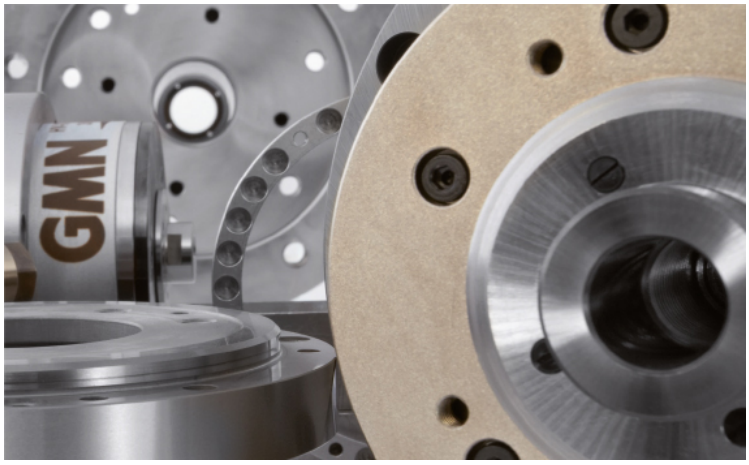
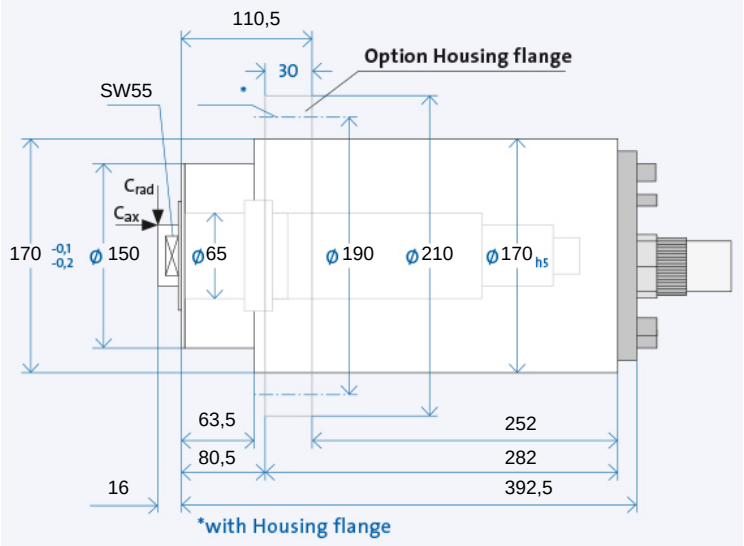
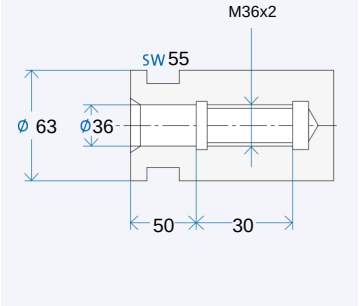
# HSX 170 - 24000/21



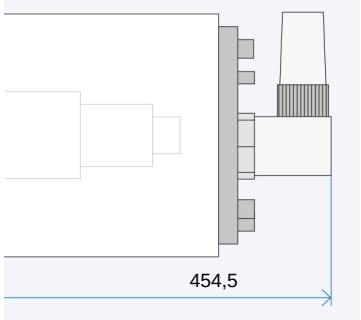

## TECHNICAL DATA




## FIT HOLES WITH FLAT LAYOUT




## ANGLED PLUG OPTION



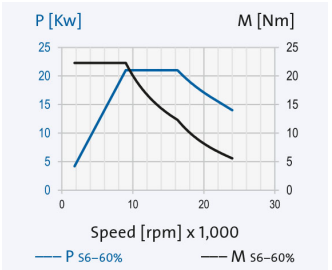

The data currently provided on the internet apply. Further and detailed information is provided in the GMN 2508 catalogue.

