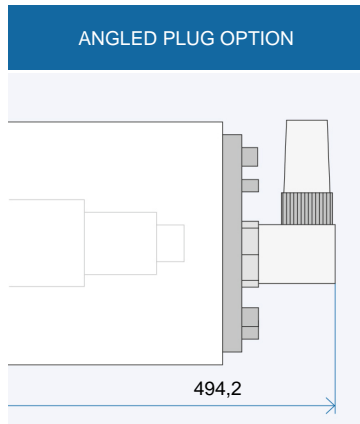
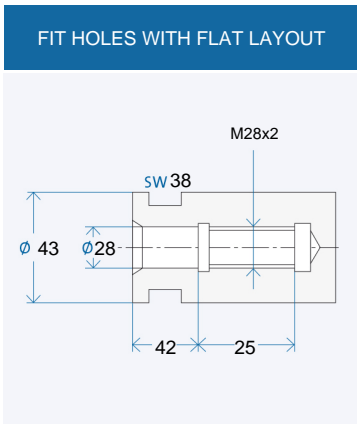
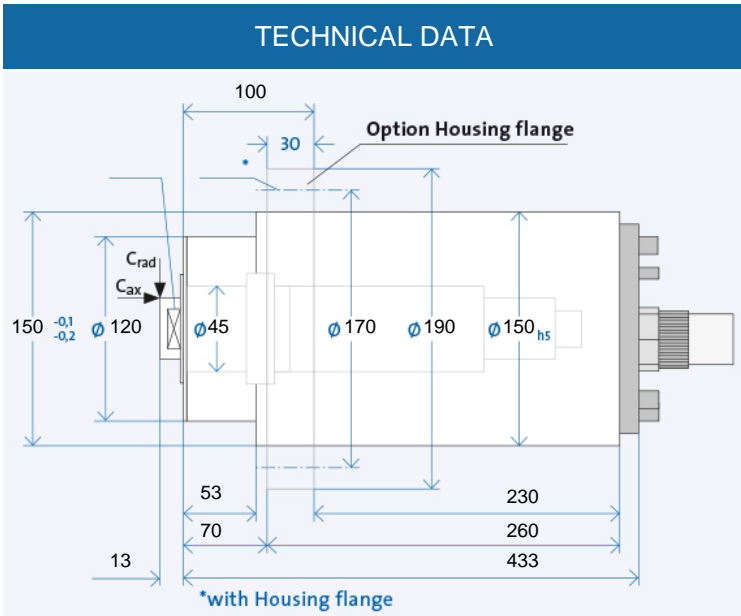


# HV-X 150 - 45000/25



| Technical data                  |               |                      |
|---------------------------------|---------------|----------------------|
| ∅ Spindle housing               | A             | [mm]                 |
| Speed max.                      | $n_{max}$     | [min <sup>-1</sup> ] |
| 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 <sup>1)</sup> |               | [V]                  |
| Power                           | $P_{S1}$      | [kW]                 |
| Torque                          | $M_{S1}$      | [Nm]                 |
| ... at speed                    | $n$           | [min <sup>-1</sup> ] |
| Current                         | $I_{S1}$      | [A]                  |
| Power                           | $P_{S6-60\%}$ | [kW]                 |
| Torque                          | $M_{S6-60\%}$ | [Nm]                 |
| ... at speed                    | $n$           | [min <sup>-1</sup> ] |
| Current                         | $I_{S6-60\%}$ | [A]                  |

| HV-X 150 - 45000/25 |       |       |  |
|---------------------|-------|-------|--|
| 150                 |       |       |  |
| 45000               |       |       |  |
| 45                  |       |       |  |
| D 28/43             |       |       |  |
| 43                  |       |       |  |
| 91                  |       |       |  |
| 150                 |       |       |  |
| 200 V               | 350 V | 460 V |  |
| 1500                |       |       |  |
| 200                 | 350   | 460   |  |
| 22                  |       |       |  |
| 10                  |       |       |  |
| 21000               |       |       |  |
| 105                 | 60    | 46    |  |
| 25                  |       |       |  |
| 11,4                |       |       |  |
| 21000               |       |       |  |
| 117                 | 67    | 51    |  |



