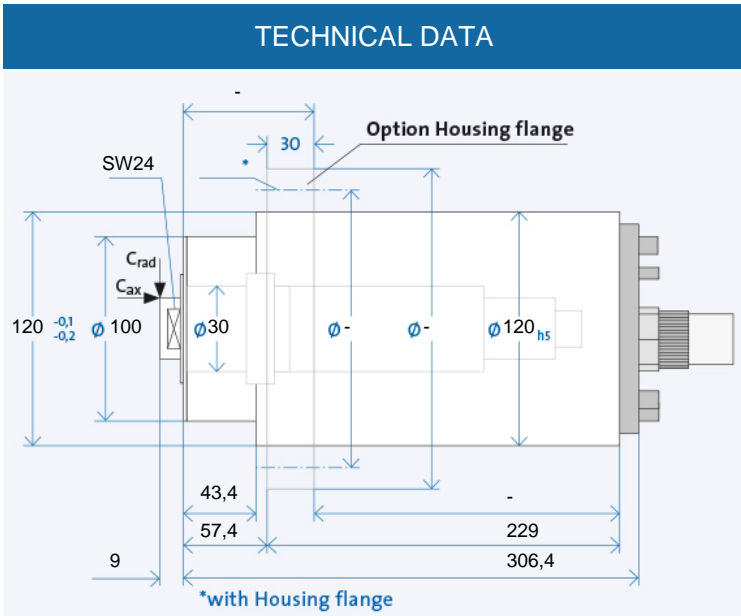


HSX 120 - 51000/12



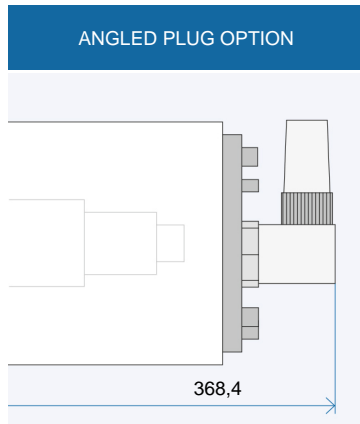
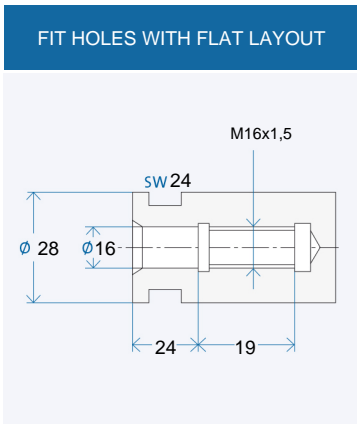
Technical data		
∅ Spindle housing	A	[mm]
Speed max.	n_{max}	[min^{-1}]
Bearing; front	W_1	[mm]
Tool interface		
∅ Flat layout	W	[mm]
Static rigidity		
axial	C_{ax}	[N/ μm]
radial	C_{rad}	[N/ μm]
Motor realization		
Frequency max.	f_{max}	[Hz]
Converter voltage ¹⁾	[V]	
Power	P_{S1}	[kW]
Torque	M_{S1}	[Nm]
... at speed	n	[min^{-1}]
Current	I_{S1}	[A]
Power	$P_{S6-60\%}$	[kW]
Torque	$M_{S6-60\%}$	[Nm]
... at speed	n	[min^{-1}]
Current	$I_{S6-60\%}$	[A]

HSX 120 - 51000/12			
120			
51000			
30			
D 16/28			
28			
70			
102			
200 V	350 V	460 V	
1700			
200	350	460	
11			
3,5			
30000			
63	36	27	
12			
3,82			
30000			
67	38	29	



Electrical connection		
Plug type	Straight plug connection	
Coil plug connector	Fixed cable XXm	
Coolant feed through the shaft		
Low pressure (du)	o	
High-pressure (dh)	-	
Sensors		
Rotary encoder	x	
Speed sensor	+	
Housing		
Cylindrical housing	+	
Cylindrical housing with flange	o	
Block housing	x	
Air-tight seal	o	

MAC	GA	GA
+	+	+
o	o	o
o	o	o
Coolant feed through the shaft		
Low pressure (du)		
o		
High-pressure (dh)		
-		
Sensors		
Rotary encoder		
x		
Speed sensor		
+		
Housing		
Cylindrical housing		
+		
Cylindrical housing with flange		
o		
Block housing		
x		
Air-tight seal		
o		

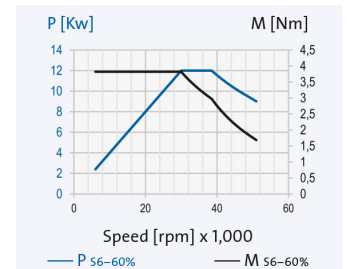


The data currently provided on the internet apply. Further and detailed information is provided in the GMN 2508 catalogue.

