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Hydraulic high precision toolholders



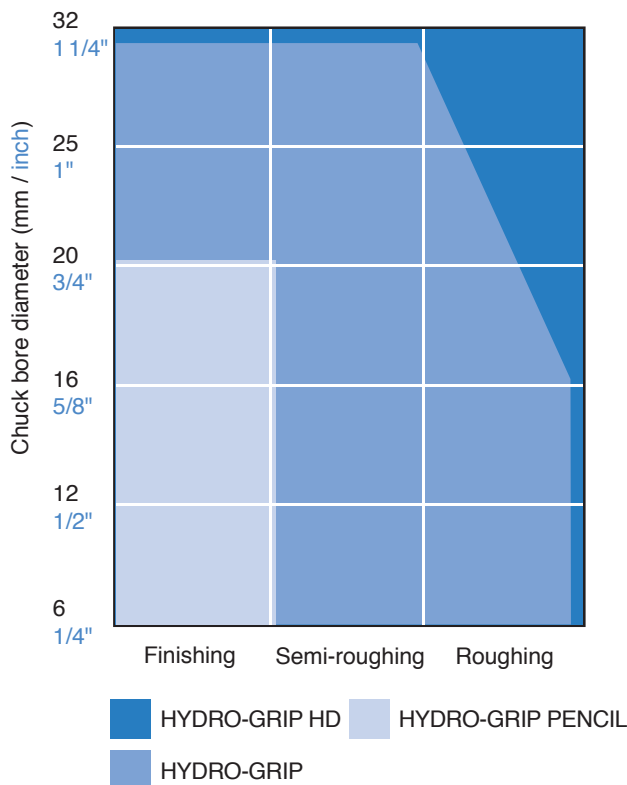
ETP HYDRO-GRIP

Hydraulic high precision toolholders

HYDRO-GRIP high precision tool holders are your guarantee of secure clamping for milling, drilling and reaming tools. Their unique strength provides precision and rigid-tool stability to improve machining performance for the largest number of applications. With the extensive range of HYDRO-GRIP® high precision toolholders all application areas, from finishing to heavy roughing, is covered. Bore diameters 6 – 32 mm available.

BENEFITS & FEATURES

- Easy handling and tool change
- Minimum tool run-out ensures good surface and extends tool life
- High speed capability
- Dampens noise and vibration
- Length pre-setting possible to save time



About ETP Transmission AB

ETP Transmission AB, after being in business for more than 40 years, has successfully developed products for 3 business or application areas.

- Metalworking • Woodworking
- Power Transmission under the registered trademarks ETP® and ETP HYDRO-GRIP®.

ETP Transmission AB

– leader in hydraulic clamping and centering products



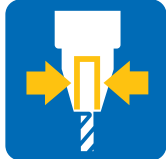
Our business concept and all products are based upon the hydraulic principle. The ETP high precision products offer quick assembly and disassembly. With other words, you can fit your tools or components quick, easy and precise and run at high speeds. Within a few seconds you achieve perfect centering and fastening, simply by tightening of only one screw. Saving you time and money.

We are a global company and our customers are the leaders within their segments. This is the way we like it, working with companies that expect the absolute best from us. Your challenges drive us forward!

Key to symbols



Easy mounting
with torque
wrench



High clamping
force



High runout
accuracy



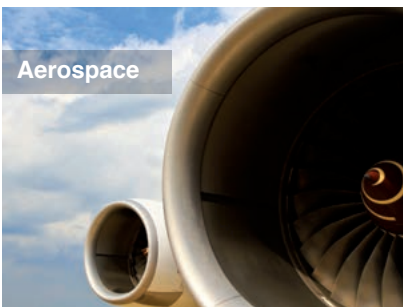
Vibration
damping



Fast
set-up time

Industry segments

ETP HYDRO-GRIP has for many years enabled high quality machining within industry segment with high quality demands, such as: Aerospace, Automotive, Die & Mould, General Machining, Medical, Oil & Gas.



Aerospace



Automotive



Die & Mould



General Machining



Oil & Gas



Medical

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Delivery times

- From stock
- On request

The basic design: ETP HYDRO-GRIP - Hydraulic high precision toolholder

Pressure system:

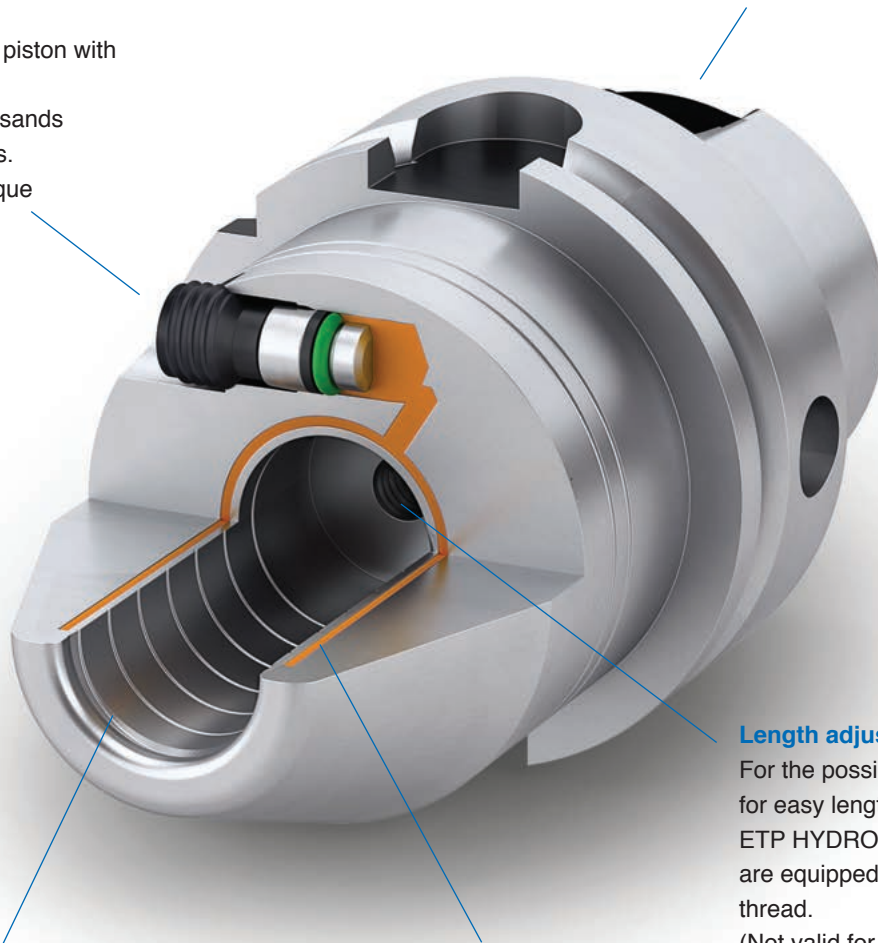
Pressure screw and piston with sealing system.

- Optimised for thousands of pressure settings.
- Low tightening torque (6 or 10 Nm)
- Easy handling

Toolholder shank:

ETP HYDRO-GRIP is available in a large assortment of different machine interface shanks:

PSK – C3, C4, C5, C6, C8
HSK – 32, 40, 50, 63, 100
ISO – 30, 40, 50
BT – 30, 40, 50
CAT – 40, 50



The groove:

The integral spiral groove ensures any residual coolant on the tool to be removed from the contact surface when mounting the tool.

- Ensures high gripping force at any time

Length adjustment:

For the possibility to add screw for easy length adjustment ETP HYDRO-GRIP toolholders are equipped with a center thread.

(Not valid for PENCIL design).

Pressure chamber:

- Secure clamping of any tool type.
- A robust membrane and minimum amount of pressure media ensures a good temperature working range.

BENEFITS & FEATURES

- For drilling to semi-roughing
- High clamping force
- Easy handling
- Short overhang
- Modular design possibility

Product overview

ETP HYDRO-GRIP Family

ETP HYDRO-GRIP® THE ORIGINAL



ETP HYDRO-GRIP® HD HEAVY DUTY



ETP HYDRO-GRIP® SLENDER SLENDER DESIGN



ETP HYDRO-GRIP® PENCIL SLIM AND LONG REACH



ETP HYDRO-GRIP® S GRINDING HOLDER



ETP ECOGRIP® ECONOMY LINE



ETP ECOGRIP® ER ADJUSTABLE HOLDER



Product overview

Assortment

The ETP HYDRO-GRIP high precision toolholders offers you the most complete advantages of any hydraulic holder available on the market today. No other fastening technology than hydraulic clamping offers you the highest precision, in terms of tool life and higher surface quality, in combination with a total concept of easy handling and flexibility in design.

ETP combines easy handling and low maintenance with an extensive range!



Interfaces

Toolholder	CAT Page 12-19	BT Page 20-28	ISO Page 29-33	HSK Page 34-41	PSK Page 42-46	ER Page 48-49
 ETP HYDRO-GRIP	CAT 40 CAT 50	BT 40 BT 50	ISO 30 ISO 40 ISO 50	HSK 32C HSK 40C HSK 50C HSK 63A/C HSK 100A/C	PSK C3 PSK C4 PSK C5 PSK C6 PSK C8	
 ETP HYDRO-GRIP HD	CAT 40 CAT 50	BT 40 BT 50	ISO 40 ISO 50	HSK 63A/C HSK 100A/C	PSK C5 PSK C6 PSK C8	
 ETP HYDRO-GRIP SLENDER	CAT 40 CAT 50	BT30 BT50		HSK 63F		
 ETP HYDRO-GRIP PENCIL	CAT 40 CAT 50	BT 30 BT 40 BT 50	ISO 40 ISO 50	HSK 63A/C HSK 63F HSK 100A/C	PSK C4 PSK C5 PSK C6 PSK C8	
 ETP HYDRO-GRIP S			ISO 50			
 ETP ECOGRIP		BT30 BT 40	ISO 40 ISO 50			
 ETP ECOGRIP ER						ER 16 ER 20 ER 25 ER 32 ER 40 ER 50

Product overview

Area of application

HYDRO-GRIP high precision toolholders are your guarantee of secure clamping for milling, drilling and reaming tools. Their unique strength provides precision and rigid-tool stability to improve machining performance for the largest number of applications. With the extensive range

of HYDRO-GRIP high precision toolholders all application areas, from finishing to heavy roughing, is covered. Our wide selection of toolholders ensures that you find the right solution for almost any machining application. Regardless if it's a high volume milling cutting operation, HYDRO-GRIP HD,

or when machining difficult deep contours within the mold making industry, HYDRO-GRIP PENCIL. And don't forget, all HYDRO-GRIP toolholders can be used with reduction sleeves, for maximum flexibility!

	 Finishing	 Semi-Roughing	 Roughing	 Slot Milling	 Plunging	 Contour Milling	 Trochoidal Milling	 Drilling	 Reaming: Through Hole	 Tapping: Blind Hole	 Threading: Through Hole
Toolholder	Finishing	Semi-Roughing	Roughing	Slot Milling	Plunging	Contour Milling	Trochoidal Milling	Drilling	Reaming	Tapping	Thread Milling
ETP HYDRO-GRIP 	●	●			●	●		●	●	●	●
ETP HYDRO-GRIP HD 	●	●	●	●	●	●	●	●	●	●	●
ETP HYDRO-GRIP SLENDER 	●	●				●		●	●	●	●
ETP HYDRO-GRIP PENCIL 	●				●	●		●	●		
ETP ECOGRIP 	●	●			●	●		●	●	●	●
ETP ECOGRIP ER 	●	●			●			●	●		



ETP HYDRO-GRIP®

ETP HYDRO-GRIP® has a very compact and robust design. Tools changes are made quickly, easily and with a high level of precision. The high clamping force guarantees a secure clamping of your milling, drilling and reaming tools. With a minimum tool runout a good

surface finish is achieved along with an extended tool life. In addition to our extensive standard range, ETP HYDRO-GRIP® can be made to your specific gauge line requirement, using our modular design possibility.

Hydraulic high precision toolholders



BENEFITS & FEATURES

- For drilling to semi-roughing
- High clamping force
- Easy handling
- Short overhang
- Modular design possibility

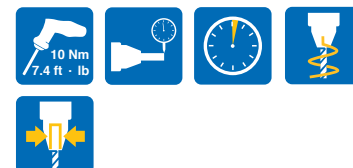


ETP HYDRO-GRIP® HD

ETP HYDRO-GRIP® HD, Heavy Duty, is the first hydraulic Power chuck available on the market. Here ETP combine all the positive benefits of hydraulic clamping, such as easy handling and precision, with an extreme high tool clamping force

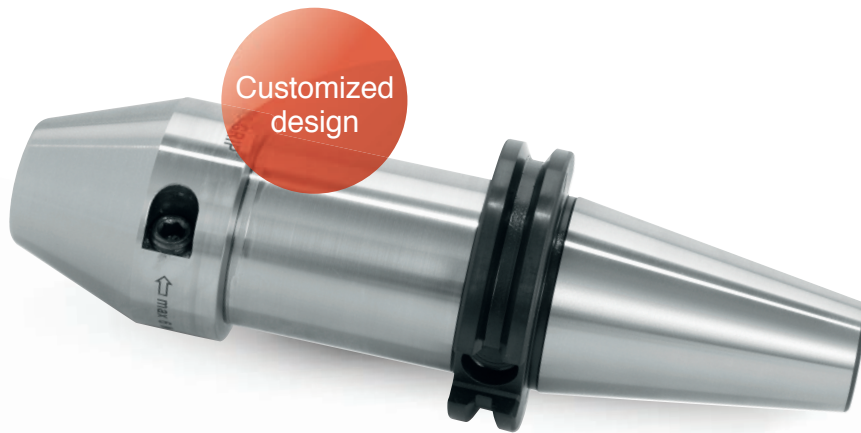
capability and rigid design. A high bending stiffness and the dampening properties of the hydraulic pressure media makes ETP HYDRO-GRIP® HD the ideal holder for any machining, from heavy rough milling to finishing.

Heavy Duty version.
Up to 1670 Nm holding torque!



BENEFITS & FEATURES

- For rough milling to finishing
- Extreme high clamping force
- Easy handling
- Rigid design



Design your own
hydraulic precision
toolholder - Online
customized.etp.se



BENEFITS & FEATURES

- Maximum flexibility in your design
- Choose your required gauge line length
- Radial length adjustment module possible

ETP HYDRO-GRIP® CUSTOMIZED DESIGN

ETP HYDRO-GRIP toolholders can be made to your specific gauge line length requirement, using our modular design possibility.

Combine any machine shank available in our assortment, with any tool dimension (12 – 32 mm). With an

intermediate sleeve, ETP offers you your customized toolholder to any required gauge length (up to 250 mm).

These customized toolholders offer the same rigid solid design, dampening properties and high runout precision as our standard assortment.



Hydraulic high
precision toolholders



BENEFITS & FEATURES

- Quick and easy tool change
- High performance
- Slender design
- Excellent runout

ETP HYDRO-GRIP® SLENDER

HYDRO-GRIP type SLENDER is extremely user friendly which means quick and easy tool changes. It has a tough and slender design.



Hydraulic high precision toolholders – Pencil version



ETP HYDRO-GRIP® PENCIL

ETP HYDRO-GRIP® PENCIL is with its extreme slim design one of the most versatile holder on the market. An extensive range of standard dimensions and lengths optimizes your productivity when

machining deep cavities and complex components. ETP HYDRO-GRIP® PENCIL can also be made to your specific gauge line requirement, using our Customized Designs possibility.

BENEFITS & FEATURES

- For drilling to finishing
- Pencil design enabling machining in deep cavities and complex components
- Special designs possibility
- High clamping force



ETP HYDRO-GRIP® Grinding holder

We are happy to introduce our newest addition to the range of high quality hydraulic toolholders – HYDRO-GRIP Grinding holder.

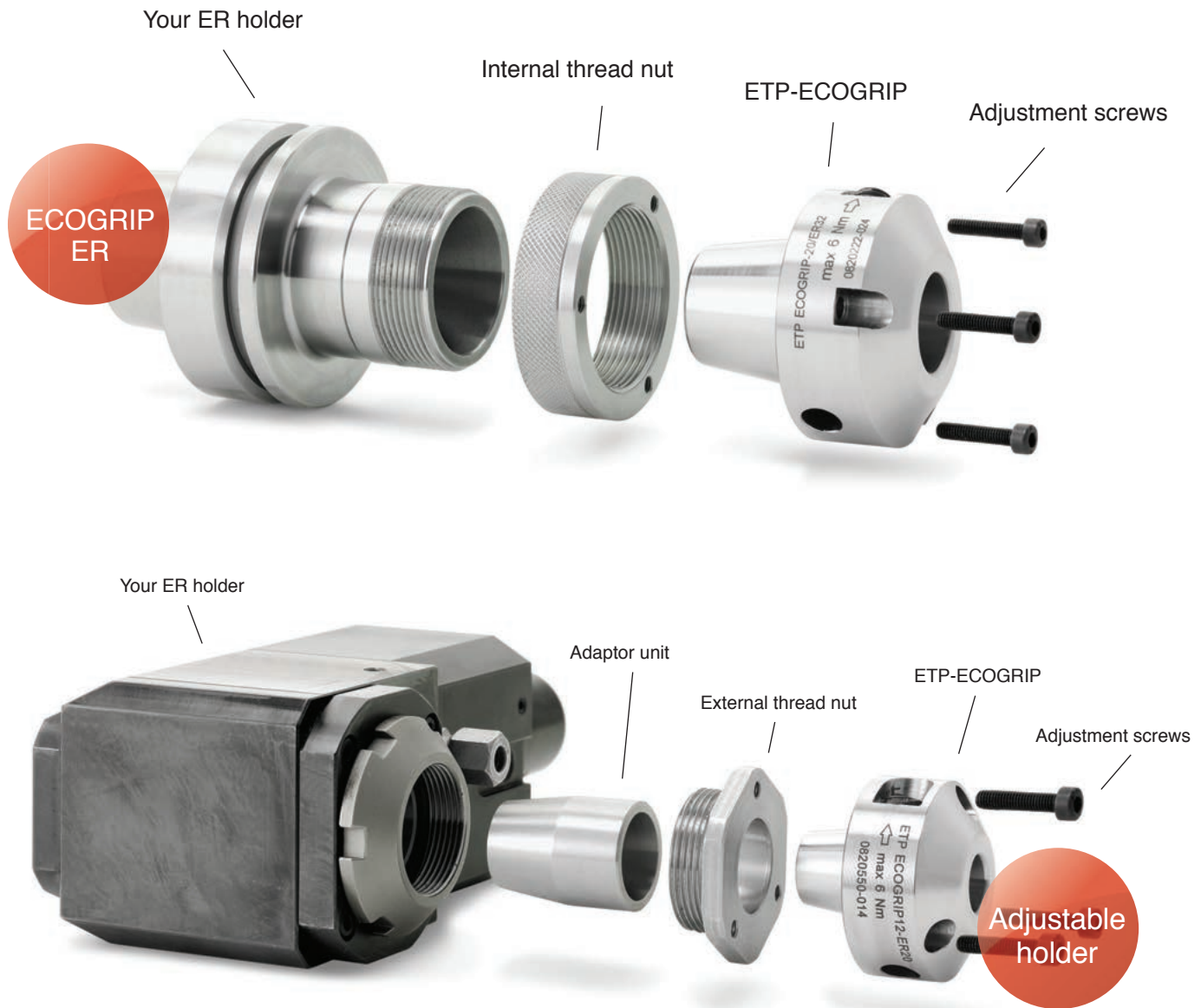
With the combination of extreme high precision and easy handling and tool change a massive improvement in

productivity can be reached. Quicker set-up times and improved repeat accuracy during sharpening of tools will save you time and money. The possibility to use reduction sleeves in the hydraulic holder also increases your flexibility.



BENEFITS & FEATURES

- High run-out accuracy
≤ 0,004 mm (≤ 0.00016 inch)
- Easy handling and tool change
- High clamping force
- Vibration dampening
- Flexibility in clamping range
– use of reducing sleeves possible



Make your ER holder hydraulic and enjoy multiple benefits

ETP ECOGRIP™ ER

With the ETP ECOGRIP ER hydraulic sleeves you can easily turn your standard ER collet holder into a high precision hydraulic holder. Thus you can easily enjoy all the positive benefits of hydraulic clamping such as easy handling and precision, at an

impressive competitive price level. This enables more users to benefit from decrease tool wear and increase productivity compared to using ER collet holders. With the use of the three axial screws an adjustability of the run-out is achieved.

