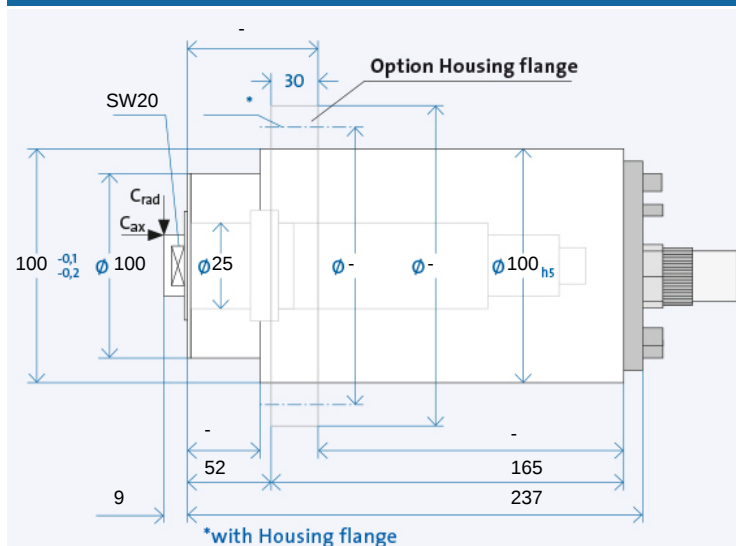


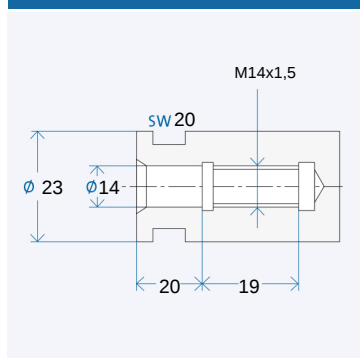
# HSX 100 - 60000/5



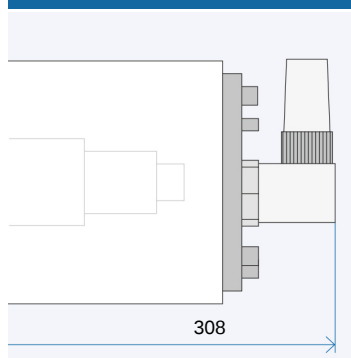
## TECHNICAL DATA



## 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

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

## Electrical connection

|                          |
|--------------------------|
| Plug type                |
| Straight plug connection |
| Coil plug connector      |
| Fixed cable XXm          |

### Coolant feed through the shaft

- Low pressure (du)
- High-pressure (dh)

|                |
|----------------|
| Rotary encoder |
| Speed sensor   |

|                                 |
|---------------------------------|
| Cylindrical housing             |
| Cylindrical housing with flange |
| Block housing                   |
| Air-tight seal                  |

<sup>1)</sup> Minimum required starting voltage for the frequency converter.

- + Standard
- o Optional
- x Upon request

Ordering information:

Ordering information:  
HSX 100 - 60000/5  
R is for clockwise, L for counter-  
clockwise  
+ Desired options

## HSX 100 - 60000/5

|         |       |   |
|---------|-------|---|
| 100     |       |   |
| 60000   |       |   |
| 25      |       |   |
| D 14/23 |       |   |
| 23      |       |   |
|         |       |   |
| 53      |       |   |
| 53      |       |   |
| 200 V   | 350 V | - |
| 1000    |       |   |
| 200     | 350   | - |
| 4,2     |       |   |
| 0,668   |       |   |
| 60000   |       |   |
| 18      | 11    | - |
| 5       |       |   |
| 0,796   |       |   |
| 60000   |       |   |
| 23      | 13    | - |

### Electrical connection

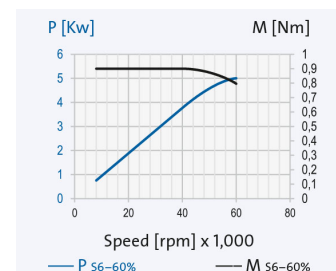
|    |    |   |
|----|----|---|
| GA | GA | - |
| +  | +  | - |
| 0  | 0  | - |
| 0  | 0  | - |

### Coolant feed through the shaft

|   |
|---|
| 0 |
| - |

|  |   |
|--|---|
|  | - |
|  | + |

|   |
|---|
| + |
| 0 |
| x |
| 0 |



# HSX 100 - 60000/5

## Grinding quills

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

FIG. 1: CEMENTED (KI)

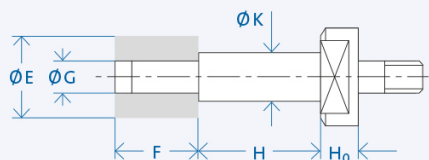


FIG. 2: WITH ADJUSTMENT SCREW (PS)

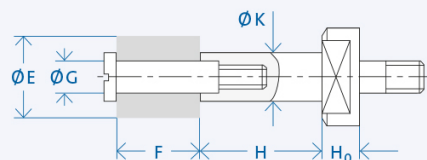
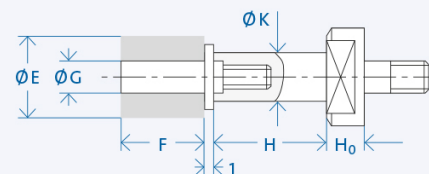
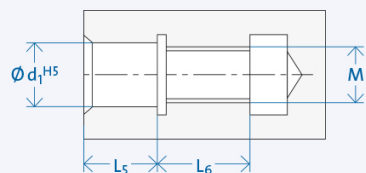


FIG. 3: FOR GRINDING WHEELS ON THREADED PIN (PL)\*



FITTING HOLE FOR FIG. 2 AND 3



| d <sub>1</sub> | M   | L <sub>5</sub> | L <sub>6</sub> |
|----------------|-----|----------------|----------------|
| 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 <sub>0</sub> [mm] |
|-----------|--------|--------|------------------|--------|---------------------------|---------------------|
| D 14/23   | 6      | 20     | 10 x 10          | 4      | KI                        | 8                   |
|           | 10     | 25     | 16 x 16          | 6      | PS/PL                     |                     |
|           | 16     | 32     | 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 <sub>1</sub> | K [mm] | H [mm] |
|----------------|--------|--------|
| D 14/23        | 23     | 135    |

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.