¹⁾ Minimum required starting voltage for the frequency converter.

+ Standard
o Optional
x Upon request

Ordering information:
HSX 120 - 51000/12
R is for clockwise, L for counter-clockwise
+ Desired options



HSX 120 - 51000/12

Grinding quills

GMN produces grinding quills with high round and flat face accuracy for all available GMN grinding mandrel receivers.

FIG. 1: CEMENTED (KI)

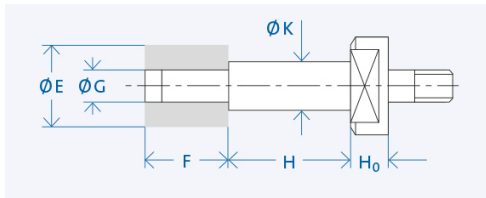


FIG. 2: WITH ADJUSTMENT SCREW (PS)

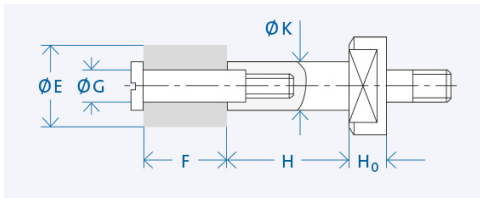
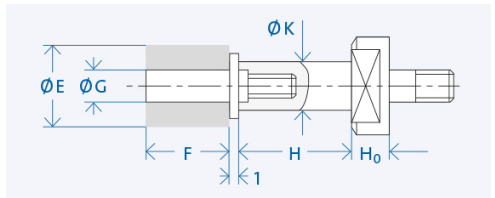
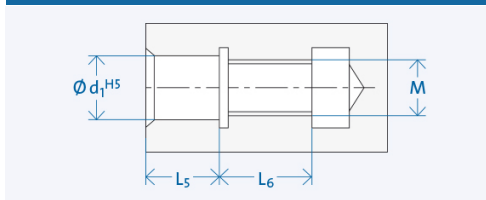


FIG. 3: FOR GRINDING WHEELS ON THREADED PIN (PL)*



FITTING HOLE FOR FIG. 2 AND 3



d ₁	M	L ₅	L ₆
4	M3	5	8
6	M5	7	11
8	M6	9	12
10	M8	12	14
13	M12	13	17

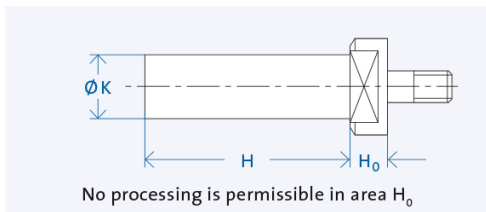
Interface	K [mm]	H [mm]	Wheel E x F [mm]	G [mm]	Grinding wheel attachment	H ₀ [mm]
D 16/28	10	25	16 x 16	6	PS/PL	10
	13	32	20 x 20	8	PS/PL	
	16	40	25 x 25	10	PS/PL	

Ordering information:

[Mandrel Ø K] x [Mandrel length H] - [Grinding wheels ø G] x [Grinding wheel width F] [Interface] [Mandrel fixation]
Example: Grinding quill 16 x 40 - 10 x 25 D16/28 PS

Semi-finished goods

GMN semi-finished products allow the individual adaptation of the tool interface for any connections.



d ₁	K [mm]	H [mm]
D 16/28	28	229

Ordering information: »Semi-finished goods« [Shaft Ø K] x [Shaft length H] [Interface]
Example: Semi-finished goods 34 x 180 D16/33

Lubrication system



The electronically controlled PRELUB lubrication unit is optimally adapted to the oil-air lubricated GMN spindles and guarantees a long service life.

Cooling system



GMN cooling units ensure precisely adjustable temperature and quantity delivery of the coolant and achieve consistently low operating temperatures.

Cable and plug



Ready-made cables with B048, B049, GA, MAC, D500 and STK plugs are available on request. For the spindle/converter connection, GMN supplies UL/CSA approved electrical cables suitable for use in drag chains.