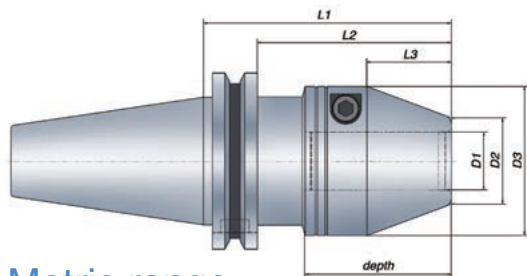


BENEFITS & FEATURES

- Turning ER holders hydraulic
- Easy handling and precision
- Adjustability of run-out

ETP HYDRO-GRIP® CAT Form AD/B - ASME B5.50

The Original



Metric range

Technical Specification CAT form AD/B

				Dimensions, mm											
	Taper	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm		
●	40	685470	HG-12/CAT40	12	22	43.5	56	36.95	18	40	60-125	1.1	25 000		
●		685480	HG-12x100/CAT40	12	22	43.5	100	80.95	18	40	60-125	1.6	25 000		
○		685490	HG-16/CAT40	16	26	48	86	66.95	28	50	165-270	1.5	25 000		
○		685500	HG-16x125/CAT40	16	26	48	125	105.95	28	50	165-270	2	25 000		
●		685510	HG-20/CAT40	20	30	52	88	68.95	30	52	260-425	1.5	25 000		
●		685520	HG-20x125/CAT40	20	30	52	125	105.95	30	52	260-425	2.1	25 000		
●		685530	HG-25/CAT40	25	35	59	93	73.95	34	56	480-710	1.7	25 000		
●		705911	HG-32/CAT40	32	42	69.5	104	84.95	38	60	820 - 1250	2.2	25 000		
○	50	685540	HG-12/CAT50	12	22	43.5	56	36.95	18	40	60-125	2.8	14 000		
○		685550	HG-12x100/CAT50	12	22	43.5	100	80.95	18	40	60-125	3.2	14 000		
○		685560	HG-16/CAT50	16	26	48	66	46.95	28	50	165-270	3	14 000		
○		685570	HG-16x125/CAT50	16	26	48	125	105.95	28	50	165-270	3.5	14 000		
●		685580	HG-20/CAT50	20	30	52	68	48.95	30	52	260-425	3	14 000		
●		685590	HG-20x150/CAT50	20	30	52	150	130.95	30	52	260-425	4.4	14 000		
●		685600	HG-25/CAT50	25	35	59	72	52.95	34	56	480-710	3.2	14 000		
●		685610	HG-25x150/CAT50	25	35	59	150	130.95	34	56	480-710	4.8	14 000		
●		685620	HG-32/CAT50	32	42	69.5	77	57.95	38	60	820-1250	3.5	14 000		

Inch range

Technical Specification CAT form AD/B

	Taper	Part no.	Item description	Dimensions, inch										T* ft-lb	Weight kg	G 2.5 at rpm
				D1	D2	D3	L1	L2	L3	depth						
●	40	685470-T	HG-1/2"/CAT40	0.500	0.866	1.713	2.205	1.455	0.709	1.575	55-105	1.1	25 000			
○		685480-T	HG-1/2"x100/CAT40	0.500	0.866	1.713	3.937	3.187	0.709	1.575	55-105	1.6	25 000			
●		685510-T	HG-3/4"/CAT40	0.750	1.181	2.047	3.465	2.715	1.181	2.047	192-314	1.5	25 000			
●		682410-T	HG-3/4"x4"/CAT40	0.750	1.181	2.047	4.000	3.250	1.181	2.047	192-314	2.1	25 000			
●		685520-T	HG-3/4"x125/CAT40	0.750	1.181	2.047	4.921	4.171	1.181	2.047	192-314	2.1	25 000			
●		682420-T	HG-3/4"x6"/CAT40	0.750	1.181	2.047	6.000	5.250	1.181	2.047	192-314	2.6	25 000			
●		685530-T	HG-1"/CAT40	1.000	1.378	2.323	3.661	2.911	1.339	2.205	354-524	1.7	25 000			
●		705911-T	HG-1 1/4"/CAT40	1.250	1.654	2.736	4.094	3.344	1.496	2.362	605 - 922	2.2	25 000			
●	50	685580-T	HG-3/4"/CAT50	0.750	1.181	2.047	2.677	1.927	1.181	2.047	192-314	3	14 000			
●		682460-T	HG-3/4"x4"/CAT50	0.750	1.181	2.047	4.000	3.250	1.181	2.047	192-314	3.6	14 000			
●		682470-T	HG-3/4"x6"/CAT50	0.750	1.181	2.047	6.000	5.250	1.181	2.047	192-314	4.4	14 000			
●		685600-T	HG-1"/CAT50	1.000	1.378	2.323	2.835	2.085	1.339	2.205	354-524	3.2	14 000			
●		682480-T	HG-1"x4"/CAT50	1.000	1.378	2.323	4.000	3.250	1.339	2.205	354-524	3.8	14 000			
●		682490-T	HG-1"x6"/CAT50	1.000	1.378	2.323	6.000	5.250	1.339	2.205	354-524	4.9	14 000			
●		685620-T	HG-1 1/4"/CAT50	1.250	1.654	2.736	3.031	2.281	1.496	2.362	605-922	3.5	14 000			

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

For ISO equivalents, please contact ETP customer service; sales@etpinc.com

● From stock
○ On request

Information:

- Runout accuracy ≤ 0.004 mm at 2.5 x D1 (max. 50 mm), ≤ 0.00016 inch at 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier

Accessories:

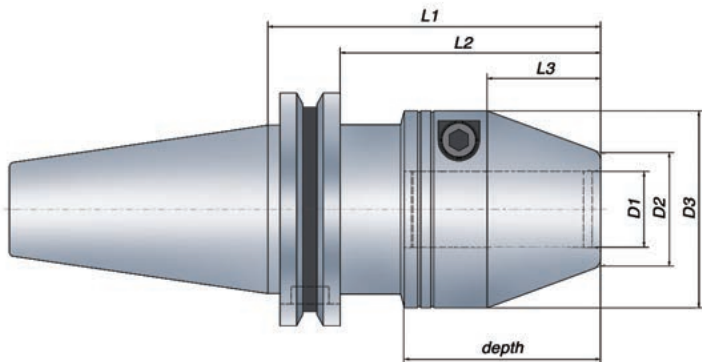
Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050.

ETP HYDRO-GRIP can be used with reducing sleeves.
For additional information see section Accessories.



ETP HYDRO-GRIP®

CAT Form AD/B - ASME B5.50 Dual Contact



Metric range

Technical Specification CAT form AD/B Dual Contact

Taper	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
40	681480	HG-20/DC-CAT40	20	30	52	88	68.95	30	52	260 - 425	1.5	25 000

Inch range

Technical Specification CAT form AD/B Dual Contact

Taper	Part no.	Item description	Dimensions, inch									
			D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm
40	681480-T	HG-3/4"/DC-CAT40	0.750	1.181	2.047	3.465	2.715	1.181	2.047	192 - 314	1.5	25 000

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- 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.

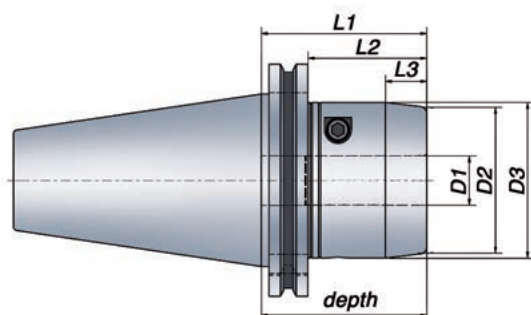
ETP HYDRO-GRIP can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® HD

CAT Form AD/B - ASME B5.50



Metric range

Technical Specification CAT form AD/B

Taper	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
● 40	682110	HG HD-20/CAT40	20	59	63	90	70.95	17	90	400-535	2	25 000
●	706006	HG HD-25/CAT40	25	70	74	100	80.95	17	56	740 - 940	2.7	25 000
● 50	682120	HG HD-20/CAT50	20	59	63	68	48.95	17	68	400-535	3.6	14 000
●	682130	HG HD-25/CAT50	25	70	74	92	72.95	17	92	740-940	4.6	14 000
●	682140	HG HD-32/CAT50	32	76	80	97	77.95	17	97	1325-1670	4.8	14 000

Inch range

Technical Specification CAT form AD/B

Taper	Part no.	Item description	Dimensions, inch									
			D1	D2	D3	L1	L2	L3	depth	T* ft·lb	Weight kg	G 2.5 at rpm
● 40	682110-T	HG HD-3/4"/CAT40	0.750	2.323	2.480	3.543	2.793	0.669	3.543	295-395	2	25 000
●	706006-T	HG HD-1"/CAT40	1.000	2.756	2.913	3.937	3.187	0.669	2.205	546 - 693	2.7	25 000
● 50	682120-T	HG HD-3/4"/CAT50	0.750	2.323	2.480	2.677	1.927	0.669	2.677	295-395	3.6	14 000
●	682130-T	HG HD-1"/CAT50	1.000	2.756	2.913	3.622	2.872	0.669	3.622	546-693	4.6	14 000
●	682140-T	HG HD-1 1/4"/CAT50	1.250	2.992	3.150	3.819	3.069	0.669	3.819	977-1232	4.8	14 000

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

For ISO equivalents, please contact ETP customer service; sales@etpinc.com

● From stock

○ On request

Information:

- Runout accuracy ≤ 0.004 mm at $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included). Part no. S042
- Coolant through on all holders
- Bore for data carrier, available on request

Accessories:

Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

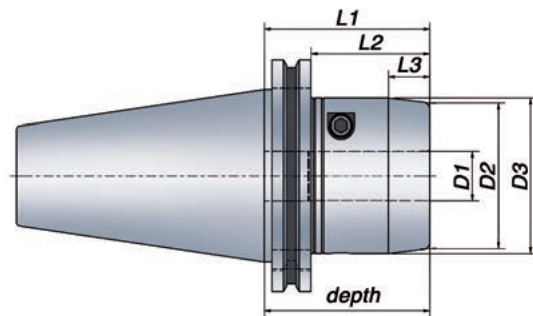
ETP HYDRO-GRIP HD can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® HD

CAT Form AD/B - ASME B5.50 Dual Contact



Metric range

Technical Specification CAT form AD/B Dual Contact

Taper	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
40	682350	HG HD-20/DC-CAT40	20	59	63	90	70.95	17	90	400-535	2	25 000

Inch range

Technical Specification CAT form AD/B Dual Contact

Taper	Part no.	Item description	Dimensions, inch									
			D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm
40	682350-T	HG HD-3/4"/DC-CAT40	0.750	2.323	2.480	3.543	2.793	0.669	3.543	295-395	2	25 000

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

For ISO equivalents, please contact ETP customer service; sales@etpinc.com

● From stock

○ On request

Information:

- Runout accuracy ≤ 0.004 mm at $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included).
Part no. S042
- Coolant through on all holders
- Bore for data carrier available on request

Accessories:

Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

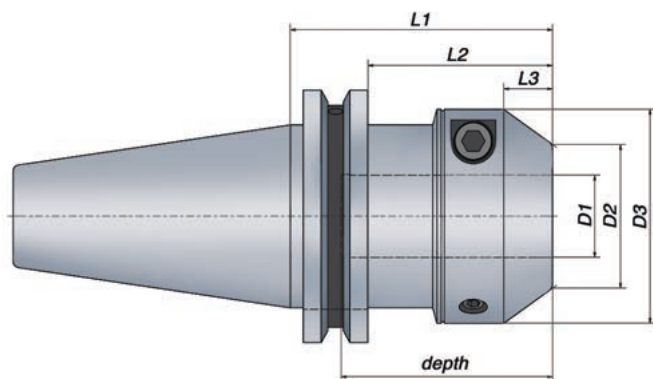
ETP HYDRO-GRIP HD can be used with reducing sleeves.

For additional information see section Accessories.



ETP ECOGRIP™

CAT Form AD/B - ASME B5.50



Metric range

Technical Specification CAT form AD/B

Taper	Part no.	Item description	Dimensions, mm							T* Nm	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
40	687620	ECOGRIP-20/CAT40	20	35	52	64.5	45.45	12	52	400 - 535	1.3	25 000

Inch range

Technical Specification CAT form AD/B

Taper	Part no.	Item description	Dimensions, inch							T* ft-lb	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
40	687620-T	ECOGRIP-3/4"/CAT40	0.750	1.378	2.047	2.539	1.789	0.472	2.047	295 - 395	1.3	25 000

*) 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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier - available on request

Accessories:

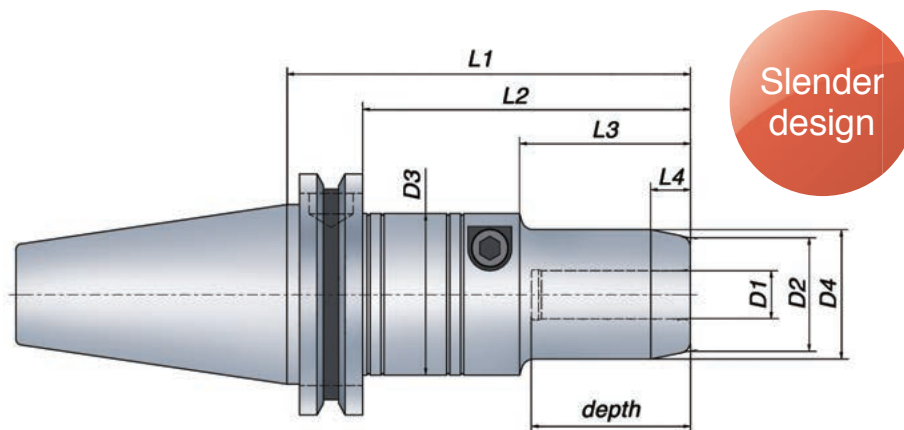
Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

ETP ECOGRIP can be used with reducing sleeves.
For additional information see section Accessories.



ETP HYDRO-GRIP® SLENDER

CAT Form AD/B - ASME B5.50



Metric range

Technical Specification CAT form AD/B

	Taper	Part no.	Item description	Dimensions, mm											T* kg	Weight at rpm	G 2.5
				D1	D2	D3	D4	L1	L2	L3	L4	depth Nm					
○	40	681600	HG SLENDER-12x4"/CAT40	12	28	40	32	101.6	82.55	43	10	40	60-125	1.4	25 000		
○		681610	HG SLENDER-12x6"/CAT40	12	28	40	32	152.4	133.35	43	10	40	60-125	1.9	25 000		
○		681620	HG SLENDER-16x4"/CAT40	16	34	40	38	101.6	82.55	43	10	40	165-270	1.5	25 000		
○		681630	HG SLENDER-16x6"/CAT40	16	34	40	38	152.4	133.35	43	10	40	165-270	2	25 000		

Inch range

Technical Specification CAT form AD/B

			Dimensions, inch												
	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	depth	T* ft-lb	Weight kg	G 2.5 at rpm
●	40	681600-T	HG SLENDER-1/2"x4/CAT40	0.500	1.102	1.575	1.260	4.000	3.250	1.693	0.393	1.575	55-105	1.4	25 000
●		681610-T	HG SLENDER-1/2"x6"/CAT40	0.500	1.102	1.575	1.260	6.000	5.250	1.693	0.393	1.575	55-105	1.9	25 000
○		681620-T	HG SLENDER-5/8"x4"/CAT40	0.625	1.339	1.575	1.496	4.000	3.250	1.693	0.393	1.575	122-199	1.5	25 000
○		681630-T	HG SLENDER-5/8"x6"/CAT40	0.625	1.339	1.575	1.496	6.000	5.250	1.693	0.393	1.575	122-199	2	25 000
○	50	681740-T	HG SLENDER-3/4"x4"/CAT50	0.750	1.417	1.969	1.575	4.000	3.250	2.165	0.393	2.047	192-314	3.4	25 000
○		681750-T	HG SLENDER-3/4"x6"/CAT50	0.750	1.417	1.969	1.575	6.000	5.250	2.165	0.393	2.047	192-314	4.1	25 000

*) 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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used

Accessories:

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

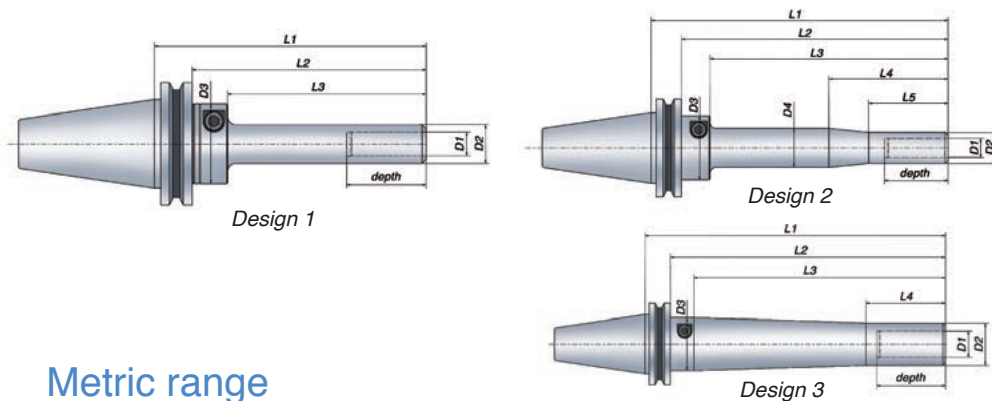
ETP HYDRO-GRIP SLENDER can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® PENCIL

CAT Form AD/B - ASME B5.50



Metric range

Technical Specification CAT form AD/B

					Dimensions, mm															
	Design	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	depth	T* Nm	Weight kg	G 2.5 at rpm			
●	1	40	683560	HG PENCIL-6x50/CAT40	6	12	40		88	68.95	50			40	12-22	1	25 000			
○	1		683570	HG PENCIL-8x50/CAT40	8	14.5	40		88	68.95	50			40	27-40	1	25 000			
○	1		683590	HG PENCIL-10x50/CAT40	10	17	40		88	68.95	50			40	35-70	1	25 000			
○	1		683580	HG PENCIL-10x100/CAT40	10	17	40		138	118.95	100			40	35-70	1.1	15 000			
●	1		683650	HG PENCIL-12x50/CAT40	12	19.5	40		88	68.95	50			40	60-125	1	25 000			
●	1		683600	HG PENCIL-12x100/CAT40	12	19.5	40		138	118.95	100			40	60-125	1.1	15 000			
●	2		683610	HG PENCIL-12x150/CAT40	12	19.5	40	24.5	188	168.95	150	75	50	40	60-125	1.4	10 000			
○	1		683630	HG PENCIL-16x75/CAT40	16	26	40		113	93.95	75			50	165-270	1.2	15 000			
○	1		683620	HG PENCIL-16x125/CAT40	16	26	40		163	143.95	125			50	165-270	1.4	10 000			
●	3		683660	HG PENCIL-20x110/CAT40	20	32	40		148	128.95	110	60		52	260-425	1.6	20 000			
●	3		683640	HG PENCIL-20x190/CAT40	20	32	40		228	208.95	190	60		52	260-425	2.3	10 000			
●	1	50	684290	HG PENCIL 12x50/CAT50	12	19.5	40		88	68.95	50			40	60-125	2.9	14 000			
●	1		684300	HG PENCIL 12x100/CAT50	12	19.5	40		138	118.95	100			40	60-125	3	14 000			
●	2		684310	HG PENCIL 12x150/CAT50	12	19.5	40	24.5	188	168.95	150	75	50	40	60-125	3.2	10 000			
●	3		684340	HG PENCIL 20x110/CAT50	20	32	40		148	128.95	110	60		52	260-425	3.4	14 000			
●	3		684350	HG PENCIL 20x190/CAT50	20	32	40		228	208.95	190	60		52	260-425	4.1	10 000			

Inch range

Technical Specification CAT form AD/B

	Design	Taper	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	40	683560-T	HG PENCIL-1/4"x50/CAT40	0.250	0.472	1.575		3.465	2.715	1.969			1.575	13-20	1	25 000			
●	1		683650-T	HG PENCIL-1/2"x50/CAT40	0.500	0.768	1.575		3.465	2.715	1.969			1.575	55-105	1	25 000			
●	1		683600-T	HG PENCIL-1/2"x100/CAT40	0.500	0.768	1.575		5.433	4.683	3.937			1.575	55-105	1.1	15 000			
●	2		683610-T	HG PENCIL-1/2"x150/CAT40	0.500	0.768	1.575	0.965	7.402	6.652	5.906	2.953	1.969	1.575	55-105	1.4	10 000			
●	3		683660-T	HG PENCIL-3/4"x110/CAT40	0.750	1.260	1.575		5.827	5.077	4.331	2.362		2.047	192-314	1.6	20 000			
●	3		683640-T	HG PENCIL-3/4"x190/CAT40	0.750	1.260	1.575		8.976	8.226	7.480	2.362		2.047	192-314	2.3	10 000			
●	1	50	684290-T	HG PENCIL 1/2"x50/CAT50	0.500	0.768	1.575		3.465	2.715	1.969			1.575	55-105	2.9	14 000			
●	1		684300-T	HG PENCIL 1/2"x100/CAT50	0.500	0.768	1.575		5.433	4.683	3.937			1.575	55-105	3	14 000			
●	2		684310-T	HG PENCIL 1/2"x150/CAT50	0.500	0.768	1.575	0.965	7.402	6.652	5.906	2.953	1.969	1.575	55-105	3.2	10 000			
●	3		684340-T	HG PENCIL 3/4"x110/CAT50	0.750	1.260	1.575		5.827	5.077	4.331	2.362		2.047	192-314	3.4	14 000			
●	3		684350-T	HG PENCIL 3/4"x190/CAT50	0.750	1.260	1.575		8.976	8.226	7.480	2.362		2.047	192-314	4.1	10 000			

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

For ISO equivalents, please contact ETP customer service; sales@etpinc.com

● From stock

○ On request

Information:

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

INFO@SWIFTTOOL.COM

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.

