32	3	32	10	13.50	-	45.00	35	12
ER 32 SFH03 060	K10325274667521	ER32	3	32	10	16.30	-	70.00	60	12
ER 32 SFH03 085	K10325274135521	ER32	3	32	10	19.80	-	95.00	85	12
ER 32 SFH04 035	K10325276527521	ER32	4	32	10	13.50	-	45.00	35	14
ER 32 SFH04 060	K10325275667521	ER32	4	32	10	16.30	-	70.00	60	14
ER 32 SFH04 085	K10325275135521	ER32	4	32	10	19.80	-	95.00	85	14
ER 32 SFH05 035	K10325276369521	ER32	5	32	10	13.50	-	45.00	35	15
ER 32 SFH05 060	K10325276667521	ER32	5	32	10	16.30	-	70.00	60	15
ER 32 SFH05 085	K10325276135521	ER32	5	32	10	19.80	-	95.00	85	15
ER 32 SFH06 035	K10325277527521	ER32	6	32	11	14.70	M5	45.00	35	36
ER 32 SFH06 060	K10325277667521	ER32	6	32	11	17.30	M5	70.00	60	36
ER 32 SFH06 085	K10325277135521	ER32	6	32	11	20.80	M5	95.00	85	36
ER 32 SFH08 035	K10325285527521	ER32	8	32	14	18.95	M6	45.00	35	36
ER 32 SFH08 060	K10325285667521	ER32	8	32	14	20.40	M6	70.00	60	36
ER 32 SFH08 085	K10325285135521	ER32	8	32	14	23.20	M6	95.00	85	36
ER 32 SFH10 035	K10325279527521	ER32	10	32	16	20.80	M8	45.00	35	41
ER 32 SFH10 060	K10325279667521	ER32	10	32	16	22.40	M8	70.00	60	41
ER 32 SFH10 085	K10325279135521	ER32	10	32	16	23.00	M8	95.00	85	41
ER 32 SFH12 035	K10325280527521	ER32	12	32	20	24.00	M10	45.00	35	46
ER 32 SFH12 060	K10325280667521	ER32	12	32	20	24.00	M10	70.00	60	46
ER 32 SFH12 085	K10325275527521	ER32	12	32	20	24.00	M10	95.00	85	46

Note: All Dimensions are in mm

Cylindrical Shank Die & Mould Chuck (DMC)



Maximum Run out of the Internal Diameter with respect to the External Diameter 0.005 mm



Cylindrical (DMC)

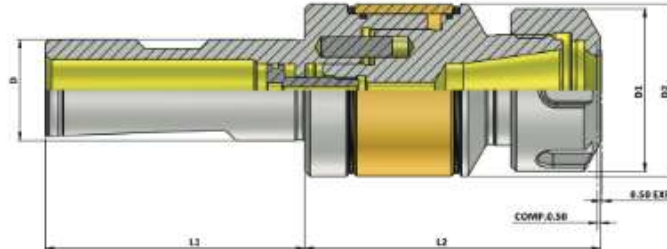
ITEM NAME	ITEM CODE	GRIPPING RANGE	D	D1	L	ANGLE	SUITABLE COLLET	SCREW	ALLEN KEY
D16 DMC 06 L 150	K10118161236127	3-6	16	14	150	3	DMC-6	M5	4X200
D 20 DMC 06 L 200	K10119161237127	3-6	20	14	200	3	DMC-6	M5	4X200
D 25 DMC 06 L 250	K10120161256127	3-6	25	14	250	3	DMC-6	M5	4X200
D5/8" DMC 06 L150 -	K10209161528127	3-6	5/8"	14	150	3	DMC-6	M5	4X200
D3/4" DMC 06 L200 -	K10210161239127	3-6	3/4"	14	200	3	DMC-6	M5	4X200
D1.0" DMC 06 L250 -	K10210161182127	3-6	1.0"	14	250	3	DMC-6	M5	4X200
D20 DMC 08 L 150	K10119162236127	3-8	20	19	150	3	DMC-8	M6	5X200
D20 DMC 08 L 200	K10119162237127	3-8	20	19	200	3	DMC-8	M6	5X200
D3/4" DMC 08 L150 -	K10210162173127	3-8	3/4"	19	150	3	DMC-8	M6	5X200
D3/4" DMC 08 L200 -	K10210162239127	3-8	3/4"	19	200	3	DMC-8	M6	5X200
D25 DMC 10 L 150	K10120163236127	3-10	25	24	150	-	DMC-10	M8	6X200
D25 DMC 10 L 200	K10120163237127	3-10	25	24	200	-	DMC-10	M8	6X200
D25 DMC 10 L 250	K10120163256127	3-10	25	24	250	-	DMC-10	M8	6X200
D1.0" DMC 10 L150 -	K10211163173127	3-10	1.0"	24	150	-	DMC-10	M8	6X200
D1.0" DMC 10 L200 -	K10211163239127	3-10	1.0"	24	200	-	DMC-10	M8	6X200
D1.0" DMC 10 L250 -	K10116163491521	3-10	1.0"	24	250	-	DMC-10	M8	6X200

Note: All Dimensions are in mm

Cylindrical Shank (DIN 1835 B+E) Minimum Length Compensation Tapping Chuck (MLC)



Maximum Run out of the Internal Taper with respect to the External Diameter 0.020 mm

