Ingersoll Rand

GlobalGear® Series

GLOBALGEAR®

Reduce Maintenance Time, Increase Flow
Internal Gear Pumps

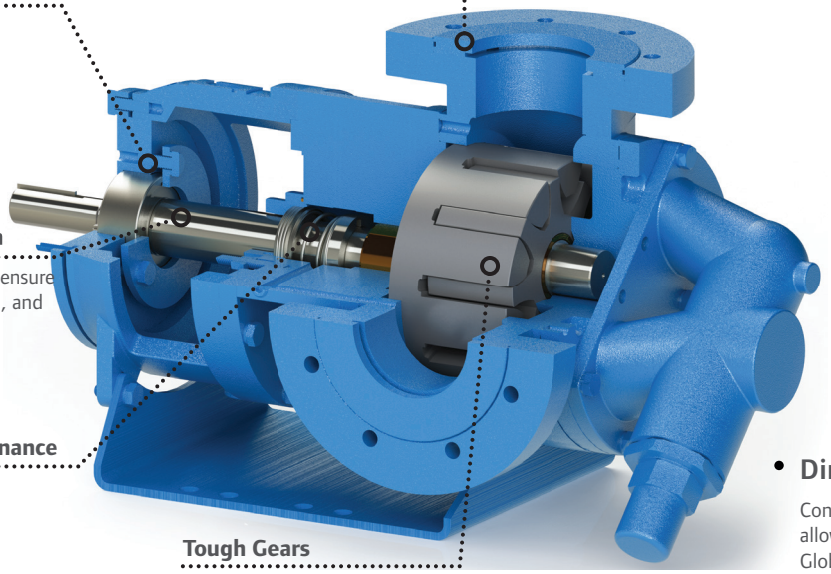
BUILT ON A TIME-TESTED DESIGN

...and more than 90 years of engineering experience

Capable of tackling the toughest high-viscosity applications, GlobalGear® uses a robust pump design along with stronger and more reliable materials to extend the pump's life, reducing the total cost of ownership. The result? An unbeatable pump that offers unparalleled performance and handles the most difficult applications worry free.

Modular Ports
Oversized, high-pressure, NPT & BSPT plus ANSI flanged options

Robust Bearing
Maintenance-free lubrication



Strong Shaft Design
High-strength materials ensure reliability, less deflection, and longer seal life

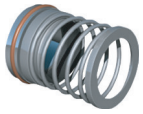
In-Line Seal Maintenance
Easily convert from cartridge to packing seal

Tough Gears
Rotor and idler gear handle high-viscosity, high-pressure operation; no need for steel rotor upgrade

- **Direct Drop-In**
  Convenient footprint allows for easy upgrade to GlobalGear
- **Bi-Directional**
  Flexible design suits your needs

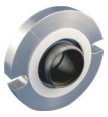
SEAL OPTIONS


Cartridge Seal


Mechanical Seal


Packing Seal


Slurry Seal


Tuffseall

OTHER FEATURES & BENEFITS

Back Pull-Out Design

- Reduce downtime for service
- Maintain pump without disturbing piping or shaft alignment

Customized Options

- Relief valve
- A variety of seal choices
- Oversized and high-pressure flanges
- Tutriding process to harden surface of pump to resist abrasion, fatigue, and limit crack propagation
- Specialized construction for high temperatures
- Modular port options
- Jacketing

Design Features Extend Seal Life

- Oversized shaft and bearing diameters on models GG130–GG550 to minimize shaft deflection
- Large bore size for stuffing boxes for improved fluid circulation
- Internal venting to maximize seal cooling
- Proven high-viscosity seal solutions
- In-line seal maintenance

CAST IRON

- Standard carbon steel rotor shaft
- Differential pressures to 200 PSI (13.8 bar)
- Temperatures to 600 ºF (316 ºC)
- Viscosities to 1,000,000 SSU (220,000 cSt)

