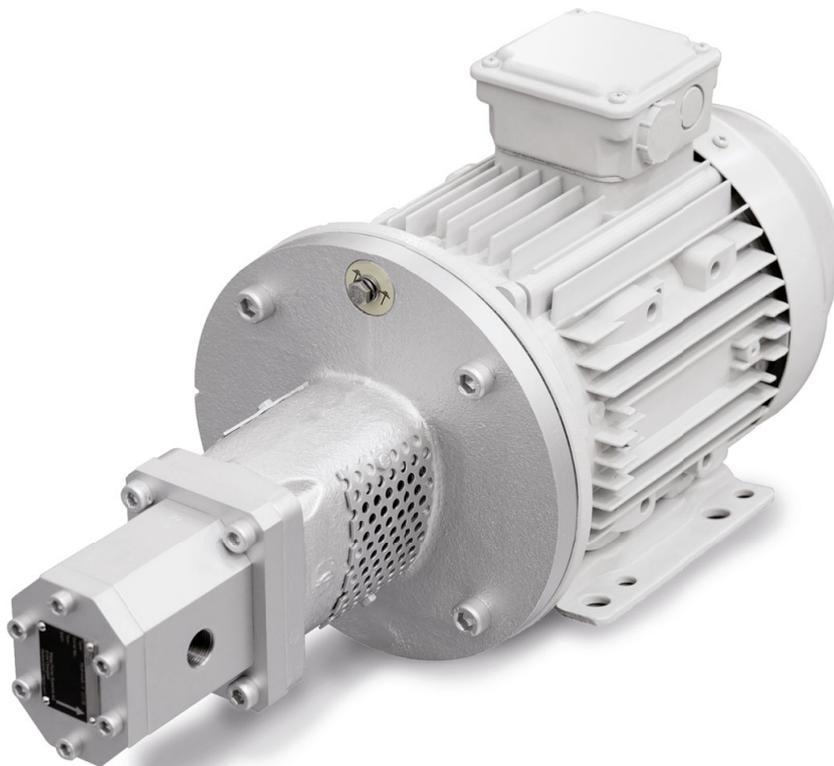


# H Series

## External Gear Pumps



H Series External Gear Pump can really pack a punch! This pump powerhouse excels at transferring greasy, noncorrosive media even in challenging fluid transfer applications. The compact systems — consisting of a gear pump head, bell-housing, coupling and motor — deliver high flow rates with high power density, and can be used in a variety of industrial oil applications that require reliable technology, quick availability and a good price-performance ratio.

### Your benefits

- High flow rates with a reduced footprint
- High reliability and durability
- High efficiency level
- Lowest overall cost of ownership
- Best-in-class delivery
- Short delivery time

# H Series

## External Gear Pumps

### A range of typical pumping media

- Cooling oil
- Cutting oil
- Hardening oil
- Hydraulic oil
- Heat transfer oil
- Lubrication oil
- Mineral oil
- Paraffin
- Waxes
- PUR - Polyol
- Compressor oil
- Transformer oil
- Silicon

### Accessories

- Internal pressure relief valve (internal bypass valve)
- Coupling
- Bell housing
- AC-motor

The modified design of this external gear pump allows high flow rates despite the small design. This compact unit provides high power density. With the optimal adaptation of the single components, consistent standardization, and the application of the maag gear technology proven for decades, a good price-performance ratio and attractive delivery times are achieved. This product line from maag industrial pumps family is applicable for numerous industrial processes which are subject to challenging requirements and which are focussing on durable, efficient, and reliable technology.

### Technical Specifications:

<b>Housing:</b>	Steel
<b>Bearing:</b>	Plain Bearings (Sintered Iron)
<b>Gear Shafts:</b>	Helical Gear (Nitrided Steel)
<b>Dynamic Sealing:</b>	Lip Seal (FKM/FPM)
<b>Static Sealing:</b>	O-rings (FKM/FPM)
<b>Motor:</b>	AC Motor

### Application Limits:

<b>Viscosity:</b>	10-5,000 mPas (Short-time higher)
<b>Suction Pressure:</b>	1-1.5 bar (15-22 psig) absolute
<b>Differential Pressure:</b>	Up to 40 bar (580 psig)
<b>Temperatures:</b>	Up to 100°C (212°F)

### Theoretical pumping capacities and Housing Connection

Model	Min. rpm	Max. rpm	Specific Flow Rate in cc/rev (in <sup>3</sup> /rev)	Flow rate*	Flange: SAE	Thread: ISO 228-1 BSP
22/18	750	3,000	3.7 (0.23)	11.1 (2.9)	-	3/8"
22/36	750	3,000	7.4 (0.45)	22.2 (5.9)	-	3/8"
28/45	750	3,000	15.8 (0.96)	47.4 (12.5)	SAE 3/4", ISO DN 19 mm	1/2"
36/56	750	3,000	38.7 (2.36)	116 (30.6)	SAE 1", ISO DN 25 mm	3/4"
45/70	750	3,000	70 (4.27)	210 (55.5)	SAE 1 1/2", ISO DN 38 mm	1 1/4"
56/90	750	1,500	145 (8.83)	217 (57.3)	SAE 2", ISO DN 51 mm	-

The application limits are subject to the operating conditions. Please contact Maag Pump Systems for any further details about specific applications.  
\* (@ max. speed @ 0 pressure difference)

### Features

- Robust bearing-in-the-housing design
- Floating plain bearings
- High precision mechanical parts
- High stiffness due to the single-bar gear design
- Helical gears for low pulsation
- High speeds with low noise
- Extra-wide gears for a high power density pump solution
- Compact design