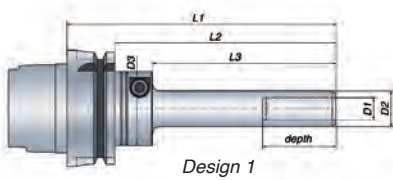
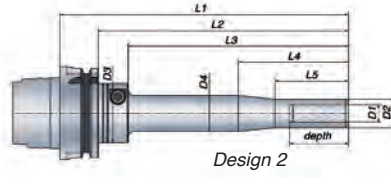


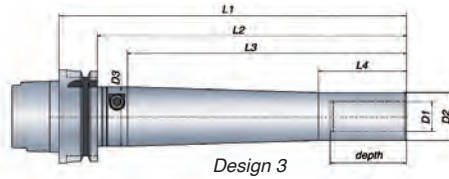
ETP HYDRO-GRIP® PENCIL HSK Form A - DIN 69893



Design 1



Design 2



Design 3



Slim and long reach

Metric range

Technical Specification HSK form A

Design	HSK size	Part no.	Item description	Dimensions, mm											T* Nm	Weight kg	G 2.5 at rpm	
				D1	D2	D3	D4	L1	L2	L3	L4	L5	depth					
● 1	63	683810	HG PENCIL-6x50/HSK63A	6	12	40		96.5	70.5	50					40	12-22	0.9	25 000
○ 1		683740	HG PENCIL-8x50/HSK63A	8	14.5	40		96.5	70.5	50					40	27-40	0.9	25 000
○ 1		683760	HG PENCIL-10x50/HSK63A	10	17	40		96.5	70.5	50					40	35-70	0.9	25 000
○ 1		683750	HG PENCIL-10x100/HSK63A	10	17	40		146.5	120.5	100					40	35-70	1.0	15 000
● 1		683830	HG PENCIL-12x50/HSK63A	12	19.5	40		96.5	70.5	50					40	60-125	0.9	25 000
● 1		705709	HG PENCIL-12x65/HSK63A	12	22	40		109	83	65					46	60-125	1.1	25 000
● 1		683840	HG PENCIL-12x100/HSK63A	12	19.5	40		146.5	120.5	100					40	60-125	1.0	15 000
● 2		683820	HG PENCIL-12x150/HSK63A	12	19.5	40	24.5	196.5	170.5	150	75	50			40	60-125	1.2	10 000
○ 1		683780	HG PENCIL-16x75/HSK63A	16	26	40		121.5	95.5	75					50	165-270	1.1	15 000
○ 1		683770	HG PENCIL-16x125/HSK63A	16	26	40		171.5	145.5	125					50	165-270	1.3	10 000
● 3		683790	HG PENCIL-20x110/HSK63A	20	32	40		156.5	130.5	110	60				52	260-425	1.5	20 000
● 3		683800	HG PENCIL-20x190/HSK63A	20	32	40		236.5	210.5	190	60				52	260-425	2.1	10 000
○ 1	100	683860	HG PENCIL-10x50/HSK100A	10	17	40		117	88	50					40	35-70	2.4	14 000
● 1		683850	HG PENCIL-10x100/HSK100A	10	17	40		167	138	100					40	35-70	2.5	14 000
● 1		683890	HG PENCIL-12x50/HSK100A	12	19.5	40		117	88	50					40	60-125	2.4	14 000
● 1		683920	HG PENCIL-12x100/HSK100A	12	19.5	40		167	138	100					40	60-125	2.5	14 000
● 2		706305	HG PENCIL-12x150/HSK100A**	12	19.5	40	24.5	217	188	150	75	50			40	60-125	2.7	10 000
○ 1		683880	HG PENCIL-16x75/HSK100A	16	26	40		142	113	75					50	165-270	2.6	14 000
● 1		683870	HG PENCIL-16x125/HSK100A	16	26	40		192	163	125					50	165-270	2.8	10 000
● 3		683900	HG PENCIL-20x110/HSK100A	20	32	40		177	148	110	60				52	260-425	3.0	14 000
● 3		683910	HG PENCIL-20x190/HSK100A	20	32	40		257	228	190	60				52	260-425	3.6	10 000

