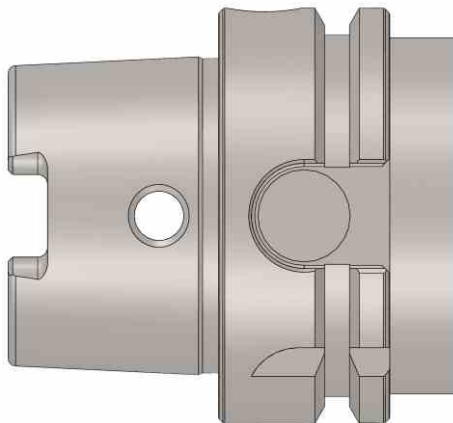
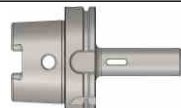
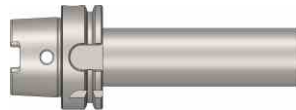


Precision Tool Holders

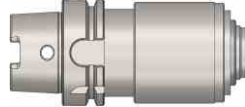
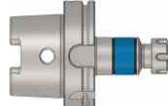
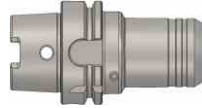
HSK-A (DIN 69893-1)

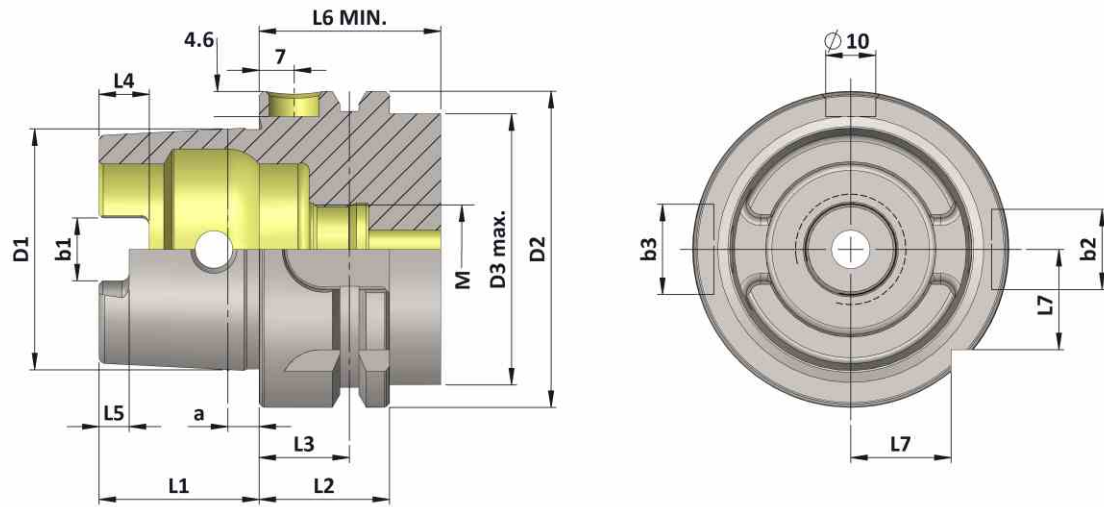


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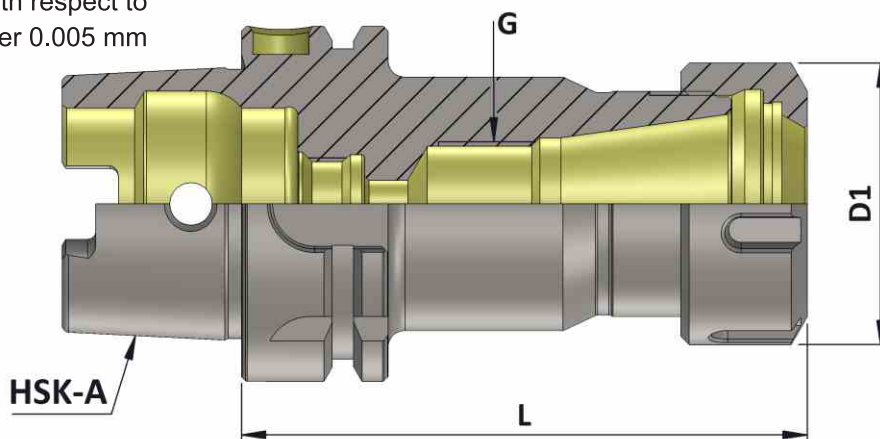
HSK-A	D1	D2	D3	a	b1	b2	b3	M	L1	L2	L3	L4	L5	L6	L7
50	38	50	42	5.0	10.54	12	14	M16X1	25	26	18	7.5	4.5	42	15.5
63	48	63	53	6.3	12.54	16	18	M18X1	32	26	18	10.0	6.0	42	20
100	75	100	85	10.0	20.02	20	22	M24X1.5	50	29	20	15.0	10.0	45	31.5

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 :- Taper Angle Class AT 3

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



HSK-A (DIN 69893-1) Collet Chuck (ER)