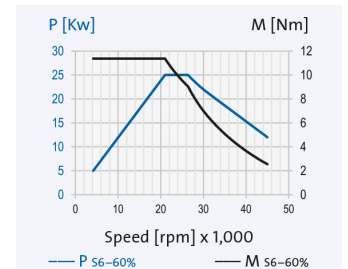
| Electrical connection           |      |   |
|---------------------------------|------|---|
| Plug type                       | D350 |   |
| Straight plug connection        | +    | + |
| Coil plug connector             | o    | o |
| Fixed cable XXm                 | o    | o |
| Coolant feed through the shaft  |      |   |
| Low pressure (du)               | x    |   |
| High-pressure (dh)              | o    |   |
| Sensors                         |      |   |
| Rotary encoder                  | o    |   |
| Speed sensor                    | +    |   |
| Housing                         |      |   |
| Cylindrical housing             | +    |   |
| Cylindrical housing with flange | o    |   |
| Block housing                   | x    |   |
| Air-tight seal                  | o    |   |

| Electrical connection           |      |   |
|---------------------------------|------|---|
| Plug type                       | D350 |   |
| Straight plug connection        | +    | + |
| Coil plug connector             | o    | o |
| Fixed cable XXm                 | o    | o |
| Coolant feed through the shaft  |      |   |
| Low pressure (du)               | x    |   |
| High-pressure (dh)              | o    |   |
| Sensors                         |      |   |
| Rotary encoder                  | o    |   |
| Speed sensor                    | +    |   |
| Housing                         |      |   |
| Cylindrical housing             | +    |   |
| Cylindrical housing with flange | o    |   |
| Block housing                   | x    |   |
| Air-tight seal                  | o    |   |

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

- + Standard
- o Optional
- x Upon request

**Ordering information:**  
 HV-X 150 - 45000/25  
 R is for clockwise, L for counter-clockwise  
 + Desired options



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

# HV-X 150 - 45000/25

## Grinding quills

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

FIG. 1: CEMENTED (KI)

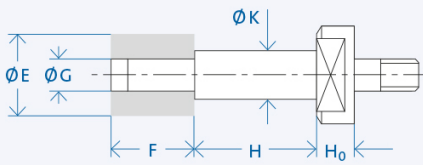


FIG. 2: WITH ADJUSTMENT SCREW (PS)

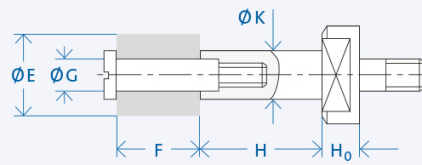
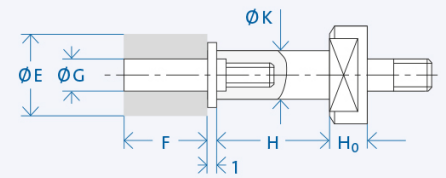
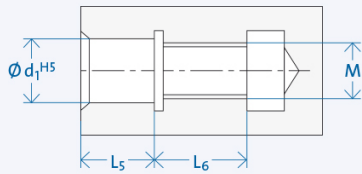


FIG. 3: FOR GRINDING WHEELS ON THREADED PIN (PL)\*



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 28/43   | 16     | 40     | 25 x 25          | 10     | PS/PL                     | 12                  |
|           | 20     | 50     | 32 x 25          | 13     | PS/PL                     |                     |
|           | 32     | 63     | 50 x 40          | 20     | MU                        |                     |

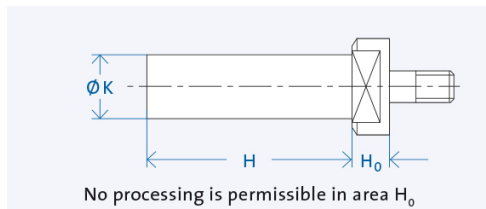
### Ordering information:

[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 28/43        | 48     | 240    |

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.

