Gear pumps are used in all types of manufacturing industries for the transportation of both thin and thick liquids, from diesel fuels to chocolate. The Johnson Pump brand heavy duty pumps are designed around high reliability as well as long life.

TopGear offers a combination of strong design with small or large clearances, unique gear tooth profile and options such as electrical heating and built-on safety relief valves.

The extensive TopGear series is divided into three ranges; the TG G-range for general purposes, the TG H-range for high demanding applications and the TG L-range that offers high efficiency when transporting low viscosity fluids. For applications demanding leak-free operation a magnetically driven, TG MAG, is available.

TopGear
When reliability is the priority
TG G & TG H ranges

**IMPROVED PRIMING, LOW NPSHR**
- Ports above centerline
- Oversized ports for better efficiency

**IMPROVED DESIGN FOR LOW AND HIGH VISCOSITY MEDIA**
- Optimized gear tooth profile
- Smooth flow

**HIGH EFFICIENCY**
- Axial rotor locking
- Adjustable clearances
- Balanced hydraulic design

**ELIMINATED LEAKAGE DURING THERMAL EXPANSION**
- Pin cover
- Safety sealed

**SEVERAL MATERIAL OPTIONS**
- Shaft seal materials
- Bearing materials
- Hydraulic parts

**PROLONGED SERVICE LIFE**
- Double ball bearing design
- Adjustable axial clearance
- Allows V-belt drive
- Accepts higher axial forces

**MINIMUM OF MAINTENANCE**
- Cartridge design
- Simple design

**MAXIMIZED LIFETIME**
- Compact rotor
- Strong shafts
- Maximized bearing design
- Possibility for selection of hardmetal bearings
- On seals thanks to seal relief channel

**LESS DOWNTIME**
- Front and back pull-out

**FLANGE CONNECTIONS OPTIONS**
- EN
- ANSI
TopGear pumps are used in various industries and environments, which have thousands of liquids that need to be pumped.

**Petrochemicals**
Pure or filled bitumen, pitch, diesel oil, crude oil, lube oil

**Chemicals**
Sodium silicate, acids, plastics, mixed chemicals, isocyanates

**Paint and Ink**

**Resins and Adhesives**

**Pulp & Paper**
Acid, soap, lye, black liquor, kaolin, lime, latex, sludge

**Food**
Chocolate, cacao butter, fillers, sugar, vegetable fats and oils, molasses, animal feeds
Options

SHAFT SEAL OPTIONS
Shaft seal options include packed gland, single and double mechanical seals, lip seals and cartridge seals. Magnetic drive available as the TG MAG.

JACKET OPTIONS
Heating and cooling jackets guarantee the performance of the pump in a start-up or a shut-down procedure. They also provide the pump with the best condition for the seals during operation. Different options: thermal oil, steam or electrical heating.

SAFETY RELIEF VALVE OPTIONS
Built-on safety relief valves protect the pump, as well as other equipment in the system, from over pressure. When the pump is used bi-directionally, a double safety relief valve is available.