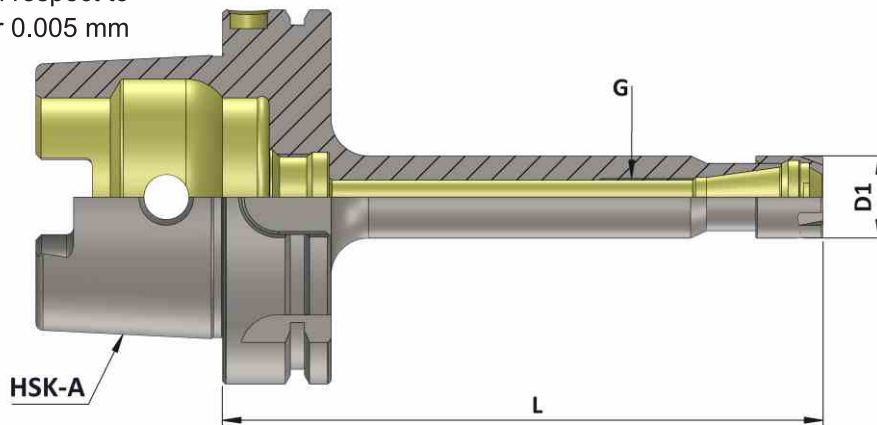
(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	Suitable Collet	Collet Capacity	D1	G	L	Nut	Spanner
HSK-A 50 ER 16 060 6.3G 20000 SL	K10166149117209	50	ER 16	0.5-10	32	M10X1P	60	UM/ER16	E16
HSK-A 50 ER 16 100 6.3G 20000 SL	K10166149148209	50	ER 16	0.5-10	32	M10X1P	100	UM/ER16	E16
HSK-A 50 ER 20 100 6.3G 20000 SL	K10166150148209	50	ER 20	1.0-13	35	M10X1P	100	UM/ER20	E20
HSK-A 50 ER 25 070 6.3G 20000 SL	K10166151125209	50	ER 25	1.0-16	42	M18X1P	70	UM/ER25	E25
HSK-A 50 ER 25 100 6.3G 20000 SL	K10166151148209	50	ER 25	1.0-16	42	M18X1P	100	UM/ER25	E25
HSK-A 50 ER 32 080 6.3G 20000 SL	K10166152131209	50	ER 32	2.0-20	50	M22X1.5P	80	UM/ER32	E32
HSK-A 50 ER 32 100 6.3G 20000 SL	K10166152148209	50	ER 32	2.0-20	50	M22X1.5P	100	UM/ER32	E32
HSK-A 50 ER 40 080 6.3G 20000 SL	K10166153131209	50	ER 40	3.0-26	63	M30X1.5P	80	UM/ER40	E40
HSK-A 63 ER 16 100 6.3G 20000 SL	K10167149148209	63	ER 16	0.5-10	32	M10X1P	100	UM/ER16	E16
HSK-A 63 ER 16 160 6.3G 20000 SL	K10167149175209	63	ER 16	0.5-10	32	M10X1P	160	UM/ER16	E16
HSK-A 63 ER 20 100 6.3G 20000 SL	K10167150148209	63	ER 20	1.0-13	35	M10X1P	100	UM/ER20	E20
HSK-A 63 ER 20 160 6.3G 20000 SL	K10167150175209	63	ER 20	1.0-13	35	M10X1P	160	UM/ER20	E20
HSK-A 63 ER 25 100 6.3G 20000 SL	K10167151148209	63	ER 25	1.0-16	42	M18X1P	100	UM/ER25	E25
HSK-A 63 ER 25 160 6.3G 20000 SL	K10167151175209	63	ER 25	1.0-16	42	M18X1P	160	UM/ER25	E25
HSK-A 63 ER 32 100 6.3G 20000 SL	K10167152148209	63	ER 32	2.0-20	50	M22X1.5P	100	UM/ER32	E32
HSK-A 63 ER 32 160 6.3G 20000 SL	K10167152175209	63	ER 32	2.0-20	50	M22X1.5P	160	UM/ER32	E32
HSK-A 63 ER 40 120 6.3G 20000 SL	K10167153162209	63	ER 40	3.0-26	63	M30X1.5P	120	UM/ER40	E40
HSK-A 63 ER 40 160 6.3G 20000 SL	K10167153175209	63	ER 40	3.0-26	63	M30X1.5P	160	UM/ER40	E40
HSK-A 100 ER 25 100 6.3G 20000 SL	K10168151148209	100	ER 25	1.0-16	42	M18X1P	100	UM/ER25	E25
HSK-A 100 ER 25 160 6.3G 20000 SL	K10168151175209	100	ER 25	1.0-16	42	M18X1P	160	UM/ER25	E25
HSK-A 100 ER 32 100 6.3G 20000 SL	K10168152148209	100	ER 32	2.0-20	50	M22X1.5P	100	UM/ER32	E32
HSK-A 100 ER 32 160 6.3G 20000 SL	K10168152175209	100	ER 32	2.0-20	50	M22X1.5P	160	UM/ER32	E32
HSK-A 100 ER 40 120 6.3G 20000 SL	K10168153162209	100	ER 40	3.0-26	63	M30X1.5P	120	UM/ER40	E40
HSK-A 100 ER 40 160 6.3G 20000 SL	K10168153175209	100	ER 40	3.0-26	63	M30X1.5P	160	UM/ER40	E40

☞ For Necessary Accessories Selection Please Go Through Page No. 95

Note: All Dimensions are in mm

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

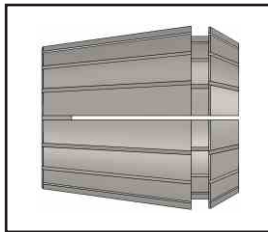


HSK-A (DIN 69893-1) Collet Chuck ER-M Type

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	Suitable Collet	Collet Capacity	D1	G	L	Nut	Spanner
HSK-A 63 ER11M 100 2.5G 25000 SL	K10167156148114	63	ER 11	0.5-7	16	M6X1P	100	ER11M	E11M
HSK-A 63 ER11M 160 2.5G 25000 SL	K10167156175114	63	ER 11	0.5-7	16	M6X1P	160	ER11M	E11M
HSK-A 63 ER16M 100 2.5G 25000 SL	K10167157148114	63	ER 16	0.5-10	22	M10X1P	100	ER16M	E16M
HSK-A 63 ER16M 160 2.5G 25000 SL	K10167157175209	63	ER 16	0.5-10	22	M10X1P	160	ER16M	E16M
HSK-A 63 ER25M 100 2.5G 25000 SL	K10167159148209	63	ER 25	1.0-16	35	M18X1P	100	ER25M	E25M
HSK-A 63 ER25M 160 2.5G 25000 SL	K10167159175209	63	ER 25	1.0-16	35	M18X1P	160	ER25M	E25M
HSK-A 100 ER16M 100 2.5G 25000 SL	K10168157148209	100	ER 16	0.5-10	22	M10X1P	100	ER16M	E16M

Accessories



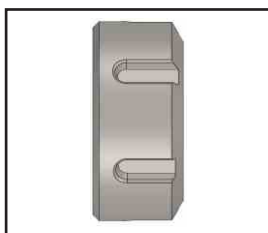
For Collet ER (DIN 6499)
Ref. Page No. 229-235



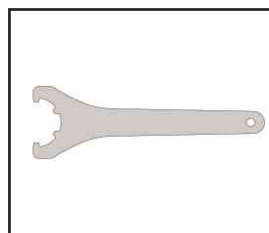
For Tap Collet ER-G
Ref. Page No. 236-240



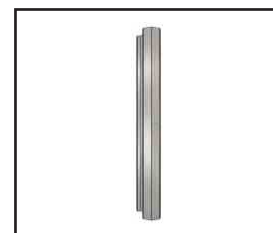
For Q.C.Tap Collet ERT
Ref. Page No. 243-251



For ER Nut
Ref. Page No. 213-214 &
217-218



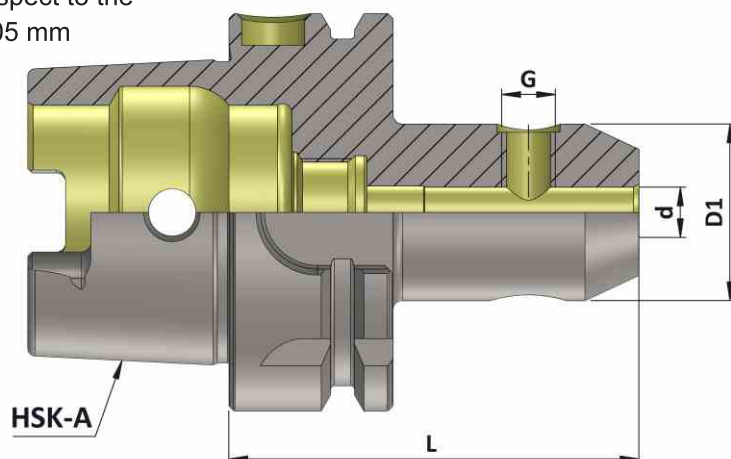
For ER Spanner
Ref. Page No. 215-216



For Sealing Disc
Ref. Page No. 219-226

Note: All Dimensions are in mm

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



HSK-A (DIN 69893-1) (WN) (DIN 6359)