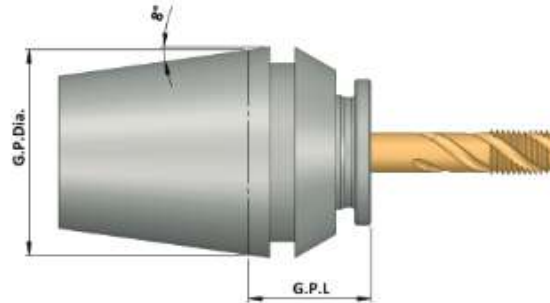


Cylindrical Shank (DIN 1835 B+E) (MLC)

ITEM NAME	ITEM CODE	TAPPING RANGE	CLAMPING RANGE	NUT SIZE	D	D1	D2	L1	L2	COMP.	EXP.
D20 ER 11M L 68 MLC	K10119156561245	M2-M6	2.5-6	ER11M	20	16	32.5	51	68	0.4	0.4
D20 ER 16M L 58 MLC	K10119157552245	M3-M12	3.5-10	ER16M	20	22	34	51	58	0.5	0.5
D20 ER 16 L 58 MLC	K10119149552245	M3-M12	3.5-10	ER16	20	32	34	51	58	0.5	0.5
D3/4" ER11M L 68 MLC	K10210156561245	M2-M6	2.5-6	ER11M	3/4"	16	32.5	51	68	0.4	0.4
D3/4" ER 16M L 58 MLC	K10210157552245	M3-M12	3.5-10	ER16M	3/4"	22	34	51	58	0.5	0.5
D3/4" ER 16 L 58 MLC	K10210692552245	M3-M12	3.5-10	ER16	3/4"	32	34	51	58	0.5	0.5
D25 ER 11M L 68 MLC	K10119156342245	M2-M6	2.5-6	ER11M	25	16	32.5	56	68	0.4	0.4
D25 ER 16M L 60 MLC	K10120157117245	M3-M12	3.5-10	ER16M	25	22	34	56	60	0.5	0.5
D25 ER 16 L 60 MLC	K10120149542245	M3-M12	3.5-10	ER16	25	32	34	56	60	0.5	0.5
D25 ER 20 L 61 MLC	K10120150561245	M3-M16	3.5-12	ER20	25	35	34	56	61	0.5	0.5
D25 ER 25 L 65 MLC	K10120151553245	M3-M20	3.5-16	ER25	25	42	34	56	65	0.5	0.5
D25 ER 32 L 87 MLC	K10120152555245	M4-M27	3.5-20	ER32	25	50	45	56	87	0.5	0.5
D1.0" ER11M L 68 MLC	K10211156561245	M2-M6	2.5-6	ER11M	1.0"	16	32.5	56	68	0.4	0.4
D1.0" ER 16M L 060 MLC	K10211157542245	M3-M12	3.5-10	ER16M	1.0"	22	34	56	60	0.5	0.5
D1.0" ER 16 L 060 MLC	K10211149542245	M3-M12	3.5-10	ER16	1.0"	32	34	56	60	0.5	0.5
D1.0" ER 20 L 61 MLC	K10211150561245	M3-M16	3.5-12	ER20	1.0"	35	34	56	61	0.5	0.5
D1.0" ER 25 L 65 MLC	K10211151561245	M3-M20	3.5-16	ER25	1.0"	42	34	56	65	0.5	0.5
D1.0" ER 32 L 87 MLC	K10211152561245	M4-M27	3.5-20	ER32	1.0"	50	45	56	87	0.5	0.5
D32 ER 40 L 108.5 MLC	K10121153119245	M6-M33	6-25	ER40	32	63	62	61	108.5	0.5	0.5
D1 1/4" ER 40 L 108.50 MLC	K10222153561245	M6-M33	6-25	ER40	1-1/4"	63	62	61	108.5	0.5	0.5

Note: All Dimensions are in mm

Quick Change tap Collet ER Type (Rigid) (QCTC-ER) Technical Information



ITEM NAME	G.P. Dia	G.P.L.	Tap Holding Range Dia. X Sq		Tapping Range
			Min	Max	
QCTC ER16	16.00	14.00	Φ3.15 x 2.50 SQ.	Φ6.30 x 5.00 SQ.	M3 TO M8
QCTC ER20	20.00	15.50	Φ3.15 x 2.50 SQ.	Φ7.10 x 5.60 SQ.	M3 TO M10
QCTC ER25	25.00	16.00	Φ3.15 x 2.50 SQ.	Φ10.00 x 8.00 SQ.	M3 TO M12
QCTC ER32	32.00	20.00	Φ3.15 x 2.50 SQ.	Φ14.00 x 11.20 SQ.	M3 TO M20
QCTC ER40	40.00	22.00	Φ3.15 x 2.50 SQ.	Φ18.00 x 14.50 SQ.	M3 TO M24

QCTC ER16	16.00	14.00	Φ0.141" x 0.110" SQ.	Φ0.255" x 0.191" SQ.	1/8" No.6 TO 1/4" No.14
QCTC ER20	20.00	15.50	Φ0.141" x 0.110" SQ.	Φ0.255" x 0.191" SQ.	1/8" No.6 TO 1/4" No.14
QCTC ER25	25.00	16.00	Φ0.141" x 0.110" SQ.	Φ0.381" x 0.286" SQ.	1/8" No.6 TO 3/8"
QCTC ER32	32.00	20.00	Φ0.141" x 0.110" SQ.	Φ0.563" x 0.421" SQ.	1/8" No.6 TO 1/4"Ps
QCTC ER40	40.00	22.00	Φ0.141" x 0.110" SQ.	Φ0.700" x 0.531" SQ.	1/8" No.6 TO 3/8"Ps