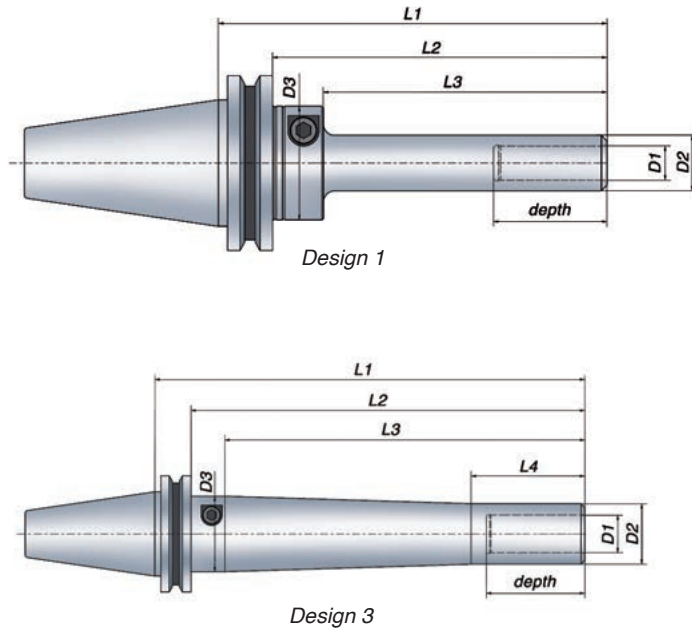
For additional information see section Accessories.



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ETP HYDRO-GRIP® PENCIL

CAT Form AD/B - ASME B5.50 Dual Contact



Dual
Contact



Metric range

Technical Specification CAT form AD/B Dual Contact

	Design	Taper	Part no.	Item description	Dimensions, mm														depth	T* Nm	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5									
●	1	40	684830	HG PENCIL-12x50/DC-CAT40	12	19.5	40		100	80.95	50				40	60-125	1.2	25 000				
●	1		684840	HG PENCIL-12x100/DC-CAT40	12	19.5	40		150	130.95	100				40	60-125	1.3	15 000				
●	3		684860	HG PENCIL-20x110/DC-CAT40	20	32	40		160	140.95	110	60			52	260-425	1.8	20 000				

Inch range

Technical Specification CAT form AD/B Dual Contact

				Dimensions, inch																	
	Design	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	depth	T* ft-lb	Weight kg	G 2.5 at rpm				
	1	40	684830-T	HG PENCIL-1/2"x50/DC-CAT40	0.500	0.768	1.575		3.937	3.187	1.969			1.575	55-105	1.2	25 000				
	1		684840-T	HG PENCIL-1/2"x100/DC-CAT40	0.500	0.768	1.575		5.906	5.156	3.937			1.575	55-105	1.3	15 000				
	3		684860-T	HG PENCIL-3/4"x110/DC-CAT40	0.750	1.220	1.575		6.299	5.549	4.331	2.362		2.047	192-314	1.8	20 000				

*) 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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
 ≤ 0.007 mm at $2.5 \times D1$ at length $L1 > 125$ mm
 ≤ 0.00028 inch at $2.5 \times D1$ at length $L1 > 4.921$ inch
- Tool shank h6 or h7 can be used
- Coolant through on all holders
- Bore for data carrier

INFO@SWIFTTOOL.COM

Accessories:

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

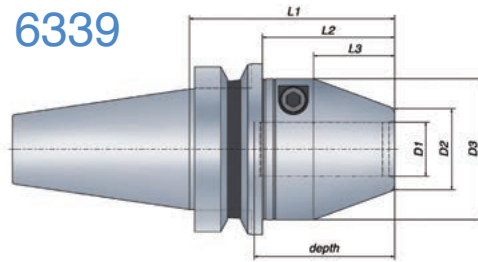
ETP HYDRO-GRIP can be used with reducing sleeves.
For additional information see section Accessories.



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ETP HYDRO-GRIP®

BT Form AD - JIS B 6339



The Original

Metric range

Technical Specification BT form AD

				Dimensions, mm											
	Taper	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm		
●	30	685970	HG-12/BT30	12	22	43.5	59	37	18	40	60-125	0.7	25 000		
○		685980	HG-16/BT30	16	26	48	69	47	28	50	165-270	1	25 000		
		685991	HG-20/BT30	20	30	52	89	54	30	52	260-425	1.1	25 000		
●	40	685000	HG-12/BT40	12	22	43.5	64	37	18	40	60-125	1.3	25 000		
●		685010	HG-12x100/BT40	12	22	43.5	100	73	18	40	60-125	1.7	25 000		
○		685020	HG-16/BT40	16	26	48	74	47	28	50	165-270	1.4	25 000		
○		685030	HG-16x125/BT40	16	26	48	125	98	28	50	165-270	1.9	25 000		
●		685040	HG-20/BT40	20	30	52	76	49	30	52	260-425	1.5	25 000		
●		685050	HG-20x125/BT40	20	30	52	125	98	30	52	260-425	2.3	25 000		
●		685060	HG-25/BT40	25	35	59	80	53	34	56	480-710	1.6	25 000		
○	50	685070	HG-12/BT50	12	22	43.5	75	37	18	40	60-125	3.9	14 000		
○		685080	HG-12x100/BT50	12	22	43.5	100	62	18	40	60-125	4.3	14 000		
○		685090	HG-16/BT50	16	26	48	85	47	28	50	165-270	4.1	14 000		
○		685100	HG-16x125/BT50	16	26	48	125	87	28	50	165-270	4.6	14 000		
●		685110	HG-20/BT50	20	30	52	87	49	30	52	260-425	4.1	14 000		
●		685120	HG-20x150/BT50	20	30	52	150	112	30	52	260-425	5.2	14 000		
●		685130	HG-25/BT50	25	35	59	91	53	34	56	480-710	4.3	14 000		
●		685140	HG-25x150/BT50	25	35	59	150	112	34	56	480-710	5.5	14 000		
●		685150	HG-32/BT50	32	42	69.5	95	57	38	60	820-1250	4.5	14 000		

Inch range

Technical Specification BT form AD

			Dimensions, inch										
	Taper	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm
●	30	685970-T	HG-1/2"/BT30	0.500	0.866	1.713	2.323	1.457	0.709	1.575	55-105	0.7	25 000
●		685991-T	HG-3/4"/BT30	0.750	1.181	2.047	3.504	2.126	1.181	2.047	192-314	1.1	25 000
○	40	685000-T	HG-1/2"/BT40	0.500	0.866	1.713	2.520	1.457	0.709	1.575	55-105	1.3	25 000
○		685010-T	HG-1/2"x100/BT40	0.500	0.866	1.713	3.937	2.874	0.709	1.575	55-105	1.7	25 000
○		685040-T	HG-3/4"/BT40	0.750	1.181	2.047	2.992	1.929	1.181	2.047	192-314	1.5	25 000
○		685050-T	HG-3/4"x125/BT40	0.750	1.181	2.047	4.921	3.858	1.181	2.047	192-314	2.3	25 000
○		685060-T	HG-1"/BT40	1.000	1.378	2.323	3.150	2.087	1.339	2.205	354-524	1.6	25 000
○	50	685110-T	HG-3/4"/BT50	0.750	1.181	2.047	3.425	1.929	1.181	2.047	192-314	4.1	14 000
○		685120-T	HG-3/4"x150/BT50	0.750	1.181	2.047	5.906	4.409	1.181	2.047	192-314	5.2	14 000
○		685130-T	HG-1"/BT50	1.000	1.378	2.323	3.583	2.087	1.339	2.205	354-524	4.3	14 000
○		685140-T	HG-1"x150/BT50	1.000	1.378	2.323	5.906	4.409	1.339	2.205	354-524	5.5	14 000
○		685150-T	HG-1 1/4"/BT50	1.250	1.654	2.736	3.740	2.244	1.496	2.362	605-922	4.5	14 000

*) 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 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore data can be available on request

Accessories:

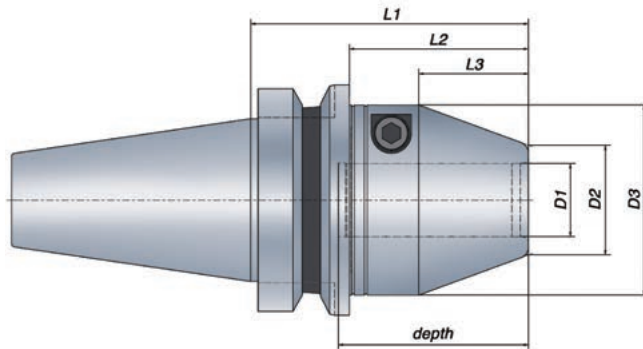
Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050

ETP HYDRO-GRIP can be used with reducing sleeves. For additional information see section Accessories.



ETP HYDRO-GRIP®

BT Form AD/B - JIS B 6339 Dual Contact



Metric range

Technical Specification BT form AD/B Dual Contact

Taper	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
40	681410	HG-20/DC-BT40	20	30	52	88	61	30	52	260-425	1.7	25 000

Inch range

Technical Specification BT form AD/B Dual Contact

Taper	Part no.	Item description	Dimensions, inch									
			D1	D2	D3	L1	L2	L3	depth	T* ft·lb	Weight kg	G 2.5 at rpm
40	681410-T	HG-3/4"/DC-BT40	0.750	1.181	2.047	3.465	2.402	1.181	2.047	192-314	1.7	25 000

*) 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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier - available on request

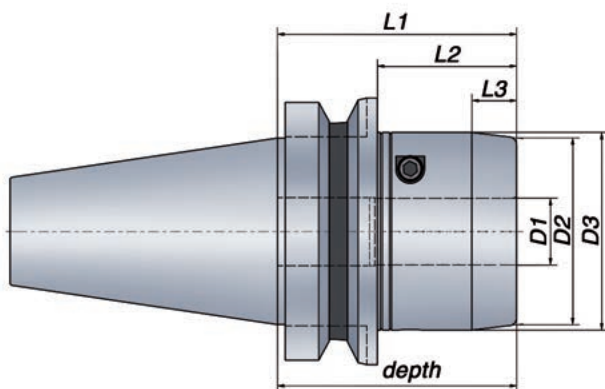
Accessories:

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

ETP HYDRO-GRIP can be used with reducing sleeves.
For additional information see section Accessories.



ETP HYDRO-GRIP® HD BT Form AD - JIS B 6339



Metric range

Technical Specification BT form AD

Taper	Part no.	Item description	Dimensions, mm							T* Nm	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
● 40	682000	HG HD-20/BT40	20	59	63	79		17	79	400-535	2	25 000
● 50	682010	HG HD-20/BT50	20	59	63	87	49	17	87	400-535	4.5	25 000
●	682020	HG HD-25/BT50	25	70	74	91	53	17	91	740-940	5	14 000
●	682030	HG HD-32/BT50	32	76	80	95	57	17	95	1325-1670	5.2	14 000

Inch range

Technical Specification BT form AD

Taper	Part no.	Item description	Dimensions, inch							T* ft-lb	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
○ 40	682000-T	HG HD-3/4"/BT40	0.750	2.323	2.480	3.110		0.669	3.110	295-395	2	25 000
○ 50	682010-T	HG HD-3/4"/BT50	0.750	2.323	2.480	3.425	1.929	0.669	3.425	295-395	4.5	25 000
○	682020-T	HG HD-1"/BT50	1.000	2.756	2.913	3.583	2.087	0.669	3.583	546-693	5	25 000
○	682030-T	HG HD-1 1/4"/BT50	1.250	2.992	3.150	3.740	2.244	0.669	3.740	977-1232	5.2	25 000

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included) Part no. S042
- Coolant through on all holders
- Hole for data carrier - available on request

Accessories:

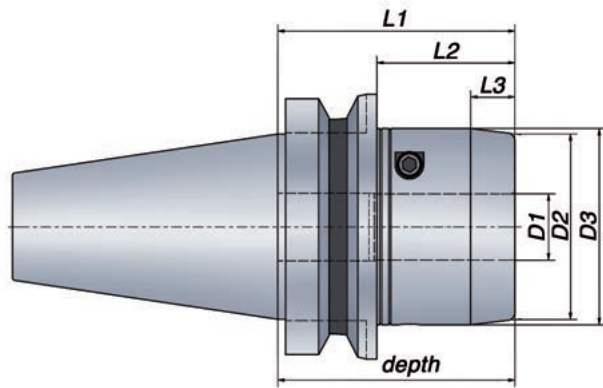
Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

ETP HYDRO-GRIP HD can be used with reducing sleeves.
For additional information see section Accessories.



ETP HYDRO-GRIP® HD

BT Form AD - JIS B 6339 Dual Contact



Metric range

Technical Specification BT form AD Dual Contact

Taper	Part no.	Item description	Dimensions, mm							T* Nm	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
40	682300	HG HD-20/DC-BT40	20	59	63	91		17	91	400-535	2.2	25 000

Inch range

Technical Specification BT form AD Dual Contact

Taper	Part no.	Item description	Dimensions, inch							T* ft·lb	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
40	682300-T	HG HD-3/4"/DC-BT40	0.750	2.323	2.480	3.583		0.669	3.583	295-395	2.2	25 000

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included) Part no. S042
- Coolant through on all holders
- Bore for data carrier - available on request

Accessories:

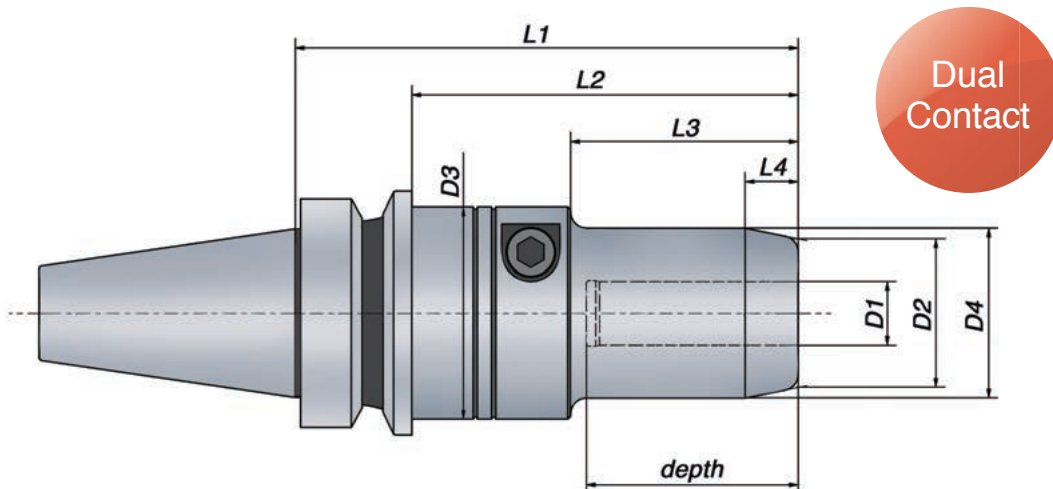
Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

ETP HYDRO-GRIP HD can be used with reducing sleeves. For additional information see section Accessories.



ETP HYDRO-GRIP® SLENDER

BT Form AD - JIS B 6339 Dual Contact



Metric range

Technical Specification BT form AD Dual Contact

Taper	Part no.	Item description	Dimensions, mm												Weight kg	G 2.5 at rpm
			D1	D2	D3	D4	L1	L2	L3	L4	depth	T* Nm				
30	681300	HG SLENDER-12/DC-BT30	12	28	40	32	95	73	43	10	40	60 - 125	0.9	25 000		

Inch range

Technical Specification BT form AD Dual Contact

Taper	Part no.	Item description	Dimensions, inch												T* ft-lb	Weight kg	G 2.5 at rpm
			D1	D2	D3	D4	L1	L2	L3	L4	depth						
30	681300-T	HG SLENDER-1/2"/DC-BT30	0.500	1.102	1.575	1.260	3.740	2.874	1.693	0.394	1.575	55 - 105	0.9	25 000			

*) 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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier - available on request

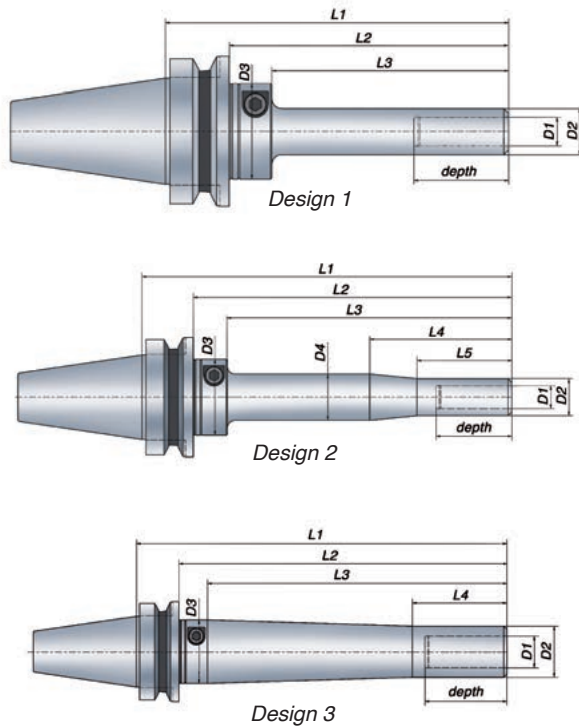
Accessories:

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

ETP HYDRO-GRIP SLENDER can be used with reducing sleeves.
For additional information see section Accessories.



ETP HYDRO-GRIP® PENCIL BT Form AD - JIS B 6339



Metric range

Technical Specification BT form AD

	Design	Taper	Part no.	Item description	Dimensions, mm													depth	T* Nm	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5								
●	1	30	683000	HG PENCIL-6x50/BT30	6	12	40		90	68	50				40	12-22	0.6	25 000			
○	1		683010	HG PENCIL-8x50/BT30	8	14.5	40		90	68	50				40	27-40	0.6	25 000			
○	1		683030	HG PENCIL-10x50/BT30	10	17	40		90	68	50				40	35-70	0.6	25 000			
○	1		683020	HG PENCIL-10x100/BT30	10	17	40		140	118	100				40	35-70	0.7	15 000			
●	1		683060	HG PENCIL-12x50/BT30	12	19.5	40		90	68	50				40	60-125	0.6	25 000			
●	1		683040	HG PENCIL-12x100/BT30	12	19.5	40		140	118	100				40	60-125	0.7	15 000			
●	2		683050	HG PENCIL-12x150/BT30	12	19.5	40	24.5	190	168	150	75	50		40	60-125	1	10 000			
○	3		684360	HG PENCIL-20x110/BT30	20	32	40		150	128	110	60			52	260-425	1.2	0 000			
○	3		684370	HG PENCIL-20x190/BT30	20	32	40		230	208	190	60			52	260-425	1.8	10 000			

Inch range

Technical Specification BT form AD

	Design	Taper	Part no.	Item description	Dimensions, inch											depth	T* ft·lb	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5						
○	1	30	683000-T	HG PENCIL-1/4"x50/BT30	0.250	0.472	1.575		3.543	2.677	1.969				1.575	13-20	0.6	25 000	
●	1		683060-T	HG PENCIL-1/2"x50/BT30	0.500	0.768	1.575		3.543	2.677	1.969				1.575	55-105	0.6	25 000	
●	1		683040-T	HG PENCIL-1/2"x100/BT30	0.500	0.768	1.575		5.512	4.646	3.937				1.575	55-105	0.7	15 000	
○	2		683050-T	HG PENCIL-1/2"x150/BT30	0.500	0.768	1.575	0.965	7.480	6.614	5.906	2.953	1.969	1.575	55-105	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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- ≤ 0.007 mm at $2.5 \times D1$ at length $L1 > 125$ mm
 ≤ 0.00028 inch at $2.5 \times D1$ at length $L1 > 4.921$ inch
- Tool shank h6 or h7 can be used
- Coolant through on all holders

*Role for data carrier - available on request

Accessories:

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

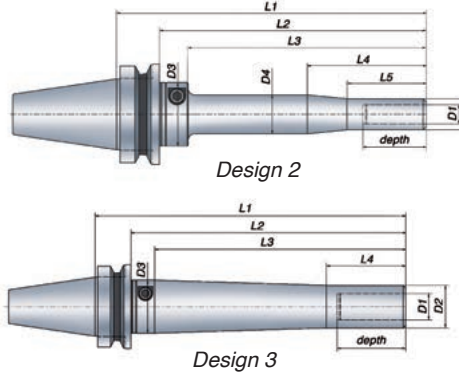
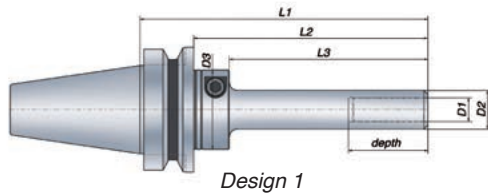
ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® PENCIL

BT Form AD/B - JIS B 6339



Slim
and long
reach



Metric range

Technical Specification BT form AD/B

	Design	Taper	Part no.	Item description	Dimensions, mm													depth	T* Nm	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5								
●	1	40	683070	HG PENCIL-6x50/BT40	6	12	40		95	68	50				40	12-22	1.2	25 000			
○	1		683080	HG PENCIL-8x50/BT40	8	14.5	40		95	68	50				40	27-40	1.2	25 000			
○	1		683100	HG PENCIL-10x50/BT40	10	17	40		95	68	50				40	35-70	1.2	25 000			
○	1		683090	HG PENCIL-10x100/BT40	10	17	40		145	118	100				40	35-70	1.3	15 000			
●	1		683160	HG PENCIL-12x50/BT40	12	19.5	40		95	68	50				40	60-125	1.2	25 000			
●	1		683170	HG PENCIL-12x100/BT40	12	19.5	40		145	118	100				40	60-125	1.3	15 000			
●	2		683110	HG PENCIL-12x150/BT40	12	19.5	40	24.5	195	168	150	75	50	40	60-125	1.6	0 000				
○	1		683130	HG PENCIL-16x75/BT40	16	26	40		120	93	75			50	165-270	1.4	15 000				
○	1		683120	HG PENCIL-16x125/BT40	16	26	40		170	143	125			50	165-270	1.6	10 000				
●	3		683150	HG PENCIL-20x110/BT40	20	32	40		155	128	110	60		52	260-425	1.8	20 000				
●	3		683140	HG PENCIL-20x190/BT40	20	32	40		235	208	190	60		52	260-425	2.4	10 000				
●	1	50	684090	HG PENCIL 12x50/BT50	12	19.5	40		106	68	50			40	60-110	3.8	14 000				
●	1		684100	HG PENCIL 12x100/BT50	12	19.5	40		156	118	100			40	60-110	3.9	14 000				
●	2		684110	HG PENCIL 12x150/BT50	12	19.5	40	24.5	206	168	150	75	50	40	60-110	4.2	10 000				
●	3		684140	HG PENCIL 20x110/BT50	20	32	40		166	128	110	60		52	260-425	4.4	14 000				
●	3		684150	HG PENCIL 20x190/BT50	20	32	40		246	206.5	190	60		52	260-425	5	10 000				

