

# ROTARY GEAR PUMPS FOR

# ASPHALT



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



## GORMAN-RUPP A TRUSTED NAME

When you specify Gorman-Rupp, you benefit from worldwide service centers, knowledgeable engineers and assistance. Gorman-Rupp has been manufacturing pumps, pumping systems and providing superior fluid handling solutions since 1933. Many of the innovations introduced by Gorman-Rupp have become industry standards.

Pump models include rotary gear, self-priming centrifugal, standard centrifugal, submersible, and diaphragm pumps. We have three manufacturing plants with over 800,000 square feet of floor space and five distribution centers throughout the world.

As we continue to provide pumping systems and fluid-handling solutions to customers around the globe, we never lose sight of the original philosophy that started our company.

## FOCUSING ON THE SPECIALIZED NEEDS OF THE ASPHALT MARKET

From refinery to terminal storage to hot mix or roofing plants, Gorman-Rupp self-priming rotary gear pumps are built tough to handle all of your asphalt applications. Whether handling clean, blended, emulsion or filled asphalts including abrasive, limestone/silica sand roofing materials, we have the right pump for your application. **Every Gorman-Rupp pump carries these features and benefits:**

- High strength gears for reliable handling of viscous asphalt
- Deep end feed area for superior priming performance
- Interchangeable, rear-pullout seals reduce costly maintenance downtime
- Thermal jackets for temperature control and smooth operation with jacket-related viscous liquids
- Bidirectional, nonpulsating flow
- Optimized shaft support locations for long service life
- Each pump is hydraulically tested prior to shipment



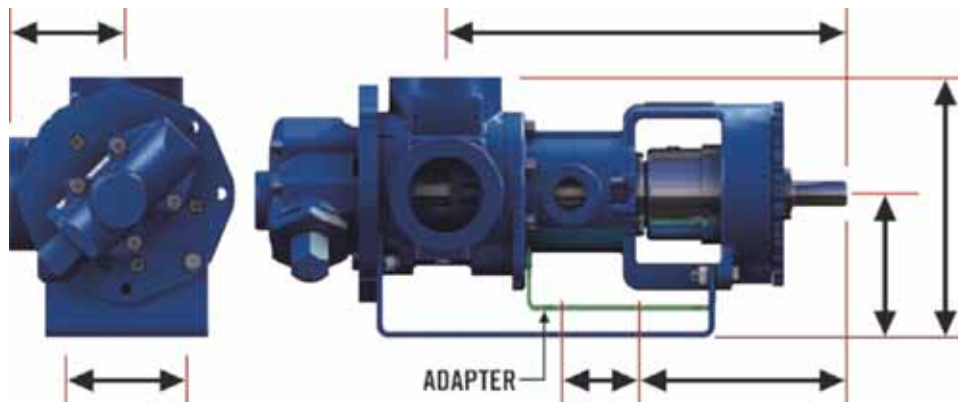
## PERSONALIZED CUSTOMER SERVICE

Gorman-Rupp's expert engineering staff stands ready to meet your individualized asphalt application requirements. When working with your authorized Gorman-Rupp Rotary Gear Distributor you will be ensured that you will receive:

- Complete application design review from Gorman-Rupp's engineering staff
- Optimized pump construction/seal/bushing/requirement configurations
- Optimized pump/drive/horsepower requirements to meet your individualized application requirements

## DIMENSIONAL INTERCHANGEABILITY

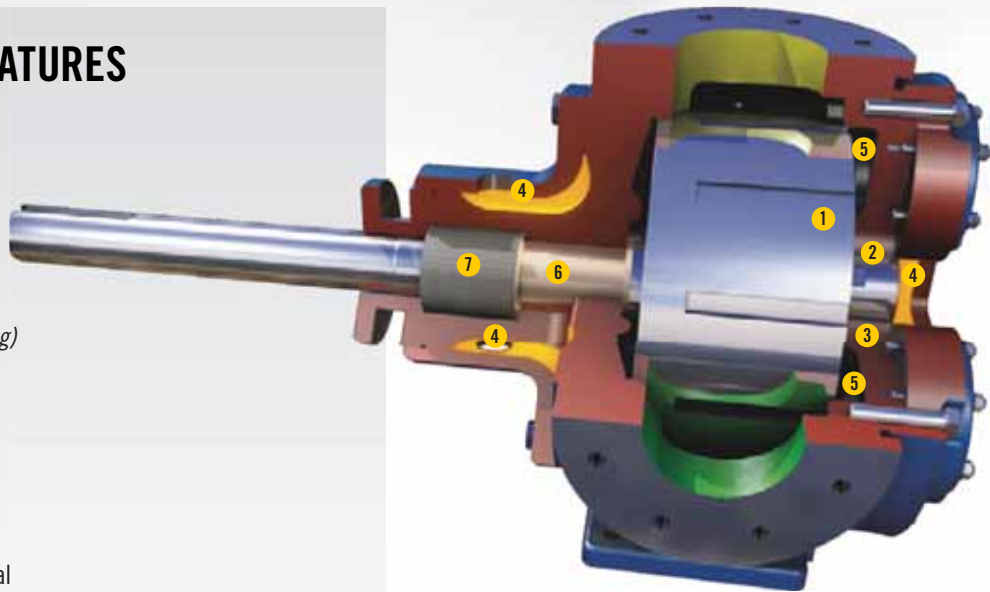
Pumps are dimensionally interchangeable with most other leading gear pumps.



