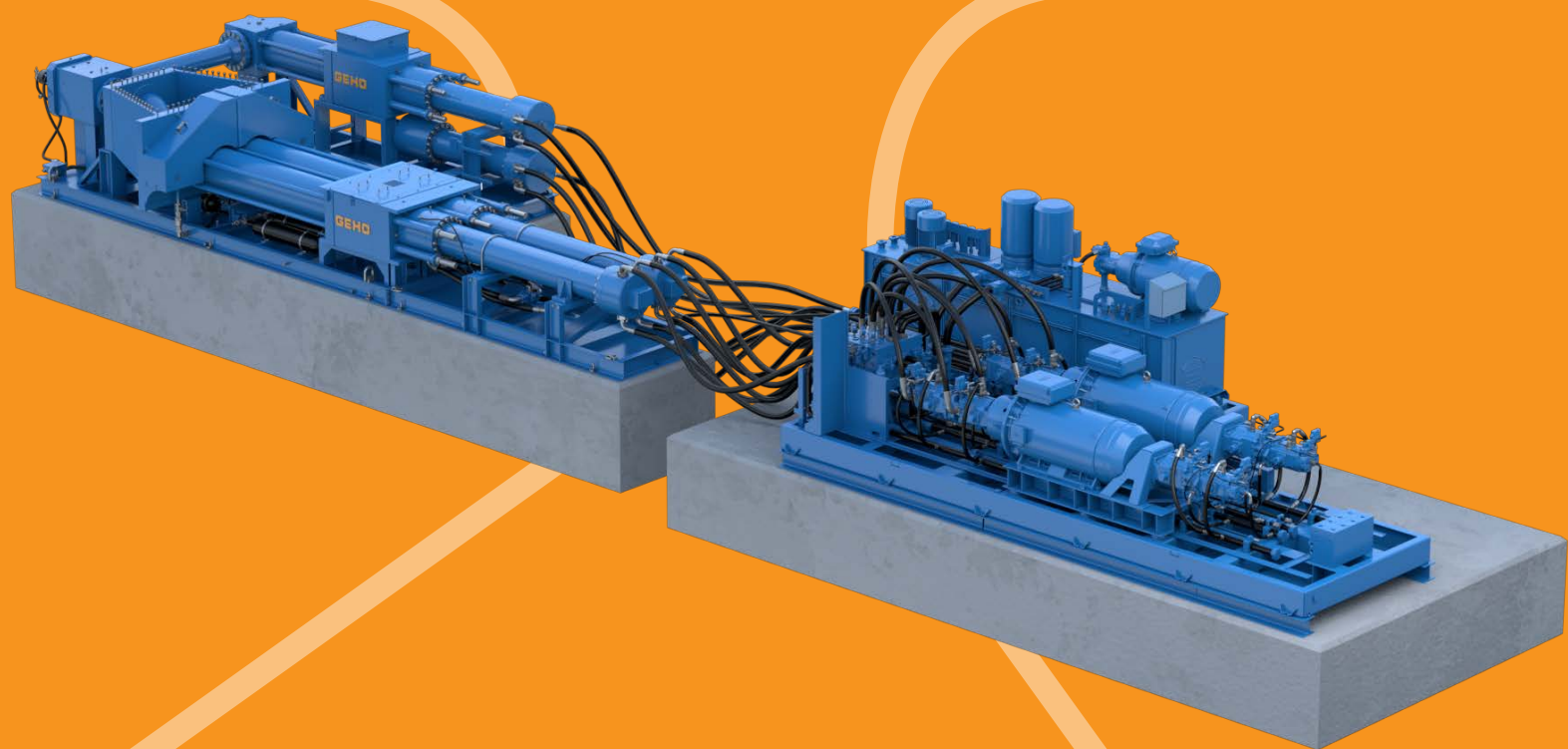




GEHO[®] **Hydraulic Driven** **Piston Pumps**

DH Series

The GEHO® pump is a vital organ in any mine, because it's one that never fails.





The heart of the mine.

The lifeblood of your mine relies on the healthiest of hearts. GEHO pumps all day every day, in the most sustainable way possible.

Constant innovation means that our GEHO® positive displacement pumps have been trusted across the globe for over 100 years. If you are pumping extremely viscous slurries, sludges, paste or backfill with solids of up to 90%, then our GEHO® DH series hydraulic driven piston pumps is the pump for you. And with up to 98% availability and outstanding efficiency, GEHO® high pressure slurry pumps are designed to meet your requirements, both today and tomorrow.