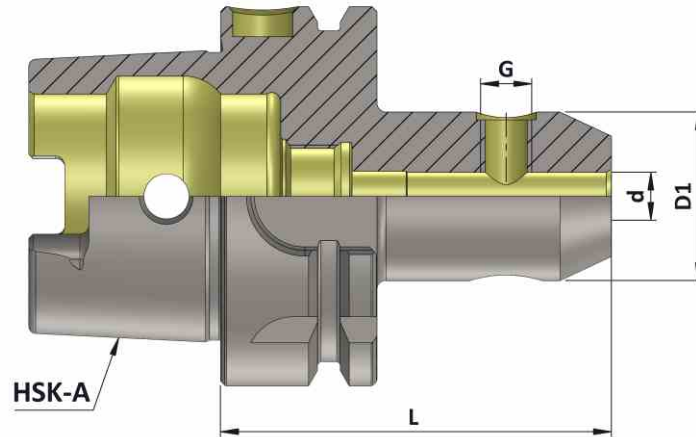
(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	d	D1	G	L
HSK-A 50 WN06 065 6.3G 20000 SL	K10166111123209	50	6	25	M6	65
HSK-A 50 WN08 065 6.3G 20000 SL	K10166112123209	50	8	28	M8	65
HSK-A 50 WN10 065 6.3G 20000 SL	K10166113123209	50	10	35	M10	65
HSK-A 50 WN12 080 6.3G 20000 SL	K10166114131209	50	12	42	M12	80
HSK-A 50 WN14 080 6.3G 20000 SL	K10166258131209	50	14	44	M12	80
HSK-A 50 WN16 080 6.3G 20000 SL	K10166115131209	50	16	48	M14	80
HSK-A 50 WN18 080 6.3G 20000 SL	K10166259131209	50	18	50	M14	80
HSK-A 50 WN20 080 6.3G 20000 SL	K10166116131209	50	20	52	M16	80

HSK-A 63 WN06 065 6.3G 20000 SL	K10167111123209	63	6	25	M6	65
HSK-A 63 WN06 100 6.3G 20000 SL	K10167111148209	63	6	25	M6	100
HSK-A 63 WN06 160 6.3G 20000 SL	K10167111175209	63	6	25	M6	160
HSK-A 63 WN08 065 6.3G 20000 SL	K10167112123209	63	8	28	M8	65
HSK-A 63 WN08 100 6.3G 20000 SL	K10167112148209	63	8	28	M8	100
HSK-A 63 WN08 160 6.3G 20000 SL	K10167112175209	63	8	28	M8	160
HSK-A 63 WN10 065 6.3G 20000 SL	K10167113123209	63	10	35	M10	65
HSK-A 63 WN10 100 6.3G 20000 SL	K10167113148209	63	10	35	M10	100
HSK-A 63 WN10 160 6.3G 20000 SL	K10167113175209	63	10	35	M10	160
HSK-A 63 WN12 080 6.3G 20000 SL	K10167114131209	63	12	42	M12	80
HSK-A 63 WN12 100 6.3G 20000 SL	K10167114148209	63	12	42	M12	100
HSK-A 63 WN12 160 6.3G 20000 SL	K10167114175209	63	12	42	M12	160
HSK-A 63 WN14 080 6.3G 20000 SL	K10167258131209	63	14	44	M12	80
HSK-A 63 WN14 100 6.3G 20000 SL	K10167258148209	63	14	44	M12	100
HSK-A 63 WN14 160 6.3G 20000 SL	K10167258175209	63	14	44	M12	160
HSK-A 63 WN16 080 6.3G 20000 SL	K10167115131209	63	16	48	M14	80
HSK-A 63 WN16 100 6.3G 20000 SL	K10167115148209	63	16	48	M14	100
HSK-A 63 WN16 160 6.3G 20000 SL	K10167115175209	63	16	48	M14	160
HSK-A 63 WN18 080 6.3G 20000 SL	K10167259131209	63	18	50	M14	80
HSK-A 63 WN18 100 6.3G 20000 SL	K10167259148209	63	18	50	M14	100
HSK-A 63 WN18 160 6.3G 20000 SL	K10167259175209	63	18	50	M14	160

Note: All Dimensions are in mm

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



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

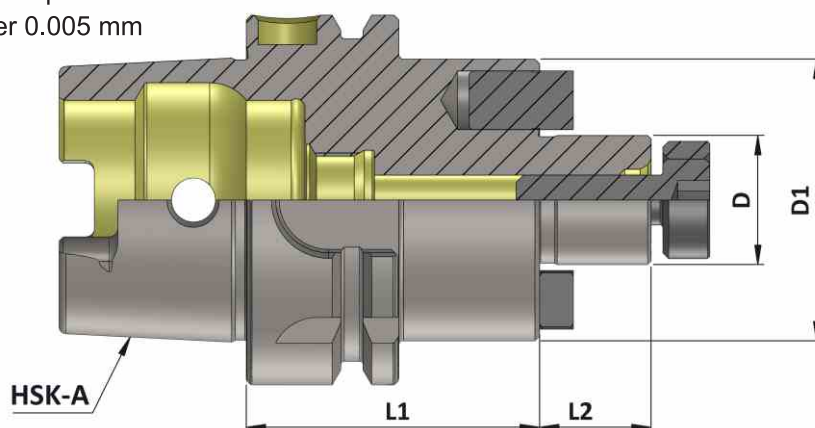
(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	d	D1	G	L
HSK-A 63 WN20 080 6.3G 20000 SL	K10167116131209	63	20	52	M16	80
HSK-A 63 WN20 100 6.3G 20000 SL	K10167116148209	63	20	52	M16	100
HSK-A 63 WN20 160 6.3G 20000 SL	K10167116175209	63	20	52	M16	160
HSK-A 63 WN25 110 6.3G 20000 SL	K10167117156209	63	25	65	M18X2	110
HSK-A 63 WN25 160 6.3G 20000 SL	K10167117175209	63	25	65	M18X2	160
HSK-A 63 WN32 110 6.3G 20000 SL	K10167118156209	63	32	72	M20X2	110
HSK-A 63 WN32 160 6.3G 20000 SL	K10167118175209	63	32	72	M20X2	160
HSK-A 63 WN40 125 6.3G 20000 SL	K10167119164209	63	40	80	M20X2	125
HSK-A 63 WN40 160 6.3G 20000 SL	K10167119175209	63	40	80	M20X2	160

