

# maag

 industrial  
pumps

*Part of Pump Solutions Group*

A  COMPANY

**H-Series**  
External  
Gear Pumps

*Where Innovation Flows*

[www.maag.com](http://www.maag.com)

CE

# H Series External Gear PUMPS

## A Robust, More **Cost-Effective** External Gear Pump with the Best **Price-Performance** Ratio

Maag, part of Dover Corporation's Pump Solutions Group (PSG), is a leading global provider of innovative, high-quality industrial gear pumps for the safe and efficient transfer of liquids. Maag is proud to offer the H Series, a robust and long-lasting external gear pump. This fully standardized diminutive dynamo is a true "powerhouse" and includes Maag's famous external gear pump technology, proven over decades under the strongest conditions and offering an unbeatable price-performance ratio. Lead times for a whole standard pump unit including coupling, bell housing and motor are only two weeks compared to the six weeks that are typical of the industry.

Put us to the test today and contact your local distributor at [www.maag.com](http://www.maag.com).

## H Series Pumps are **Ideally Suited** For...

- Lube oil and grease
- Waxes and Paraffins
- Thermal oils
- Mineral oils
- Sealing oils
- Hydraulic oils
- Hardening oils
- Cutting oils
- Cooling oils
- Processing oils
- PUR-Polyol

## H Series Features

The Maag H Series is a very robust external gear pump in which the pumped medium lubricates the plain bearings. These are floating in the housing itself, thus generating less wear, as it is possible to align the bearing to the shaft perfectly. As for Maag's helical gear shafts, they are produced from one single bar. This results in a very high stiffness of the whole pump, which in combination with floating bearings leads in turn to a dramatically extended lifetime. Because the mechanical parts have been engineered with an extreme precision, noise remains low even at speeds of up to 3,000 rpm. This level of precision also allows a high volumetric efficiency. Finally, the unusually wide gears allow a high flow rate despite the pump's compact design.

- 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
- Extended lifetime
- Extra-wide gears for a high power density pump solution
- Compact design

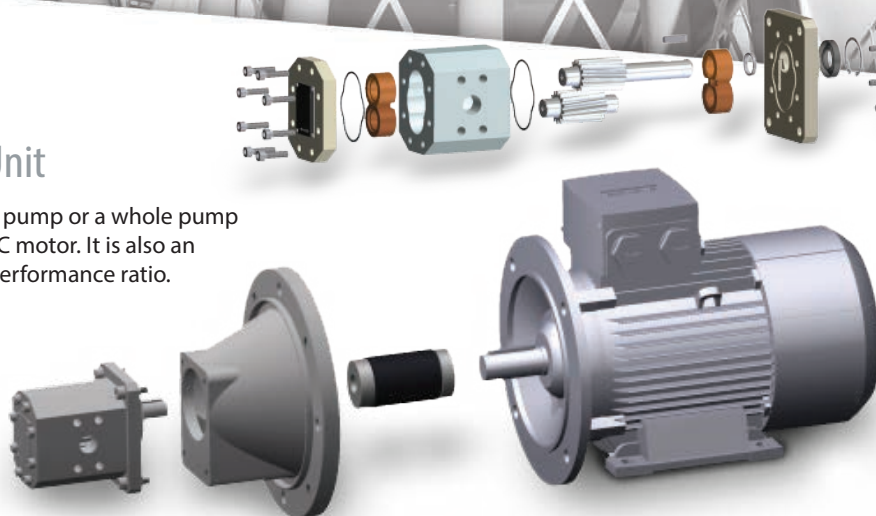


# Maag H-Series Pump Unit

The H Series is ready to order as a bare shaft pump or a whole pump unit, including coupling, bell housing and AC motor. It is also an ideal OEM product with regard to its price-performance ratio.

## Accessories

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



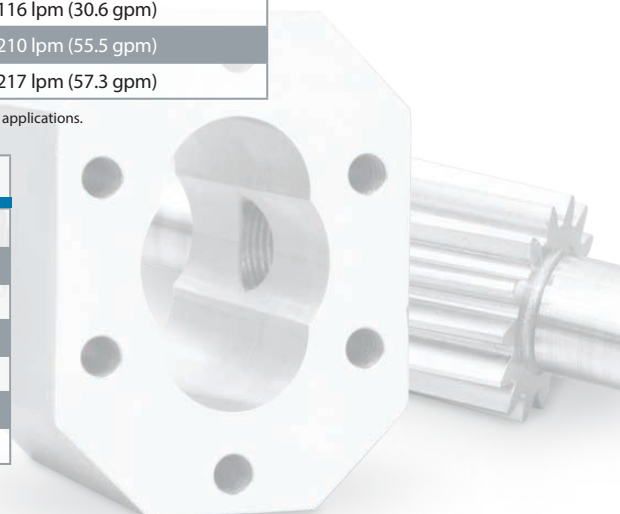
Technical Specifications	
Housing	Steel
Bearing	Plain Bearings (Sintered Iron)
Gear Shafts	Helical Gear (Nitrided Steel)
Dynamic Sealing	Lip Seal (FKM/FPM)
Static Sealing	O-rings (FKM/FPM)
Motor	AC Motor

Application Limits	
Viscosity	10-5,000 mPas
Suction Pressure	1-1.5 bar (15-22 psi) absolute
Differential Pressure	Up to 40 bar (580 psig)
Temperatures	Up to 100°C (212°F)

Theoretical pumping capacities in lpm (gpm) @ 0 bar (psi) Δp.				
Model	Min. rpm	Max. rpm	Specific Flow Rate in cc/rev (in <sup>3</sup> /rev)	Flow rate @ maximum speed @ 0 pressure difference
22/18	750	3,000	3.7 (0.23)	11.1 lpm (2.9 gpm)
22/36	750	3,000	7.4 (0.45)	22.2 lpm (5.9 gpm)
28/45	750	3,000	15.8 (0.96)	47.4 lpm (12.5 gpm)
36/56	750	3,000	38.7 (2.36)	116 lpm (30.6 gpm)
45/70	750	3,000	70 (4.27)	210 lpm (55.5 gpm)
56/90	750	1,500	145 (8.83)	217 lpm (57.3 gpm)

The application limits are subject to the operating conditions. Please contact Maag Pump Systems for any further details about specific applications.

Housing Connection		
Size	Flange: SAE (210 bar/3,000 psig)	Thread: ISO 228-1 BSPP
22/18	-	3/8"
22/36	-	3/8"
28/45	SAE 3/4", ISO DN 19 mm	1/2"
36/56	SAE 1", ISO DN 25 mm	3/4"
45/70	SAE 1-1/2", ISO DN 38 mm	1-1/4"
56/90	SAE 2", ISO DN 51 mm	-



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