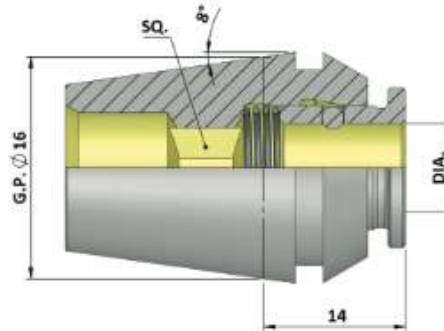
Features :

- This System is to be used along with "ER" Collet Chuck on CNC & spm's for Rigid Tapping Operation .
- No Compression & No Expansion .
- Use External Coolant Supply .
- Rigid Clamping & Quick Replace of Tap .
- Tap Collet Selection According to the ER type & the Diameter & Square of the Tap

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 16)



AS PER (ISO) (529-1975) STANDARDS

ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 16 3.15 X 2.50	K11259304297	3.15	2.50
QCTC ER 16 3.55 X 2.80	K11259304298	3.55	2.80
QCTC ER 16 4.0 X 3.15	K11259304300	4.00	3.15
QCTC ER 16 4.50 X 3.55	K11259304299	4.50	3.55
QCTC ER 16 5.0 X 4.0	K11259304301	5.00	4.00
QCTC ER 16 5.60 X 4.50	K11259304302	5.60	4.50
QCTC ER 16 6.3 X 5.0	K11259304291	6.30	5.00

AS PER (DIN) STANDARDS

QCTC ER 16 3.5 X 2.7	K11259304276	3.50	2.70
QCTC ER 16 4.0 X 3.0	K11259304277	4.00	3.00
QCTC ER 16 4.5 X 3.4	K11259304278	4.50	3.40
QCTC ER 16 6.0 X 4.9	K11259304279	6.00	4.90

AS PER (JIS) STANDARDS

QCTC ER 16 4.0 X 3.0	K11259304277	4.00	3.00
QCTC ER 16 4.0 X 3.20	K11259304306	4.00	3.20
QCTC ER 16 5.0 X 4.0	K11259304301	5.00	4.00
QCTC ER 16 5.5 X 4.50	K11259238307	5.50	4.50
QCTC ER 16 6.0 X 4.50	K11259304308	6.00	4.50
QCTC ER 16 6.10 X 5.0	K11259304309	6.10	5.00
QCTC ER 16 6.20 X 5.0	K11259304310	6.20	5.00

AS PER (ANSI) US STANDARDS

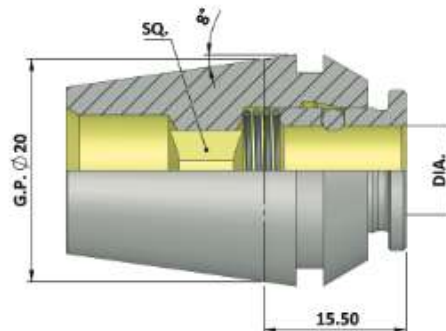
QCTC E16 0.141" X 0.110"	K10317355101127	0.141"	0.110"
QCTC E16 0.168" X 0.131"	K10317355102127	0.168"	0.131"
QCTC E16 0.194" X 0.152"	K10317355103127	0.194"	0.152"
QCTC E16 0.220" X 0.165"	K10317355104127	0.220"	0.165"
QCTC E16 0.255" X 0.191"	K10317355105127	0.255"	0.191"

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 20)



AS PER (ISO) (529-1975) STANDARDS

ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 20 3.15 X 2.50	K11259305297	3.15	2.50
QCTC ER 20 3.55 X 2.80	K11259305298	3.55	2.80
QCTC ER 20 4.0 X 3.15	K11259305300	4.00	3.15
QCTC ER 20 4.50 X 3.55	K11259305299	4.50	3.55
QCTC ER 20 5.0 X 4.0	K11259305301	5.00	4.00
QCTC ER 20 5.60 X 4.50	K11259305302	5.60	4.50
QCTC ER 20 6.3 X 5.0	K11259305291	6.30	5.00
QCTC ER 20 7.10 X 5.60	K11259305292	7.10	5.60

AS PER (DIN) STANDARDS

QCTC ER 20 3.5 X 2.7	K11259305276	3.50	2.70
QCTC ER 20 4.0 X 3.0	K11259305277	4.00	3.00
QCTC ER 20 4.5 X 3.4	K11259305278	4.50	3.40
QCTC ER 20 6.0 X 4.9	K11259305279	6.00	4.90
QCTC ER 20 7.0 X 5.5	K11259305280	7.00	5.50

AS PER (JIS) STANDARDS

QCTC ER 20 4.0 X 3.0	K11259305277	4.00	3.00
QCTC ER 20 4.0 X 3.20	K11259305306	4.00	3.20
QCTC ER 20 5.0 X 4.0	K11259305301	5.00	4.00
QCTC ER 20 5.50 X 4.50	K11259305307	5.50	4.50
QCTC ER 20 6.0 X 4.50	K11259305308	6.00	4.50
QCTC ER 20 6.10 X 5.0	K11259305309	6.10	5.00
QCTC ER 20 6.20 X 5.0	K11259305310	6.20	5.00
QCTC ER 20 7.0 X 5.5	K11259305280	7.00	5.50