HSK-A 100 WN06 080 6.3G 20000 SL	K10168111131209	100	6	25	M6	80
HSK-A 100 WN06 160 6.3G 20000 SL	K10168111175209	100	6	25	M6	160
HSK-A 100 WN08 080 6.3G 20000 SL	K10168112131209	100	8	28	M8	80
HSK-A 100 WN08 160 6.3G 20000 SL	K10168112175209	100	8	28	M8	160
HSK-A 100 WN10 080 6.3G 20000 SL	K10168113131209	100	10	35	M10	80
HSK-A 100 WN10 100 6.3G 20000 SL	K10168113140209	100	10	35	M10	100
HSK-A 100 WN10 160 6.3G 20000 SL	K10168113175209	100	10	35	M10	160
HSK-A 100 WN12 100 6.3G 20000 SL	K10168114148209	100	12	42	M12	100
HSK-A 100 WN12 160 6.3G 20000 SL	K10168114175209	100	12	42	M12	160
HSK-A 100 WN14 100 6.3G 20000 SL	K10168258148209	100	14	44	M12	100
HSK-A 100 WN14 160 6.3G 20000 SL	K10168258175209	100	14	44	M12	160
HSK-A 100 WN16 100 6.3G 20000 SL	K10168115148209	100	16	48	M14	100
HSK-A 100 WN16 160 6.3G 20000 SL	K10168115175209	100	16	48	M14	160
HSK-A 100 WN18 100 6.3G 20000 SL	K10168259148209	100	18	50	M14	100
HSK-A 100 WN18 160 6.3G 20000 SL	K10168259175209	100	18	50	M14	160
HSK-A 100 WN20 100 6.3G 20000 SL	K10168116148209	100	20	52	M16	100
HSK-A 100 WN20 160 6.3G 20000 SL	K10168116175209	100	20	52	M16	160
HSK-A 100 WN25 100 6.3G 20000 SL	K10168117148209	100	25	65	M18X2	100
HSK-A 100 WN25 160 6.3G 20000 SL	K10168117175209	100	25	65	M18X2	160
HSK-A 100 WN32 120 6.3G 20000 SL	K10168118162209	100	32	72	M20X2	120
HSK-A 100 WN32 160 6.3G 20000 SL	K10168118175209	100	32	72	M20X2	160
HSK-A 100 WN40 120 6.3G 20000 SL	K10168119162209	100	40	80	M20X2	120
HSK-A 100 WN50 130 6.3G 20000 SL	K10168120165209	100	50	100	M24X2	130

Note: All Dimensions are in mm

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



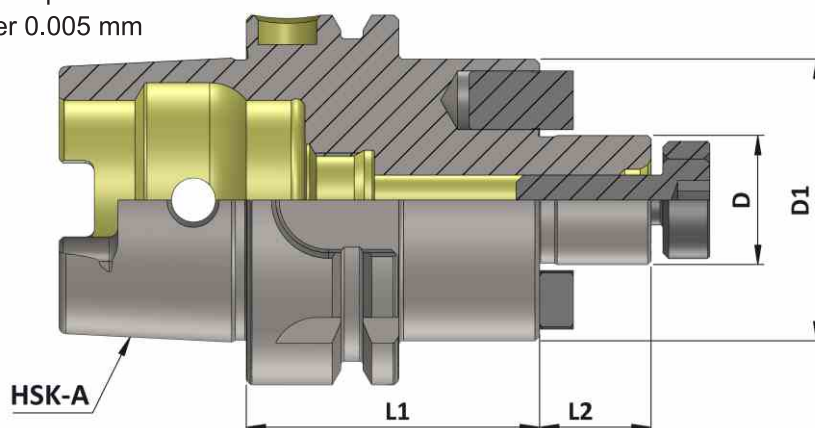
HSK-A (DIN 69893-1) (FMH)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2
HSK-A 50 FMH16 050 6.3G 20000 SL SP.S	K10166126111236	50	16	38	50	17
HSK-A 50 FMH22 060 6.3G 20000 SL SP.S	K10166127117236	50	22	48	60	19
HSK-A 50 FMH27 060 6.3G 20000 SL SP.S	K10166128117236	50	27	58	60	21
HSK-A 50 FMH32 060 6.3G 20000 SL SP.S	K10166129117236	50	32	78	60	24
HSK-A 63 FMH16 045 6.3G 20000 SL SP.S	K10167126108236	63	16	38	45	17
HSK-A 63 FMH16 100 6.3G 20000 SL SP.S	K10167126148236	63	16	38	100	17
HSK-A 63 FMH16 160 6.3G 20000 SL SP.S	K10167126175236	63	16	38	160	17
HSK-A 63 FMH22 050 6.3G 20000 SL SP.S	K10167127111236	63	22	48	50	19
HSK-A 63 FMH22 100 6.3G 20000 SL SP.S	K10167127148236	63	22	48	100	19
HSK-A 63 FMH22 160 6.3G 20000 SL SP.S	K10167127175236	63	22	48	160	19
HSK-A 63 FMH27 055 6.3G 20000 SL SP.S	K10167128115236	63	27	58	55	21
HSK-A 63 FMH27 100 6.3G 20000 SL SP.S	K10167128148236	63	27	58	100	21
HSK-A 63 FMH27 160 6.3G 20000 SL SP.S	K10167128175236	63	27	58	160	21
HSK-A 63 FMH32 060 6.3G 20000 SL SP.S	K10167129117236	63	32	78	60	24
HSK-A 63 FMH32 100 6.3G 20000 SL SP.S	K10167129148236	63	32	78	100	24
HSK-A 63 FMH32 160 6.3G 20000 SL SP.S	K10167129175236	63	32	78	160	24
HSK-A 63 FMH40 065 6.3G 20000 SL SP.S	K10167130123236	63	40	88	65	27
HSK-A 63 FMH40 100 6.3G 20000 SL SP.S	K10167130148236	63	40	88	100	27
HSK-A 63 FMH40 160 6.3G 20000 SL SP.S	K10167130175236	63	40	88	160	27

Note: All Dimensions are in mm

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



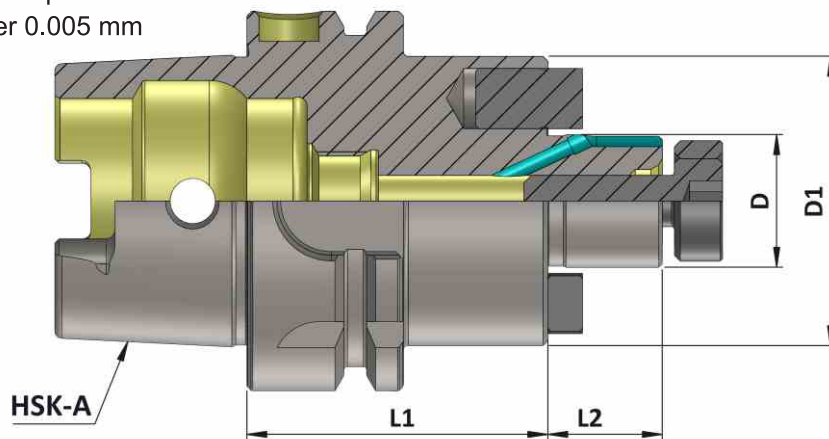
HSK-A (DIN 69893-1) (FMH)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2
HSK-A 100 FMH16 055 6.3G 20000 SL SP.S	K10168126115236	100	16	38	55	17
HSK-A 100 FMH16 100 6.3G 20000 SL SP.S	K10168126148236	100	16	38	100	17
HSK-A 100 FMH16 160 6.3G 20000 SL SP.S	K10168126175236	100	16	38	160	17
HSK-A 100 FMH22 055 6.3G 20000 SL SP.S	K10168127115236	100	22	48	55	19
HSK-A 100 FMH22 100 6.3G 20000 SL SP.S	K10168127148236	100	22	48	100	19
HSK-A 100 FMH22 160 6.3G 20000 SL SP.S	K10168127175236	100	22	48	160	19
HSK-A 100 FMH27 055 6.3G 20000 SL SP.S	K10168128115236	100	27	58	55	21
HSK-A 100 FMH27 100 6.3G 20000 SL SP.S	K10168128148236	100	27	58	100	21
HSK-A 100 FMH27 160 6.3G 20000 SL SP.S	K10168128175236	100	27	58	160	21
HSK-A 100 FMH32 060 6.3G 20000 SL SP.S	K10168129117236	100	32	78	60	24
HSK-A 100 FMH32 100 6.3G 20000 SL SP.S	K10168129148236	100	32	78	100	24
HSK-A 100 FMH32 160 6.3G 20000 SL SP.S	K10168129175236	100	32	78	160	24
HSK-A 100 FMH40 065 6.3G 20000 SL SP.S	K10168130123236	100	40	88	65	27
HSK-A 100 FMH40 100 6.3G 20000 SL SP.S	K10168267148236	100	40	88	100	27
HSK-A 100 FMH40 160 6.3G 20000 SL SP.S	K10168608175236	100	40	88	160	27