Synertrex® real time performance data and risk predictions deliver efficiency, consistency and longevity for your pump. This revolutionary technology works together with our unrivalled aftermarket support delivered 24/7 by the Weir Minerals global network to minimise your total cost of ownership.

Put simply, GEHO® pumps are designed to be unstoppable and unbeatable.

GEHO pumps all day every day, to keep your mine running.

Proven performance

GEHO® pumps have been pivotal to the success of countless mining operations for over a century due to their proven track record of performance.

Mining giants from around the globe have relied on them for generations to deliver uninterrupted and trouble-free operation.

Continual innovation

Our state-of-the-art pump technology and pumping solutions are continually being innovated by our research team in the Netherlands.

Our expert team of engineers in Venlo are constantly evolving the design and capabilities of our GEHO® pumps to deliver superior pump efficiency, reliability and availability.

And your GEHO® pump comes equipped with our revolutionary Synertrex® technology, delivering remote diagnostics to allow you to optimise, predict and adapt to the conditions of your mine.

Turn to page 11 for more information about our Synertrex® technology.



Range of applications

Our robust range of GEHO® pumps are built to handle extremely viscous slurries, sludges, paste and backfill.

These workhorses can handle slurry concentrations of up to 90% and temperatures up to 110°C. They are designed to reliably transport:

- Paste tailings
- Mine paste backfill
- Mine paste aggregate backfills
- Biomass feed
- Sewage sludge
- Sewage and waste incinerator feed
- Drill mud

Always reliable

With availability of 98%, you can bank on your GEHO® DH series pump performing day in, day out.

And with outstanding efficiency of up to 80%, not a single kilowatt of energy goes to waste.

Our unique GEHO® positive displacement pumps showcase design features that ensure uninterrupted and trouble-free operation.

Turn to page 8 and 9 for pump features and capabilities.



The heart of sustainable pumping solutions

50%

Cut energy usage

GEHO® pumps can cut energy usage by up to half. That's money saved and a more environmentally sustainable operation for your mine.

30%

Reduce water consumption

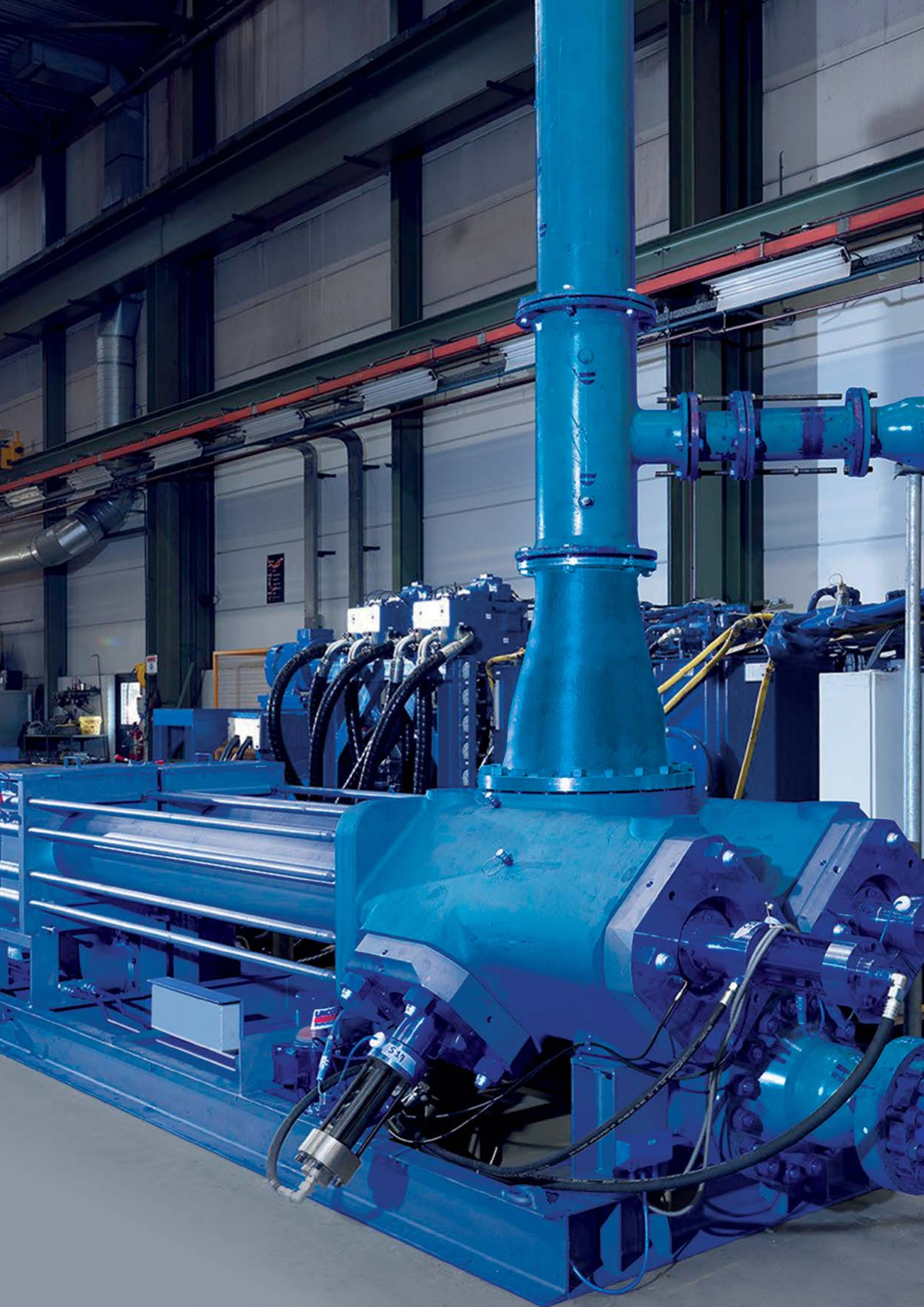
GEHO® pumps reduce water consumption by up to a third, meaning lower usage of this critical resource.

