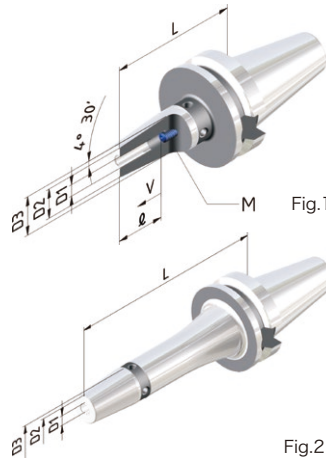
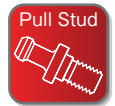




# Shrink fit holder



- Taper contact 80% or better
  - T.I.R. Taper to Bore 3μm
  - Designed for Carbide cutting tools with h6 shank tolerance
  - Taper 30 DIN AD standard
  - Taper 40 & 50 DIN AD/B standard
  - Preset screw included
  - Dynamically balanced to G2.5 at 25,000rpm
  - Nose angle  $\theta=4.5^\circ$  standard
  - 4 balanceable holes standard
  - Jet Blast coolant available upon request
- Please add "-J" at the end of Code No. when ordering  
ex) BT40-SDM06-090-J



P.65

Taper	Code No.	L	φD1	φD2	φD3	Tool Enters		M	Fig.
						Min. (V)	Max. (ℓ)		
BT30	BT30-SDM04-060	60	4	12	17	—	—	—	1
	BT30-SDM04-095	95	4	12	17	—	—	—	1
	BT30-SDM06-060	60	6	21	27	10	37	M5	1
	BT30-SDM06-095	95	6	21	27	10	37	M5	1
	BT30-SDM08-075	75	8	21	27	10	37	M6	1
	BT30-SDM08-090	90	8	21	27	10	37	M6	1
	BT30-SDM10-075	75	10	24	32	10	42	M8X1	1
BT30-SDM10-090	90	10	24	32	10	42	M8X1	1	
BT40	BT40-SDM03-090	90	3	12	17	—	—	—	1
	BT40-SDM03-150	150	3	12	17	—	—	—	2
	BT40-SDM04-090	90	4	12	17	—	—	—	1
	BT40-SDM04-150	150	4	12	17	—	—	—	2
	BT40-SDM06-090	90	6	21	27	10	37	M5	1
	BT40-SDM06-160	160	6	21	27	10	37	M5	2
	BT40-SDM06-200*	200	6	21	27	10	37	M5	2
	BT40-SDM08-090	90	8	21	27	10	37	M6	1
	BT40-SDM08-160	160	8	21	27	10	37	M6	2
	BT40-SDM10-090	90	10	24	32	10	42	M8X1	1
	BT40-SDM10-160	160	10	24	32	10	42	M8X1	2
	BT40-SDM10-200*	200	10	24	32	10	42	M8X1	2
	BT40-SDM12-090	90	12	24	32	10	48	M10X1	1
	BT40-SDM12-160	160	12	24	32	10	48	M10X1	2
	BT40-SDM12-200*	200	12	24	32	10	48	M10X1	2
	BT40-SDM16-090	90	16	27	34	10	51	M12X1	1
	BT40-SDM16-160	160	16	27	34	10	51	M12X1	2
	BT40-SDM16-200*	200	16	27	34	10	51	M12X1	2
	BT40-SDM20-090	90	20	33	42	10	53	M16X1	1
BT40-SDM20-160	160	20	33	42	10	53	M16X1	2	
BT40-SDM25-100	100	25	44	53	10	59	M16X1	1	
BT40-SDM25-160	160	25	44	53	10	59	M16X1	2	
BT50	BT50-SDM06-100	100	6	21	27	10	37	M5	2
	BT50-SDM06-160*	160	6	21	27	10	37	M5	2
	BT50-SDM06-200*	200	6	21	27	10	37	M5	2
	BT50-SDM08-100	100	8	21	27	10	37	M6	2
	BT50-SDM08-160*	160	8	21	27	10	37	M6	2
	BT50-SDM08-200*	200	8	21	27	10	37	M6	2
	BT50-SDM10-100	100	10	24	32	10	42	M8X1	2
	BT50-SDM10-160*	160	10	24	32	10	42	M8X1	2
	BT50-SDM10-200*	200	10	24	32	10	42	M8X1	2
	BT50-SDM12-100	100	12	24	32	10	48	M10X1	2
	BT50-SDM12-160*	160	12	24	32	10	48	M10X1	2
	BT50-SDM12-200*	200	12	24	32	10	48	M10X1	2
	BT50-SDM16-100	100	16	27	34	10	51	M12X1	2
	BT50-SDM16-160*	160	16	27	34	10	51	M12X1	2
	BT50-SDM16-200*	200	16	27	34	10	51	M12X1	2
	BT50-SDM20-100	100	20	33	42	10	53	M16X1	2
	BT50-SDM20-160*	160	20	33	42	10	53	M16X1	2
BT50-SDM20-200*	200	20	33	42	10	53	M16X1	2	
BT50-SDM25-100	100	25	44	53	10	59	M16X1	2	
BT50-SDM25-160*	160	25	44	53	10	59	M16X1	2	