Note: All Dimensions are in mm

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



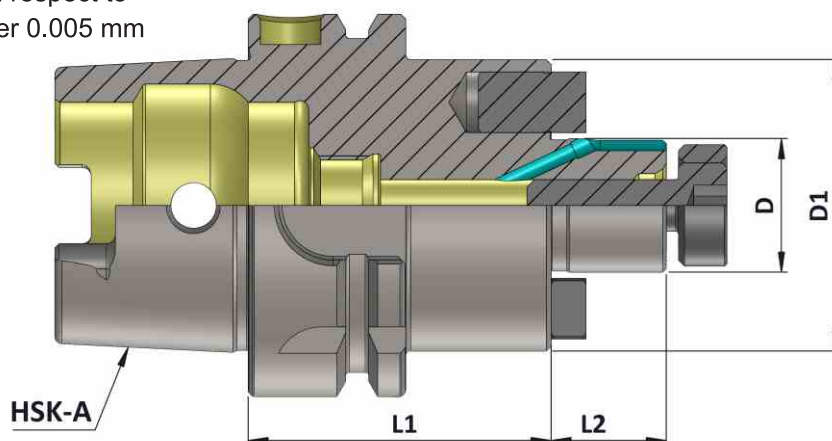
HSK-A (DIN 69893-1) (FMH-K)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2
HSK-A 50 FMH-K16 050 6.3G 20000 SL SP.S	K10166131111236	50	16	38	50	17
HSK-A 50 FMH-K22 060 6.3G 20000 SL SP.S	K10166132115236	50	22	48	60	19
HSK-A 50 FMH-K27 060 6.3G 20000 SL SP.S	K10166133117236	50	27	58	60	21
HSK-A 50 FMH-K32 060 6.3G 20000 SL SP.S	K10166134117236	50	32	78	60	24
HSK-A 63 FMH-K16 045 6.3G 20000 SL SP.S	K10167131108236	63	16	38	45	17
HSK-A 63 FMH-K16 100 6.3G 20000 SL SP.S	K10167131148236	63	16	38	100	17
HSK-A 63 FMH-K16 160 6.3G 20000 SL SP.S	K10167131175236	63	16	38	160	17
HSK-A 63 FMH-K22 050 6.3G 20000 SL SP.S	K10167132111236	63	22	48	50	19
HSK-A 63 FMH-K22 100 6.3G 20000 SL SP.S	K10167132148236	63	22	48	100	19
HSK-A 63 FMH-K22 160 6.3G 20000 SL SP.S	K10167132175236	63	22	48	160	19
HSK-A 63 FMH-K27 055 6.3G 20000 SL SP.S	K10167133115236	63	27	58	55	21
HSK-A 63 FMH-K27 100 6.3G 20000 SL SP.S	K10167133148236	63	27	58	100	21
HSK-A 63 FMH-K27 160 6.3G 20000 SL SP.S	K10167133175236	63	27	58	160	21
HSK-A 63 FMH-K32 060 6.3G 20000 SL SP.S	K10167134117236	63	32	78	60	24
HSK-A 63 FMH-K32 100 6.3G 20000 SL SP.S	K10167134148236	63	32	78	100	24
HSK-A 63 FMH-K32 160 6.3G 20000 SL SP.S	K10167134175236	63	32	78	160	24
HSK-A 63 FMH-K40 065 6.3G 20000 SL SP.S	K10167135123236	63	40	88	65	27
HSK-A 63 FMH-K40 100 6.3G 20000 SL SP.S	K10167135148236	63	40	88	100	27
HSK-A 63 FMH-K40 160 6.3G 20000 SL SP.S	K10167135175236	63	40	88	160	27

Note: All Dimensions are in mm

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



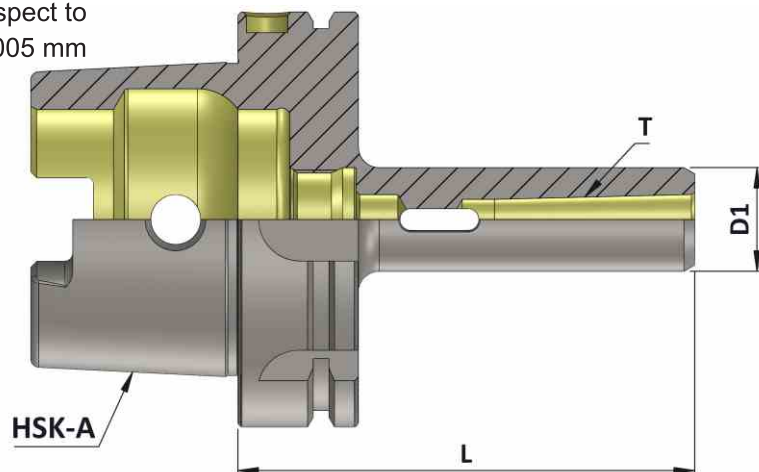
HSK-A (DIN 69893-1) (FMH-K)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2
HSK-A 100 FMH-K16 055 6.3G 20000 SL SP.S	K10168131115236	100	16	38	55	17
HSK-A 100 FMH-K16 100 6.3G 20000 SL SP.S	K10168131148236	100	16	38	100	17
HSK-A 100 FMH-K16 160 6.3G 20000 SL SP.S	K10168131175236	100	16	38	160	17
HSK-A 100 FMH-K22 055 6.3G 20000 SL SP.S	K10168132115236	100	22	48	55	19
HSK-A 100 FMH-K22 100 6.3G 20000 SL SP.S	K10168132148236	100	22	48	100	19
HSK-A 100 FMH-K22 160 6.3G 20000 SL SP.S	K10168132175236	100	22	48	160	19
HSK-A 100 FMH-K27 055 6.3G 20000 SL SP.S	K10168133115236	100	27	58	55	21
HSK-A 100 FMH-K27 100 6.3G 20000 SL SP.S	K10168133148236	100	27	58	100	21
HSK-A 100 FMH-K27 160 6.3G 20000 SL SP.S	K10168133175236	100	27	58	160	21
HSK-A 100 FMH-K32 060 6.3G 20000 SL SP.S	K10168134117236	100	32	78	60	24
HSK-A 100 FMH-K32 100 6.3G 20000 SL SP.S	K10168134148236	100	32	78	100	24
HSK-A 100 FMH-K32 160 6.3G 20000 SL SP.S	K10168134175236	100	32	78	160	24
HSK-A 100 FMH-K40 065 6.3G 20000 SL SP.S	K10168135123236	100	40	88	65	27
HSK-A 100 FMH-K40 100 6.3G 20000 SL SP.S	K10168135148236	100	40	88	100	27