50%

Cut carbon emissions

GEHO® pumps can dramatically reduce carbon emissions. That's a cleaner environment for you and your children for generations to come.





Hard at work. All day, every day.

The Hydraulic Power Unit

Our GEHO® DH series pump is driven by a Hydraulic Power Unit (HPU). The HPU generates the reciprocating movement of the pistons. Through specific HPU and pump controls, a near-to-pulsation-free flow can be generated.

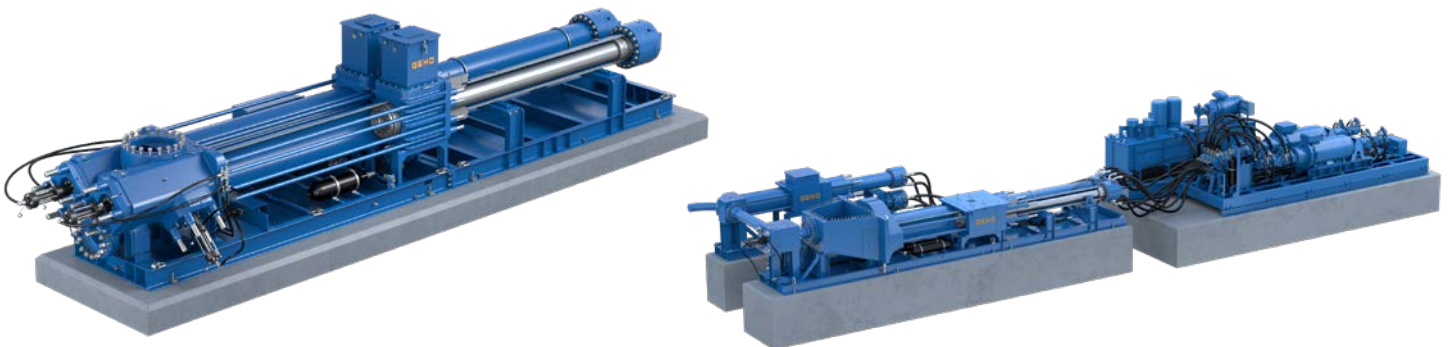
The GEHO® hydraulic piston pump comes in two models:

- DHC - DHC duplex single acting cone valve pump (below left)
- DHT - duplex single-acting transfer tube pump (below right)

Capabilities

Your GEHO® DH series pump really will make the most of your mine with:

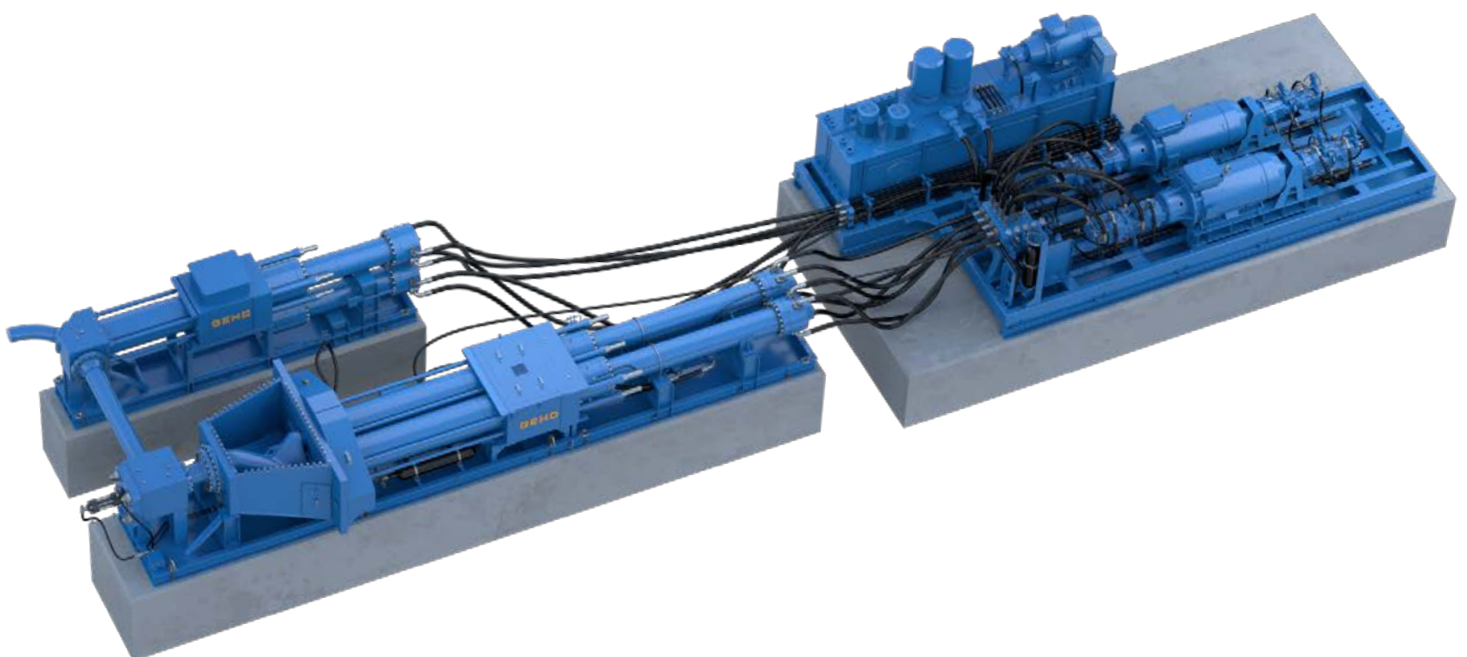
- Capacities up to 350 m³/h
- Discharge pressure up to 16,000 kPa for minerals slurries
- Discharge pressure up to 40,000 kPa for biomass
- Solids concentration up to 90%
- Viscosity up to 100,000 mPas
- Yield stress up to 1,000 Pa
- Particle size up to 100 mm
- Slurry temperature up to 110°C



Main features and benefits

Whether it's transporting ore, tailings or feeding processes, our rugged range of GEHO® DH series pumps handle the toughest conditions with might. They feature:

- Cone valves with rubber sealing rings delivering an extended lifetime for the valves, low maintenance costs and long maintenance intervals
- A VZ Pulsation Free system which delivers a near-to-pulsation-free discharge flow meaning there is no pipeline pressure pulsations, no damage to the pipeline and supporting framework, no safety risks, and no noise (hammering)
- Full PLC control which enables autonomous pump operation and seamless integration with your control system
- Valve actuators with a slurry separation area to prevent contamination of the hydraulic oil delivering high reliability, minimised repair costs, and dramatically reduced unplanned production stops
- Slurry cylinders with a double coating system which provides extreme wear resistance against corrosion, and delivers a long lifetime, and low maintenance costs



The lifeblood of your mine relies on the healthiest of hearts.