Inch range

● From stock
○ On request

Technical Specification BT form AD/B

					Dimensions, inch															
	Design	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	depth	T* ft-lb	Weight kg	G 2.5 at rpm			
○	1	40	683070-T	HG PENCIL-1/4"x50/BT40	0.250	0.472	1.575		3.740	2.677	1.969			1.575	13-20	1.2	25 000			
○	1		683160-T	HG PENCIL-1/2"x50/BT40	0.500	0.768	1.575		3.740	2.677	1.969			1.575	55-105	1.2	25 000			
○	1		683170-T	HG PENCIL-1/2"x100/BT40	0.500	0.768	1.575		5.709	4.646	3.937			1.575	55-105	1.3	15 000			
○	2		683110-T	HG PENCIL-1/2"x150/BT40	0.500	0.768	1.575	0.965	7.677	6.614	5.906	2.953	1.969	1.575	55-105	1.6	10 000			
○	3		683150-T	HG PENCIL-3/4"x110/BT40	0.750	1.260	1.575		6.102	5.039	4.331	2.362		2.047	192-314	1.8	20 000			
○	3		683140-T	HG PENCIL-3/4"x190/BT40	0.750	1.260	1.575		9.252	8.189	7.480	2.362		2.047	192-314	2.4	10 000			
○	1	50	684090-T	HG PENCIL 1/2"x50/BT50	0.500	0.768	1.575		4.173	2.677	1.969			1.575	55-105	3.8	14 000			
○	1		684100-T	HG PENCIL 1/2"x100/BT50	0.500	0.768	1.575		6.142	4.646	3.937			1.575	55-105	3.9	14 000			
○	2		684110-T	HG PENCIL 1/2"x150/BT50	0.500	0.768	1.575	0.965	8.110	6.614	5.906	2.953	1.969	1.575	55-105	4.2	10 000			
○	3		684140-T	HG PENCIL 3/4"x110/BT50	0.750	1.260	1.575		6.535	5.039	4.331	2.362		2.047	192-314	4.4	14 000			
○	3		684150-T	HG PENCIL 3/4"x190/BT50	0.750	1.260	1.575		9.685	8.130	7.480	2.362		2.047	192-314	5	10 000			

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

Information:

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

Accessories:

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

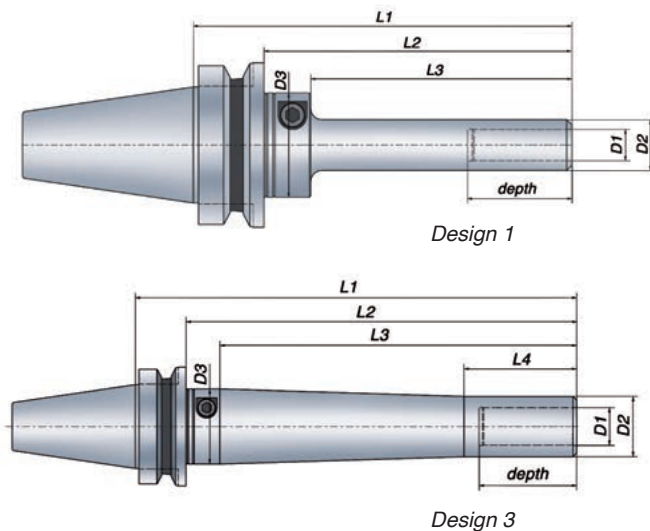
ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® PENCIL

BT Form AD - JIS B 6339 Dual Contact



Metric range

Technical Specification BT form AD Dual Contact

	Design	Taper	Part no.	Item description	Dimensions, mm													depth	T* Nm	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5								
●	1	30	684700	HG PENCIL-12x50/DC-BT30	12	19.5	40		102	80	50			40	60 - 125	0.6	25 000				
●	1		684710	HG PENCIL-12x100/DC-BT30	12	19.5	40		152	130	100			40	60 - 125	0.7	15 000				
○	3		684930	HG PENCIL-20x110/DC-BT30	20	32	40		162	140	110	60		52	260 - 425	1.2	20 000				
●	1	40	684730	HG PENCIL-12x50/DC-BT40	12	19.5	40		107	80	50			40	60-125	1.3	25 000				
○	1		684740	HG PENCIL-12x100/DC-BT40	12	19,5	40		157	130	100			40	60-125	1.4	15 000				
○	3		684760	HG PENCIL-20x110/DC-BT40	20	32	40		167	140	110	60		52	260-425	1.9	20 000				

Inch range

Technical Specification BT form AD Dual Contact

	Design	Taper	Part no.	Item description	Dimensions, inch												depth	T* ft-lb	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5							
●	1	30	684700-T	HG PENCIL-1/2"x50/DC-BT30	0.500	0.768	1.575		4.016	3.150	1.969			1.575	55 - 105	0.6	25 000			
●	1		684710-T	HG PENCIL-1/2"x100/DC-BT30	0.500	0.768	1.575		5.984	5.118	3.937			1.575	55 - 105	0.7	15 000			
○	3		684930-T	HG PENCIL-20x110/DC-BT30	0.750	1.260	1.575		6.378	5.512	4.331	2.362		2.047	192 - 314	1.2	20 000			
●	1	40	684730-T	HG PENCIL-1/2"x50/DC-BT40	0.500	0.768	1.575	-	4.213	3.150	1.969	-	-	1.575	55-105	1.3	25 000			
○	1		684740-T	HG PENCIL-1/2"x100/DC-BT40	0.500	0.768	1.575	-	6.181	5.118	3.937	-	-	1.575	55-105	1.4	15 000			
○	3		684760-T	HG PENCIL-3/4"x110/DC-BT40	0.750	1.260	1.575	-	6.575	5.512	4.331	2.362	-	2.047	192-314	1.9	20 000			

*) 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 $2.5 \times D1$ (max. 50 mm),
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- ≤ 0.007 mm at $2.5 \times D1$ at length $L1 > 125$ mm
 ≤ 0.00028 inch at $2.5 \times D1$ at length $L1 > 4.921$ inch
- Tool shank h6 or h7 can be used
- Coolant through on all holders

*Note for data carrier - available on request

Accessories:

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

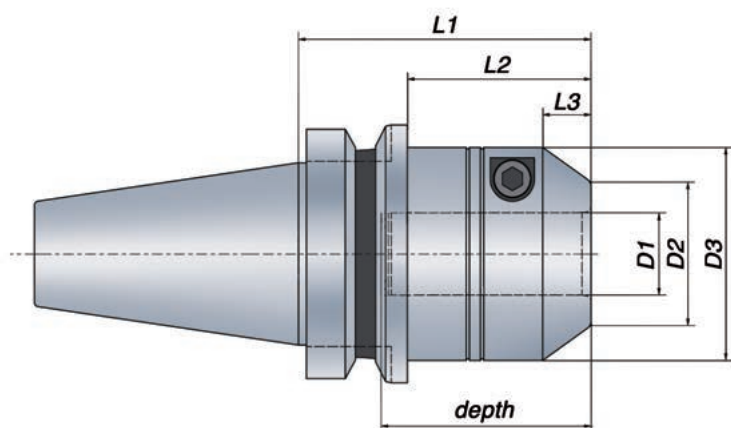
ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



ETP ECOGRIP™

BT Form AD/B - JIS B 6339



Metric range

Technical Specification BT form AD/B

			Dimensions, mm										
	Taper	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
●	30	687500	ECOGRIP-12/BT30	12	28	43.5	69	47	12	40	85 - 150	0.8	25 000
●		687510	ECOGRIP-20/BT30	20	35	52	76	35.2	12	52	400 - 535	1	25 000
●	40	687520	ECOGRIP-12/BT40	12	28	43.5	58	31	12	40	85 - 150	1.2	25 000
●		687530	ECOGRIP-20/BT40	20	35	52	72.5	45.5	12	52	400-535	1.5	25 000
●	50	687560	ECOGRIP-32/BT50	32	47	69.5	90	52	12	60	1325 - 1670	4.6	14 000

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, for axial length adjustment screw (screw not included)
Size 12: M6x1. Size 20: M8x1.25
- Coolant through on all holders
- Bore for data carrier available on request

Accessories:

Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

ETP ECOGRIP can be used with reducing sleeves.

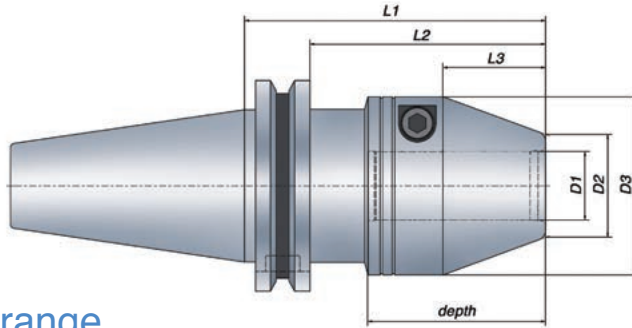
For additional information see section Accessories.



ETP HYDRO-GRIP®

ISO Form AD/B - 7388-1

The
original



Metric range

Technical Specification ISO form AD/B

				Dimensions, mm											
	Taper	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm		
●	40	685810	HG-12/ISO40	12	22	43.5	56	36.9	18	40	60-125	1.1	25 000		
●		685820	HG-12x100/ISO40	12	22	43.5	100	80.9	18	40	60-125	1.6	25 000		
○		685830	HG-16/ISO40	16	26	48	73	53.9	28	50	165-270	1.3	25 000		
○		685840	HG-16x125/ISO40	16	26	48	125	105.9	28	50	165-270	2.1	25 000		
●		685850	HG-20/ISO40	20	30	52	88	68.9	30	52	260-425	1.6	25 000		
●		685860	HG-20x125/ISO40	20	30	52	125	105.9	30	52	260-425	2.2	25 000		
●		685870	HG-25/ISO40	25	35	59	93	73.9	34	56	480-710	1.7	25 000		
○	50	685880	HG-12/ISO50	12	22	43.5	56	36.9	18	40	60-125	2.9	14 000		
○		685890	HG-12x100/ISO50	12	22	43.5	100	80.9	18	40	60-125	3.4	14 000		
○		685900	HG-16/ISO50	16	26	48	66	46.9	28	50	165-270	3.1	14 000		
○		685910	HG-16x125/ISO50	16	26	48	125	105.9	28	50	165-270	3.9	14 000		
●		685920	HG-20/ISO50	20	30	52	68	48.9	30	52	260-425	3.1	14 000		
●		685930	HG-20x150/ISO50	20	30	52	150	130.9	30	52	260-425	4.5	14 000		
●		685940	HG-25/ISO50	25	35	59	72	52.9	34	56	480-710	3.3	14 000		
●		685950	HG-25x150/ISO50	25	35	59	150	130.9	34	56	480-710	4.9	14 000		
●		685960	HG-32/ISO50	32	42	69.5	77	57.9	38	60	820-1250	3.6	14 000		

Inch range

Technical Specification ISO form AD/B

				Dimensions, inch											
	Taper	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm		
○	40	685810-T	HG-1/2"/ISO40	0.500	0.866	1.713	2.205	1.453	0.709	1.575	55-105	1.1	25 000		
○		685820-T	HG-1/2"x100/ISO40	0.500	0.866	1.713	3.937	3.185	0.709	1.575	55-105	1.6	25 000		
○		685850-T	HG-3/4"/ISO40	0.750	1.181	2.047	3.465	2.713	1.181	2.047	192-314	1.6	25 000		
○		685860-T	HG-3/4"x125/ISO40	0.750	1.181	2.047	4.921	4.169	1.181	2.047	192-314	2.2	25 000		
○		685870-T	HG-1"/ISO40	1.000	1.378	2.323	3.661	2.909	1.339	2.205	354-524	1.7	25 000		
○	50	685920-T	HG-3/4"/ISO50	0.750	1.181	2.047	2.677	1.925	1.181	2.047	192-314	3.1	14 000		
○		685930-T	HG-3/4"x150/ISO50	0.750	1.181	2.047	5.906	5.154	1.181	2.047	192-314	4.5	14 000		
○		685940-T	HG-1"/ISO50	1.000	1.378	2.323	2.835	2.083	1.339	2.205	354-524	3.3	14 000		
○		685950-T	HG-1"x150/ISO50	1.000	1.378	2.323	5.906	5.154	1.339	2.205	354-524	4.9	14 000		
○		685960-T	HG-1 1/4"/ISO50	1.250	1.654	2.736	3.031	2.280	1.496	2.362	605-922	3.6	14 000		

*) 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 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier

Accessories:

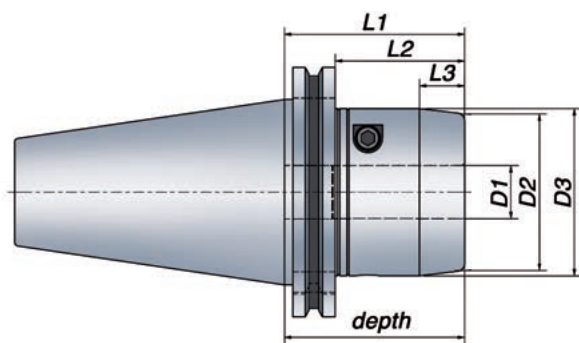
Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050

ETP HYDRO-GRIP can be used with reducing sleeves. For additional information see section Accessories.



ETP HYDRO-GRIP® HD

ISO Form AD - 7388-1



Metric range

Technical Specification ISO form AD

	Taper	Part no.	Item description	Dimensions, mm										T* Nm	Weight kg	G 2.5 at rpm
				D1	D2	D3	L1	L2	L3	depth						
●	40	682190	HG HD-20/ISO40	20	59	63	90	70.9	17	90	400-535	2.1	25 000			
●	50	682200	HG HD-20/ISO50	20	59	63	68	48.9	17	68	400-535	3.5	14 000			
●		682210	HG HD-25/ISO50	25	70	74	79	59.9	17	79	740-940	4.2	14 000			
●		682220	HG HD-32/ISO50	32	76	80	83	63.9	17	83	1325-1670	4.4	14 000			

Inch range

Technical Specification ISO form AD

	Taper	Part no.	Item description	Dimensions, inch									
				D1	D2	D3	L1	L2	L3	depth	T* ft·lb	Weight kg	G 2.5 at rpm
○	40	682190-T	HG HD-3/4"/ISO40	0.750	2.323	2.480	3.543	2.791	0.669	3.543	295-395	2.1	25 000
○	50	682200-T	HG HD-3/4"/ISO50	0.750	2.323	2.480	2.677	1.925	0.669	2.677	295-395	3.5	14 000
○		682210-T	HG HD-1"/ISO50	1.000	2.756	2.913	3.110	2.358	0.669	3.110	546-693	4.2	14 000
○		682220-T	HG HD-1 1/4"/ISO50	1.250	2.992	3.150	3.268	2.516	0.669	3.268	977-1232	4.4	14 000

*) 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 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included) Part no. S042
- Coolant through on all holders
- Bore for data carrier - available on request

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Accessories:

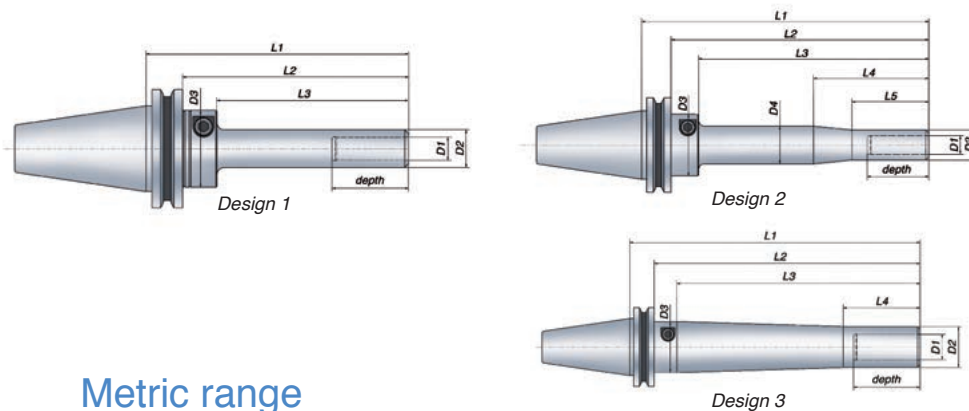
Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052

ETP HYDRO-GRIP HD can be used with reducing sleeves. For additional information see section Accessories.



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ETP HYDRO-GRIP® PENCIL ISO Form AD/B - 7388-1



Metric range

Technical Specification ISO form AD/B

	Design	Taper	Part no.	Item description	Dimensions, mm													depth	T* Nm	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5								
●	1	40	683940	HG PENCIL-6x50/ISO40	6	12	40		87	67.9	50				40	12-22	1	25 000			
○	1		683950	HG PENCIL-8x50/ISO40	8	14.5	40		87	67.9	50				40	27-40	1	25 000			
○	1		683970	HG PENCIL-10x50/ISO40	10	17	40		87	67.9	50				40	35-70	1	25 000			
○	1		683960	HG PENCIL-10x100/ISO40	10	17	40		137	117.9	100				40	35-70	1.1	15 000			
●	1		684000	HG PENCIL-12x50/ISO40	12	19.5	40		87	67.9	50				40	60-125	1.1	25 000			
●	1		684010	HG PENCIL-12x100/ISO40	12	19.5	40		137	117.9	100				40	60-125	1.2	15 000			
●	2		684030	HG PENCIL-12x150/ISO40	12	19.5	40	24.5	187	167.9	150	75	50		40	60-125	1.4	10 000			
○	1		683990	HG PENCIL-16x75/ISO40	16	26	40		112	92.9	75				50	165-270	1.2	15 000			
○	1		683980	HG PENCIL-16x125/ISO40	16	26	40		162	142.9	125				50	165-270	1.4	10 000			
●	3		684020	HG PENCIL-20x110/ISO40	20	32	40		147	127.9	110	60			52	260-425	1.6	20 000			
●	3		684040	HG PENCIL-20x190/ISO40	20	32	40		227	207.9	190	60			52	260-425	2.3	10 000			
●	1	50	684190	HG PENCIL 12x50/ISO50	12	19.5	40		87	67.9	50				40	60-125	2.9	14 000			
●	1		684200	HG PENCIL 12x100/ISO50	12	19.5	40		137	117.9	100				40	60-125	3	14 000			
●	2		684210	HG PENCIL 12x150/ISO50	12	19.5	40	24.5	187	167.9	150	75	50		40	60-125	3.2	10 000			
●	3		684240	HG PENCIL 20x110/ISO50	20	32	40		147	127.9	110	60			52	260-425	3.4	14 000			
●	3		684250	HG PENCIL 20x190/ISO50	20	32	40		227	207.9	190	60			52	260-425	4.1	10 000			

Inch range

Technical Specification ISO form AD/B

					Dimensions, inch														
	Design	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	depth	T* ft-lb	Weight kg	G 2.5 at rpm		
○	1	40	683940-T	HG PENCIL-1/4"x50/ISO40	0.250	0.472	1.575		3.425	2.673	1.969			1.575	13-20	1	25 000		
○	1		684000-T	HG PENCIL-1/2"x50/ISO40	0.500	0.768	1.575		3.425	2.673	1.969			1.575	55-105	1.1	25 000		
○	1		684010-T	HG PENCIL-1/2"x100/ISO40	0.500	0.768	1.575		5.394	4.642	3.937			1.575	55-105	1.2	15 000		
○	2		684030-T	HG PENCIL-1/2"x150/ISO40	0.500	0.768	1.575	0.965	7.362	6.610	5.906	2.953	1.969	1.575	55-105	1.4	10 000		
○	3		684020-T	HG PENCIL-3/4"x110/ISO40	0.750	1.260	1.575		5.787	5.035	4.331	2.362		2.047	192-314	1.6	20 000		
○	3		684040-T	HG PENCIL-3/4"x190/ISO40	0.750	1.260	1.575		8.937	8.185	7.480	2.362		2.047	192-314	2.3	10 000		
○	1	50	684190-T	HG PENCIL 1/2"x50/ISO50	0.500	0.768	1.575		3.425	2.673	1.969			1.575	55-105	2.9	14 000		
○	1		684200-T	HG PENCIL 1/2"x100/ISO50	0.500	0.768	1.575		5.394	4.642	3.937			1.575	55-105	3	14 000		
○	2		684210-T	HG PENCIL 1/2"x150/ISO50	0.500	0.768	1.575	0.965	7.362	6.610	5.906	2.953	1.969	1.575	55-105	3.2	10 000		
○	3		684240-T	HG PENCIL 3/4"x110/ISO50	0.750	1.260	1.575		5.787	5.035	4.331	2.362		2.047	192-314	3.4	14 000		
○	3		684250-T	HG PENCIL 3/4"x190/ISO50	0.750	1.260	1.575		8.937	8.185	7.480	2.362		2.047	192-314	4.1	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 $2.5 \times D1$ (max. 50 mm)
- ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- ≤ 0.007 mm at $2.5 \times D1$ at length $L1 > 125$ mm
- ≤ 0.00028 inch at $2.5 \times D1$ at length $L1 > 4.921$ inch
- Tool shank h6 or h7 can be used
- Coolant through on all holders
- Bore for data carrier

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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.

