



Gearboxes for Flotation Cells

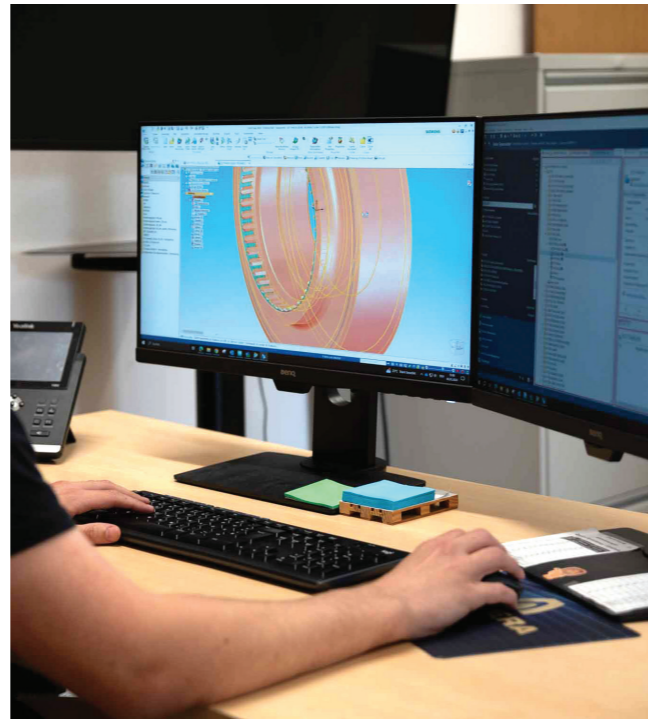
Reliable Drives for Mineral Processing Plants

Decades of Trusted Expertise

Kumera is a leading designer, manufacturer, and service provider of mechanical power transmission solutions for various industries, including demanding mining and metal applications

Decades of accumulated experience ensure **deep technical expertise** and delivery of high-quality, innovative solutions that meet today's demanding requirements, while ensuring smooth and reliable processes.

Kumera has a thorough understanding of the operating demands in heavy industries, built through close collaboration with OEM suppliers, EPC contractors and plant operators. This expertise ensures that every gearbox solution is precisely tailored to meet both, process requirements and site-specific conditions.



Proven Technology for Concentrators

Flotation cells place extreme demands on drive systems. Continuous operation, high loads, and abrasive environments require gearboxes that deliver **reliability, long service intervals, and minimal downtime.**

The Kumera VLG Series is designed specifically for flotation duties in mineral processing plants. They are used worldwide in **rougher, scavenger, and cleaner circuits**, both in new installations and retrofit projects.



Kumera Corporation is a global technology and service provider for demanding industrial and marine applications. The corporation consists of four major operating divisions.

The Power Transmission group provides a comprehensive range of products for a wide variety of applications in all the major process industries. Kumera has more than 70 years of experience as manufacturer of mechanical power transmissions for the industrial market. There are more than 200,000 Kumera gear units in operation in about 40 countries.

The Technology Division is specialized in process equipment for diverse heavy industry applications.

The Foundry Division produces all types of steel and iron castings, forming a link in the vertical refining chain of Kumera Corporation.

Kumera Marine Division engineers and manufactures propulsion gearboxes and propellers including control systems for any seafaring vessels.

Kumera VLG Series for Flotation Applications

The Kumera **VLG Series** is purpose-built for vertical flotation cells, offering a wide range of gearbox sizes, gear ratios, and torque capacities.

Designed for harsh operating conditions, the VLG Series combine **high mechanical efficiency and excellent thermal capacity** to ensure stable performance under heavy external loads.

Key benefits

- Modular design for flexible configuration
- Compact vertical layout for limited installation space
- Heavy-duty output shaft bearings for high external loads
- Long intervals in maintenance and oil change

Technical Specifications	
Gearbox Sizes	6
Number of Stages	2-3
Power Range	Up to 800 kW
Gear ratio	10 - 31.5
Nominal Output Torque	Up to 100 kNm