NOMINAL FLOW RATE

MODEL	MAX RPM	GPM	M³/HR
GG015	1800	15 @ 1750 RPM	3.4 @ 1750 RPM
GG030	1800	30 @ 1750 RPM	6.8 @ 1750 RPM
GG080	1500	60 @ 1150 RPM	13.6 @ 1150 RPM
GG120	1200	75 @ 780 RPM	17.0 @ 780 RPM
GG130	1000	100 @ 780 RPM	22.7 @ 780 RPM
GG200	1000	135 @ 640 RPM	30.6 @ 640 RPM
GG210	800	140 @ 520 RPM	32.0 @ 520 RPM
GG250	640	200 @ 640 RPM	45.4 @ 640 RPM
GG350	750	350 @ 750 RPM	79.5 @ 750 RPM
GG500	520	500 @ 520 RPM	113.5 @ 520 RPM
GG550*	500	550 @ 500 RPM	124.5 @ 500 RPM
GG600	350	600 @ 350 RPM	136.2 @ 350 RPM
GG1200	280	1200 @ 280 RPM	272.5 @ 280 RPM

* Differential Pressures to 150 PSI (10.3 bar

STAINLESS STEEL

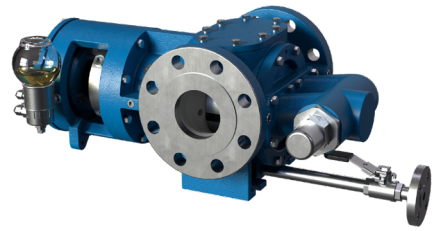
- Standard gall-resistant, Nitronic 60 rotor head & idler gear
- Differential pressures to 150 PSI (10.3 bar)
- Temperatures to 500 ºF (260 ºC)
- Viscosities to 1,000,000 SSU (220,000 cSt)
- Max differential pressure to 100 PSI if fluid is < 100 SSU

NOMINAL FLOW RATE

MODEL	MAX RPM	GPM	M³/HR
GG015	1800	15 @ 1750 RPM	3.4 @ 1750 RPM
GG030	1800	30 @ 1750 RPM	6.8 @ 1750 RPM
GG080	1500	60 @ 1150 RPM	13.6 @ 1150 RPM
GG130	1000	100 @ 780 RPM	22.7 @ 780 RPM
GG210	800	140 @ 520 RPM	31.8 @ 520 RPM
GG250	640	200 @ 640 RPM	45.4 @ 640 RPM
GG550**	500	550 @ 500 RPM	124.5 @ 500 RPM

** Differential Pressures to 125 PSI (8.6 bar)

CAST STEEL (API)