# MEDIUM-DUTY GMS SERIES ASPHALT PUMPS

## GMS PUMP FEATURES

- 1 High strength iron gears
- 2 Internal idler pin lubrication
- 3 Hardened idler pin (optional hardened bushing)
- 4 Thermal jackets for temperature control
- 5 Deep end feed
- 6 High performance (optional hardened) shaft bushing
- 7 Flexible seal feature allows for multiple sealing solutions



### AUTOMATIC IDLER PIN LUBRICATION SYSTEM

Unique internal pressure lubricated idler pin reduces wear by continuously cooling and lubricating the idler pin and bushing. Available on GMS and GHS models.



### DEEP END FEED AREA

Deep end feed area offers superior priming performance under low inlet pressure conditions and/or high viscosity liquids. Available on GMS, GHS, and GHA models.



**TYPICALLY FOR CLEAN ASPHALTS**, Gorman-Rupp Medium-Duty pumps are versatile and able to be configured for many different types of applications. Our Medium-Duty pumps are offered in the following configurations:

GMS SERIES	MEDIUM DUTY
Size:	1" to 6"
Max. Capacity:	600 GPM (136 m <sup>3</sup> /h)
Max Pressure:	150 psi (10.3 bar)
Max Viscosity:	250,000 SSU (54,000 cSt)
Temp Range:	-400° to 450°F (-400° to 232°C)
Construction:	Cast Iron

# HEAVY-DUTY GHS SERIES ASPHALT PUMPS

Note: Shown with optional head jacket

## GHS PUMP FEATURES

- 1 High strength iron gears
- 2 Internal idler pin lubrication
- 3 Hardened idler pin (optional hardened bushing)
- 4 Thermal jackets for temperature control
- 5 Deep end feed
- 6 High performance (optional hardened) shaft bushing
- 7 Flexible seal feature allows for multiple sealing solutions
- 8 Externally adjustable clearance
- 9 Maintenance-free double row ball bearings



### ENGINEERED SEALING SOLUTIONS

Gorman-Rupp offers the widest range of sealing solutions available for the asphalt industry.

- Minimum leak- and abrasive-resistant packing
- Cartridge single seal with hard faces, requires steam quench
- Cartridge double seal with hard faces, requires pressurized barrier fluid
- Triple lip cartridge seal, requires steam or hot oil quench



### EXTERNALLY ADJUSTABLE CLEARANCE

Three piece design provides easy and precise rotor adjustment. Sealed double row bearings are maintenance-free and provide thrust control.

## TYPICALLY FOR FILLED ASPHALTS, HIGH-PRESSURE BULK, TERMINAL AND REFINERY APPLICATIONS,

Gorman-Rupp offers our Heavy-Duty Pumps that combine high performance materials and innovative design to outperform other pumps of their type. They offer premium quality features for performance and serviceability. Gorman-Rupp Heavy-Duty Pumps are available in the following configurations:

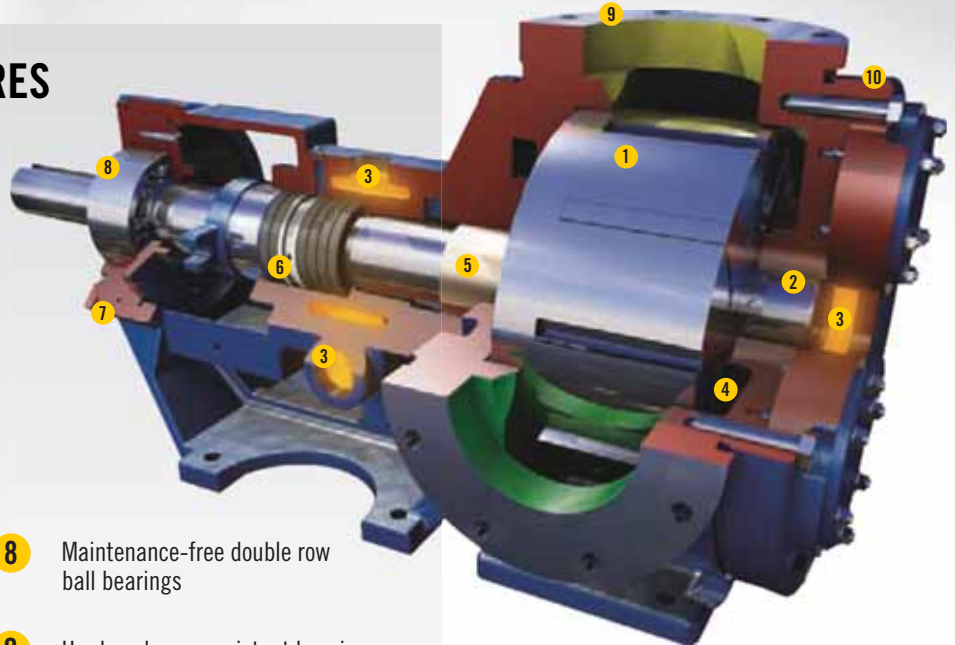
GHS SERIES	HEAVY DUTY
Size:	1" to 6"
Max. Capacity:	600 GPM (136 m <sup>3</sup> /h)
Max Pressure:	300 psi (20.7 bar)
Max Viscosity:	2,000,000 SSU (440,000 cSt)
Temp Range:	-60° to 675°F (-51° to 357°C)
Construction:	Cast Iron, Ductile Iron

