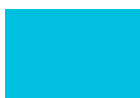


SERVICES IN GEARBOXES, MULTIPLIERS AND PARTS

Factory and field services



Motors | Automation | Energy | Transmission & Distribution | Paints

Services in Gearboxes

TGM has specialized in servicing gearboxes from other manufacturers, restoring their operation to the original constructive form. Advanced techniques allow servicing the whole equipment or just part of it on a case-by-case basis.

Structure

- Own technology
- Team focused on results and efficiency
- Modern and complete industrial site
- Mastery of the applications
- Dynamic, flexible and competitive

Main Services

- Overhaul
- Overhauling Revamping
- Retrofit
- Recovery
- Balancing
- 3D Engineering
- Installation and Startup
- Inspection and Monitoring
- Spare Parts and Parts
- Planned Maintenance
- Long-Term Contracts
- Training

SERVED SECTORS

FOOD AND BEVERAGE

PULP AND PAPER

CEMENT AND MINING

WIND POWER

FERTILIZERS

WOOD INDUSTRY

MARINE

SMALL HYDROELECTRIC STATION

CHEMICAL AND PETROCHEMICAL

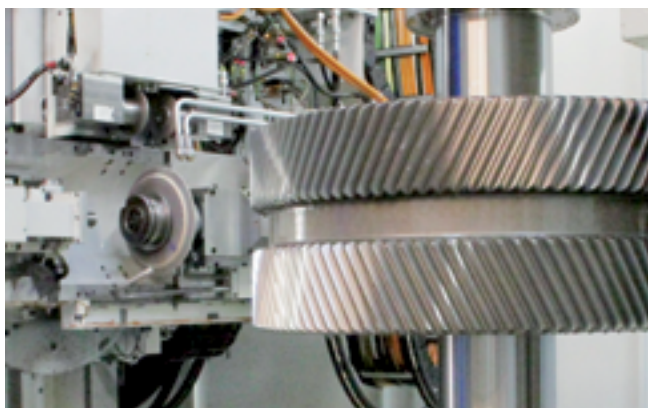
STEEL

SUGAR AND ETHANOL

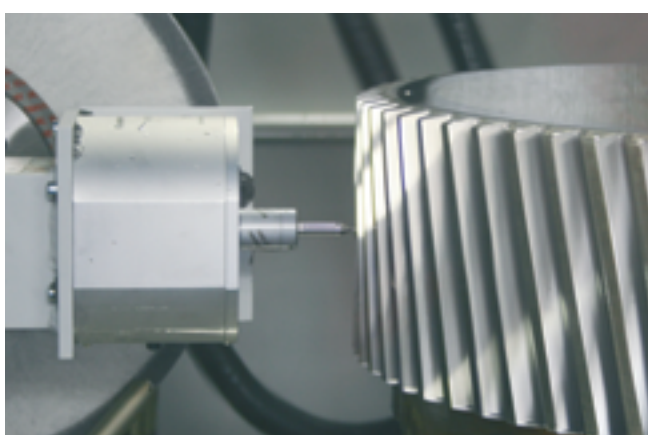
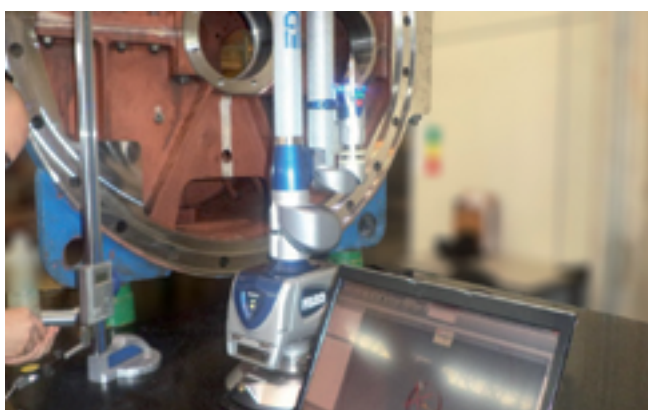


TGM Technology

TGM has engineers and technicians specialized in the construction, development and installation of products and services that ensure the best solution for the needs of each customer, using advanced technologies, such as graphic software applications, and observing the current standards. The use of advanced techniques allows determining, on a case-by-case basis, the services to be executed, such as: 3D engineering, overhauling revamping, retrofit, overhaul and recovery of the whole equipment or part of it.