AS PER (ANSI) US STANDARDS

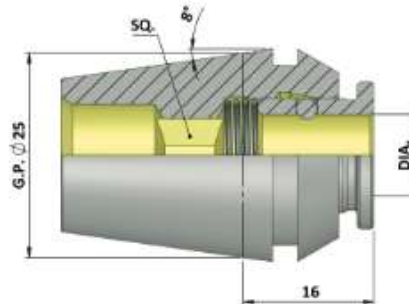
QCTC ER 20 0.141" X 0.110"	K10317150101521	0.141"	0.110"
QCTC ER 20 0.168" X 0.131"	K10317150102521	0.168"	0.131"
QCTC ER 20 0.194" X 0.152"	K10317150103521	0.194"	0.152"
QCTC ER 20 0.220" X 0.165"	K10317150104521	0.220"	0.165"
QCTC ER 20 0.255" X 0.191"	K10317356105127	0.255"	0.191"

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 25)



AS PER (ISO) (529-1975) STANDARDS

ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 25 3.15 X 2.50	K11259306297	3.15	2.50
QCTC ER 25 3.55 X 2.80	K11259306298	3.55	2.80
QCTC ER 25 4.0 X 3.15	K11259306300	4.00	3.15
QCTC ER 25 4.50 X 3.55	K11259306299	4.50	3.55
QCTC ER 25 5.0 X 4.0	K11259306301	5.00	4.00
QCTC ER 25 5.60 X 4.50	K11259306302	5.60	4.50
QCTC ER 25 6.3 X 5.0	K11259306291	6.30	5.00
QCTC ER 25 7.1 X 5.6	K11259306292	7.10	5.60
QCTC ER 25 8.0 X 6.30	K11259306303	8.00	6.30
QCTC ER 25 9.0 X 7.10	K11259306304	9.00	7.10
QCTC ER 25 10.0 X 8.0	K11259306283	10.00	8.00

AS PER (DIN) STANDARDS

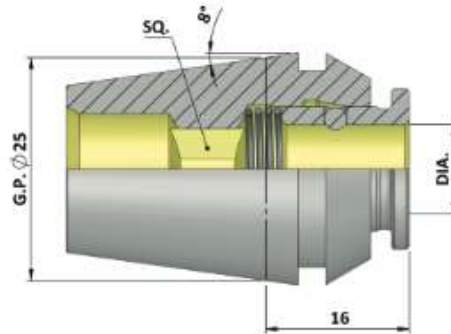
QCTC ER 25 3.5 X 2.7	K11259306276	3.50	2.70
QCTC ER 25 4.0 X 3.0	K11259306277	4.00	3.00
QCTC ER 25 4.5 X 3.4	K11259306278	4.50	3.40
QCTC ER 25 6.0 X 4.9	K11259306279	6.00	4.90
QCTC ER 25 7.0 X 5.5	K11259306280	7.00	5.50
QCTC ER 25 8.0 X 6.2	K11259306281	8.00	6.20
QCTC ER 25 9.0 X 7.0	K11259306282	9.00	7.00
QCTC ER 25 10.0 X 8.0	K11259306283	10.00	8.00

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 25)



AS PER (JIS) STANDARDS

ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 25 4.0 X 3.0	K11259306277	4.00	3.00
QCTC ER 25 4.0 X 3.20	K11259306306	4.00	3.20
QCTC ER 25 5.0 X 4.0	K11259306301	5.00	4.00
QCTC ER 25 5.50 X 4.50	K11259306307	5.50	4.50
QCTC ER 25 6.0 X 4.50	K11259306308	6.00	4.50
QCTC ER 25 6.10 X 5.0	K11259306309	6.10	5.00
QCTC ER 25 6.20 X 5.0	K11259306310	6.20	5.00
QCTC ER 25 7.0 X 5.5	K11259306280	7.00	5.50
QCTC ER 25 8.0 X 6.0	K11259306311	8.00	6.00
QCTC ER 25 8.0 X 6.2	K11259306281	8.00	6.20
QCTC ER 25 8.50 X 6.50	K11259306312	8.50	6.50
QCTC ER 25 9.0 X 7.0	K11259306282	9.00	7.00

AS PER (ANSI) US STANDARDS

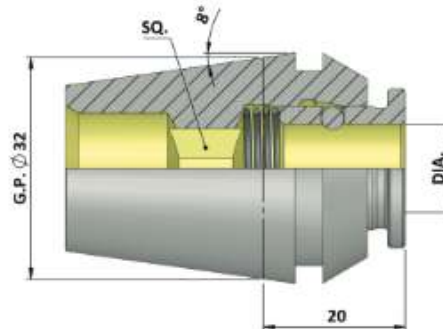
QCTC ER25 0.141" X 0.110"	K10317635101521	0.141"	0.110"
QCTC ER25 0.168" X 0.131"	K10317635102521	0.168"	0.131"
QCTC ER25 0.194" X 0.152"	K10317635103521	0.194"	0.152"
QCTC ER25 0.220" X 0.165"	K10317635104521	0.220"	0.165"
QCTC ER25 0.255" X 0.191"	K10317635105521	0.255"	0.191"
QCTC ER25 0.313" X 0.234"	K10317635106521	0.313"	0.234"
QCTC ER25 0.318" X 0.238"	K10317635107521	0.318"	0.238"
QCTC ER25 0.323" X 0.242"	K10317635108521	0.323"	0.242"
QCTC ER25 0.367" X 0.275"	K10317635109521	0.367"	0.275"
QCTC ER25 0.381" X 0.286"	K10317635121521	0.381"	0.286"