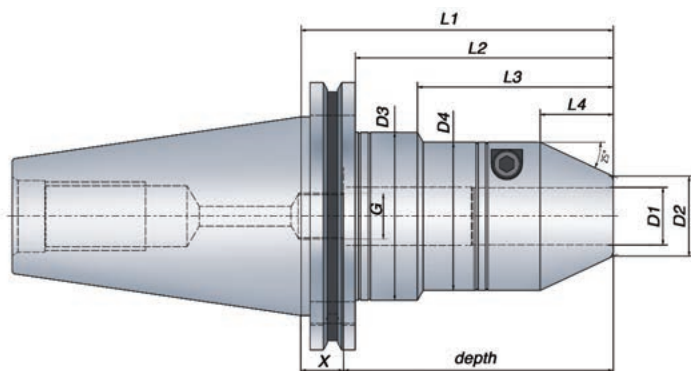
For additional information see section Accessories.



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ETP HYDRO-GRIP® S

ISO Form AD - 7388-1



Metric range

Technical Specification ISO form AD

				Dimensions, mm													
	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	depth	G	X	T* Nm	Weight kg	
●	50	703763	HG S-12x110/ISO50	12	21.5	59	43.5	110	90.9	69	23.6	50	M8x1	60	60-125	3.7	
●		704378	HG S-20x110/ISO50	20	28	59	52	110	90.9	69	25.7	95	M16x1	15	260-425	3.8	
○		705839	HG S-25x110/ISO50	25	33	69.5	59	110	90.9	69	27.9	95	M16x1	15	480-710	4.1	
●		703764	HG S-32x110/ISO50	32	40	69.5		110	90.9		31.6	95	M16x1	15	820-1250	4.3	

Inch range

Technical Specification ISO form AD

				Dimensions, inch													
	Taper	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	depth	G	X	T* ft-lb	Weight kg	
●	50	703763-T	HG S-1/2"x110/ISO50	0.500	0.846	2.323	1.713	4.331	3.579	2.717	0.929	1.969	M8x1	2.362	55-105	3.7	
●		704378-T	HG S-3/4"x110/ISO50	0.750	1.102	2.323	2.047	4.331	3.579	2.717	1.012	3.740	M16x1	0.591	192-314	3.8	
●		705839-T	HG S-1"x110/ISO50	1.000	1.300	2.736	2.323	4.331	3.579	2.717	1.098	3.740	M16x1	0.591	354-524	4.1	
●		703764-T	HG S-1 1/4"x110/ISO50	1.250	1.575	2.736		4.331	3.579		1.244	3.740	M16x1	0.591	605-922	4.3	

*) T = Min. and Max. transmittable torque using a h6 cylindrical tool, full depth insert.

- From stock
- On request

Information:

- Runout accuracy ≤ 0.004 mm at $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Coolant through on all holders
- Bore for data carrier

Accessories:

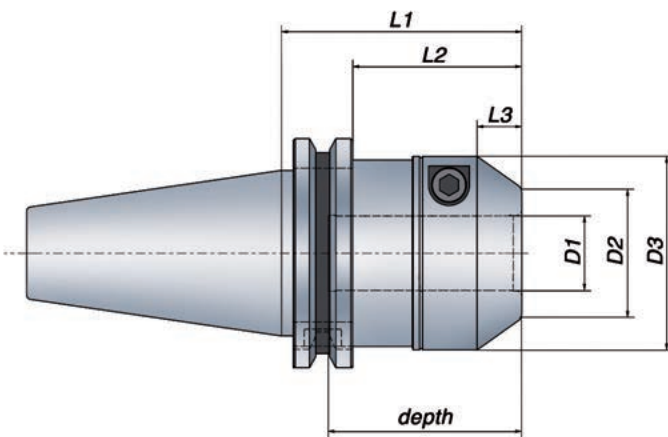
Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050.

ETP HYDRO-GRIP S can be used with reducing sleeves.
For additional information see section Accessories.



ETP ECOGRIP™

ISO Form AD/B - 7388-1



Technical Specification ISO form AD/B

Taper	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
40	687580	ECOGRIP-20/ISO40	20	35	52	64.5	45.4	12	52	400-535	1.3	25 000
50	687600	ECOGRIP-32/ISO50	32	47	69.5	61	41.9	12	60	1325 - 1670	3.0	14 000

*) 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 $2.5 \times D1$ (max. 50 mm)
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier

Accessories:

Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

ETP ECOGRIP can be used with reducing sleeves.

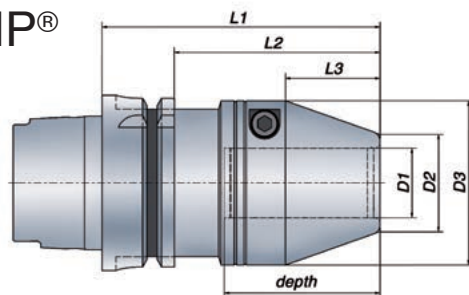
For additional information see section Accessories.



ETP HYDRO-GRIP®

HSK Form A

- DIN 69893



The original

Metric range

Technical Specification HSK form A

				Dimensions, mm											
	HSK size	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm		
●	63	685630	HG-12/HSK63A	12	22	43.5	76	50	18	40	60 - 125	1.1	25 000		
●		685640	HG-12x100/HSK63A	12	22	43.5	100	74	18	40	60 - 125	1.4	25 000		
○		685650	HG-16/HSK63A	16	26	48	86	60	28	50	165 - 270	1.2	25 000		
○		685660	HG-16x125/HSK63A	16	20	48	125	99	28	50	165 - 270	1.8	25 000		
●		685670	HG-20/HSK63A	20	30	52	88	62	30	52	260 - 425	1.3	25 000		
●		685680	HG-20x150/HSK63A	20	30	52	150	124	30	52	260 - 425	2.3	25 000		
●		685690	HG-25/HSK63A	25	35	59	100	74	34	56	480 - 710	1.6	25 000		
●		685700	HG-25x150/HSK63A	25	35	59	150	124	34	56	480 - 710	2.7	25 000		
●		685710	HG-32/HSK63A	32	42	69.5	105	79	38	60	820 - 1250	2.0	25 000		
●	100	685720	HG-12/HSK100A	12	22	43.5	79	50	18	40	60 - 125	2.4	14 000		
●		685730	HG-12x100/HSK100A	12	22	43.5	100	71	18	40	60 - 125	2.7	14 000		
○		685740	HG-16/HSK100A	16	26	48	89	60	28	50	165 - 270	2.6	14 000		
○		685750	HG-16x125/HSK100A	16	26	48	125	96	28	50	165 - 270	3.1	14 000		
●		685760	HG-20/HSK100A	20	30	52	91	62	30	52	260 - 425	2.7	14 000		
●		685770	HG-20x150/HSK100A	20	30	52	150	121	30	52	260 - 425	3.6	14 000		
●		685780	HG-25/HSK100A	25	35	59	95	66	34	56	480 - 710	2.9	14 000		
●		685790	HG-25x150/HSK100A	25	35	59	150	121	34	56	480 - 710	4.0	14 000		
●		685800	HG-32/HSK100A	32	42	69.5	99	70	38	60	820 - 1250	3.3	14 000		

Inch range

Technical Specification HSK form A

				Dimensions, inch												
	HSK size	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm			
●	63	685630-T	HG-1/2"/HSK63A	0.500	0.866	1.713	2.992	1.969	0.709	1.575	55 - 105	1.1	25 000			
○		685640-T	HG-1/2"x100/HSK63A	0.500	0.866	1.713	3.937	2.913	0.709	1.575	55 - 105	1.4	25 000			
●		685670-T	HG-3/4"/HSK63A	0.750	1.181	2.047	3.465	2.441	1.181	2.047	192 - 314	1.3	25 000			
●		685680-T	HG-3/4"x150/HSK63A	0.750	1.181	2.047	5.906	4.882	1.181	2.047	192 - 314	2.3	25 000			
●		685690-T	HG-1"/HSK63A	1.000	1.378	2.323	3.937	2.913	1.339	2.205	354 - 524	1.6	25 000			
○		685700-T	HG-1"x150/HSK63A	1.000	1.378	2.323	5.906	4.882	1.339	2.205	354 - 524	2.7	25 000			
●		685710-T	HG-1 1/4"/HSK63A	1.250	1.654	2.736	4.134	3.110	1.496	2.362	605 - 922	2.0	25 000			
○	100	685720-T	HG-1/2"/HSK100A	0.500	0.866	1.713	3.110	1.969	0.709	1.575	55 - 105	2.4	14 000			
●		685730-T	HG-1/2"x100/HSK100A	0.500	0.866	1.713	3.937	2.795	0.709	1.575	55 - 105	2.7	14 000			
●		685760-T	HG-3/4"/HSK100A	0.750	1.181	2.047	3.583	2.441	1.181	2.047	192 - 314	2.7	14 000			
●		685770-T	HG-3/4"x150/HSK100A	0.750	1.181	2.047	5.906	4.764	1.181	2.047	192 - 314	3.6	14 000			
●		685780-T	HG-1"/HSK100A	1.000	1.378	2.323	3.740	2.598	1.339	2.205	354 - 524	2.9	14 000			
●		685790-T	HG-1"x150/HSK100A	1.000	1.378	2.323	5.906	4.764	1.339	2.205	354 - 524	4.0	14 000			
●		685800-T	HG-1 1/4"/HSK100A	1.250	1.654	2.736	3.898	2.756	1.496	2.362	605 - 922	3.3	14 000			

*) 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 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- Coolant through on all holders
- Bore for data carrier

Accessories:

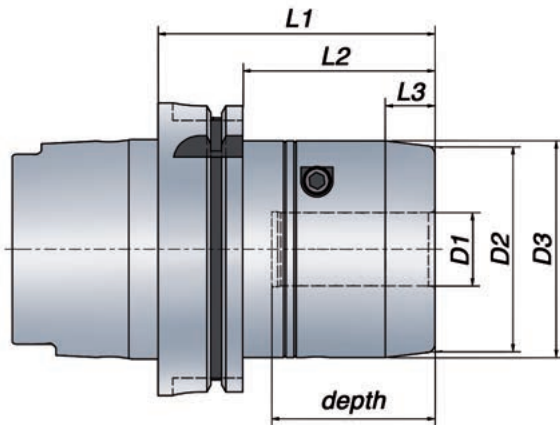
Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050

ETP HYDRO-GRIP can be used with reducing sleeves. For additional information see section Accessories.



ETP HYDRO-GRIP® HD

HSK Form A - DIN 69893



Metric range

Technical Specification HSK form A

HSK size	Part no.	Item description	Dimensions, mm							T* Nm	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
63	682150	HG HD-20/HSK63A	20	59	63	96	70	17	52	400 - 535	2.0	25 000
100	682160	HG HD-20/HSK100A	20	59	63	91	62	17	52	400 - 535	3.3	14 000
	682170	HG HD-25/HSK100A	25	70	74	95	66	17	56	740 - 940	3.9	14 000
	682180	HG HD-32/HSK100A	32	76	80	99	70	17	60	1325 - 1670	4.2	14 000

Inch range

Technical Specification HSK form A

HSK size	Part no.	Item description	Dimensions, inch							T* ft-lb	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
63	682150-T	HG HD-3/4"/HSK63A	0.750	2.323	2.480	3.780	2.756	0.669	2.047	295 - 395	2.0	25 000
100	682160-T	HG HD-3/4"/HSK100A	0.750	2.323	2.480	3.583	2.441	0.669	2.047	295 - 395	3.3	14 000
	682170-T	HG HD-1"/HSK100A	1.000	2.756	2.913	3.740	2.598	0.669	2.205	546 - 693	3.9	14 000
	682180-T	HG HD-1 1/4"/HSK100A	1.250	2.992	3.150	3.898	2.756	0.669	2.362	977 - 1232	4.2	14 000

*) 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 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included) Part no. S042
- Coolant through on all holders
- Bore for data carrier

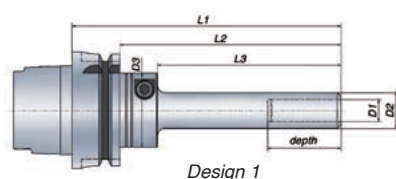
Accessories:

Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052

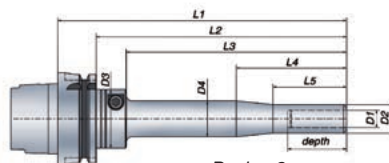
ETP HYDRO-GRIP HD can be used with reducing sleeves. For additional information see section Accessories.



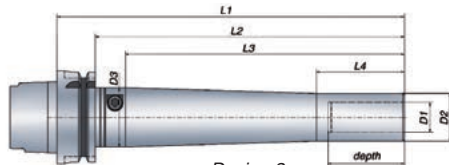
ETP HYDRO-GRIP® PENCIL HSK Form A - DIN 69893



Design 1



Design 2



Design 3



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		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		683930	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

				Dimensions, inch															
	Design	HSK size	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	depth	T* ft-lb	Weight kg	G 2.5 at rpm		
●	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.

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

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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.

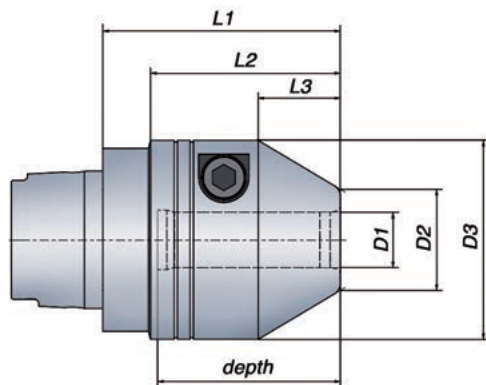
For additional information see section Accessories.



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ETP HYDRO-GRIP®

HSK Form C - DIN 69893



Metric range

Technical Specification HSK form C

HSK size	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
● 32	705667	HG-12/HSK32C	12	22	43.5	52	40.5	18	40	60-125	0.4	25 000
● 40	705668	HG-12/HSK40C	12	22	43.5	52	41.5	18	40	60-125	0.5	25 000
○	705673	HG-20/HSK40C	20	30	52	64	52.4	30	52	260 - 425	0.7	25 000
● 50	705716	HG-20/HSK50C	20	30	52	67	54.5	30	52	260-425	0.8	25 000

Inch range

Technical Specification HSK form C

HSK size	Part no.	Item description	Dimensions, inch									
			D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm
○ 40	706094	HG-1"/HSK40C	1.000	1.378	2.323	2.835	2.343	1.339	2.205	354 - 524	0.9	25 000
○ 50	705695	HG-1"/HSK50C	1.000	1.378	2.323	2.795	2.303	1.339	2.205	354 - 524	1.0	25 000

*) 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 $2.5 \times D1$ (max. 50 mm)
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- 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.

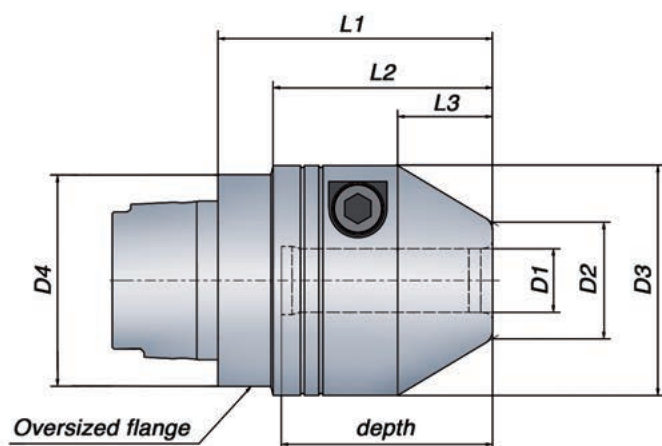
ETP HYDRO-GRIP can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP®

HSK Form C - For HYDROMAT® Rotary transfer machines



Technical Specification HSK form C

HSK size	Part no.	Item description	Dimensions, mm								T* Nm	Weight kg	G 2.5 at rpm
			D1	D2	D3	D4	L1	L2	L3	depth			
○ 32	705727	HG-12/HSK32C - HM40	12	22	43.5	40	52	41.5	18	40	60-125	0.4	25 000
● 40	705728	HG-20/HSK40C - HM50	20	30	52	50	64	53.7	30	52	260-425	0.7	25 000
○ 50	705729	HG-32/HSK50C - HM63	32	42	69.5	63	85	64.1	38	60	820-1250	1.6	25 000

*) 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 2.5x D1 (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- 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.

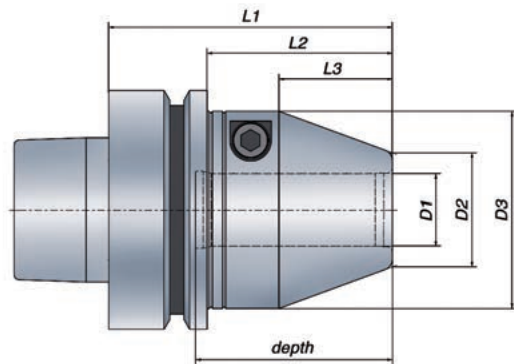
ETP HYDRO-GRIP can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® COMPACT

HSK Form F - DIN 69893



Metric range

Technical Specification HSK form F

HSK size	Part no.	Item description	Dimensions, mm							T* Nm	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
63	705762	HG COMPACT-12/HSK63F	12	22	43.5	75	49	18	40	60 - 125	1.1	25 000
	705764	HG COMPACT-16/HSK63F	16	26	48	75	49	28	50	165 - 270	1.1	25 000
	705766	HG COMPACT-20/HSK63F	20	30	52	75	49	30	52	260 - 425	1.1	25 000

Inch range

Technical Specification HSK form F

HSK size	Part no.	Item description	Dimensions, inch							T* ft-lb	Weight kg	G 2.5 at rpm
			D1	D2	D3	L1	L2	L3	depth			
63	705763	HG COMPACT-1/2"/HSK63F	0.500	0.866	1.713	2.953	1.929	0.709	1.575	55 - 105	1.1	25 000
	705765	HG COMPACT-5/8"/HSK63F	0.625	1.024	1.890	2.953	1.929	1.102	1.969	122 - 199	1.1	25 000
	705681	HG COMPACT-3/4"/HSK63F	0.750	1.181	2.047	2.953	1.929	1.181	2.047	192 - 314	1.1	25 000

*) 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 $2.5 \times D1$ (max. 50 mm)
 ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, for axial length adjustment screw (screw not included)
Size 12, 1/2", 16, 5/8": M8x1.25
Size 20, 3/4": M10x1.5

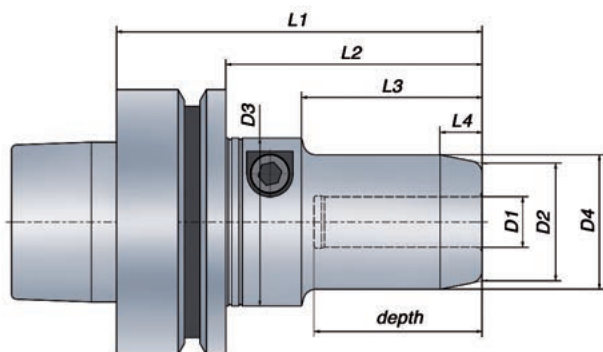
Accessories:

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

ETP HYDRO-GRIP COMPACT can be used with reducing sleeves.
For additional information see section Accessories.