In order to meet the customers' expectations, TGM invests in the preparation, qualification and training of technical personnel in product engineering, application, quality control, manufacturing and field services, and in the continuous improvement of the technology. TGM provides relevant application consulting services in order to have the best return on investments.



Quality Assurance

TGM's main commitment is to deliver products, parts and services to the customers' highest satisfaction levels. Therefore, the quality system supervises and continuously searches for improvements in the processes, complying with administrative procedures, technical instructions, production standards, training and analysis with effective corrections.

Certifications

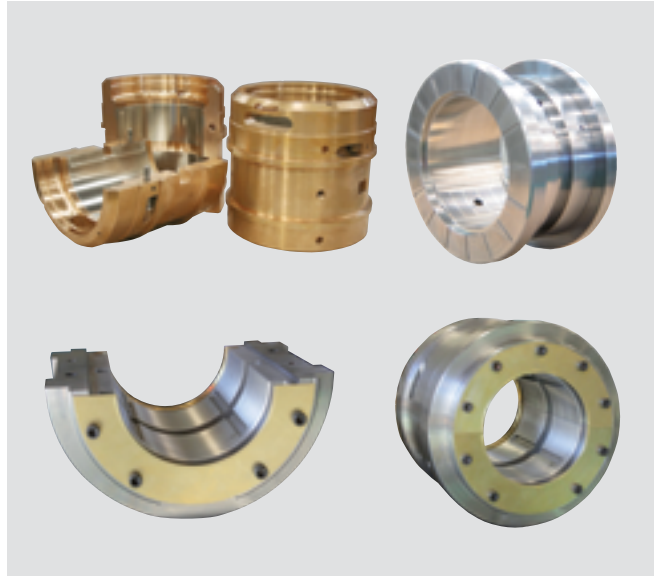
TGM has the ISO 9001 and ISO 14001 certifications, which proves its quality and respect for the environment.



Manufacturing Plant Structure

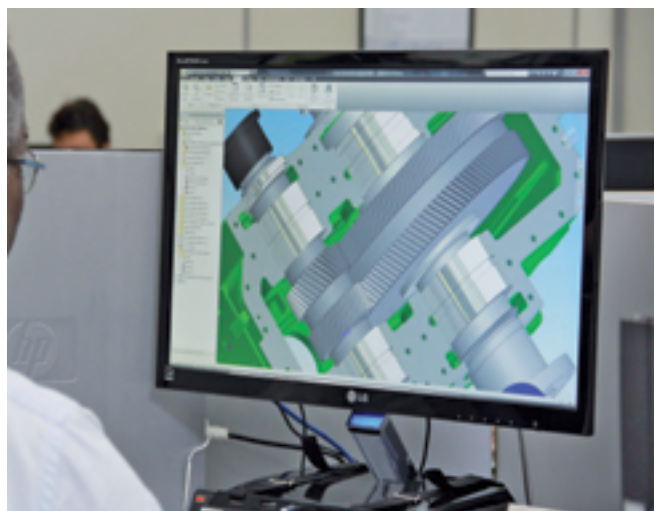
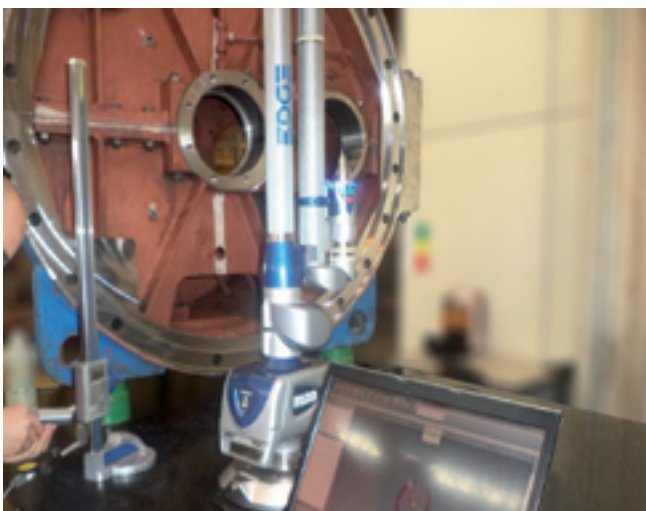
Bearing Manufacturing Cell

In this cell, sliding bearings of any type, machine and manufacturer are made, being a TGM's peculiarity. The company has a specialized team dedicated to fulfilling any demands.