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 32)



AS PER (ISO) (529-1975) STANDARDS			
ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 32 3.15 X 2.50	K11259307297	3.15	2.50
QCTC ER 32 3.55 X 2.80	K11259307298	3.55	2.80
QCTC ER 32 4.0 X 3.15	K11259307300	4.00	3.15
QCTC ER 32 4.50 X 3.55	K11259307299	4.50	3.55
QCTC ER 32 5.0 X 4.0	K11259307301	5.00	4.00
QCTC ER 32 5.60 X 4.50	K11259307302	5.60	4.50
QCTC ER 32 6.3 X 5.0	K11259307291	6.30	5.00
QCTC ER 32 7.10 X 5.60	K11259307292	7.10	5.60
QCTC ER 32 8.0 X 6.30	K11259307303	8.00	6.30
QCTC ER 32 9.0 X 7.10	K11259307304	9.00	7.10
QCTC ER 32 10.0 X 8.0	K11259307283	10.00	8.00
QCTC ER 32 11.2 X 9.0	K11259307293	11.20	9.00
QCTC ER 32 12.5 X 10.0	K11259307294	12.50	10.00
QCTC ER 32 14.0 X 11.20	K11259307305	14.00	11.20

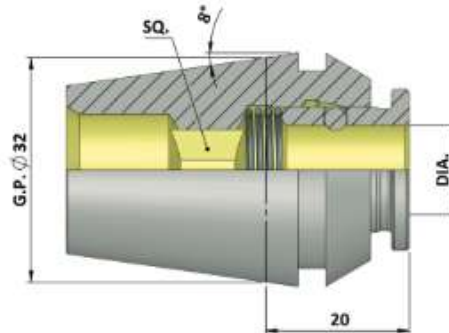
AS PER (DIN) STANDARDS			
QCTC ER 32 3.5 X 2.7	K11259307276	3.50	2.70
QCTC ER 32 4.0 X 3.0	K11259307277	4.00	3.00
QCTC ER 32 4.5 X 3.4	K11259307278	4.50	3.40
QCTC ER 32 6.0 X 4.9	K11259307279	6.00	4.90
QCTC ER 32 7.0 X 5.5	K11259307280	7.00	5.50
QCTC ER 32 8.0 X 6.2	K11259307281	8.00	6.20
QCTC ER 32 9.0 X 7.0	K11259307287	9.00	7.00
QCTC ER 32 10.0 X 8.0	K11259307283	10.00	8.00
QCTC ER 32 11.0 X 9.0	K11259307284	11.00	9.00
QCTC ER 32 12.0 X 9.0	K11259307285	12.00	9.00
QCTC ER 32 14.0 X 11.0	K11259307286	14.00	11.00

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 32)



AS PER (JIS) STANDARDS

ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 32 4.0 X 3.0	K11259307277	4.00	3.00
QCTC ER 32 4.0 X 3.20	K11259307306	4.00	3.20
QCTC ER 32 5.0 X 4.0	K11259307301	5.00	4.00
QCTC ER 32 5.50 X 4.50	K11259307307	5.50	4.50
QCTC ER 32 6.0 X 4.50	K11259307308	6.00	4.50
QCTC ER 32 6.10 X 5.0	K11259307309	6.10	5.00
QCTC ER 32 6.20 X 5.0	K11259307310	6.20	5.00
QCTC ER 32 7.0 X 5.5	K11259307280	7.00	5.50
QCTC ER 32 8.0 X 6.0	K11259307311	8.00	6.00
QCTC ER 32 8.0 X 6.2	K11259307281	8.00	6.20
QCTC ER 32 8.50 X 6.50	K11259307312	8.50	6.50
QCTC ER 32 9.0 X 7.0	K11259307287	9.00	7.00
QCTC ER 32 10.50 X 8.0	K11259307313	10.50	8.00
QCTC ER 32 11.0 X 9.0	K11259307284	11.00	9.00
QCTC ER 32 12.0 X 9.0	K11259307285	12.00	9.00
QCTC ER 32 12.5 X 10.0	K11259307294	12.50	10.00
QCTC ER 32 14.0 X 11.0	K11259307286	14.00	11.00

AS PER (ANSI) US STANDARDS

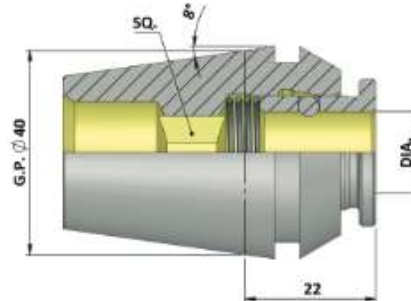
QCTC ER 32 0.141" X 0.110"	K10317152101521	0.141"	0.110"
QCTC ER 32 0.168" X 0.131"	K10317152102521	0.168"	0.131"
QCTC ER 32 0.194" X 0.152"	K10317152103521	0.194"	0.152"
QCTC ER 32 0.220" X 0.165"	K10317152104521	0.220"	0.165"
QCTC ER 32 0.255" X 0.191"	K10317152105521	0.255"	0.191"
QCTC ER 32 0.313" X 0.234"	K10317152106521	0.313"	0.234"
QCTC ER 32 0.318" X 0.238"	K10317152107521	0.318"	0.238"
QCTC ER 32 0.323" X 0.242"	K10317152108521	0.323"	0.242"
QCTC ER 32 0.367" X 0.275"	K10317152109521	0.367"	0.275"
QCTC ER 32 0.381" X 0.286"	K10317152121521	0.381"	0.286"
QCTC ER 32 0.429" X 0.322"	K10317152111521	0.429"	0.322"
QCTC ER 32 0.438" X 0.328"	K10317152112521	0.438"	0.328"
QCTC ER 32 0.480" X 0.360"	K10317152113521	0.480"	0.360"
QCTC ER 32 0.542" X 0.406"	K10317152114521	0.542"	0.406"
QCTC ER 32 0.563" X 0.421"	K10317152115521	0.563"	0.421"