# EXTREME-DUTY GHA SERIES ASPHALT PUMPS

Note: Shown with optional head jacket

## GHA PUMP FEATURES

- 1 Hardened high strength iron gears
- 2 Carbide idler pin and hardened bushing
- 3 Thermal jackets for temperature control
- 4 Deep end feed
- 5 High performance (optional hardened) shaft bushing
- 6 Flexible seals
- 7 Externally adjustable clearance
- 8 Maintenance-free double row ball bearings
- 9 Hardened wear-resistant housing
- 10 Hardened wear-resistant head



### ENGINEERED SEALING SOLUTIONS

Gorman-Rupp offers the widest range of sealing solutions available for the asphalt industry.

- Minimum leak- and abrasive-resistant packing
- Cartridge single seal with hard faces, requires steam quench
- Cartridge double seal with hard faces, requires pressurized barrier fluid
- Triple lip cartridge seal, requires steam or hot oil quench



### HARDENED HIGH-STRENGTH IRON GEARS

Hardened high-strength iron gears for handling tough abrasive applications.

## FOR TOUGHER FILLED ASPHALTS CONTAINING SILICA SAND AND LIMESTONE CONCENTRATIONS,

Gorman-Rupp offers our Extreme-Duty Pumps. Designed to endure severe applications, they combine state-of-the-art wear resistance with proven gear pump technology to make it the longest lasting gear pump around. Gorman-Rupp Extreme-Duty Pumps are available in the following configurations:

GHS SERIES	EXTREME DUTY
Size:	1.5" to 6"
Max. Capacity:	325 GPM (74 m <sup>3</sup> /h)
Max Pressure:	200 psi (13.8 bar)
Max Viscosity:	250,000 SSU (54,000 cSt)
Temp Range:	-60° to 500°F (-51° to 260°C)
Construction:	Cast Iron with abrasion-resistant internals

## MULTIPLE PORT POSITIONING AND CONFIGURATIONS



Interchangeable 90° or 180° housings with multiple port sizes on most models. Suction and discharge ports are available in threaded or flanged configurations.



## ADJUSTABLE NO-LEAK PRESSURE RELIEF VALVE



O-ring design on relief valve allows for adjustment during operation, without leakage.

## WIDE RANGE OF DRIVE CONFIGURATIONS

- Direct Drive
- Gear Reducers
- VFD Drives
- V-Belt

## SOLD AND SERVICED THROUGHOUT THE WORLD

Gorman-Rupp has over 800 distributors throughout the United States and the world who are qualified to give expert advice on pump selection and application. If you have a service problem, a factory-trained distributor is not far away. They are backed by the fastest parts service in the industry, so you know the parts will be there when you need them.



- ★ Manufacturing Facilities
- Distribution Centers

**The Gorman-Rupp Company**  
Mansfield, Ohio

**Mansfield Division**  
Mansfield, Ohio

**The Gorman-Rupp International Company**  
Mansfield, Ohio

**Gorman-Rupp Industries Division**  
Bellville, Ohio

**Patterson Pump Company**  
Toccoa, Georgia

**American Machine and Tool Co., Inc. of Pennsylvania**  
Royersford, Pennsylvania

**Patterson Pump Ireland Limited**  
County Westmeath, Ireland

**Gorman-Rupp of Canada Limited**  
St. Thomas, Ontario, Canada

**Distribution Centers**  
Sparks, Nevada  
Sand Springs, Oklahoma  
Leeuwarden, Netherlands  
Bangkok, Thailand

Product information is subject to change; consult factory for details.



A TRADITION OF EXCELLENCE

**Gorman-Rupp Pumps**  
P.O. Box 1217  
Mansfield, Ohio 44901-1217  
Tel: 419-755-1011  
Fax: 419-755-1251  
E-mail: grsales@gormanrupp.com

AV-06088

**The Gorman-Rupp International Company**  
P.O. Box 1217  
Mansfield, Ohio 44901-1217  
Tel: 419-755-1011  
Fax: 419-755-1266  
E-mail: intsales@gormanrupp.com

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

**Gorman-Rupp of Canada, Ltd.**  
70 Burwell Road  
St. Thomas, Ontario N5P 3R7, Canada  
Tel: 519-631-2870  
Fax: 519-631-4624  
E-mail: grcanada@grcanada.com



Printed in the USA