3D Engineering at the Factory or in the Field

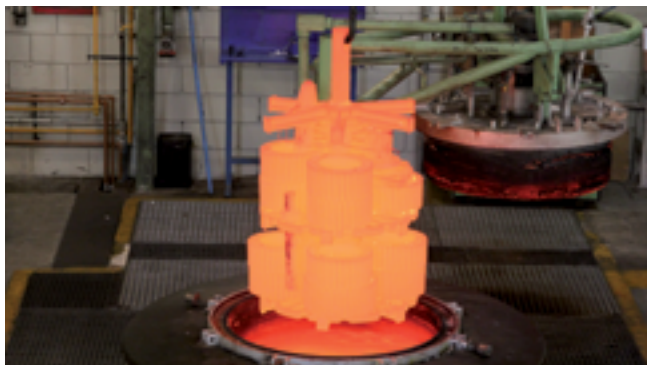
For analysis of possible problems on the equipment, the company uses 3D engineering resources composed of tools and processes, not only to detect the causes, but also to propose improvements in the machine design. TGM's team uses state-of-the-art techniques to offer overhauling revamping, retrofit, overhaul and recovery services with high accuracy.



Manufacturing Plant Structure

Heat Treatment

TGM/Maxirate heat treatment has qualified ovens according to API-6, and it is considered the most advanced in Brazil. Compliance reports are issued for all monitoring procedures, providing high reliability for gearboxes, gears and shafts.



Low Speed Balancing

TGM has the low speed balancing, which is essential for the equipment efficiency and safety.



Oil Laboratory

TGM has a modern Oil Laboratory for preventive analysis that helps the customers take care of their equipment, aiming to improve quality and safety and increase operational availability.



Gearbox Testing

The test bench is equipped with electronic instruments with modern controls that determine the conditions of new and overhauled machines up to 60 MW, whether manufactured by TGM or not.