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 40)



AS PER (ISO) (529-1975) STANDARDS

ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 40 3.15 X 2.5	K11259308297	3.15	2.50
QCTC ER 40 3.55 X 2.8	K11259308298	3.55	2.80
QCTC ER 40 4.0 X 3.15	K11259308300	4.00	3.15
QCTC ER 40 4.50 X 3.55	K11259308299	4.50	3.55
QCTC ER 40 5.0 X 4.0	K11259308301	5.00	4.00
QCTC ER 40 5.60 X 4.50	K11259308302	5.60	4.50
QCTC ER 40 6.30 X 5.00	K11259308291	6.30	5.00
QCTC ER 40 7.10 X 5.6	K11259308292	7.10	5.60
QCTC ER 40 8.0 X 6.3	K11259308303	8.00	6.30
QCTC ER 40 9.0 X 7.10	K11259308304	9.00	7.10
QCTC ER 40 10.0 X 8.0	K11259308283	10.00	8.00
QCTC ER 40 11.2 X 9.0	K11259308293	11.20	9.00
QCTC ER 40 12.5 X 10.0	K11259308294	12.50	10.00
QCTC ER 40 14.0 X 11.20	K11259308286	14.00	11.20
QCTC ER 40 16.0 X 12.5	K11259308295	16.00	12.50
QCTC ER 40 18.0 X 14.0	K11259308289	18.00	14.00

AS PER (DIN) STANDARDS

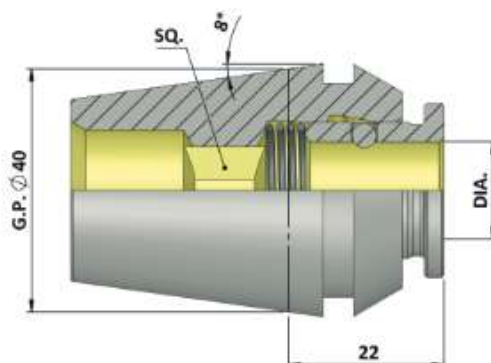
QCTC ER 40 3.5 X 2.7	K11259308276	3.50	2.70
QCTC ER 40 4.0 X 3.0	K11259308277	4.00	3.00
QCTC ER 40 4.5 X 3.4	K11259308278	4.50	3.40
QCTC ER 40 6.0 X 4.9	K11259308279	6.00	4.90
QCTC ER 40 7.0 X 5.5	K11259308280	7.00	5.50
QCTC ER 40 8.0 X 6.2	K11259308281	8.00	6.20
QCTC ER 40 9.0 X 7.0	K11259308282	9.00	7.00
QCTC ER 40 10.0 X 8.0	K11259308283	10.00	8.00
QCTC ER 40 11.0 X 9.0	K11259308284	11.00	9.00
QCTC ER 40 12.0 X 9.0	K11259308285	12.00	9.00
QCTC ER 40 14.0 X 11.0	K11259240286	14.00	11.00
QCTC ER 40 16.0 X 12.0	K11259308288	16.00	12.00
QCTC ER 40 18.0 X 14.5	K11259308296	18.00	14.50

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



(QCTC - ER 40)



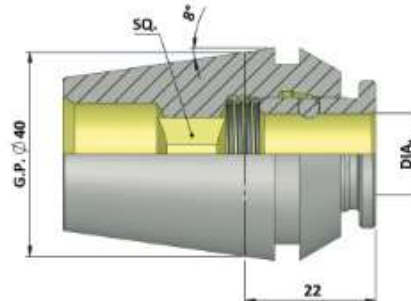
AS PER (JIS) STANDARDS			
ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 40 4.0 X 3.0	K11259308277	4.00	3.00
QCTC ER 40 4.0 X 3.20	K11259308306	4.00	3.20
QCTC ER 40 5.0 X 4.0	K11259308301	5.00	4.00
QCTC ER 40 5.50 X 4.50	K11259308307	5.50	4.50
QCTC ER 40 6.0 X 4.5	K11259308308	6.00	4.50
QCTC ER 40 6.10 X 5.00	K11259308309	6.10	5.00
QCTC ER 40 6.20 X 5.00	K11259308310	6.20	5.00
QCTC ER 40 7.0 X 5.5	K11259308280	7.00	5.50
QCTC ER 40 8.0 X 6.0	K11259308311	8.00	6.00
QCTC ER 40 8.0 X 6.2	K11259308281	8.00	6.20
QCTC ER 40 8.5 X 6.5	K11259308312	8.50	6.50
QCTC ER 40 9.0 X 7.0	K11259308282	9.00	7.00
QCTC ER 40 10.5 X 8.0	K11259308313	10.50	8.00
QCTC ER 40 11.0 X 9.0	K11259308284	11.00	9.00
QCTC ER 40 12.0 X 9.0	K11259308285	12.00	9.00
QCTC ER 40 12.5 X 10.0	K11259308294	12.50	10.00
QCTC ER 40 13.0 X 10.0	K11259308314	13.00	10.00
QCTC ER 40 14.0 X 11.0	K11259240286	14.00	11.00
QCTC ER 40 15.0 X 12.0	K11259308315	15.00	12.00
QCTC ER 40 16.0 X 12.0	K11259308288	16.00	12.00
QCTC ER 40 18.0 X 14.0	K11259308289	18.00	14.00