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



Metric range

Technical Specification HSK form F

	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	depth					
●	63	642680	HG SLENDER-12/HSK63F	12	28	40	32	87	61	43	10	40	60-125	1	25 000		
●		642690	HG SLENDER-16/HSK63F	16	34	40	38	87	61	43	10	40	165-270	1.1	25 000		
●		642700	HG SLENDER-20/HSK63F	20	36	50	40	99	73	55	10	52	260-425	1.3	25 000		
●		639130	HG SLENDER-25/HSK63F	25	41	50	45	103	77	59	10	56	480-710	1.4	25 000		

Inch range

Technical Specification HSK form F

	HSK size	Part no.	Item description	Dimensions, inch												Weight kg	G 2.5 at rpm
				D1	D2	D3	D4	L1	L2	L3	L4	depth	T* ft-lb				
●	63	659400	HG SLENDER-3/8"/HSK63F	0.375	1.102	1.575	1.260	3.425	2.402	1.693	0.394	1.575	22-52	1	25 000		
●		642710	HG SLENDER-1/2"/HSK63F	0.500	1.339	1.575	1.260	3.425	2.402	1.693	0.394	1.575	55-105	1	25 000		
●		642720	HG SLENDER-5/8"/HSK63F	0.625	1.339	1.575	1.496	3.425	2.402	1.693	0.394	1.575	122-199	1.1	25 000		
●		642730	HG SLENDER-3/4"/HSK63F	0.750	1.417	1.969	1.575	3.898	2.874	2.165	0.394	2.047	192-314	1.3	25 000		
●		639140	HG SLENDER-1"/HSK63F	1.000	1.614	1.969	1.772	4.055	3.031	2.323	0.394	2.205	354-524	1.4	25 000		

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, for axial length adjustment screw (screw not included)
- Size 12, 1/2", 16, 5/8": M8x1.25
- Size 20, 3/4", 25, 1": M10x1.5
- Size 3/8" - no center thread

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Accessories:

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

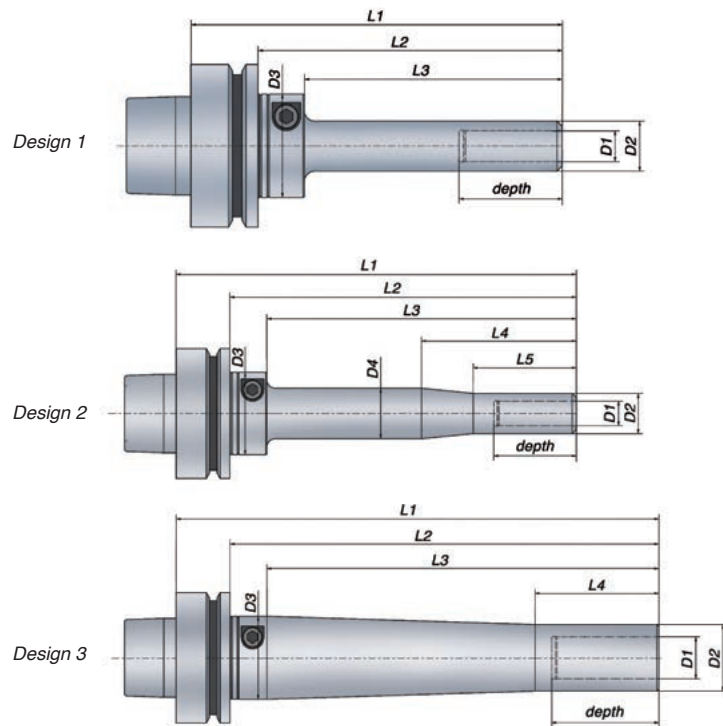
ETP HYDRO-GRIP SLENDER can be used with reducing sleeves.

For additional information see section Accessories.



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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													depth	T* Nm	Weight kg	G 2.5 at rpm
					D1	D2	D3	D4	L1	L2	L3	L4	L5								
●	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

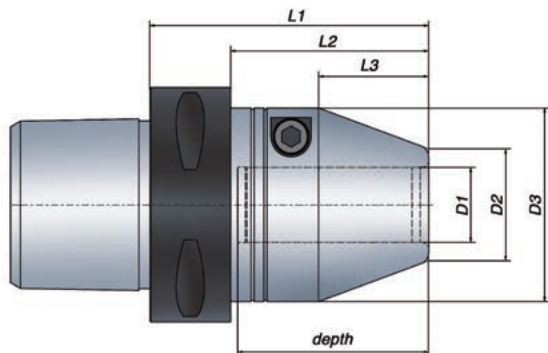
ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP®

PSK Form - ISO 26623-1



Metric range

Technical Specification PSK form

				Dimensions, mm										
	Coupling size	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm	
●	**) C3	701558	HG-12/C3 (no gripper)	12	22	43.5	50	43	18	40	60-125	0.4	25 000	
●	**) C4	703430	HG-12/C4 (no gripper)	12	22	43.5	50	43	18	40	60-125	0.5	25 000	
●	C4	685160	HG-12/C4	12	22	43.5	62	43	18	40	60-125	0.6	25 000	
●		685170	HG-12x100/C4	12	22	43.5	100	80	18	40	60-125	1	25 000	
○		685180	HG-16/C4	16	26	48	72	52	28	50	165-270	0.7	25 000	
○		685190	HG-16x125/C4	16	26	48	125	105	28	50	165-270	1.2	25 000	
●		685200	HG-20/C4	20	30	52	75	55	30	52	260-425	0.8	25 000	
●		685210	HG-20x125/C4	20	30	52	125	105	30	52	260-425	1.6	25 000	
●	C5	685220	HG-12/C5	12	22	43.5	62	42	18	40	60-125	0.8	25 000	
●		685230	HG-12x100/C5	12	22	43.5	100	80	18	40	60-125	1.2	25 000	
○		685240	HG-16/C5	16	26	48	72	52	28	50	165-270	1	25 000	
○		685250	HG-16x125/C5	16	26	48	125	105	28	50	165-270	1.5	25 000	
●		685260	HG-20/C5	20	30	52	74	54	30	52	260-425	1	25 000	
●		685270	HG-20x125/C5	20	30	52	125	105	30	52	260-425	1.8	25 000	
●		685280	HG-25/C5	25	35	59	79	59	34	56	480-710	1.2	25 000	

Inch range

Technical Specification PSK form

			Dimensions, inch										
	Coupling size	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm
●	C4	685200-T	HG-3/4"/C4	0.750	1.181	2.047	2.953	2.165	1.181	2.047	192-314	0.8	25 000
●	C5	685280-T	HG-1"/C5	1.000	1.378	2.323	3.110	2.323	1.339	2.205	354-524	1.2	25 000

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

Additional PSK Inch equivalents add " -T" to metric part no. Available on request.

**) Short version with no gripper grooves.

● From stock
○ On request

Information:

- Runout accuracy ≤ 0.004 mm at $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- 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.

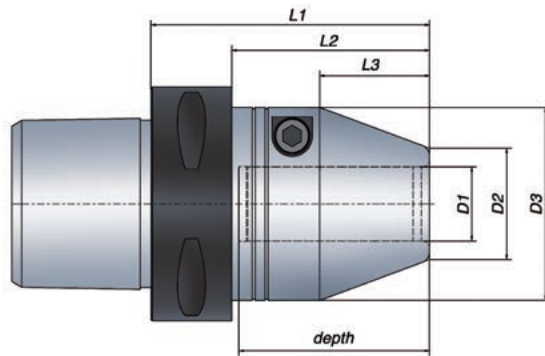
ETP HYDRO-GRIP can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP®

PSK Form - ISO 26623-1



Metric range

Technical Specification PSK form

Coupling size	Part no.	Item description	Dimensions, mm									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
● C6	685290	HG-12/C6	12	22	43.5	64	42	18	40	60-125	1.1	25 000
●	685300	HG-12x100/C6	12	22	43.5	100	78	18	40	60-125	1.5	25 000
●	685310	HG-16/C6	16	26	48	74	52	28	50	165-270	1.2	25 000
○	685320	HG-16x125/C6	16	26	48	125	103	28	50	165-270	1.7	25 000
●	685330	HG-20/C6	20	30	52	76	54	30	52	260-425	1.3	25 000
●	685340	HG-20x150/C6	20	30	52	150	128	30	52	260-425	2.5	25 000
●	685350	HG-25/C6	25	35	59	80	58	34	56	480-710	1.5	25 000
●	685360	HG-25x150/C6	25	35	59	150	128	34	56	480-710	3	25 000
●	685370	HG-32/C6	32	42	69.5	84	62	38	60	820-1250	1.8	25 000
○ C8	685380	HG-12/C8	12	22	43.5	67	37	18	40	60-125	2.1	14 000
○	685390	HG-12x100/C8	12	22	43.5	100	70	18	40	60-125	2.5	14 000
○	685400	HG-16/C8	16	26	48	77	47	28	50	165-270	2.2	14 000
○	685410	HG-16x125/C8	16	26	48	125	95	28	50	165-270	2.7	14 000
●	685420	HG-20/C8	20	30	52	79	49	30	52	260-425	2.3	14 000
●	685430	HG-20x150/C8	20	30	52	150	120	30	52	260-425	3.4	14 000
●	685440	HG-25/C8	25	35	59	83	53	34	56	480-710	2.4	14 000
●	685450	HG-25x150/C8	25	35	59	150	120	34	56	480-710	3.8	14 000
●	685460	HG-32/C8	32	42	69.5	87	57	38	60	820-1250	2.7	14 000

Inch range

Technical Specification PSK form

Coupling size	Part no.	Item description	Dimensions, inch									
			D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
● C6	685290-T	HG-1/2"/C6	0.500	0.866	1.713	2.520	1.654	0.709	1.575	55-105	1.1	25 000
●	685330-T	HG-3/4"/C6	0.750	1.181	2.047	2.992	2.126	1.181	2.047	192-314	1.3	25 000
●	685350-T	HG-1"/C6	1.000	1.378	2.323	3.150	2.283	1.339	2.205	354-524	1.5	25 000

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

Additional PSK Inch equivalents add " -T" to metric part no. Available on request.

● From stock
○ On request

Information:

- Runout accuracy ≤ 0.004 mm at $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M8x1.25, for axial length adjustment screw (screw not included)
- 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.

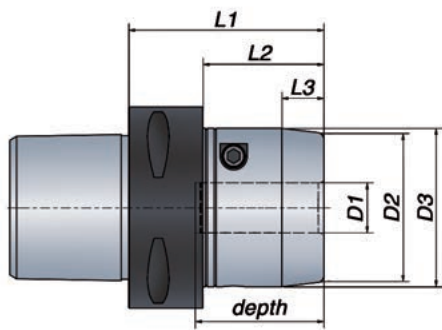
ETP HYDRO-GRIP can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® HD

PSK Form - ISO 26623-1



Metric range

Technical Specification PSK form

			Dimensions, mm										
	Coupling size	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* Nm	Weight kg	G 2.5 at rpm
●	C5	682040	HG HD-20/C5	20	59	63	79	59	17	52	400-535	1.6	25 000
●	C6	682050	HG HD-20/C6	20	59	63	73		17	52	400-535	1.8	25 000
●		682060	HG HD-25/C6	25	70	74	80	58	17	56	740-940	2.4	25 000
●		682070	HG HD-32/C6	32	76	80	86	64	17	60	1325-1670	2.8	25 000
●	C8	682080	HG HD-20/C8	20	59	63	79	49	17	52	400-535	2.8	14 000
●		682090	HG HD-25/C8	25	70	74	83	53	17	56	740-940	3.3	14 000
●		682100	HG HD-32/C8	32	76	80	87		17	60	1325-1670	3.5	14 000

Inch range

Technical Specification PSK form

				Dimensions, inch											
	Coupling size	Part no.	Item description	D1	D2	D3	L1	L2	L3	depth	T* ft-lb	Weight kg	G 2.5 at rpm		
○	C5	682040-T	HG HD-3/4"/C5	0.750	2.323	2.480	3.110	2.323	0.669	2.047	295 - 395	1.6	25 000		
●	C6	682050-T	HG HD-3/4"/C6	0.750	2.323	2.480	2.874		0.669	2.047	295 - 395	1.8	25 000		
○		682060-T	HG HD-1"/C6	1.000	2.756	2.913	3.150	2.283	0.669	2.205	546 - 693	2.4	25 000		
●		682070-T	HG HD-1 1/4"/C6	1.250	2.992	3.150	3.386	2.520	0.669	2.362	977 - 1232	2.8	25 000		
○	C8	682080-T	HG HD-3/4"/C8	0.750	2.323	2.480	3.110	1.929	0.669	2.047	295 - 395	2.8	14 000		
○		682090-T	HG HD-1"/C8	1.000	2.756	2.913	3.268	2.087	0.669	2.205	546 - 693	3.3	14 000		
●		682100-T	HG HD-1 1/4"/C8	1.250	2.992	3.150	3.425		0.669	2.362	977 - 1232	3.5	14 000		

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Center thread, M12x1, for axial length adjustment screw (screw not included) Part no. S042
- Coolant through on all holders
- Bore for data carrier - available on request

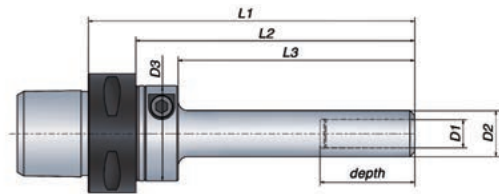
Accessories:

Use preset Torque Wrench, 10 Nm, to ensure correct mounting of tools. Part no. 19052.

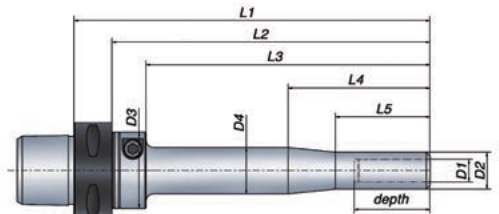
ETP HYDRO-GRIP can be used with reducing sleeves.
For additional information see section Accessories.



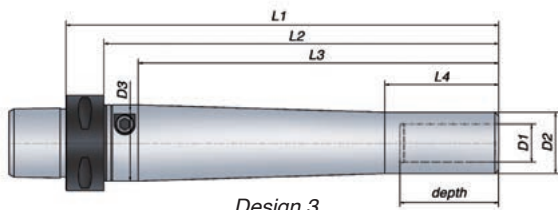
ETP HYDRO-GRIP® PENCIL PSK Form - ISO 26623-1



Design 1



Design 2



Design 3



Metric range

Technical Specification PSK form

	Design	Coupling 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	C4	683210	HG PENCIL-6x50/C4	6	12	40		88		50			40	12-22	0.5	25 000		
○	1		683180	HG PENCIL-8x50/C4	8	14.5	40		88		50			40	27-40	0.5	25 000		
○	1		683200	HG PENCIL-10x50/C4	10	17	40		88		50			40	35-70	0.5	25 000		
○	1		683190	HG PENCIL-10x100/C4	10	17	40		138		100			40	35-70	0.6	15 000		
●	1		683220	HG PENCIL-12x50/C4	12	19.5	40		88		50			40	60-125	0.5	25 000		
●	1		683230	HG PENCIL-12x100/C4	12	19.5	40		138		100			40	60-125	0.6	15 000		
●	2		683240	HG PENCIL-12x150/C4	12	19.5	40	24.5	188		150	75	50	40	60-125	0.8	10 000		
●	1	C5	683310	HG PENCIL-6x50/C5	6	12	40		88	68	50			40	12-22	0.6	25 000		
○	1		683250	HG PENCIL-8x50/C5	8	14.5	40		88	68	50			40	27-40	0.6	25 000		
○	1		683270	HG PENCIL-10x50/C5	10	17	40		88	68	50			40	35-70	0.6	25 000		
○	1		683260	HG PENCIL-10x100/C5	10	19.5	40		138	118	100			40	35-70	0.7	15 000		
●	1		683320	HG PENCIL-12x50/C5	12	19.5	40		88	68	50			40	60-125	0.6	25 000		
●	1		683330	HG PENCIL-12x100/C5	12	19.5	40		138	118	100			40	60-125	0.7	15 000		
●	2		683300	HG PENCIL-12x150/C5	12	19.5	40	24.5	188	168	150	75	50	40	60-125	0.9	10 000		
○	1		683290	HG PENCIL-16x75/C5	16	26	40		113	93	75			50	165 - 270	0.8	15 000		
○	1		683280	HG PENCIL-16x125/C5	16	26	40		163	143	125			50	165 - 270	1	10 000		
●	3		683340	HG PENCIL-20x110/C5	20	32	40		148	128	110	60		52	260 - 425	1.2	20 000		
●	3		683350	HG PENCIL-20x190/C5	20	32	40		228	208	190	60		52	260 - 425	1.9	10 000		

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

PSK Inch equivalents add "-T" to metric part no. Available on request.

● From stock
○ On request

Information:

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

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Accessories:

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

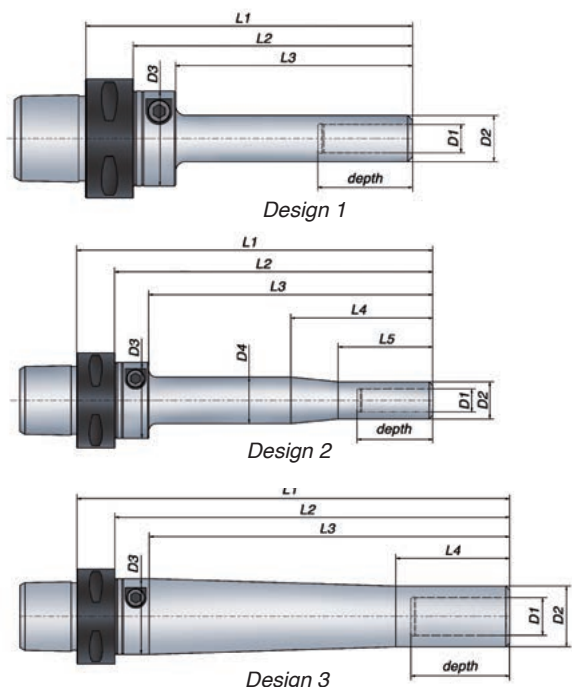
ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



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ETP HYDRO-GRIP® PENCIL PSK Form - ISO 26623-1



Metric range

Technical Specification PSK form

					Dimensions, mm														
	Design	Coupling size	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	depth	T* Nm	Weight kg	G 2.5 at rpm		
●	1	C6	683430	HG PENCIL-6x50/C6	6	12	40		90	68	50			40	12-22	1	25 000		
○	1		683360	HG PENCIL-8x50/C6	8	14.5	40		90	68	50			40	27-40	1	25 000		
○	1		683380	HG PENCIL-10x50/C6	10	17	40		90	68	50			40	35-70	1	25 000		
●	1		683370	HG PENCIL-10x100/C6	10	17	40		140	118	100			40	35-70	1.1	15 000		
●	1		683440	HG PENCIL-12x50/C6	12	19.5	40		90	68	50			40	60-125	1	25 000		
●	1		683450	HG PENCIL-12x100/C6	12	19.5	40		140	118	100			40	60-125	1.1	15 000		
●	2		683410	HG PENCIL-12x150/C6	12	19.5	40	24.5	190	168	150	75	50	40	60-125	1.3	10 000		
○	1		683400	HG PENCIL-16x75/C6	16	26	40		115	93	75			50	165 - 270	1.2	15 000		
○	1		683390	HG PENCIL-16x125/C6	16	26	40		165	143	125			50	165 - 270	1.4	10 000		
●	3		683460	HG PENCIL-20x110/C6	20	32	40		150	128	110	60		52	260 - 425	1.6	20 000		
●	3		683420	HG PENCIL-20x190/C6	20	32	40		230	208	190	60		52	260 - 425	2.2	10 000		
○	1	C8	683480	HG PENCIL-10x50/C8	10	17	40		102	72	50			40	35-70	2.1	14 000		
○	1		683470	HG PENCIL-10x100/C8	10	17	40		152	122	100			40	35-70	2.2	14 000		
●	1		683510	HG PENCIL-12x50/C8	12	19.5	40		102	72	50			40	60-125	2.1	14 000		
●	1		683520	HG PENCIL-12x100/C8	12	19.5	40		152	122	100			40	60-125	2.2	14 000		
●	2		683540	HG PENCIL-12x150/C8	12	19.5	40	24.5	202	172	150	75	50	40	60-125	2.4	10 000		
○	1		683500	HG PENCIL-16x75/C8	16	26	40		127	97	75			50	165 - 270	2.3	14 000		
○	1		683490	HG PENCIL-16x125/C8	16	26	40		177	147	125			50	165 - 270	2.5	10 000		
●	3		683530	HG PENCIL-20x110/C8	20	32	40		162	132	110	60		52	260 - 425	2.6	14 000		
●	3		683550	HG PENCIL-20x190/C8	20	32	40		242	212	190	60		52	260 - 425	3.3	10 000		

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

PSK Inch equivalents add "-T" to metric part no. Available on request.

- From stock
- On request

Information:

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

Accessories:

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

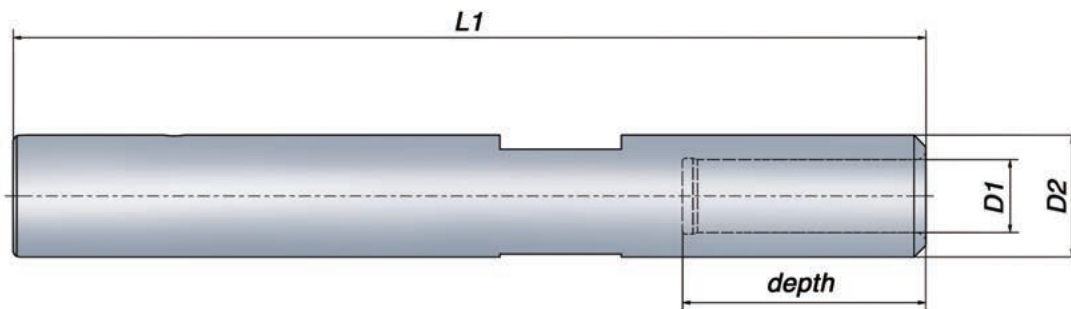
ETP HYDRO-GRIP PENCIL can be used with reducing sleeves.

For additional information see section Accessories.



ETP HYDRO-GRIP® PENCIL

Cylindrical extension



Metric range

Technical Specification

Part no.	Item description	Dimensions, mm						
		D1	D2	L1	depth	T* Nm	Weight kg	G 2.5 at rpm
336891	HG PENCIL-12/Rd20-150	12	20	150	40	60 - 125	0.3	15 000

*) 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 $2.5 \times D1$ (max. 50 mm), ≤ 0.00016 inch at $2.5 \times D1$ (max. 1.969 inch)
- Tool shank h6 or h7 can be used
- Coolant through

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.

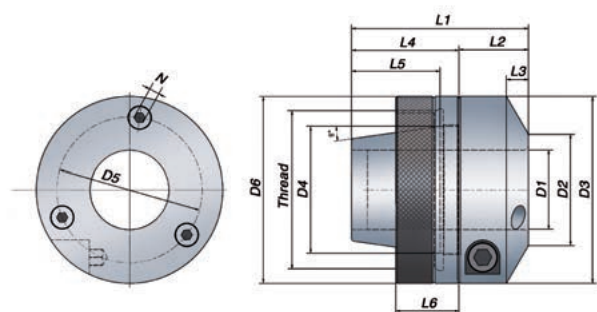
For additional information see section Accessories.