Note: All Dimensions are in mm

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



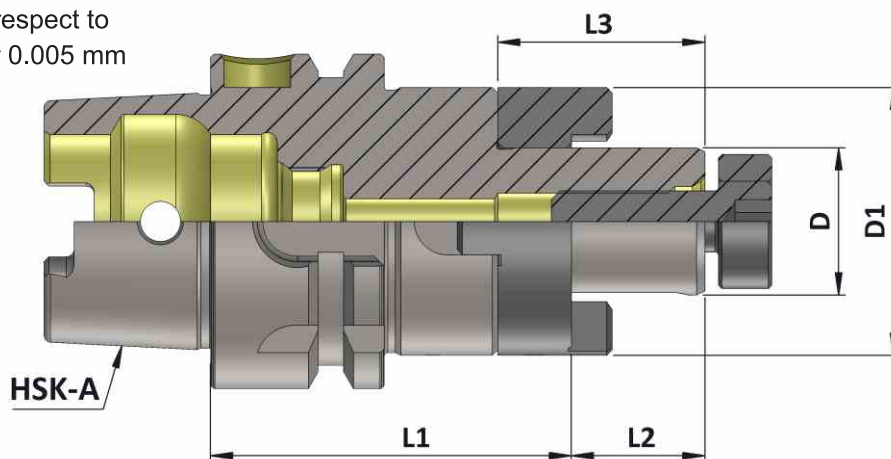
HSK-A (DIN 69893-1) (MTA)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	Morse Taper (T)	D1	L
HSK-A 50 MT01 100 6.3G 20000 SL	K10166447148209	50	1	25	100
HSK-A 50 MT02 115 6.3G 20000 SL	K10166448159209	50	2	32	115
HSK-A 50 MT03 135 6.3G 20000 SL	K10166449166209	50	3	40	135
HSK-A 63 MT01 100 6.3G 20000 SL	K10167447148209	63	1	25	100
HSK-A 63 MT02 115 6.3G 20000 SL	K10167448159209	63	2	32	115
HSK-A 63 MT03 135 6.3G 20000 SL	K10167449166209	63	3	40	135
HSK-A 63 MT04 160 6.3G 20000 SL	K10167451175209	63	4	48	160
HSK-A 100 MT01 110 6.3G 20000 SL	K10168447156209	100	1	25	110
HSK-A 100 MT02 120 6.3G 20000 SL	K10168448162209	100	2	32	120
HSK-A 100 MT03 150 6.3G 20000 SL	K10168449173209	100	3	40	150
HSK-A 100 MT04 170 6.3G 20000 SL	K10168451238209	100	4	48	170
HSK-A 100 MT05 200 6.3G 20000 SL	K10168450239209	100	5	63	200

Note: All Dimensions are in mm

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



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

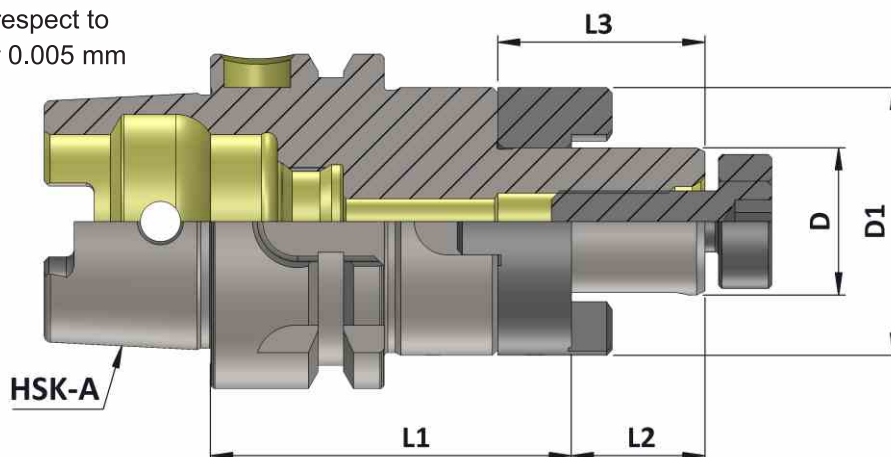
(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2	L3
HSK-A 50 CSMA16 050 6.3G 20000 SL SP.S	K10166121111236	50	16	32	50	17	27
HSK-A 50 CSMA22 055 6.3G 20000 SL SP.S	K10166122115236	50	22	40	55	19	31
HSK-A 50 CSMA27 065 6.3G 20000 SL SP.S	K10166123123236	50	27	48	65	21	33
HSK-A 50 CSMA32 065 6.3G 20000 SL SP.S	K10166124123236	50	32	58	65	24	38

HSK-A 63 CSMA16 060 6.3G 20000 SL SP.S	K10167121117236	63	16	32	60	17	27
HSK-A 63 CSMA16 100 6.3G 20000 SL SP.S	K10167121148236	63	16	32	100	17	27
HSK-A 63 CSMA16 160 6.3G 20000 SL SP.S	K10167121175236	63	16	32	160	17	27
HSK-A 63 CSMA22 060 6.3G 20000 SL SP.S	K10167122117236	63	22	40	60	19	31
HSK-A 63 CSMA22 100 6.3G 20000 SL SP.S	K10167122148236	63	22	40	100	19	31
HSK-A 63 CSMA22 160 6.3G 20000 SL SP.S	K10167122175236	63	22	40	160	19	31
HSK-A 63 CSMA27 060 6.3G 20000 SL SP.S	K10167123117236	63	27	48	60	21	33
HSK-A 63 CSMA27 100 6.3G 20000 SL SP.S	K10167123148236	63	27	48	100	21	33
HSK-A 63 CSMA27 160 6.3G 20000 SL SP.S	K10167123175236	63	27	48	160	21	33
HSK-A 63 CSMA32 065 6.3G 20000 SL SP.S	K10167124123236	63	32	58	65	24	38
HSK-A 63 CSMA32 100 6.3G 20000 SL SP.S	K10167124148236	63	32	58	100	24	38
HSK-A 63 CSMA32 160 6.3G 20000 SL SP.S	K10167124175236	63	32	58	160	24	38
HSK-A 63 CSMA40 070 6.3G 20000 SL SP.S	K10167125125236	63	40	70	70	27	41
HSK-A 63 CSMA40 100 6.3G 20000 SL SP.S	K10167125148236	63	40	70	100	27	41
HSK-A 63 CSMA40 160 6.3G 20000 SL SP.S	K10167125175236	63	40	70	160	27	41