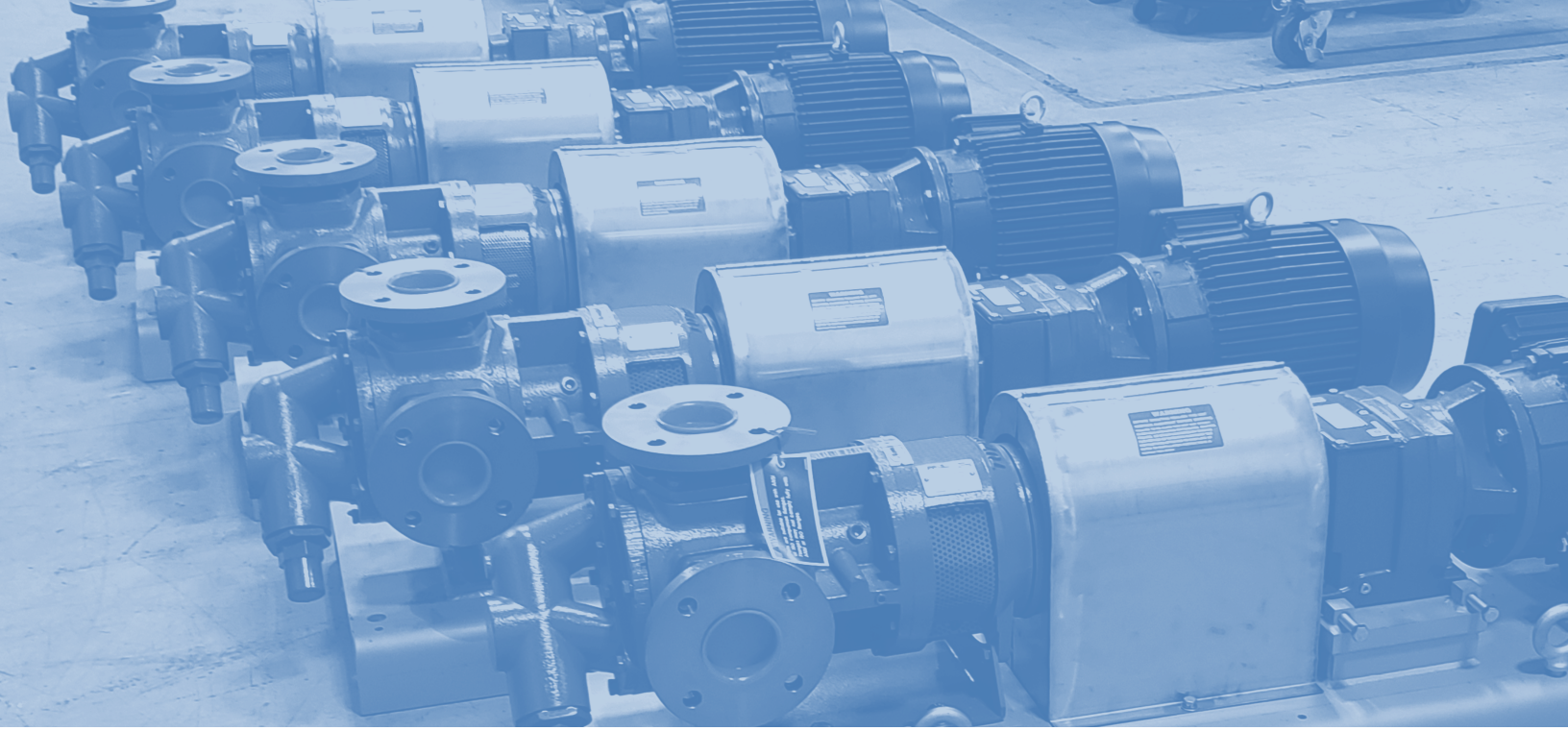


- Differential pressures to 200 PSI (13.8 bar)
- Temperatures to 600 ºF (316 ºC)
- Viscosities to 1,000,000 SSU (220,000 cSt)

NOMINAL FLOW RATE

MODEL	MAX RPM	GPM	M³/HR
GG015	1800	15 @ 1750 RPM	3.4 @ 1750 RPM
GG130	1000	100 @ 780 RPM	22.7 @ 780 RPM
GG250	640	200 @ 640 RPM	45.4 @ 640 RPM
GG550†	500	550 @ 500 RPM	124.5 @ 500 RPM

† Differential Pressures to 125 PSI (8.6 bar)



INDUSTRIES AND APPLICATIONS

- Adhesives & Sealants
- Chemical Processing
- Corrugated Box (Starch)
- Energy & Power
- Foam (Polyol & Isocyanates)
- Food & Beverage
- Lubes, Greases, & Blending
- Oil & Gas
- Personal Products
- Pulp & Paper
- Refined Food Oils
- Resins, Paints, & Coatings
- Soaps & Surfactants

ATEX

CE

Ingersoll Rand

12500 South Pulaski Road
Alsip, Illinois 60803 USA
P: 708.389.2500

Birkdale Close
Manners Industrial Estate
Ilkeston, Derbyshire DE7 8YA UK
P: 44.0.115.932.5226

You can learn more about the complete line of Ingersoll Rand pumps by visiting:

ingersollrand.com/pumps

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