Note: All Dimensions are in mm

Quick Change Tap Collet ER Type (Rigid) (QCTC-ER)



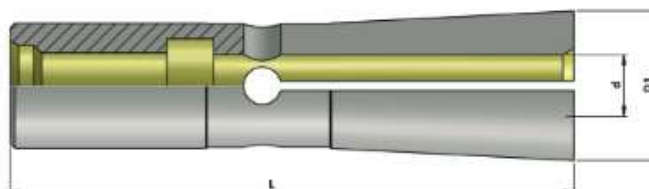
(QCTC - ER 40)



AS PER (ANSI) US STANDARDS			
ITEM NAME	ITEM CODE	DIA	SQUARE
QCTC ER 40 0.141" X 0.110"	K10317153101521	0.141"	0.110"
QCTC ER 40 0.168" X 0.131"	K10317153102521	0.168"	0.131"
QCTC ER 40 0.194" X 0.152"	K10317153103521	0.194"	0.152"
QCTC ER 40 0.220" X 0.165"	K10317153104521	0.220"	0.165"
QCTC ER 40 0.255" X 0.191"	K10317153105521	0.255"	0.191"
QCTC ER 40 0.313" X 0.234"	K10317153106521	0.313"	0.234"
QCTC ER 40 0.318" X 0.238"	K10317153107521	0.318"	0.238"
QCTC ER 40 0.323" X 0.242"	K10317153108521	0.323"	0.242"
QCTC ER 40 0.367" X 0.275"	K10317153109521	0.367"	0.275"
QCTC ER 40 0.381" X 0.286"	K10317153121521	0.381"	0.286"
QCTC ER 40 0.429" X 0.322"	K10317153111521	0.429"	0.322"
QCTC ER 40 0.438" X 0.328"	K10317153112521	0.438"	0.328"
QCTC ER 40 0.480" X 0.360"	K10317153113521	0.480"	0.360"
QCTC ER 40 0.542" X 0.406"	K10317153114521	0.542"	0.406"
QCTC ER 40 0.563" X 0.421"	K10317153115521	0.563"	0.421"
QCTC ER 40 0.590" X 0.442"	K10317153116521	0.590"	0.442"
QCTC ER 40 0.652" X 0.489"	K10317153122521	0.652"	0.489"
QCTC ER 40 0.688" X 0.515"	K10317153118521	0.688"	0.515"
QCTC ER 40 0.697" X 0.523"	K10317153119521	0.697"	0.523"
QCTC ER 40 0.700" X 0.531"	K10317153120521	0.700"	0.531"

Note: All Dimensions are in mm

COLLET DMC



COLLET DMC		(Concentricity within 0.005 mm)		
ITEM NAME	ITEM CODE	d	D1	L
COLLET DMC06 02	K10108199301127	2	9.6	36
COLLET DMC06 03	K10108200301127	3	9.6	36
COLLET DMC06 04	K10108201301127	4	9.6	36
COLLET DMC06 05	K10108202301127	5	9.6	36
COLLET DMC06 06	K10108203301127	6	9.6	36
COLLET DMC06 1/8" (3.175 MM)	K10108524301127	1/8"	9.6	36
COLLET DMC06 3/16" (4.76 MM)	K10108499877521	3/16"	9.6	36
COLLET DMC06 1/4 " (6.35 MM)	K10108523877521	1/4"	9.6	36
COLLET DMC08 03	K10109200301127	3	15	45
COLLET DMC08 04	K10109201301127	4	15	45
COLLET DMC08 06	K10109203301127	6	15	45
COLLET DMC08 08	K10109205301127	8	15	45
COLLET DMC10 03	K10110200301127	3	19.1	52
COLLET DMC10 04	K10110201301127	4	19.1	52
COLLET DMC10 06	K10110203301127	6	19.1	52
COLLET DMC10 08	K10110205301127	8	19.1	52
COLLET DMC10 10	K10110207301127	10	19.1	52