Note: All Dimensions are in mm

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



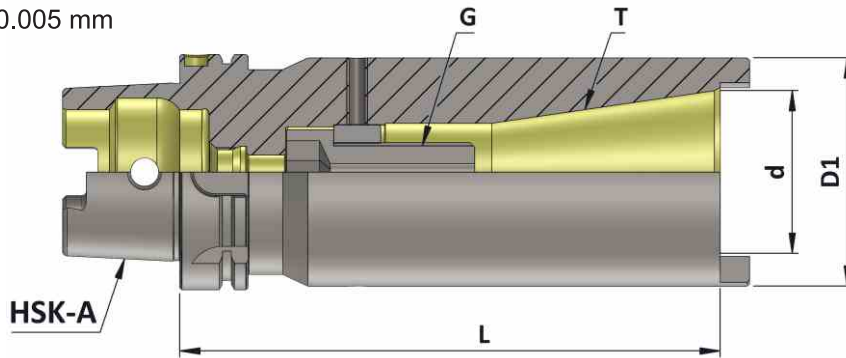
HSK-A (DIN 69893-1) (CSMA)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2	L3
HSK-A 100 CSMA16 065 6.3G 20000 SL SP.S	K10168121123236	100	16	32	65	17	27
HSK-A 100 CSMA16 100 6.3G 20000 SL SP.S	K10168121148236	100	16	32	100	17	27
HSK-A 100 CSMA16 160 6.3G20000 SL SP.S	K10168121175236	100	16	32	160	17	27
HSK-A 100 CSMA22 065 6.3G 20000 SL SP.S	K10168122123236	100	22	40	65	19	31
HSK-A 100 CSMA22 100 6.3G 20000 SL SP.S	K10168122148236	100	22	40	100	19	31
HSK-A 100 CSMA22 160 6.3G 20000 SL SP.S	K10168122175236	100	22	40	160	19	31
HSK-A 100 CSMA27 065 6.3G 20000 SL SP.S	K10168123123236	100	27	48	65	21	33
HSK-A 100 CSMA27 100 6.3G 20000 SL SP.S	K10168123148236	100	27	48	100	21	33
HSK-A 100 CSMA27 160 6.3G 20000 SL SP.S	K10168123175236	100	27	48	160	21	33
HSK-A 100 CSMA32 070 6.3G 20000 SL SP.S	K10168124125236	100	32	58	70	24	38
HSK-A 100 CSMA32 100 6.3G 20000 SL SP.S	K10168124148236	100	32	58	100	24	38
HSK-A 100 CSMA32 160 6.3G 20000 SL SP.S	K10168124175236	100	32	58	160	24	38
HSK-A 100 CSMA40 070 6.3G 20000 SL SP.S	K10168125125236	100	40	70	70	27	41
HSK-A 100 CSMA40 100 6.3G 20000 SL SP.S	K10168125148236	100	40	70	100	27	41
HSK-A 100 CSMA40 160 6.3G 20000 SL SP.S	K10168125175236	100	40	70	160	27	41

Note: All Dimensions are in mm

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



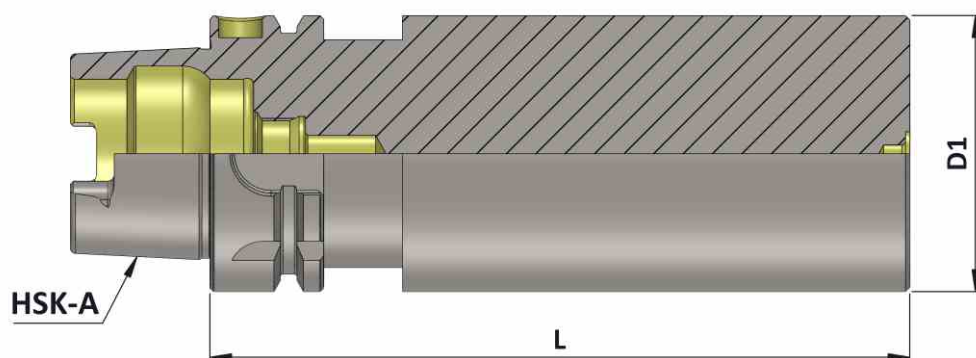
HSK-A (DIN 69893-1) Reduction Sleeve

Item Name	Item Code	HSK-A	d	D1	T	L	G
HSK A 100 X ISO40 REDUCTION SLEEVE	K10251462446127	100	44.45	63	7:24	150	M 16
HSK A 100 X ISO50 REDUCTION SLEEVE	K10251462448127	100	69.85	97	7:24	205	M 24

Suitable For :

- BT 40 (MAS 403) Adaptor & SK 40 (DIN 69871) Adaptor.
- BT 50 (MAS 403) Adaptor & SK 50 (DIN 69871) Adaptor.

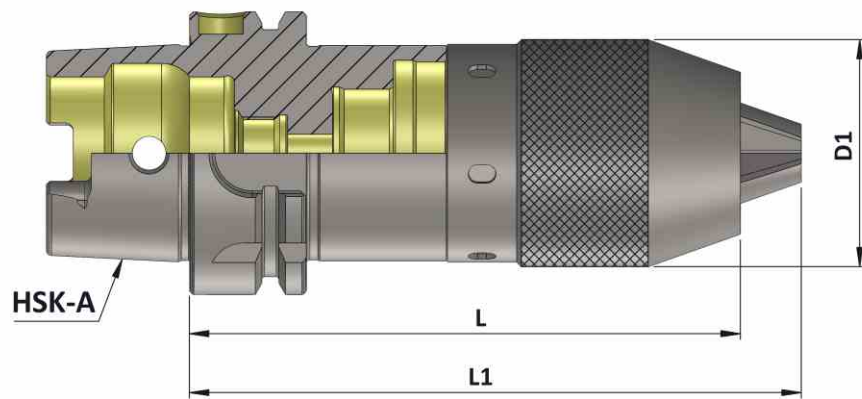
Note: All Dimensions are in mm



HSK-A (DIN 69893-1) Boring Bar Blank

Item Name	Item Code	HSK-A	D1	L
HSK-A 50 BORING BAR BLANK DIA 52.0 L 200 -	K10166261237127	50	52	200
HSK-A 50 BORING BAR BLANK DIA 62.0 L 200 -	K10166262237127	50	62	200
HSK-A 63 BORING BAR BLANK DIA 63.0 L 160 -	K10167263330127	63	63	160
HSK-A 63 BORING BAR BLANK DIA 63.0 L 250 -	K10167263256127	63	63	250
HSK-A 63 BORING BAR BLANK DIA 80.0 L 250 -	K10167264256127	63	80	250
HSK-A 100 BORING BAR BLANK DIA 80.0 L 250 -	K10168264256127	100	80	250
HSK-A 100 BORING BAR BLANK DIA 80.0 L 275 -	K10168264501127	100	80	275
HSK-A 100 BORING BAR BLANK DIA 97.0 L 250 -	K10168265256127	100	97	250