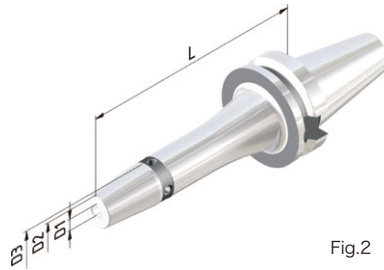
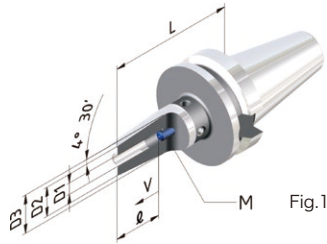
\*Not regular stock items. Please ask for availability.



# Shrink fit holder



- Taper contact 80% or better
  - T.I.R. Taper to Bore 3μm
  - Designed for Carbide cutting tools with h6 shank tolerance.
  - Taper 40 & 50 DIN AD/B standard
  - Preset screw included
  - Dynamically balanced to G2.5 at 25,000rpm
  - Nose angle  $\theta=4.5^\circ$  standard
  - 4 balanceable holes standard
  - Jet Blast coolant available upon request
- Please add "-J" at the end of Code No. when ordering



P.65

Taper	Code No.	L	φD1	φD2	φD3	Tool Enters		M	Fig.
						Min. (V)	Max. (ℓ)		
SK40	SK40-SDM03-080*	80	3	12	17	—	—	—	1
	SK40-SDM04-080*	80	4	12	17	—	—	—	1
	SK40-SDM06-080*	80	6	21	27	10	37	M5	1
	SK40-SDM06-160*	160	6	21	27	10	37	M5	2
	SK40-SDM06-200*	200	6	21	27	10	37	M5	2
	SK40-SDM08-080*	80	8	21	27	10	37	M6	1
	SK40-SDM08-160*	160	8	21	27	10	37	M6	2
	SK40-SDM08-200*	200	8	21	27	10	37	M6	2
	SK40-SDM10-080*	80	10	24	32	10	42	M8X1	1
	SK40-SDM10-160*	160	10	24	32	10	42	M8X1	2
	SK40-SDM10-200*	200	10	24	32	10	42	M8X1	2
	SK40-SDM12-080*	80	12	24	32	10	48	M10X1	1
	SK40-SDM12-160*	160	12	24	32	10	48	M10X1	2
	SK40-SDM12-200*	200	12	24	32	10	48	M10X1	2
	SK40-SDM16-080*	80	16	27	34	10	51	M12X1	1
	SK40-SDM16-160*	160	16	27	34	10	51	M12X1	2
	SK40-SDM16-200*	200	16	27	34	10	51	M12X1	2
	SK40-SDM20-080*	80	20	33	42	10	53	M16X1	1
	SK40-SDM20-160*	160	20	33	42	10	53	M16X1	2
	SK40-SDM20-200*	200	20	33	42	10	53	M16X1	2
SK50	SK40-SDM25-100*	100	25	44	53	10	59	M16X1	1
	SK40-SDM25-160*	160	25	44	53	10	59	M16X1	2
	SK40-SDM25-200*	200	25	44	53	10	59	M16X1	2
	SK50-SDM06-080*	80	6	21	27	10	37	M5	1
	SK50-SDM06-160*	160	6	21	27	10	37	M5	2
	SK50-SDM06-200*	200	6	21	27	10	37	M5	2
	SK50-SDM08-080*	80	8	21	27	10	37	M6	1
	SK50-SDM08-160*	160	8	21	27	10	37	M6	2
	SK50-SDM08-200*	200	8	21	27	10	37	M6	2
	SK50-SDM10-080*	80	10	24	32	10	42	M8X1	1
	SK50-SDM10-160*	160	10	24	32	10	42	M8X1	2
	SK50-SDM10-200*	200	10	24	32	10	42	M8X1	2
	SK50-SDM12-080*	80	12	24	32	10	48	M10X1	1
	SK50-SDM12-160*	160	12	24	32	10	48	M10X1	2
	SK50-SDM12-200*	200	12	24	32	10	48	M10X1	2
SK50-SDM16-080*	80	16	27	34	10	51	M12X1	1	
SK50-SDM16-160*	160	16	27	34	10	51	M12X1	2	
SK50-SDM16-200*	200	16	27	34	10	51	M12X1	2	
SK50-SDM20-080*	80	20	33	42	10	53	M16X1	1	
SK50-SDM20-160*	160	20	33	42	10	53	M16X1	2	
SK50-SDM20-200*	200	20	33	42	10	53	M16X1	2	
SK50-SDM25-100*	100	25	44	53	10	59	M16X1	1	
SK50-SDM25-160*	160	25	44	53	10	59	M16X1	2	
SK50-SDM25-200*	200	25	44	53	10	59	M16X1	2	