ETP ECOGRIP™ ER

For outer threaded toolholders and driven tools

Adjustable holder



Your ER holder

Internal thread nut

ETP-ECOGRIP

Adjustment screws

Metric range

Technical Specification

			Dimensions, mm										Adjustment screws				Internal thread nut			
	ER size	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	D5	No.	Dim.	N	D6	L6	Thread	T* Nm
●	16	686845	ECOGRIP-6/ER16	6	16	34	16	30	14	5	16	14	28	2	M3x16*	2.5	34	10	M22x1.5	6-14
●		686846	ECOGRIP-6/ERM16	6	16	34	16	30	14	5	16	14	28	2	M3x16*	2.5	34	10	M19x1	6-14
●	20	686855	ECOGRIP-12/ER20	12	22	43.5	20	40	24	7	16	14	34	3	M4x20	3	43.5	12	M25x1.5	50-90
●		686856	ECOGRIP-12/ERM20	12	22	43.5	20	40	24	7	16	14	34	3	M4x20	3	43.5	12	M24x1	50-90
●	25	686905	ECOGRIP-12/ER25	12	26	48	25	46	26	7	20	18	41	3	M4x20	3	48	13	M32x1.5	50-90
●		686906	ECOGRIP-12/ERM25	12	26	48	25	46	26	7	20	18	41	3	M4x20	3	48	13	M30x1	50-90
●		686875	ECOGRIP-16/ER25	16	26	48	25	46	26	7	20	18	41	3	M4x20	3	48	13	M32x1.5	120-200
●		686876	ECOGRIP-16/ERM25	16	26	48	25	46	26	7	20	18	41	3	M4x20	3	48	13	M30x1	120-200
●	32	686865	ECOGRIP-20/ER32	20	30	52	32	52	25.5	7	26.5	24.5	45	3	M4x20	3	52	15	M40x1.5	230-370
●	40	686885	ECOGRIP-25/ER40	25	35	59	40	56	22	7	34	28	46	3	M4x16	3	59	20	M50x1.5	420-600
○	50	686895	ECOGRIP-32/ER50**	32	42	69.5	50	60	22	7	38	32	56	3	M4x15	3	78	20	M64x2	660-1000

Inch range

Technical Specification

	ER size	Part no.	Item description	Dimensions, inch									Adjustment screws				Internal thread nut			
				D1	D2	D3	D4	L1	L2	L3	L4	L5	D5	No.	Dim.	N	D6	L6	Thread	T* ft·lb
●	16	686945	ECOGRIP-1/4"/ER16	0.250	0.630	1.339	0.630	1.181	0.551	0.197	0.630	0.551	1.102	2	M3x16*	0.098	1.339	0.394	M22x1.5	4.4-10
●	20	686955	ECOGRIP-1/2"/ER20	0.500	0.866	1.713	0.787	1.575	0.945	0.276	0.630	0.551	1.339	3	M4x20	0.118	1.713	0.472	M25x1.5	37-66
●		686956	ECOGRIP-1/2"/ERM20	0.500	0.866	1.713	0.787	1.575	0.945	0.276	0.630	0.551	1.339	3	M4x20	0.118	1.713	0.472	M24x1	37-66
●	25	687005	ECOGRIP-1/2"/ER25	0.500	1.024	1.890	0.984	1.811	1.024	0.276	0.787	0.709	1.614	3	M4x20	0.118	1.890	0.512	M32x1.5	37-66
●		686975	ECOGRIP-5/8"/ER25	0.625	1.024	1.890	0.984	1.811	1.024	0.276	0.787	0.709	1.614	3	M4x20	0.118	1.890	0.512	M32x1.5	89-148
●	32	686965	ECOGRIP-3/4"/ER32	0.750	1.181	2.047	1.260	2.047	1.004	0.276	1.043	0.965	1.772	3	M4x20	0.118	2.047	0.591	M40x1.5	170-273
●	40	686985	ECOGRIP-1"/ER40	1.000	1.378	2.323	1.575	2.205	0.866	0.276	1.339	1.102	1.811	3	M4x16	0.118	2.323	0.787	M50x1.5	310-443
○	50	686995	ECOGRIP-1 1/4"/ER50**	1.250	1.654	2.736	1.969	2.362	0.866	0.276	1.496	1.260	2.205	3	M4x15	0.118	3.071	0.787	M64x2	487-738

*) This size ECOGRIP ER has 2x M3x16 adjustment screws located 180 degrees apart.
It also has an additional 2x M5x8 adjustment screws, located 180 degrees apart, at the back of the thread nut.

**) The thread nut width L6 of this size ECOGRIP ER is 20 mm. The thread depth is however only 15 mm.

*) 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 - adjustable!
When mounted correctly, an initial runout of approx. 0.020 mm is achieved.
Adjust runout further by lightly tightening on the adjustment screws until your desired runout is achieved.
- Tool shank h6 or h7 can be used
- Balanced by design. For use above 5 - 10 000 rpm – we recommend individual balancing.

Accessories:

Use preset Torque Wrench, 6 Nm, to ensure correct mounting of tools. Part no. 19050.
For ER16 Use Torque wrench Part no. 19055.

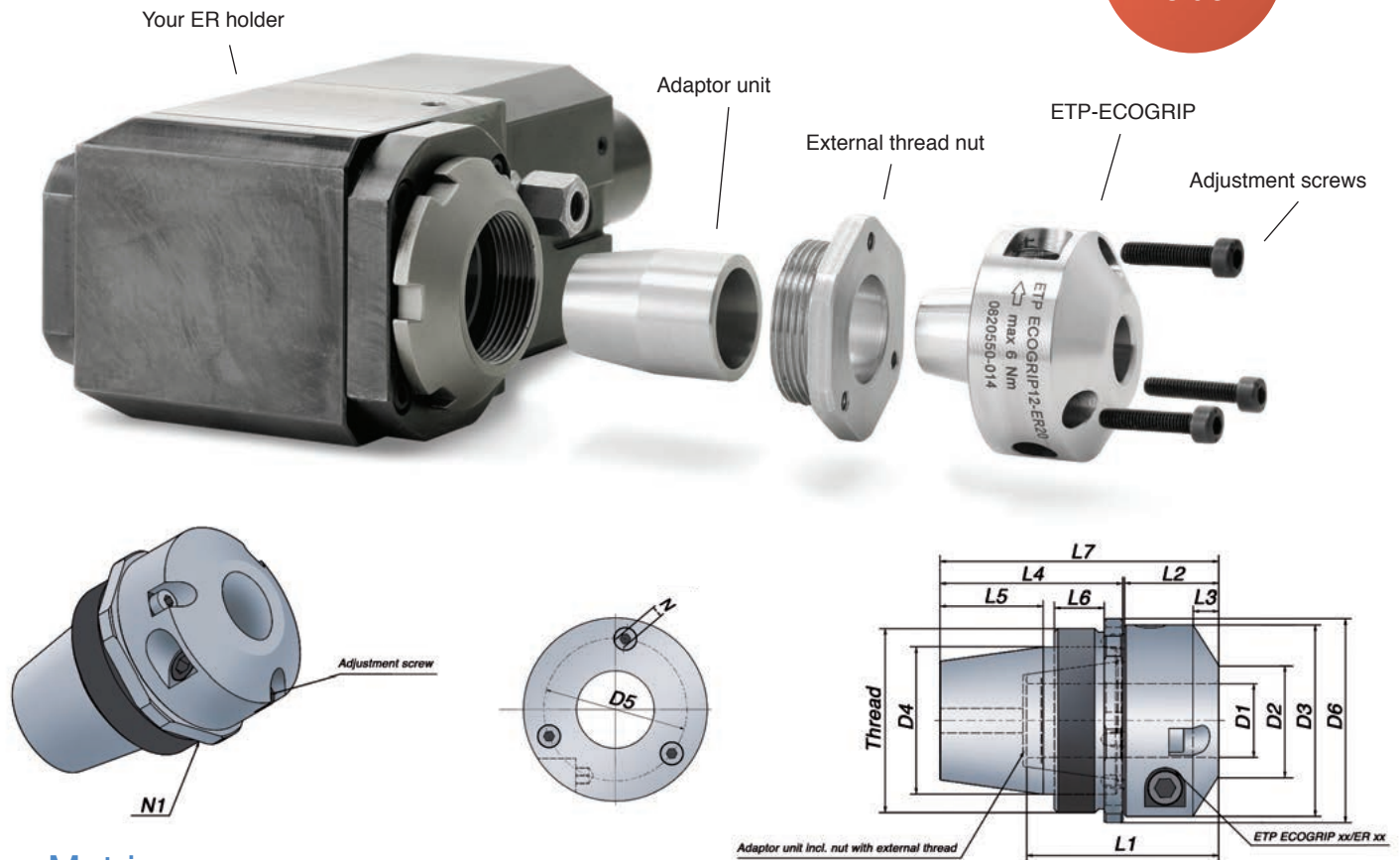
ETP ECOGRIP ER can be used with reducing sleeves.
For additional information see section Accessories.



ETP ECOGRIP™ ER

For inner threaded driven tools

Adjustable
holder



Metric range

Technical Specification

	ER size	Part no.	Item description	Dimensions, mm											Adjustment screws				External thread nut						T* Nm
				D1	D2	D3	D4	L1	L2	L3	L4	L5	L7	D5	No.	Dim.	N	D6	L6	Thread	N1	Tt Nm			
●	25	687310	ECOGRIP-12/ER20-25	12	22	43.5	25	40	24	7	36	18	60.5	34	3	M4x16	3	43.5	10	M32x1.5	40	50	50-90		
●	32	687320	ECOGRIP-12/ER25-32	12	26	48	32	46	26	7	44.5	24.5	71	41	3	M4x16	3	48	12	M40x1.5	44	104	50-90		
●		687330	ECOGRIP-16/ER25-32	16	26	48	32	46	26	7	44.5	24.5	71	41	3	M4x16	3	48	12	M40x1.5	44	104	120-200		
●	40	687340	ECOGRIP-20/ER32-40	20	30	52	40	52	25.5	7	49.5	28	75.5	45	3	M4x16	3	56	13.5	M50x1.5	52	128	230-370		

Inch range

Technical Specification

			Dimensions, inch											Adjustment screws				External thread nut						
	ER size	Part no.	Item description	D1	D2	D3	D4	L1	L2	L3	L4	L5	L7	D5	No.	Dim.	N	D6	L6	Thread	N1	Tt Nm	T* ft-lb	
●	25	687410	ECOGRIP-1/2"/ER20-25	0.500	0.866	1.713	0.984	1.575	0.945	0.276	1.417	0.709	2.382	1.339	3	M4x16	0.118	1.713	0.394	M32x1.5	1.575	50	37-66	
●	32	687420	ECOGRIP-1/2"/ER25-32	0.500	1.024	1.890	1.260	1.811	1.024	0.276	1.752	0.965	2.795	1.614	3	M4x16	0.118	1.890	0.472	M40x1.5	1.732	104	37-66	
●		687430	ECOGRIP-5/8"/ER25-32	0.625	1.024	1.890	1.260	1.811	1.024	0.276	1.752	0.965	2.795	1.614	3	M4x16	0.118	1.890	0.472	M40x1.5	1.732	104	89-148	
●	40	687440	ECOGRIP-3/4"/ER32-40	0.750	1.181	2.047	1.575	2.047	1.004	0.276	1.949	1.102	2.972	1.772	3	M4x16	0.118	2.205	0.531	M50x1.5	2.047	128	170-273	

Tt: Recommended tightening torque in Nm for the External thread nut.

*) 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 - adjustable!
When mounted correctly, an initial runout of approx. 0.020 mm is achieved.
Adjust runout further by lightly tightening on the adjustment screws until your desired runout is achieved.
- Tool shank h6 or h7 can be used
- Balanced by design

Accessories:

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

ETP ECOGRIP ER can be used with reducing sleeves.
For additional information see section Accessories.



Reduction Sleeves for ETP Toolholders



Reduction sleeve HS - for internal cooling

The reduction sleeves are designed to fit with the ETP Toolholders. They are specially suited for high precision clamping of cylindrical tool shanks per DIN 6335 form HA, HB and HE, as well as tool shanks per DIN 1835 form B, C, D and E.

The special design of the reduction sleeves allows an efficient use of coolant through cutting tools.



Reduction sleeve HS-CF - for peripheral cooling

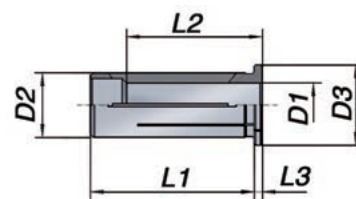
Outer-Ø of reduction sleeve corresponds to the type.

HS12 = Ø 12 mm

HS20 = Ø 20 mm

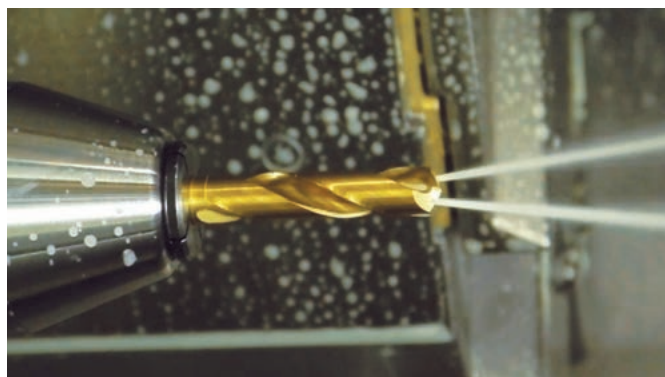
HS25 = Ø 25 mm

HS32 = Ø 32 mm

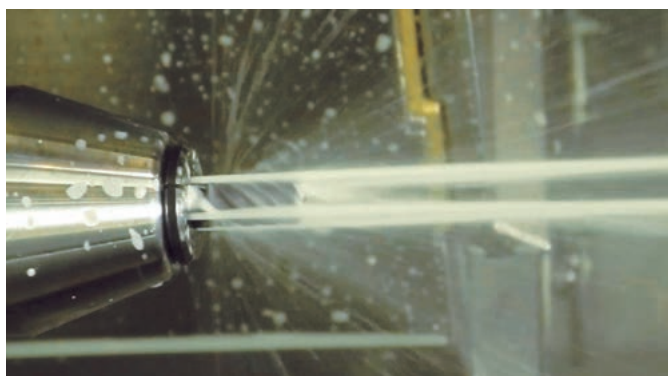


BENEFITS & FEATURES

- **Standard version HS suited for internal cooling**
Metal-to-metal seal for cutting tools with internal coolant channels.
- **HS-CF version suited for peripheral cooling**
The coolant flush reduction sleeves HS-CF can be used for peripheral cooling due to their coolant channels.
- **Accurate precision**
High runout accuracy < 3 µm.
- **High flexibility**
Clamping of different tool shank diameters. 12, 20, 25, 32 mm and 1/2", 3/4", 1", 1 1/4".
- **Power increase**
When using reduction sleeves the transmittable torque is increased.



Using Reduction sleeve HS - for internal cooling.



Using Reduction sleeve HS-CF - for peripheral cooling.

Reduction Sleeves **Inch to inch****mm to inch**

Reduction Sleeves inch to inch							
Part no.	Item description	D2 inch	D1 inch	D3 inch	L1 inch	L2 inch	L3 inch
Reduction Sleeves HS 1/2"							
● R1913.03182	HS 1/2" / 1/8"	0.500	0.1250	0.630	1.575	1.142	0.157
● R1913.04762	HS 1/2" / 3/16"	0.500	0.1875	0.630	1.575	1.142	0.157
● R1913.06352	HS 1/2" / 1/4"	0.500	0.2500	0.630	1.575	1.417	0.157
● R1913.07942	HS 1/2" / 5/16"	0.500	0.3125	0.630	1.575	1.457	0.157
● R1913.09522	HS 1/2" / 3/8"	0.500	0.3750	0.630	1.575	1.575	0.157
Reduction Sleeves HS 1/2"-CF							
● R1913.06353	HS 1/2"-CF / 1/4"	0.500	0.2500	0.630	1.575	1.417	0.157
● R1913.09523	HS 1/2"-CF / 3/8"	0.500	0.3750	0.630	1.575	1.575	0.157
Reduction Sleeves HS 3/4"							
● R1919.03182	HS 3/4" / 1/8"	0.750	0.1250	0.984	1.969	1.102	0.157
● R1919.04762	HS 3/4" / 3/16"	0.750	0.1875	0.984	1.969	1.102	0.157
● R1919.06352	HS 3/4" / 1/4"	0.750	0.2500	0.984	1.969	1.417	0.157
● R1919.07942	HS 3/4" / 5/16"	0.750	0.3125	0.984	1.969	1.457	0.157
● R1919.09522	HS 3/4" / 3/8"	0.750	0.3750	0.984	1.969	1.417	0.157
● R1919.11112	HS 3/4" / 7/16"	0.750	0.4375	0.984	1.969	1.575	0.157
● R1919.12702	HS 3/4" / 1/2"	0.750	0.5000	0.984	1.969	1.772	0.157
● R1919.14292	HS 3/4" / 9/16"	0.750	0.5625	0.984	1.969	1.772	0.157
● R1919.15882	HS 3/4" / 5/8"	0.750	0.6250	0.984	1.969	1.890	0.157
Reduction Sleeves HS 3/4"-CF							
● R1919.06353	HS 3/4"-CF / 1/4"	0.750	0.2500	0.984	1.969	1.417	0.157
● R1919.09523	HS 3/4"-CF / 3/8"	0.750	0.3750	0.984	1.969	1.417	0.157
● R1919.12703	HS 3/4"-CF / 1/2"	0.750	0.5000	0.984	1.969	1.772	0.157
● R1919.15883	HS 3/4"-CF / 5/8"	0.750	0.6250	0.984	1.969	1.890	0.157
Reduction Sleeves HS 1"							
● R1926.03182	HS 1" / 1/8"	1.000	0.1250	1.181	2.205	1.142	0.157
○ R1926.04762	HS 1" / 3/16"	1.000	0.1875	1.181	2.205	1.142	0.157
● R1926.06352	HS 1" / 1/4"	1.000	0.2500	1.181	2.205	1.457	0.157
● R1926.07942	HS 1" / 5/16"	1.000	0.3125	1.181	2.205	1.457	0.157
● R1926.09522	HS 1" / 3/8"	1.000	0.3750	1.181	2.205	1.496	0.157
○ R1926.11112	HS 1" / 7/16"	1.000	0.4375	1.181	2.205	1.575	0.157
● R1926.12702	HS 1" / 1/2"	1.000	0.5000	1.181	2.205	1.811	0.157
○ R1926.14292	HS 1" / 9/16"	1.000	0.5625	1.181	2.205	1.850	0.157
● R1926.15882	HS 1" / 5/8"	1.000	0.6250	1.181	2.205	1.890	0.157
● R1926.17462	HS 1" / 11/16"	1.000	0.6875	1.181	2.205	1.890	0.157
● R1926.19052	HS 1" / 3/4"	1.000	0.7500	1.181	2.205	1.890	0.157
Reduction Sleeves HS 1"-CF							
● R1926.06353	HS 1"-CF / 1/4"	1.000	0.2500	1.181	2.205	1.457	0.157
● R1926.09523	HS 1"-CF / 3/8"	1.000	0.3750	1.181	2.205	1.496	0.157
● R1926.12703	HS 1"-CF / 1/2"	1.000	0.5000	1.181	2.205	1.811	0.157
● R1926.15883	HS 1"-CF / 5/8"	1.000	0.6250	1.181	2.205	1.890	0.157
● R1926.19053	HS 1"-CF / 3/4"	1.000	0.7500	1.181	2.205	1.890	0.157
Reduction Sleeves HS 1 1/4"							
○ R1931.04762	HS 1 1/4" / 3/16"	1.250	0.1875	1.417	2.362	1.142	0.157
● R1931.06352	HS 1 1/4" / 1/4"	1.250	0.2500	1.417	2.362	1.417	0.157
● R1931.07942	HS 1 1/4" / 5/16"	1.250	0.3125	1.417	2.362	1.417	0.157
● R1931.09522	HS 1 1/4" / 3/8"	1.250	0.3750	1.417	2.362	1.457	0.157
○ R1931.11112	HS 1 1/4" / 7/16"	1.250	0.4375	1.417	2.362	1.772	0.157
● R1931.12702	HS 1 1/4" / 1/2"	1.250	0.5000	1.417	2.362	1.772	0.157
○ R1931.14292	HS 1 1/4" / 9/16"	1.250	0.5625	1.417	2.362	1.811	0.157
● R1931.15882	HS 1 1/4" / 5/8"	1.250	0.6250	1.417	2.362	1.811	0.157
● R1931.17462	HS 1 1/4" / 11/16"	1.250	0.6875	1.417	2.362	1.890	0.157
● R1931.19052	HS 1 1/4" / 3/4"	1.250	0.7500	1.417	2.362	1.969	0.157
● R1931.25402	HS 1 1/4" / 1"	1.250	1.000	1.417	2.362	2.205	0.157
Reduction Sleeves HS 1 1/4"-CF							
● R1931.12703	HS 1 1/4"-CF / 1/2"	1.250	0.5000	1.417	2.362	1.772	0.157
● R1931.15883	HS 1 1/4"-CF / 5/8"	1.250	0.6250	1.417	2.362	1.811	0.157
● R1931.19053	HS 1 1/4"-CF / 3/4"	1.250	0.7500	1.417	2.362	1.969	0.157
● R1931.25403	HS 1 1/4"-CF / 1"	1.250	1.000	1.417	2.362	2.205	0.157