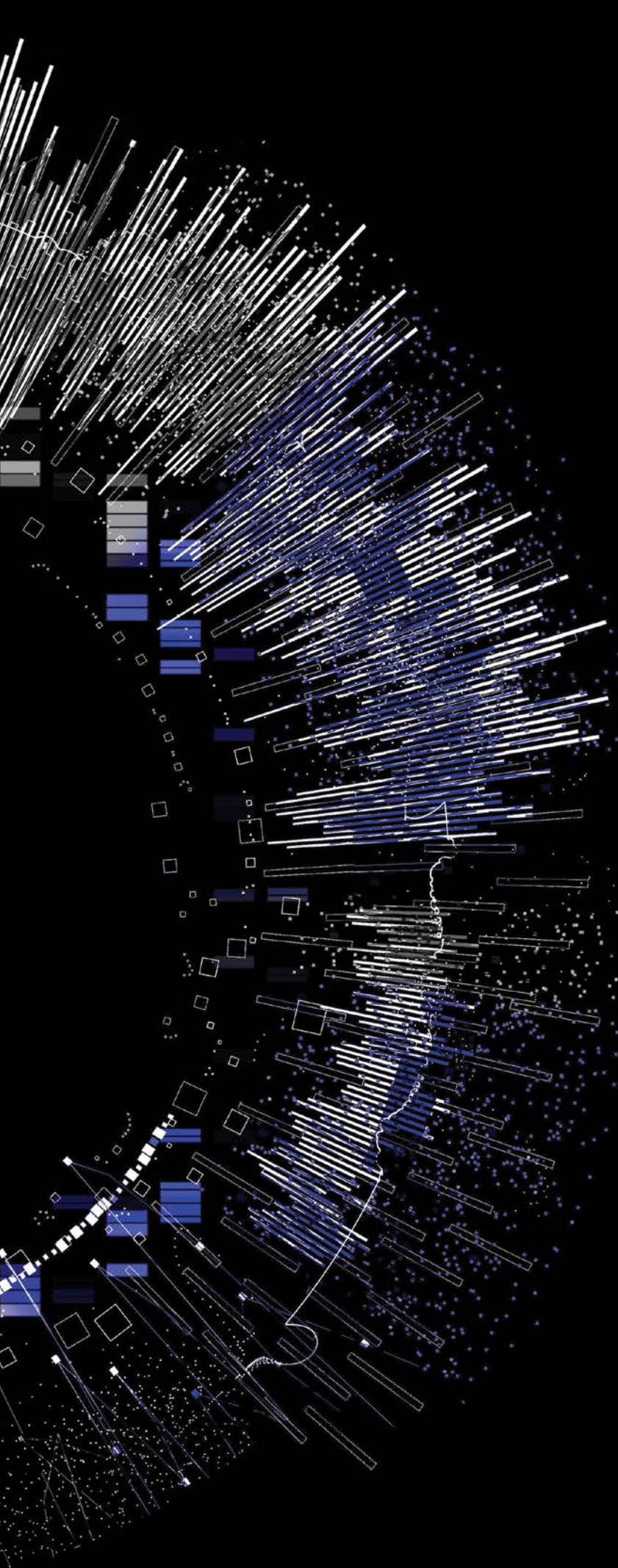


Global but local

Whether you're in Alaska or Australia, we have a local after-sales service team on standby, ensuring your GEHO® pump is monitored, optimised and serviced no matter what.

Our ongoing partnership with you includes:

- Comprehensive support under flexible servicing agreements tailored to your unique needs
- Installation and commissioning by highly qualified and dedicated service engineers
- 24/7 on-site technical assistance to ensure optimised performance of your equipment and to minimise unplanned downtime
- On-site training and workshop training available at our GEHO® pumps training academy for operators and maintenance professionals to improve general knowledge and equipment maintenance
- Reliable and cost-effective repairs, overhauls and modifications
- A guarantee to provide genuine spare parts manufactured using quality materials and processes to ensure that they are reliable and long-lasting, helping to optimise the performance of your pump
- Partnership with world-wide experts in hydraulics to ensure the highest quality and availability of parts
- Reliable and timely availability of our GEHO® spare parts from our manufacturing facility and regional distribution centers that cover every continent (or from an agreed consignment stock on-site) to help reduce your operating costs



The Power of Synertrex®

Advanced technologies have revolutionised every digital process on the planet. And GEHO® positive displacement pumps are no different.

With Synertrex®, monitoring data analytics and enabling predictive maintenance has never been easier. Synertrex® sensors are placed on your pump to collect critical operating data. This allows you to increase productivity, foresee risk and enhance overall performance. This reduces downtime and increases productivity and output.

Our world-leading team of experts can virtually visit your site, assess the operability of our equipment, and provide technical advice and support from our Synertrex Monitoring Centre in Venlo, The Netherlands.

With a GEHO® pump there are no surprises, only outstanding performance that you can predict, track and monitor.



Minerals



www.global.weir
geho@mail.weir
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