| Technical data | | | HSX 170 - 24000/21 | | |
|---|---|---|---|---|---|
| ø Spindle housing | A | [mm] | 170 | | |
| Speed max. | $n_{max}$ | [$min^{-1}$] | 24000 | | |
| Bearing; front | $W_1$ | [mm] | 65 | | |
| Tool interface | | | D 36/63 | | |
| ø Flat layout | W | [mm] | 63 | | |
| Static rigidity | | | | | |
| axial | $C_{ax}$ | [N/µm] | 130 | | |
| radial | $C_{rad}$ | [N/µm] | 231 | | |
| Motor realization | | | 200 V | 350 V | 460 V |
| Frequency max. | $f_{max}$ | [Hz] | 800 | | |
| Converter voltage[1)] | | [V] | 200 | 350 | 460 |
| Power | $P_{S1}$ | [kW] | 19 | | |
| Torque | $M_{S1}$ | [Nm] | 20,2 | | |
| ... at speed | n | [$min^{-1}$] | 9000 | | |
| Current | $I_{S1}$ | [A] | 82 | 47 | 36 |
| Power | $P_{S6\text{-}60\%}$ | [kW] | 21 | | |
| Torque | $M_{S6\text{-}60\%}$ | [Nm] | 22,3 | | |
| ... at speed | n | [$min^{-1}$] | 9000 | | |
| Current | $I_{S6\text{-}60\%}$ | [A] | 93 | 53 | 40 |

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

[1)] Minimum required starting voltage for the frequency converter.

+ Standard
o Optional
x Upon request




Ordering information:
HSX 170 - 24000/21
R is for clockwise, L for counter-clockwise
+ Desired options

# HSX 170 - 24000/21

## Grinding quills

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

FIG. 1: CEMENTED (KI)

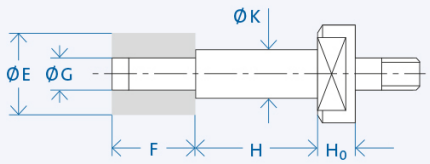



FIG. 2: WITH ADJUSTMENT SCREW (PS)

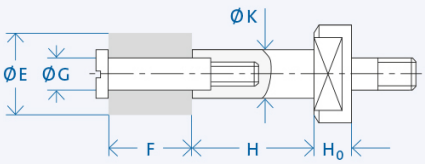
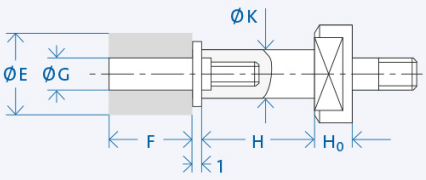
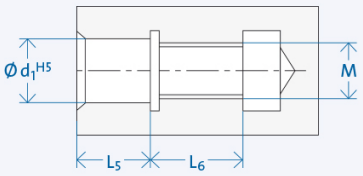



FIG. 3: FOR GRINDING WHEELS ON THREADED PIN (PL)*



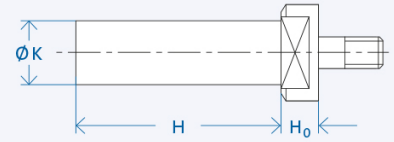

FITTING HOLE FOR FIG. 2 AND 3




| $d_1$ | 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 | $H_O$ [mm] |
|---|---|---|---|---|---|---|
| D 36/63 | 25 | 50 | 40 x 32 | 16 | MU | 15 |
| | 32 | 63 | 50 x 40 | 20 | MU | |
| | 50 | 100 | 80 x 40 | 32 | MU | |

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




No processing is permissible in area $H_0$

## Semi-finished goods

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

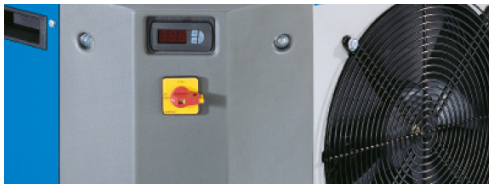
| $d_1$ | K [mm] | H [mm] |
|---|---|---|
| D 36/63 | 63 | 150 |

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.