Reduction Sleeves mm to inch							
Part no.	Item description	D2 mm	D1 inch	D3 mm	L1 mm	L2 mm	L3 mm
Reduction Sleeves HS 12							
● R1912.03181	HS 12 / 1/8"	12	0.1250	16	40	29	4
● R1912.04761	HS 12 / 3/16"	12	0.1875	16	40	29	4
● R1912.06351	HS 12 / 1/4"	12	0.2500	16	40	29	4
● R1912.07941	HS 12 / 5/16"	12	0.3125	16	40	36	4
● R1912.09521	HS 12 / 3/8"	12	0.3750	16	40	37	4
Reduction Sleeves HS 20							
● R1920.03181	HS 20 / 1/8"	20	0.1250	25	50	28	4
● R1920.04761	HS 20 / 3/16"	20	0.1875	25	50	28	4
● R1920.06351	HS 20 / 1/4"	20	0.2500	25	50	36	4
● R1920.07941	HS 20 / 5/16"	20	0.3125	25	50	37	4
● R1920.09521	HS 20 / 3/8"	20	0.3750	25	50	36	4
● R1920.11111	HS 20 / 7/16"	20	0.4375	25	50	40	4
● R1920.12701	HS 20 / 1/2"	20	0.5000	25	50	45	4
● R1920.14291	HS 20 / 9/16"	20	0.5625	25	50	45	4
● R1920.15881	HS 20 / 5/8"	20	0.6250	25	50	48	4
Reduction Sleeves HS 25							
● R1925.03181	HS 25 / 1/8"	25	0.1250	30	56	29	4
○ R1925.04761	HS 25 / 3/16"	25	0.1875	30	56	29	4
● R1925.06351	HS 25 / 1/4"	25	0.2500	30	56	37	4
● R1925.07941	HS 25 / 5/16"	25	0.3125	30	56	37	4
● R1925.09521	HS 25 / 3/8"	25	0.3750	30	56	38	4
○ R1925.11111	HS 25 / 7/16"	25	0.4375	30	56	40	4
● R1925.12701	HS 25 / 1/2"	25	0.5000	30	56	46	4
○ R1925.14291	HS 25 / 9/16"	25	0.5625	30	56	47	4
● R1925.15881	HS 25 / 5/8"	25	0.6250	30	56	48	4
● R1925.17461	HS 25 / 11/16"	25	0.6875	30	56	48	4
● R1925.19051	HS 25 / 3/4"	25	0.7500	30	56	48	4
○ R1925.20631	HS 25 / 13/16"	25	0.8125	30	56	50	4
Reduction Sleeves HS 32							
○ R1932.04761	HS 32 / 3/16"	32	0.1875	36	60	29	4
● R1932.06351	HS 32 / 1/4"	32	0.2500	36	60	36	4
○ R1932.07941	HS 32 / 5/16"	32	0.3125	36	60	36	4
● R1932.09521	HS 32 / 3/8"	32	0.3750	36	60	37	4
○ R1932.11111	HS 32 / 7/16"	32	0.4375	36	60	45	4
● R1932.12701	HS 32 / 1/2"	32	0.5000	36	60	45	4
○ R1932.14291	HS 32 / 9/16"	32	0.5625	36	60	46	4
● R1932.15881	HS 32 / 5/8"	32	0.6250	36	60	46	4
○ R1932.17461	HS 32 / 11/16"	32	0.6875	36	60	48	4
● R1932.19051	HS 32 / 3/4"	32	0.7500	36	60	50	4
○ R1932.20631	HS 32 / 13/16"	32	0.8125	36	60	50	4
● R1932.22221	HS 32 / 7/8"	32	0.8750	36	60	50	4
○ R1932.23811	HS 32 / 15/16"	32	0.9375	36	60	52	4
● R1932.25401	HS 32 / 1"	32	1.000	36	60	56	4

Reduction Sleeves

mm to mm

Reduction Sleeves mm to mm

Part no.	Item description	D2 mm	D1 mm	D3 mm	L1 mm	L2 mm	L3 mm
Reduction Sleeves HS 12-MB (Micro Bore)							
○ R1912.01009	HS 12-MB / 1 mm	12	1.000	16	40	20	4
○ R1912.01509	HS 12-MB / 1,5 mm	12	1.500	16	40	20	4
○ R1912.02009	HS 12-MB / 2 mm	12	2.000	16	40	20	4
○ R1912.02509	HS 12-MB / 2,5 mm	12	2.500	16	40	20	4
Reduction Sleeves HS 12							
● R1912.03000	HS 12 / 3 mm	12	3.000	16	40	29	4
● R1912.04000	HS 12 / 4 mm	12	4.000	16	40	29	4
● R1912.05000	HS 12 / 5 mm	12	5.000	16	40	29	4
● R1912.06000	HS 12 / 6 mm	12	6.000	16	40	36	4
● R1912.07000	HS 12 / 7 mm	12	7.000	16	40	37	4
● R1912.08000	HS 12 / 8 mm	12	8.000	16	40	37	4
● R1912.09000	HS 12 / 9 mm	12	9.000	16	40	37	4
● R1912.10000	HS 12 / 10 mm	12	10.000	16	40	40	4
Reduction Sleeves HS 12-CF							
● R1912.03002	HS 12-CF / 3 mm	12	3.000	16	40	29	4
● R1912.04002	HS 12-CF / 4 mm	12	4.000	16	40	29	4
● R1912.05002	HS 12-CF / 5 mm	12	5.000	16	40	29	4
● R1912.06002	HS 12-CF / 6 mm	12	6.000	16	40	36	4
● R1912.08002	HS 12-CF / 8 mm	12	8.000	16	40	37	4
Reduction Sleeves HS 20							
● R1920.03000	HS 20 / 3 mm	20	3.000	25	50	28	4
● R1920.04000	HS 20 / 4 mm	20	4.000	25	50	28	4
● R1920.05000	HS 20 / 5 mm	20	5.000	25	50	28	4
● R1920.06000	HS 20 / 6 mm	20	6.000	25	50	36	4
● R1920.07000	HS 20 / 7 mm	20	7.000	25	50	38	4
● R1920.08000	HS 20 / 8 mm	20	8.000	25	50	37	4
● R1920.09000	HS 20 / 9 mm	20	9.000	25	50	38	4
● R1920.10000	HS 20 / 10 mm	20	10.000	25	50	40	4
● R1920.11000	HS 20 / 11 mm	20	11.000	25	50	40	4
● R1920.12000	HS 20 / 12 mm	20	12.000	25	50	45	4
● R1920.13000	HS 20 / 13 mm	20	13.000	25	50	45	4
● R1920.14000	HS 20 / 14 mm	20	14.000	25	50	45	4
● R1920.15000	HS 20 / 15 mm	20	15.000	25	50	45	4
● R1920.16000	HS 20 / 16 mm	20	16.000	25	50	48	4
● R1920.18000	HS 20 / 18 mm	20	18.000	25	50	48	4
Reduction Sleeves HS 20-CF							
○ R1920.03002	HS 20-CF / 3 mm	20	3.000	25	50	28	4
● R1920.04002	HS 20-CF / 4 mm	20	4.000	25	50	28	4
● R1920.05002	HS 20-CF / 5 mm	20	5.000	25	50	28	4
● R1920.06002	HS 20-CF / 6 mm	20	6.000	25	50	36	4
● R1920.08002	HS 20-CF / 8 mm	20	8.000	25	50	37	4
● R1920.10002	HS 20-CF / 10 mm	20	10.000	25	50	40	4
● R1920.12002	HS 20-CF / 12 mm	20	12.000	25	50	45	4
● R1920.14002	HS 20-CF / 14 mm	20	14.000	25	50	45	4
● R1920.16002	HS 20-CF / 16 mm	20	16.000	25	50	48	4

Reduction Sleeves mm to mm

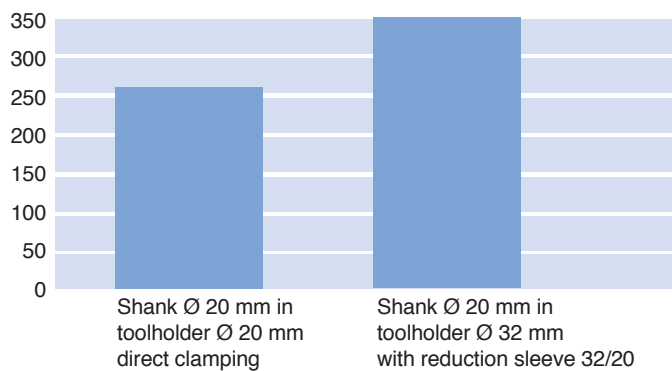
Part no.	Item description	D2 mm	D1 mm	D3 mm	L1 mm	L2 mm	L3 mm
Reduction Sleeves HS 25							
● R1925.03000	HS 25 / 3 mm	25	3.000	30	56	29	4
● R1925.04000	HS 25 / 4 mm	25	4.000	30	56	29	4
● R1925.05000	HS 25 / 5 mm	25	5.000	30	56	29	4
● R1925.06000	HS 25 / 6 mm	25	6.000	30	56	37	4
● R1925.07000	HS 25 / 7 mm	25	7.000	30	56	37	4
● R1925.08000	HS 25 / 8 mm	25	8.000	30	56	37	4
● R1925.09000	HS 25 / 9 mm	25	9.000	30	56	38	4
● R1925.10000	HS 25 / 10 mm	25	10.000	30	56	40	4
● R1925.12000	HS 25 / 12 mm	25	12.000	30	56	46	4
● R1925.14000	HS 25 / 14 mm	25	14.000	30	56	47	4
● R1925.16000	HS 25 / 16 mm	25	16.000	30	56	48	4
● R1925.18000	HS 25 / 18 mm	25	18.000	30	56	48	4
● R1925.20000	HS 25 / 20 mm	25	20.000	30	56	50	4
Reduction Sleeves HS 32							
○ R1932.03000	HS 32 / 3 mm	32	3.000	36	60	29	4
○ R1932.04000	HS 32 / 4 mm	32	4.000	36	60	29	4
○ R1932.05000	HS 32 / 5 mm	32	5.000	36	60	29	4
● R1932.06000	HS 32 / 6 mm	32	6.000	36	60	36	4
● R1932.07000	HS 32 / 7 mm	32	7.000	36	60	37	4
● R1932.08000	HS 32 / 8 mm	32	8.000	36	60	36	4
● R1932.09000	HS 32 / 9 mm	32	9.000	36	60	37	4
● R1932.10000	HS 32 / 10 mm	32	10.000	36	60	40	4
○ R1932.11000	HS 32 / 11 mm	32	11.000	36	60	40	4
● R1932.12000	HS 32 / 12 mm	32	12.000	36	60	45	4
● R1932.13000	HS 32 / 13 mm	32	13.000	36	60	45	4
● R1932.14000	HS 32 / 14 mm	32	14.000	36	60	46	4
○ R1932.15000	HS 32 / 15 mm	32	15.000	36	60	46	4
● R1932.16000	HS 32 / 16 mm	32	16.000	36	60	48	4
● R1932.17000	HS 32 / 17 mm	32	17.000	36	60	48	4
● R1932.18000	HS 32 / 18 mm	32	18.000	36	60	49	4
○ R1932.19000	HS 32 / 19 mm	32	19.000	36	60	49	4
● R1932.20000	HS 32 / 20 mm	32	20.000	36	60	50	4
● R1932.22000	HS 32 / 22 mm	32	22.000	36	60	50	4
● R1932.25000	HS 32 / 25 mm	32	25.000	36	60	56	4
Reduction Sleeves HS 32-CF							
○ R1932.06002	HS 32-CF / 6 mm	32	6.000	36	60	36	4
○ R1932.08002	HS 32-CF / 8 mm	32	8.000	36	60	36	4
○ R1932.10002	HS 32-CF / 10 mm	32	10.000	36	60	40	4
○ R1932.12002	HS 32-CF / 12 mm	32	12.000	36	60	45	4
○ R1932.14002	HS 32-CF / 14 mm	32	14.000	36	60	46	4
○ R1932.16002	HS 32-CF / 16 mm	32	16.000	36	60	48	4
○ R1932.18002	HS 32-CF / 18 mm	32	18.000	36	60	49	4
○ R1932.20002	HS 32-CF / 20 mm	32	20.000	36	60	50	4
○ R1932.25002	HS 32-CF / 25 mm	32	25.000	36	60	56	4

Accessories

Torque wrench and Extractor



Comparison of Transmittable Torque at Ø 20 mm



HYDRO-GRIP Torque wrench

Use torque wrench to ensure correct tightening independent on user. Should be used with all HYDRO-GRIP® holders.

Item description	Tightening torque:		Part no.
	Nm	ft · lb	
• Torque wrench (5 mm Hex)	6	4.4	19050
• Torque wrench (4 mm Hex)	6	4.4	19055
• Torque wrench (5 mm Hex)	10	7.4	19052

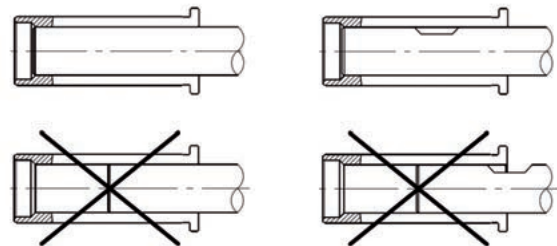
Extractor

Item description	Part no.	For Sizes	A	B
			[mm]	[mm]
• EHS 12 - 1/2"	E7321.12000	HS 12	24.6	100
• EHS 20 - 3/4"	E7321.20000	HS 20	38.0	160
• EHS 25 - 1"	E7321.25000	HS 25	51.0	180
• EHS 32 - 1 1/4"	E7321.32000	HS 32	63.0	200



The extractor helps to remove the reduction sleeve from the toolholder.

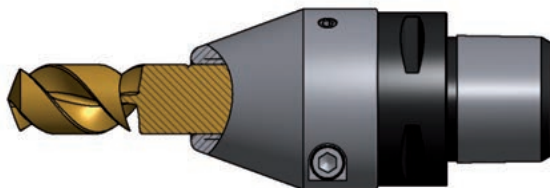
- Improper assembly can damage the concentricity of the reduction sleeve.
- Insert tools the full length of the reduction sleeve.
- Tool shank h6 or h7 can be used.
- Do not clamp reduction sleeve without a tool. Reduction Sleeve will be damaged.



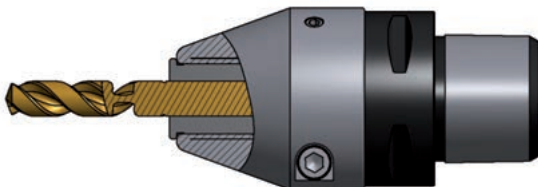
Transmittable torque

The tables gives the minimum transmittable torque depending on the tool diameter and tolerance.

For optimal performance and precision we recommend the use of h6-tools. Also tools with h7 tolerance can be used, however the transmittable torque will decrease, see tables:



- at direct tool clamping



- at clamping with reducing sleeve

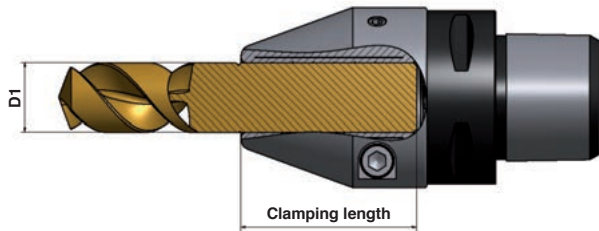
Torque transmission capacity at different tool tolerances for:		HYDRO-GRIP / HYDRO-GRIP PENCIL							
Tool diameter in mm		6	8	10	12	16	20	25	32
Tol. h6 min.	Nm	12	27	35	60	165	260	480	820
Tol. h7 min.	Nm	7	18	14	30	105	175	350	630
Tol. Max (0)	Nm	22	40	70	125	270	425	710	1250
Tool diameter in inches		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"
Tol. h6 min.	ft-lb	13	20	22	55	122	192	354	605
Tol. h7 min.	ft-lb	9	13	7	32	77	129	258	465
Tol. Max (0)	ft-lb	20	30	52	105	199	314	524	922

Torque transmission capacity at different tool tolerances for:		HYDRO-GRIP HD / ECOGRIP					
Tool diameter in mm		12	16	20	25	32	
Tol. h6 min.	Nm	85	250	400	740	1325	
Tol. h7 min.	Nm	50	190	330	630	1140	
Tol. Max (0)	Nm	150	340	535	940	1670	
Tool diameter in inches		1/2"	5/8"	3/4"	1"	1 1/4"	
Tol. h6 min.	ft-lb	90	180	295	546	977	
Tol. h7 min.	ft-lb	60	140	243	465	841	
Tol. Max (0)	ft-lb	140	250	395	693	1232	

Torque transmission capacity using reducing sleeves for:		HYDRO-GRIP / HYDRO-GRIP PENCIL			
		Tool with reducing sleeve in mm			
		12	20	25	32
Holder mm	Nm	Nm	Nm	Nm	
12	60	-	-	-	
20	95	260	-	-	
25	140	235	480	-	
32	190	350	520	820	
		Tool with reducing sleeve in inches			
		1/2"	3/4"	1"	1 1/4"
Holder inch	ft-lb	ft-lb	ft-lb	ft-lb	
1/2"	55	-	-	-	
3/4"	70	192	-	-	
1"	103	173	354	-	
1 1/4"	140	258	384	605	

Torque transmission capacity using reducing sleeves for:		HYDRO-GRIP HD / ECOGRIP			
		Tool with reducing sleeve in mm			
		12	20	25	32
Holder mm	Nm	Nm	Nm	Nm	
12	-	-	-	-	
20	170	400	-	-	
25	260	470	740	-	
32	340	640	950	1325	
		Tool with reducing sleeve in inches			
		1/2"	3/4"	1"	1 1/4"
Holder inch	ft-lb	ft-lb	ft-lb	ft-lb	
1/2"	-	-	-	-	
3/4"	125	295	-	-	
1"	192	347	546	-	
1 1/4"	251	472	701	977	

Transmittable torque



- at reduced clamping length

"By reducing the tool clamping length, an increase accessibility can be reached when machining. Below table indicates the reduction in torque capacity in such a case. For short time use only!"

HYDRO-GRIP torque transmission capacity at different clamping lengths

Clamping length X diameter D1						
	1,0	1,5	2	2,5	3,0	Min. length*
Holder mm	Nm	Nm	Nm	Nm	Nm	mm
12	5	15	25	40	60	35
20	45	100	175	260	260	46.5
25	110	235	440	480	480	50.5
32	260	585	820	820	820	53.5

Clamping length X diameter D1						
	1,0	1,5	2	2,5	3,0	Min. length*
Holder inches	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	inch
1/2"	3.7	11	18	30	44	1.378
3/4"	33	74	129	192	192	1.831
1"	81	173	325	354	354	1.988
1 1/4"	192	431	605	605	605	2.106

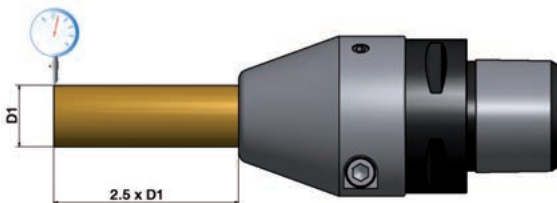
Balancing:

All holders are dynamically balanced.
See corresponding product pages for details.

Runout:

All ETP holders are delivered with a high runout accuracy at time of delivery. The runout value is measured at $2.5 \times D1$.

See corresponding product pages for details.

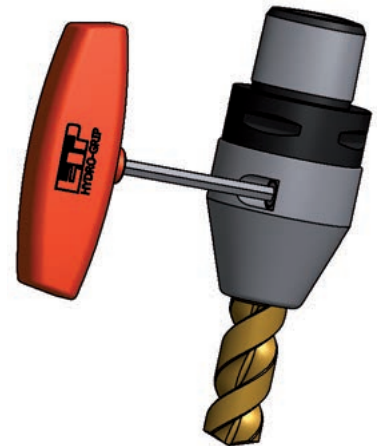


Recommended tightening torque:

- **HYDRO-GRIP** 6 Nm
- **HYDRO-GRIP HD** 10 Nm
- **ECOGRIP** 10 Nm

Always use a torque wrench for best chuck performance and repeatability.

- **Torque too high**
may cause screw damage.
- **Torque too low**
may cause tool vibration, tool movement, affects surface and tool accuracy, balancing.



Handling:

ETP HYDRO-GRIP and ETP ECOGRIP are high precision toolholders and should be handled with care for optimal performance.

- Before inserting tool, check for damages on tool and holder.
- Tools should be of correct dimension and tolerance (h6 or h7), and cleaned.
- Do not use force to insert tool, it should easily slide in position.
- Mount the tool by tightening the pressure screw to the recommended tightening torque, marked on the holder. Use a fixed torque wrench.
- When stored lubricate the holder with a thin oil for corrosion resistance.
- Do not use HYDRO-GRIP/ECOGRIP at working temperatures above 85 degrees C / 185 degrees F. Do not use HYDRO-GRIP HD at working temperatures above 70 degrees C / 158 degrees F. (This may increase the pressure in the holder and influence it negatively).



*More Hydraulic
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