Inch range

● From stock
○ On request

Technical Specification HSK form A

Design	HSK size	Part no.	Item description	Dimensions, inch											T* ft-lb	Weight kg	G 2.5 at rpm	
				D1	D2	D3	D4	L1	L2	L3	L4	L5	depth					
● 1	63	683810-T	HG PENCIL-1/4"x50/HSK63A	0.250	0.472	1.575		3.799	2.776	1.969					1.575	13-20	0.9	25 000
● 1		683830-T	HG PENCIL-1/2"x50/HSK63A	0.500	0.768	1.575		3.799	2.776	1.969					1.575	55-105	0.9	25 000
● 1		683840-T	HG PENCIL-1/2"x100/HSK63A	0.500	0.768	1.575		5.768	4.744	3.937					1.575	55-105	1.0	15 000
● 2		683820-T	HG PENCIL-1/2"x150/HSK63A	0.500	0.768	1.575	0.965	7.736	6.713	5.906	2.953	1.969			1.575	55-105	1.2	10 000
● 3		683790-T	HG PENCIL-3/4"x110/HSK63A	0.750	1.260	1.575		6.161	5.138	4.331	2.362				2.047	192-314	1.5	20 000
● 3		683800-T	HG PENCIL-3/4"x190/HSK63A	0.750	1.260	1.575		9.311	8.287	7.480	2.362				2.047	192-314	2.1	10 000
● 1	100	683890-T	HG PENCIL-1/2"x50/HSK100A	0.500	0.768	1.575		4.606	3.465	1.969					1.575	55-105	2.4	14 000
● 1		683920-T	HG PENCIL-1/2"x100/HSK100A	0.500	0.768	1.575		6.575	5.433	3.937					1.575	55-105	2.5	14 000
● 2		683930-T	HG PENCIL-1/2"x150/HSK100A	0.500	0.768	1.575	0.965	8.543	7.402	5.906	2.953	1.969			1.575	55-105	2.7	10 000
● 3		683900-T	HG PENCIL-3/4"x110/HSK100A	0.750	1.260	1.575		6.969	5.827	4.331	2.362				2.047	192-314	3.0	14 000
● 3		683910-T	HG PENCIL-3/4"x190/HSK100A	0.750	1.260	1.575		10.118	8.976	7.480	2.362				2.047	192-314	3.6	10 000

*) T = Min. and Max. transmittable torque using a h6 cylindrical tool, full depth insert. For additional information see section Technical Information.

**) Center thread, M5x0.8, for axial length adjustment screw (screw not included). Part no. S041.

Information:

- Runout accuracy < 0.004 mm at 2.5 x D1 (max. 50 mm)
≤ 0.00016 inch at 2.5 x D1 (max. 1.969 inch)
≤ 0.007 mm at 2.5 x D1 at length L1 > 125 mm
≤ 0.00028 inch at 2.5 x D1 at length L1 > 4.921 inch
- Tool shank h6 or h7 can be used
- Coolant through on all holders
- Bore for data carrier

Accessories:

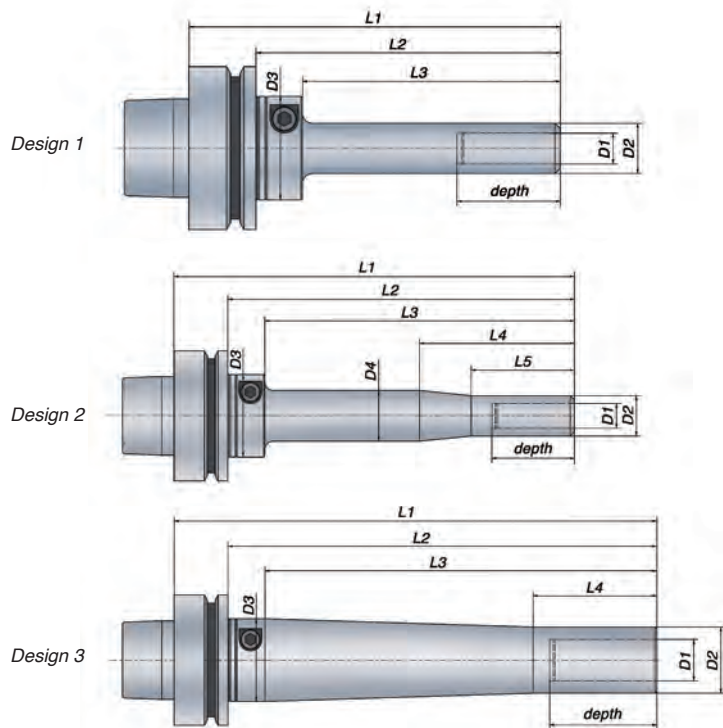
Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050

ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® PENCIL HSK Form F - DIN 69893



Metric range

Technical Specification HSK form F

Design	HSK size	Part no.	Item description	Dimensions, mm											T* Nm	Weight kg	G 2.5 at rpm	
				D1	D2	D3	D4	L1	L2	L3	L4	L5	depth					
● 1	63	684400	HG PENCIL-6x50/HSK63F	6	12	40		94	68	50					40	12-22	0.8	25 000
● 1		684440	HG PENCIL-12x50/HSK63F	12	19.5	40		94	68	50					40	60-125	0.9	25 000
● 1		684450	HG PENCIL-12x100/HSK63F	12	19.5	40		144	118	100					40	60-125	1	15 000
● 2		684460	HG PENCIL-12x150/HSK63F	12	19.5	40	24.5	194	168	150	75	50		40	60-125	1.2	10 000	
● 3		684490	HG PENCIL-20x110/HSK63F	20	32	40		154	128	110	60			52	260-425	1.4	20 000	
● 3		684500	HG PENCIL-20x190/HSK63F	20	32	40		234	208	190	60			52	260-425	2.1	10 000	

Inch range

Technical Specification HSK form F

Design	HSK size	Part no.	Item description	Dimensions, inch											T* ft-lb	Weight kg	G 2.5 at rpm	
				D1	D2	D3	D4	L1	L2	L3	L4	L5	depth					
● 1	63	684540	HG PENCIL-1/2"x50/HSK63F	0.500	0.768	1.575		3.701	2.677	1.969					1.575	55-105	0.9	25 000
● 1		684550	HG PENCIL-1/2"x100/HSK63F	0.500	0.768	1.575		5.669	4.646	3.937					1.575	55-105	1	15 000
● 2		684560	HG PENCIL-1/2"x150/HSK63F	0.500	0.768	1.575	0.965	7.638	6.614	5.906	2.953	1.969		1.575	55-105	1.2	10 000	
● 3		684590	HG PENCIL-3/4"x110/HSK63F	0.750	1.260	1.575		6.063	5.039	4.331	2.362			2.047	192-314	1.4	20 000	
● 3		684600	HG PENCIL-3/4"x190/HSK63F	0.750	1.260	1.575		9.213	8.189	7.480	2.362			2.047	192-314	2.1	10 000	

*) T = Min. and Max. transmittable torque using a h6 cylindrical tool, full depth insert. For additional information see section Technical Information.

- From stock
- On request

Information:

- Runout accuracy < 0.004 mm at 2.5 x D1 (max. 50 mm)
 ≤ 0.00016 inch at 2.5 x D1 (max. 1.969 inch)
- ≤ 0.007 mm at 2.5 x D1 at length L1 > 125 mm
 ≤ 0.00028 inch at 2.5 x D1 at length L1 > 4.921 inch
- Tool shank h6 or h7 can be used
- Coolant through on all holders

Accessories:

Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050

ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.