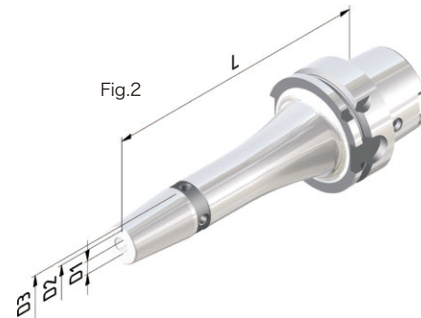
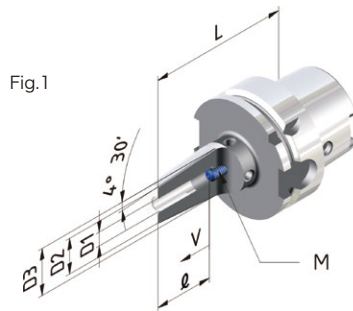
\*Not regular stock items. Please check for availability.



# Shrink fit holder



- Taper contact 80% or better
  - T.I.R Taper to Bore  $3\mu\text{m}$
  - Designed for Carbide cutting tools with h6 shank tolerance
  - Preset screw included
  - Dynamically balanced to G2.5 at 25,000rpm
  - Nose angle  $\theta=4.5^\circ$  standard
  - 4 balanceable holes standard
  - Jet Blast coolant available upon request
- Please add "-J" at the end of Code No. when ordering



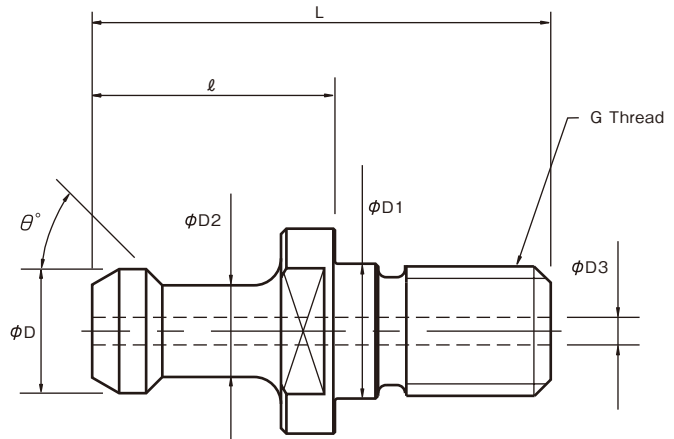
Taper	Code No.	L	$\phi D1$	$\phi D2$	$\phi D3$	Tool Enters		M	Fig.
						Min. (V)	Max. (ℓ)		
HSK 63A	HSK 63A-SDM03-080	80	3	12	17	—	—	—	1
	HSK 63A-SDM03-120	120	3	12	17	—	—	—	2
	HSK 63A-SDM03-160	160	3	12	17	—	—	—	2
	HSK 63A-SDM04-080	80	4	12	17	—	—	—	1
	HSK 63A-SDM04-120	120	4	12	17	—	—	—	2
	HSK 63A-SDM04-160	160	4	12	17	—	—	—	2
	HSK 63A-SDM06-080	80	6	21	27	10	37	M5	1
	HSK 63A-SDM06-120	120	6	21	27	10	37	M5	2
	HSK 63A-SDM06-160	160	6	21	27	10	37	M5	2
	HSK 63A-SDM08-080	80	8	21	27	10	37	M6	1
	HSK 63A-SDM08-120	120	8	21	27	10	37	M6	2
	HSK 63A-SDM08-160	160	8	21	27	10	37	M6	2
	HSK 63A-SDM10-085	85	10	24	32	10	42	M8X1	1
	HSK 63A-SDM10-120	120	10	24	32	10	42	M8X1	2
	HSK 63A-SDM10-160	160	10	24	32	10	42	M8X1	2
	HSK 63A-SDM12-090	90	12	24	32	10	48	M10X1	1
	HSK 63A-SDM12-120	120	12	24	32	10	48	M10X1	2
	HSK 63A-SDM12-160	160	12	24	32	10	48	M10X1	2
	HSK 63A-SDM16-095	95	16	27	34	10	51	M12X1	1
	HSK 63A-SDM16-120	120	16	27	34	10	51	M12X1	2
HSK 63A-SDM16-160	160	16	27	34	10	51	M12X1	2	
HSK 63A-SDM20-100	100	20	33	42	10	53	M16X1	1	
HSK 63A-SDM20-160	160	20	33	42	10	53	M16X1	2	
HSK 63A-SDM25-115*	115	25	44	53	10	59	M16X1	1	
HSK 63A-SDM25-160*	160	25	44	53	10	59	M16X1	2	
HSK100A	HSK100A-SDM06-085*	85	6	21	27	10	37	M5	1
	HSK100A-SDM06-160*	160	6	21	27	10	37	M5	2
	HSK100A-SDM08-085*	85	8	21	27	10	37	M6	1
	HSK100A-SDM08-160*	160	8	21	27	10	37	M6	2
	HSK100A-SDM10-090*	90	10	24	32	10	42	M8X1	1
	HSK100A-SDM10-160*	160	10	24	32	10	42	M8X1	2
	HSK100A-SDM12-095*	95	12	24	32	10	48	M10X1	1
	HSK100A-SDM12-160*	160	12	24	32	10	48	M10X1	2
	HSK100A-SDM16-100*	100	16	27	34	10	51	M12X1	1
	HSK100A-SDM16-160*	160	16	27	34	10	51	M12X1	2
	HSK100A-SDM20-105*	105	20	33	42	10	53	M16X1	1
	HSK100A-SDM20-160*	160	20	33	42	10	53	M16X1	2
	HSK100A-SDM25-115*	115	25	44	53	10	59	M16X1	1
	HSK100A-SDM25-160*	160	25	44	53	10	59	M16X1	2