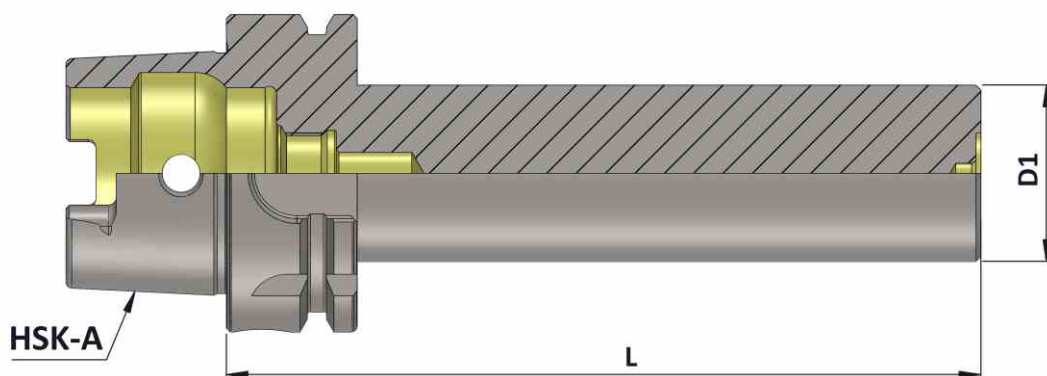
Note: All Dimensions are in mm



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

Item Name	Item Code	HSK-A	D1	L	L1
HSK-A 50 NCDC 1-13 125	K10166167170209	50	50	125	137.5
HSK-A 63 NCDC 1-13 122.5	K10167167172209	63	50	122.5	135
HSK-A 100 NCDC 1-13 146	K10168167172209	100	50	146	158.5

Note: All Dimensions are in mm



HSK-A (DIN 69893-1) Master Mandrell

(Sub Zero Treated)

Item Name	Item Code	HSK-A	D1	L
HSK-A 50 MASTER MANDRELL DIA 32 L 200	K10166164237127	50	32	200
HSK-A 63 MASTER MANDRELL DIA40 L 300	K10167165257127	63	40	300
HSK-A 100 MASTER MANDRELL DIA50 L 300	K10168166257127	100	50	300

Note: All Dimensions are in mm



Die & Mould Chuck (DMC)

▣ 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 8 mm)
- DMC 10 (3mm to 10mm)

▣ Available In Mountings :

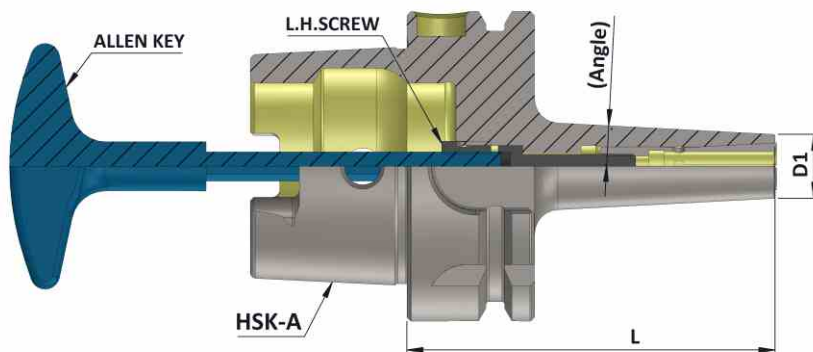
- BT (MAS 403)
- SK (DIN 69871)
- HSK-A (DIN 69893-1)
- Cylindrical Shank

▣ Balancing :

Balanced To 2.5 G 25000 RPM



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

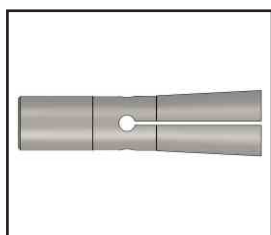


HSK-A (DIN 69893-1) (DMC)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	D1	L	Angle	Screw	Allen Key
HSK-A 50 DMC 06 075 2.5G25000 SL	K10166161127129	50	13	75	3	M5	4X200
HSK-A 63 DMC 06 075 2.5G25000 SL	K10167161127124	63	13	75	3	M5	4X200
HSK-A 63 DMC 06 095 2.5G25000 SL	K10167161145124	63	13	95	3	M5	4X200
HSK-A 63 DMC 06 120 2.5G25000 SL	K10167161162124	63	13	120	3	M5	4X200
HSK-A 63 DMC 06 160 2.5G25000 SL	K10167161175124	63	13	160	3	M5	4X200
HSK-A 63 DMC 08 100 2.5G25000 SL	K10167162148124	63	22	100	3	M6	5X200
HSK-A 63 DMC 08 160 2.5G25000 SL	K10167162175124	63	22	160	3	M6	5X200
HSK-A 63 DMC 10 110 2.5G25000 SL	K10167163156124	63	28	110	3	M8	6X200

Accessories



For DMC Collet
Ref. Page No. 241

Note: All Dimensions are in mm



Power Milling Chuck (PMC)

▣ 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 :

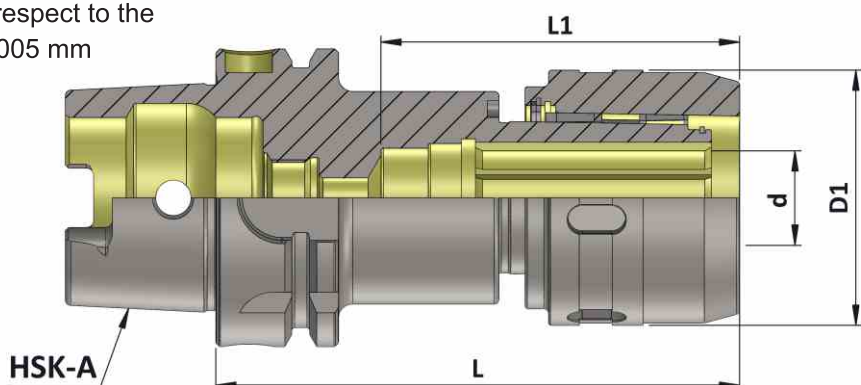
- BT (MAS 403)
- SK (DIN 69871)
- HSK-A (DIN 69893-1)

▣ Balancing :

Balanced To 6.3 G 20000 RPM



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

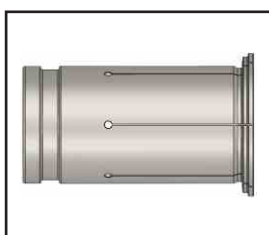


HSK-A (DIN 69893-1) (PMC)

(Balanced to 6.3 G 20000 RPM)

Item Name	Item Code	HSK-A	d	D1	L	L1
HSK-A 50 C20 100 AD/6.3G20000 SL	K10166445148114	50	20	54	100	70
HSK-A 63 C20 105 AD/6.3G20000 SL	K10167445152114	63	20	54	105	70
HSK-A 63 C32 130 AD/6.3G20000 SL	K10167446165114	63	32	72	130	100
HSK-A 100 C20 110 AD/6.3G20000 SL	K10168445156114	100	20	54	110	70
HSK-A 100 C32 135 AD/6.3G20000 SL	K10168446166114	100	32	72	135	100

Accessories



For Reduction Sleeve (RS)
Ref. Page No. 242

Note: All Dimensions are in mm