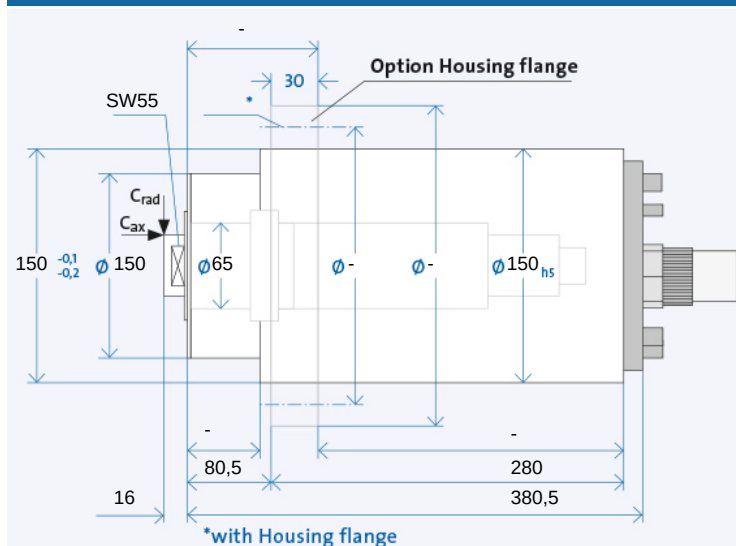


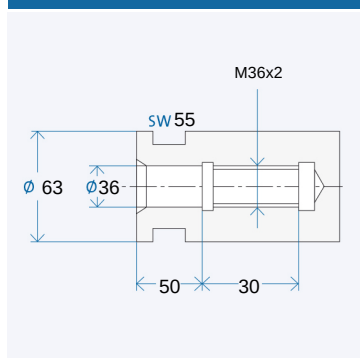
# HSX 150 - 24000/23



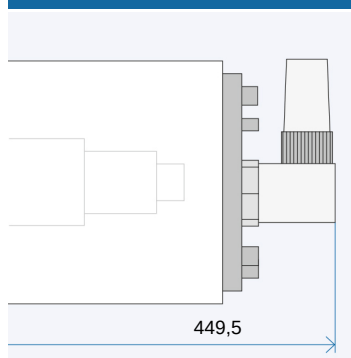
## TECHNICAL DATA



## 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 150 - 24000/23  
R is for clockwise, L for counter-  
clockwise  
+ Desired options

## HSX 150 - 24000/23

|         |       |       |
|---------|-------|-------|
| 150     |       |       |
| 24000   |       |       |
| 65      |       |       |
| D 36/63 |       |       |
| 63      |       |       |
|         |       |       |
| 130     |       |       |
| 147     |       |       |
| 200 V   | 350 V | 460 V |
| 800     |       |       |
| 200     | 350   | 460   |
| 18      |       |       |
| 9,55    |       |       |
| 18000   |       |       |
| 86      | 49    | 37    |
| 23      |       |       |
| 12,2    |       |       |
| 18000   |       |       |
| 110     | 63    | 48    |

## Electrical connection

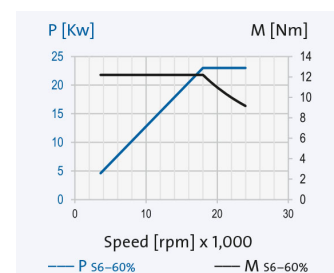
| MAC | MAC | GA |
|-----|-----|----|
| +   | +   | +  |
| 0   | 0   | 0  |
| 0   | 0   | 0  |

### Coolant feed through the shaft

|  |   |
|--|---|
|  | X |
|  | X |

|   |
|---|
| X |
| + |

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



# HSX 150 - 24000/23

## Grinding quills

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

FIG. 1: CEMENTED (KI)

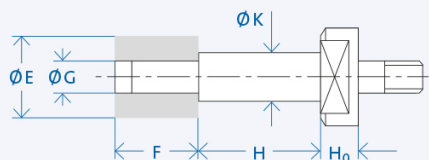


FIG. 2: WITH ADJUSTMENT SCREW (PS)

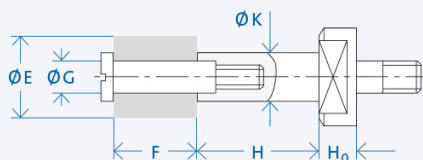
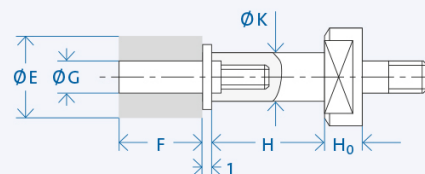
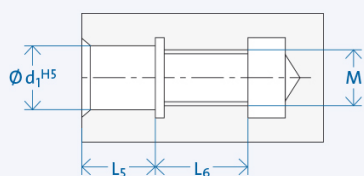


FIG. 3: FOR GRINDING WHEELS ON THREADED PIN (PL)\*



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<br>E x F [mm] | G [mm] | Grinding wheel<br>attachment | H <sub>0</sub> [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

## 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 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.