\*Not regular stock items. Please ask for availability.

◇Please order coolant tube(Page 35) for HSK separately.



# Pull Stud



It is critical that the correct pull stud is used with each machining center. Please verify all dimensions prior to ordering. Machine specifications will be located in your machine manual.

Spindle	Code No.	$\phi D$	L	$l$	D2	D1	G	$\theta^\circ$	D3	Note
BT30	HPS-16	11	43	23	7	12.5	M12	45	-	MAS P30T-1
	HPS-16C	11	43	23	7	12.5	M12	45	2.5	HPS-16 Coolant
	HPS-17	11	43	23	7	12.5	M12	60	-	MAS P30T-2
	HPS-17C	11	43	23	7	12.5	M12	60	2.5	HPS-17 Coolant
BT40	HPS- 1	15	60	35	10	17	M16	45	-	MAS P40T-1
	HPS- 2	15	60	35	10	17	M16	60	-	MAS P40T-2
	HPS-806-1	19	54	29	14	17	M16	75	6	JIS B6339. Coolant
	HPS-G51	18.796	44.106	19.106	12.446	17	M16	45	7	Mazak type. Coolant
	HPS-O8	15	60	35	10	17	M16	90	-	90 degree angle type
	HPS-301	15	60	35	11	17	M16	60	-	
	HPS-302	19	54	26	14	17	M16	75	-	DIN69872.
	HPS-366E-1	19	54	29	14	17	M16	75	7	P-9, S 15 O-ring
	HPS-805	19	54	29	14	17	M16	75	-	JIS B6339-89
	HPS-813-1	19	54	29	14	17	M16	75	6	JIS B6339-89
HPS-B62-1	19	54	29	14	17	M16	75	4	S 15 O-ring	
BT50	HPS- 5	23	85	45	17	25	M24	45	-	MAS P50T-1
	HPS- 6	23	85	45	17	25	M24	60	-	MAS P50T-2
	HPS-G41	28.956	65.2	25.2	20.828	25	M24	45	10	
SK30	HPS-122	13	44	24	9	13	M12	75	-	DIN69872 SK30 FORM A
SK40	HPS-302	19	54	26	14	17	M16	75	-	DIN69872 SK40 FORM A
	HPS-309	19	54	26	14	17	M16	75	7	DIN69872 SK40 FORM A Coolant
	HPS-309C	19	54	26	14	17	M16	75	7	DIN69872 SK40 FORM B
	HPS-A1	19	54	26	14	17	M16	75	7	ISO-7388/2-1984-A
	HPS-A4	18.95	44.5	16.4	12.95	17	M16	45	7.35	ISO-7388/2-1984-B
SK50	HPS-581	28	74	34	21	25	M24	75	-	DIN69872 SK50 FORM A
	HPS-512	28	74	34	21	25	M24	75	11.5	DIN69872 SK50 FORM A Coolant
	HPS-512B	28	74	34	21	25	M24	75	11.5	DIN69872 SK50 FORM B
	HPS-A3	28	74	34	21	25	M24	75	11.5	ISO-7388/2-1984-A
	HPS-A6	29.1	65.5	25.55	19.6	25	M24	45	11.55	ISO-7388/2-1984-B

◇Other Pull Studs are available upon request.