

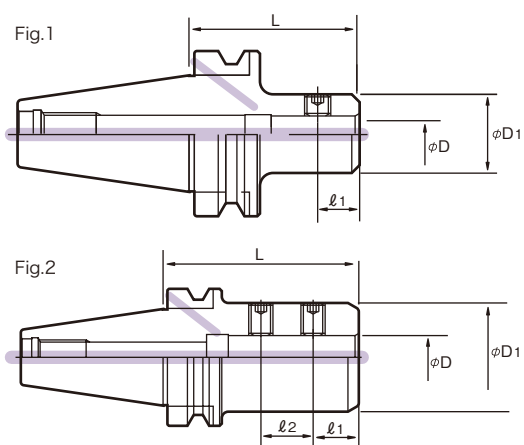


SL side lock holder

BT



- Min. 80% taper fit
- ID bore ground to H4 tolerance.
- Max. T.I.R. at ID bore $3\mu\text{m}$
- Taper 30 & 40 dynamically balanced to G6.3 at 20,000rpm
Taper 50 dynamically balanced to G6.3 at 15,000rpm
- Taper 30 DIN AD standard
- Taper 40 & 50 DIN AD/B
- Long type side lock holder available



P.65

Taper	Code No.	Fig	ϕD	$\phi D1$	L	$\ell 1$	$\ell 2$
BT30	BT30-SL16-063	1	16	48	63	24	—
	BT30-SL20-063	1	20	52	63	25	—
BT40	BT40-SL20-063	1	20	52	63	25	—
	BT40-SL20-100	1			100		
	BT40-SL20-160	1			160		
	BT40-SL25-090	2	25	65	90	24	25
	BT40-SL32-065	2	32	62	65	24	28
BT50	BT50-SL20-080	1	20	52	80	25	—
	BT50-SL20-100	1			100		
	BT50-SL20-160	1			160		
	BT50-SL20-200	1			200		
	BT50-SL20-250*	1			250		
	BT50-SL20-300*	1			300		
	BT50-SL20-350*	1			350		
	BT50-SL25-100	2	25	65	100	24	25
	BT50-SL25-160	2			160		
	BT50-SL25-200	2			200		
	BT50-SL25-250*	2			250		
	BT50-SL25-300*	2			300		
	BT50-SL25-350*	2			350		
	BT50-SL32-100	2	32	72	100	24	28
	BT50-SL32-160	2			160		
	BT50-SL32-200	2			200		
	BT50-SL32-250*	2			250		
	BT50-SL32-300*	2			300		
	BT50-SL32-350*	2			350		
	BT50-SL40-110	2	40	90	110	30	32

*Not regular stock items. Please ask for availability.

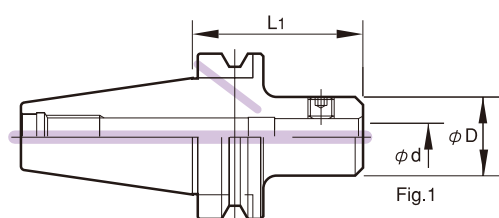


Fig.1

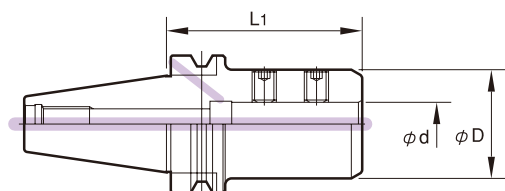


Fig.2

- Taper 40 dynamically balanced to G6.3 at 20,000rpm
- Taper 40 DIN AD/B standard



P.65

Taper	Code No.	Fig	ϕd	ϕD	L1
SK40	SK40-SL06-050	1	6	25	50
	SK40-SL06-100	1			100
	SK40-SL06-160	1			160
	SK40-SL08-050	1	8	28	50
	SK40-SL08-100	1			100
	SK40-SL08-160	1			160
	SK40-SL10-050	1	10	35	50
	SK40-SL10-100	1			100
	SK40-SL10-160	1			160
	SK40-SL12-050	1	12	42	50
	SK40-SL12-100	1			100
	SK40-SL12-160	1			160
	SK40-SL14-050	1	14	44	50
	SK40-SL14-100	1			100
	SK40-SL14-160	1			160
	SK40-SL16-063	1	16	48	63
	SK40-SL16-100	1			100
	SK40-SL16-160	1			160
	SK40-SL18-063	1	18	50	63
	SK40-SL18-100	1			100
	SK40-SL18-160	1			160
	SK40-SL20-063	1	20	52	63
	SK40-SL20-100	1			100
	SK40-SL20-160	1			160
	SK40-SL25-065	2	25	65	65
	SK40-SL25-100	2			100
	SK40-SL25-160	2			160
	SK40-SL32-065	2	32	72	65
	SK40-SL32-100	2			100
	SK40-SL32-120	2			120
	SK40-SL32-160	2			160



SL Side lock holder

SK

- Taper 50 dynamically balanced to G6.3 at 15,000rpm
- Taper 50 DIN AD/B standard