Low operating oil temperatures enabling extended oil change intervals

Dry well design with grease-lubricated lower bearing to prevent oil leakage

Compact vertical design for tight installation spaces

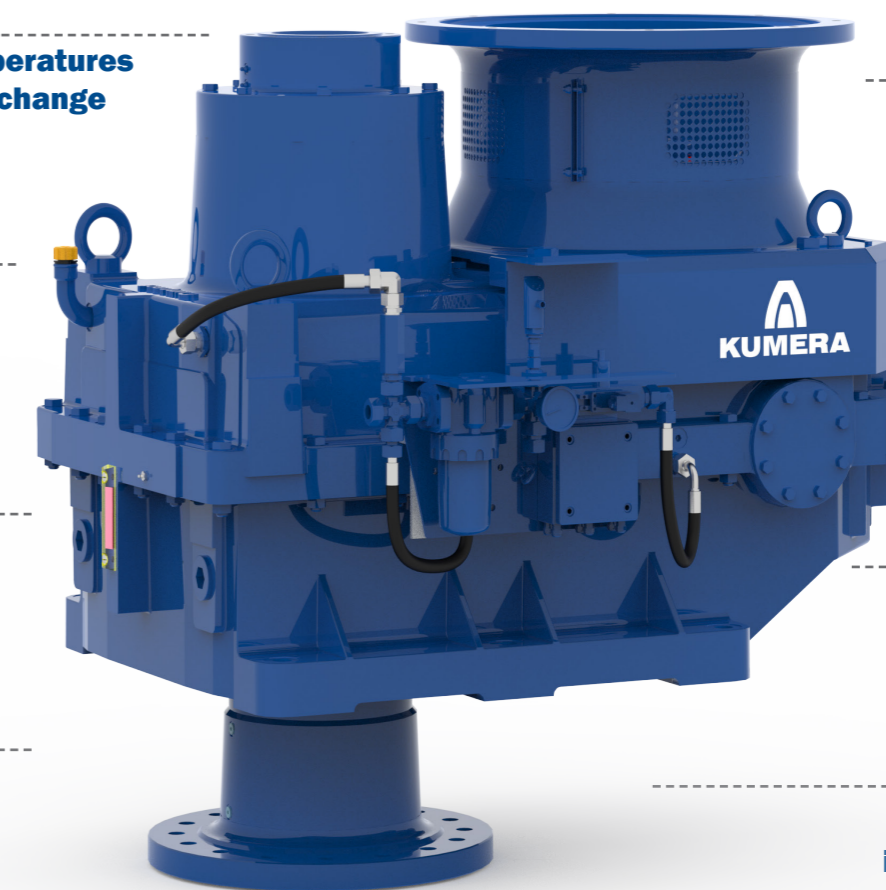
Robust output shaft and bearing arrangement

Designed for high external radial and axial loads

Modular design and flexible configuration

Integrated shaft-end oil pump

Built-in oil filtration for improved oil cleanliness



Flotation circuits demand continuous operation. This is why the Kumera VLG Series incorporates several features aimed at **maximizing availability and uptime**, including an efficient lubrication and cooling concept, dry well design and built-in oil filtration for improved oil cleanliness. These features help reduce unplanned shutdowns and protect the flotation process.

Easy Integration and Customization

We understand that every operation is different. This is why the Kumera VLG Series is designed for easy installation and retrofitting existing processes:

- Multiple IEC motor adapter options
- Customizable air connections and output shaft interfaces
- Optional bi-directional shaft-end fan for enhanced cooling
- Suitable for **OEM-standard flotation cells and plant-specific solutions.**

Upgrade Your Belt-Driven Flotation Drive with a Gearbox Solution

Kumera flotation gearboxes are engineered for continuous duty, offering reliable power transmission, reduced maintenance, and consistent flotation performance.

- Improved reliability compared to belt-driven solutions
- Easy access for maintenance and service
- Improved energy efficiency

Global Service and Lifecycle Support

Gearbox performance is measured over decades, not months. Kumera possesses a global service network and supports throughout the entire product lifecycle with a variety of services that extend the gearbox service life and reduce total costs.

Spare parts

- Original spare parts, custom made spare parts and spare parts for all brands.

Repairs and overhauls

- Global Kumera Service Center network, manufacturing and service facilities all around the world.
- Multi brand overhauling, all brands can be repaired.

On-site services

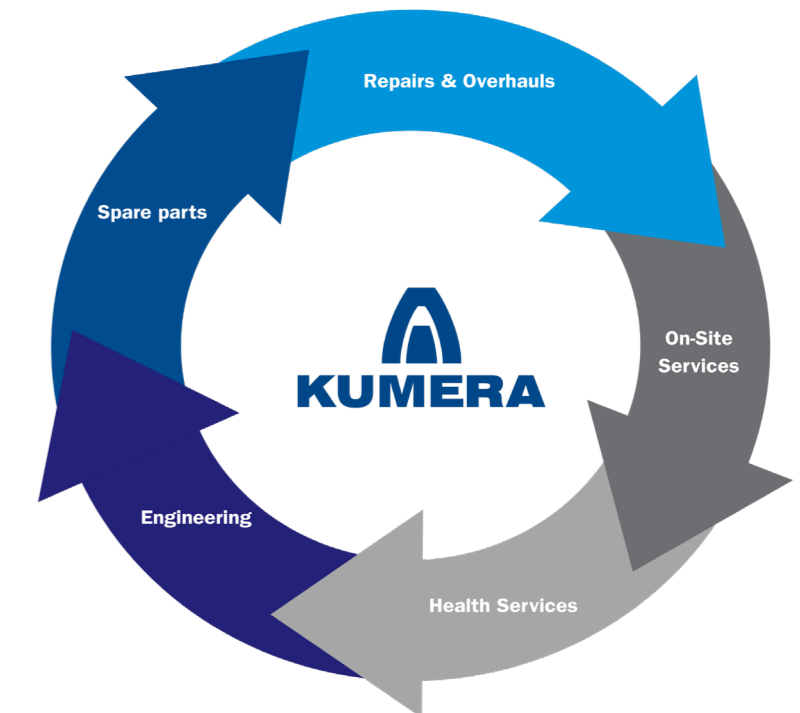
- Repairs and overhauls, installation supervising, machine installations and turnkey projects.

Health services

- Essential measurements, inspections and/or online monitoring for analysing power transmission condition.

Engineering

- Upgrading, modernization and replacements of all brands
- Professional services, lifetime calculating and engineering



Your Reliable Lifecycle Partner



Kumera flotation cell gearboxes combine **robust mechanical design, process-driven engineering, and low maintenance costs** – delivering reliable and efficient agitator drives across the globe.

Contact the Kumera team to discuss your flotation cell needs.

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