Note: All Dimensions are in mm

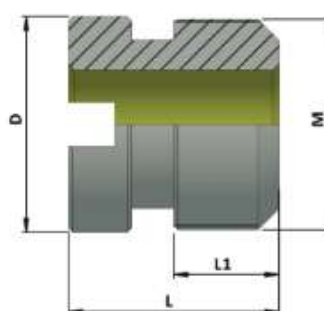
ALLEN CAP SCREW



ALLEN CAP SCREW FOR DMC HOLDERS

ITEM NAME	ITEM CODE	L	M	HEX
ALLEN CAP SCREW M5 X 25MM FOR DMC 06	K10290927301127	25	M5	4
ALLEN CAP SCREW M5 X 40MM FOR DMC 06	K10290688301127	40	M5	4
ALLEN CAP SCREW M5 X 70MM FOR DMC 06	K10290589301127	70	M5	4
ALLEN CAP SCREW M5 X 100MM FOR DMC 06	K10191201476248	100	M5	4
ALLEN CAP SCREW M6 X 30MM FOR DMC 08	K10290931301127	30	M6	5
ALLEN CAP SCREW M6 X 40MM FOR DMC 08	K10290928301127	40	M6	5
ALLEN CAP SCREW M6 X 70MM FOR DMC 08	K10290929301127	70	M6	5
ALLEN CAP SCREW M6 X 100MM FOR DMC 08	K10290930301127	100	M6	5
ALLEN CAP SCREW M8 X 30MM FOR DMC 10	K10290926301127	30	M8	6

LEFT HAND SPECIAL SCREW FOR DMC HOLDERS

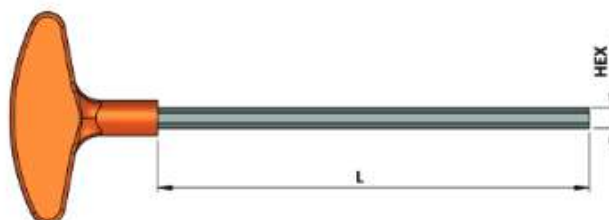


Left Hand Special Screw For DMC Holders

ITEM NAME	ITEM CODE	D	L	L1	M
DMC-06 M10 X 1.5P LH.SPL.SCREW	K10102121115110	10	10	5	M10X1.50
DMC-08 M12 X 1.5P LH.SPL.SCREW	K10102121148110	12	10	5	M12X1.50
DMC-10 M16 X 1.5P LH.SPL.SCREW	K10101458357110	16	13	7	M16X1.50

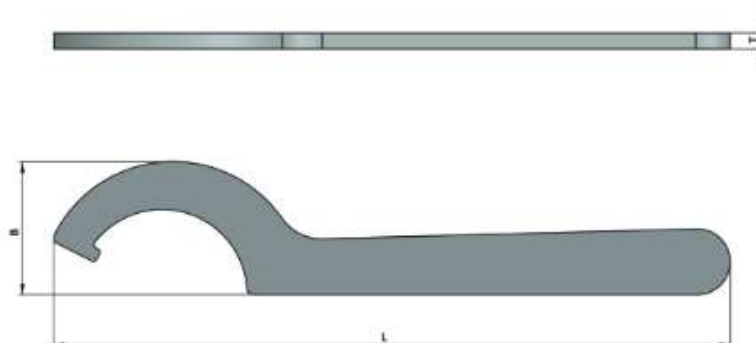
Note: All Dimensions are in mm

ALLEN KEY FOR DMC HOLDERS



ALLEN KEY FOR DMC HOLDERS			
ITEM NAME	ITEM CODE	HEX (mm)	L
ALLEN KEY 4 X 200MM FOR DMC 06	K10344687301127	4	200
ALLEN KEY 5 X 200MM FOR DMC 08	K10344943301127	5	200
ALLEN KEY 6 X 200MM FOR DMC 10	K10344944301127	6	200

SPANNER FOR POWER MILLING CHUCK



Spanner For (PMC)					
Item Name	Item Code	T	B	L	Suitable Chuck
SPANNER C-20	K10184445301127	6	42.5	216	PMC C-20
SPANNER C-32	K10184446301127	6	53	288	PMC C-32

Note: All Dimensions are in mm

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



KTA SPINDLE TOOLINGS is one of Largest Manufacturer of Complete Toolholding Systems founded in 1985 by Mr. Vijay Z. Chopda, who has striven to create "Precision at its Best" products using world's latest technology upgradation available from time to time. 1st Indian Toolholding Company to have its subsidiary "HPCHO GmbH" in Weilheim /Bavaria, GERMANY, established in 2013. Now KTA SPINDLE TOOLINGS is 1st Company based in India who is equipped with Complete Toolholding Systems (Hydraulic, Shrinking, Tapping Holder, Mechanical, accessories) KTA Spindle Toolings is considered as a precision manufacturer of Toolholders having more than 4700 catalog products with most of them ex-stock at Pune, India and Weilheim, Germany.

KTA is leading private label supplier of Toolholding systems to many OEM in Europe and India along with leading catalog house. KTA has complete program of Toolholding and accessories comprises of more than 4700 products. KTA has its presence in more than 22 countries with highest business share from • Germany • U.S.A • United Kingdom • Taiwan Australia • Mexico • France • Italy • Korea • Singapore • Malaysia • Canada • Brazil • Netherlands • Hungary • Spain and others. Customers belongs to different Industries such as Automotive, General Engineering, Die & Mould, Aerospace, Power Generation. Today the company is moving ahead to become a leading global player in Toolholding Industry under dynamic leadership of Mr. Vipul V. Chopda.



KTA SPINDLE TOOLINGS

(A Tool Holder Company since 1985)

Plot No:246/9, Hinjawadi Phase – II Road, Tal. Mulshi, Dist. Pune – 411 057. (Maharashtra) India.
For Sales Enquiry : 93077 23930 / 98817 47423

For Domestic Market (INDIA) :

sales@ktaspindletoolings.com / marketing@ktaspindletoolings.com

For International Market Exports :

nidhi@ktaspindletoolings.com / exports1@ktaspindletoolings.com