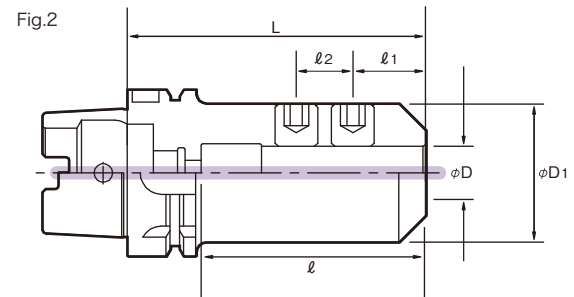
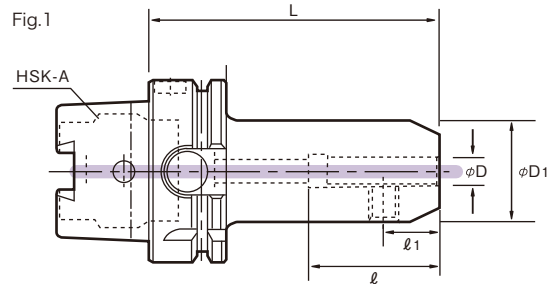
Taper	Code No.	Fig	φd	φD	L1
SK50	SK50-SL06-063	1	6	25	63
	SK50-SL06-100	1			100
	SK50-SL06-160	1			160
	SK50-SL08-063	1	8	28	63
	SK50-SL08-100	1			100
	SK50-SL08-160	1			160
	SK50-SL10-063	1	10	35	63
	SK50-SL10-100	1			100
	SK50-SL10-160	1			160
	SK50-SL12-063	1	12	42	63
	SK50-SL12-100	1			100
	SK50-SL12-160	1			160
	SK50-SL14-063	1	14	44	63
	SK50-SL14-100	1			100
	SK50-SL16-063	1	16	48	63
	SK50-SL16-100	1			100
	SK50-SL16-160	1			160
	SK50-SL18-063	1	18	50	63
	SK50-SL18-100	1			100
	SK50-SL20-063	1	20	52	63
	SK50-SL20-100	1			100
	SK50-SL20-160	1			160
	SK50-SL25-080	2	25	65	80
	SK50-SL25-105	2			105
	SK50-SL25-120	2			120
	SK50-SL25-160	2	32	72	160
	SK50-SL32-100	2			100
	SK50-SL32-160	2			160
	SK50-SL40-100	2	40	80	100
	SK50-SL40-160	2			160

Note:

*Fig.1 or Fig.2 in above dimension table refer to the locking bolt arrangement as per Fig.1 or Fig.2 in the previous page.

*200mm, 250mm, 300mm & 350mm available upon request.

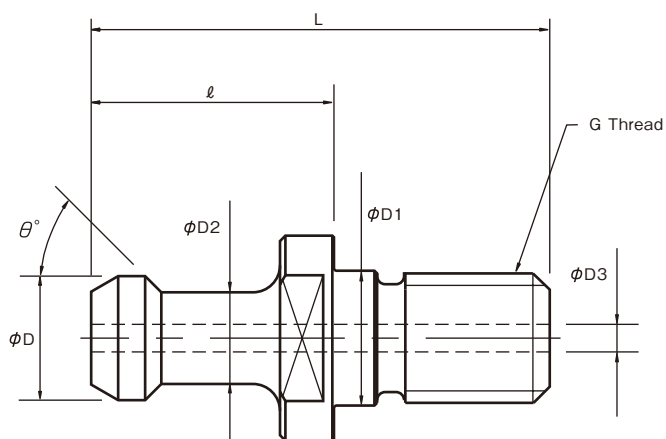
- Taper HSK63A dynamically balanced to G6.3 at 20,000rpm
- Taper HSK63A DIN AD standard



Taper	Code No.	Fig	φD	φD1	L	l	l1	l2
HSK63A	HSK63A-SL06-065	1	6	25	65	30	18	—
	HSK63A-SL06-100	1		25	100	30	18	—
	HSK63A-SL08-065	1	8	28	65	38	18	—
	HSK63A-SL10-065	1	10	35	65	40	20	—
	HSK63A-SL10-100	1		35	100	45	20	—
	HSK63A-SL12-080	1	12	42	80	50	22.5	—
	HSK63A-SL12-100	1		42	100	50	22.5	—
	HSK63A-SL16-080	1	16	48	80	53	24	—
	HSK63A-SL16-100	1		48	100	53	24	—
	HSK63A-SL18-080	1	18	50	80	53	24	—
	HSK63A-SL18-100	1		50	100	53	24	—
	HSK63A-SL20-080	1	20	52	80	53	25	—
	HSK63A-SL25-110	2	25	65	110	64	24	25
	HSK63A-SL32-110	2	32	72	110	68	24	28
	HSK63A-SL40-125	2	40	80	125	78	30	32



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.	ϕD	L	l	D2	D1	G	θ°	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
BT50	HPS-B62-1	19	54	29	14	17	M16	75	4	S 15 O-ring
	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.