First choice for high efficiency abrasive slurry pumping
Designed to pump abrasive mineral ore, tailings slurries and mine water with minimal total cost of ownership

GEHO® positive displacement slurry pumps
For more than 50 years we have specialised in the design and development of some of the world’s most advanced piston diaphragm pumps. The GEHO® high pressure slurry pumps are designed to meet tomorrow’s requirements:

- Capacities up to 1600 m³/h
- Discharge pressures up to 30,000 kPa
- Slurry concentrations up to 85%
- Viscosities up to 8,000 mPa.s
- Max. yield stress 200 Pa
- Pump efficiencies up to 96%
- Slurries with temperatures up to 230 °C
- pH from 1-14

High availability, low operating costs
The unique GEHO® piston diaphragm pump incorporates many design features ensuring uninterrupted, trouble-free operation and significantly reducing operating and maintenance costs compared to other available transportation systems.

Continuous innovation
Our innovative pump technology is backed by continuous advanced research and in-house laboratory test facilities, resulting in superior efficiency, reliability and availability.
Iron ore slurry pipeline, Brazil

Autoclave feed, Madagascar

Tailings disposal, Peru
<table>
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<tr>
<th>Main features</th>
<th>Your benefits</th>
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<td>No continuous external water flush required</td>
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Main features

- Your benefits
  - High pump efficiency up to 96%
  - Minimum energy costs and minimum heat production.
  - Low carbon footprint.
  - Low water consumption with high solids content slurry.
- Heavy duty industrial pump
  - Long maintenance intervals.
  - High MTBF.
  - Diaphragm protects piston and liner from abrasive slurry contact.
  - Minimal piston wear and maximum service intervals for piston seal and cylinder liner.
- Automatic PLC controlled diaphragm positioning
  - Long diaphragm lifetime – allows for routine annual system replacement.
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- Sealed against exterior contamination
  - Heavy duty pump design for mining environment.
  - Resilient, robust single piece frame with low stress levels.
- No continuous external water flush required
  - No clean water costs.

Applications

- Ore pipeline transport
- Tailings disposal
- Autoclave or digester process feed
- Reactor feed
- Mine dewatering
- Hydraulic ore hoisting
- Mine tailings backfill
- Coal gasifier feed
- High pressure biomass pumping
- Ash disposal

Operating models

- ZPM: two-cylinder double-acting piston diaphragm pump
- TZPM: three-cylinder single-acting piston diaphragm pump
- Heat barrier: ZPM and TZPM high temperature piston diaphragm pumps

Pump sizing

- Capacity from 10 to 1600 m³/h
- Pumping pressures from 1,500 to 30,000 kPa
- Power from 15 to 4000 kW
- Total assembly weight from 3,000 to 120,000 kg
Long-term partnerships

At Weir Minerals we have gained worldwide reputation for consistently meeting our customers’ requirements, dependable customer support and extended field support. By aligning our own objectives with those of our customers, we build long-term and mutually beneficial partnerships. We provide comprehensive support under flexible servicing agreements tailored to our customer needs and ensure on-time delivery of genuine parts reducing operating costs.
Customer care activities

- Installation and commissioning by highly qualified and dedicated service engineers.
- Local support available throughout the globe.
- On-site training and workshop training available at the GEHO® pumps training academy for operators and maintenance professionals to improve general knowledge and equipment maintenance.
- Customer helpdesk and technical advice to keep your processing plant in peak performance.
- Site visits for pump performance reviews, inspections and recommendations to optimise performance.
- Reliable and cost effective repairs, overhauls and modifications.
- Spare parts are available from our manufacturing facility, regional distribution centers that cover every continent or from an agreed consignment stock on-site.
- 24/7 on-site technical assistance to ensure optimised performance of our equipment and minimise unplanned downtime.

Low Total Cost of Ownership

With a service and support structure spanning 70 countries, we are with you every step of the way to help minimise your Total Cost of Ownership.

Genuine spare parts

GEHO® spare parts are manufactured using quality materials and processes. They are reliable, long lasting and designed to optimise the performance of your pump.