Services in Gearboxes, Multipliers and Parts **Food and Beverage**



Services in Gearboxes, Multipliers and Parts **Pulp and Paper**



Services in Gearboxes, Multipliers and Parts **Cement and Mining**



Services in Gearboxes, Multipliers and Parts **Cement and Mining**

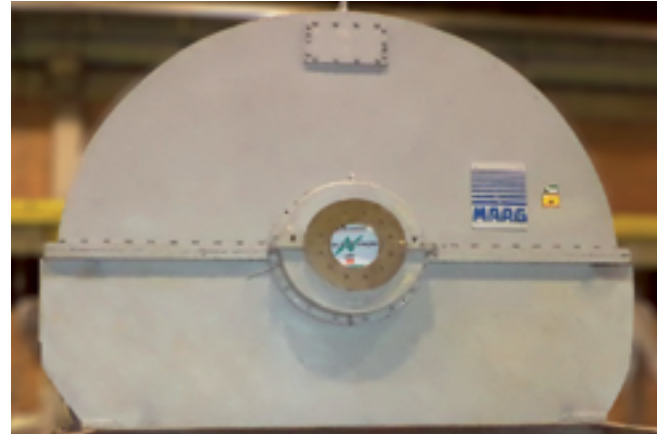
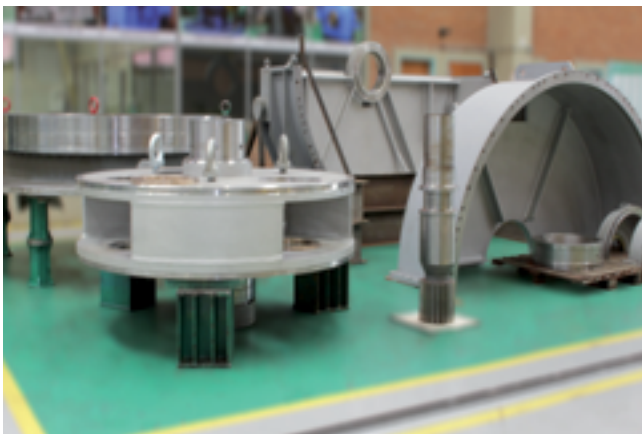
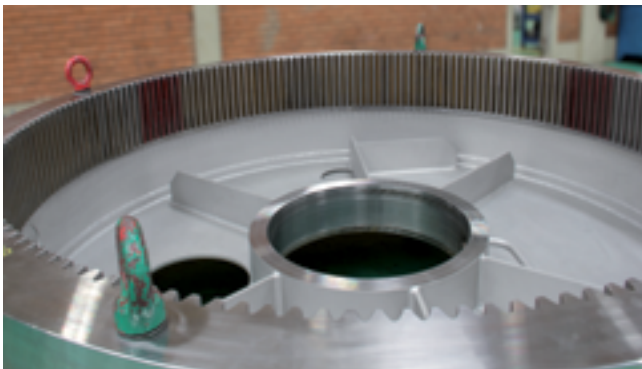
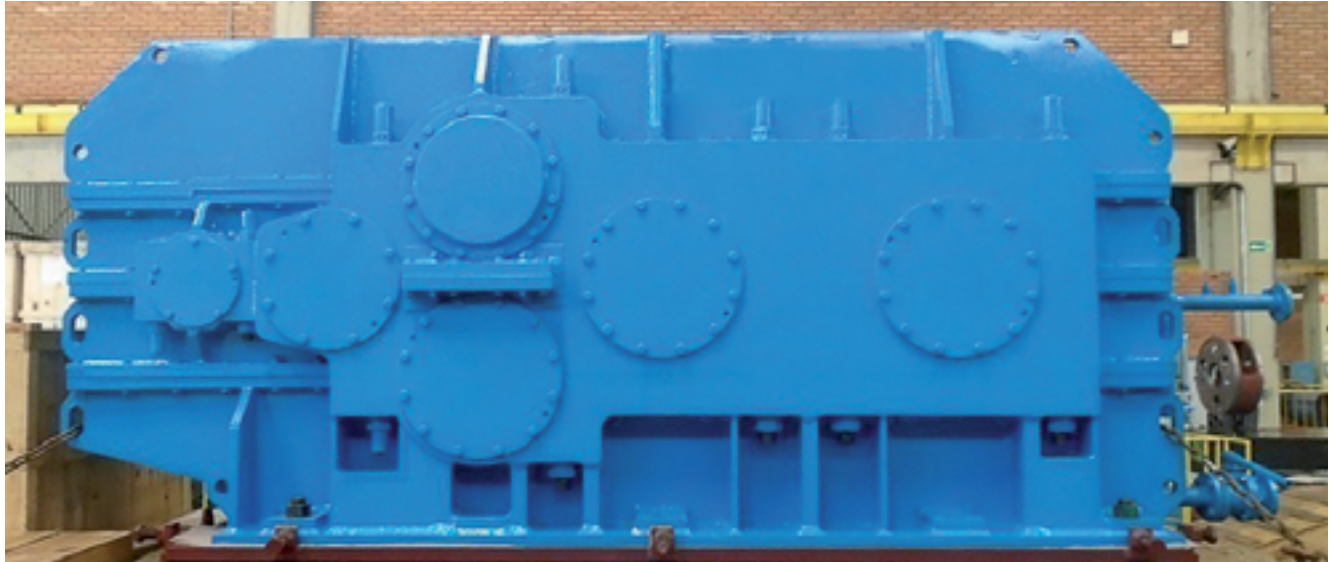


Services in Gearboxes, Multipliers and Parts

Cement and Mining



Services in Gearboxes, Multipliers and Parts **Cement and Mining**

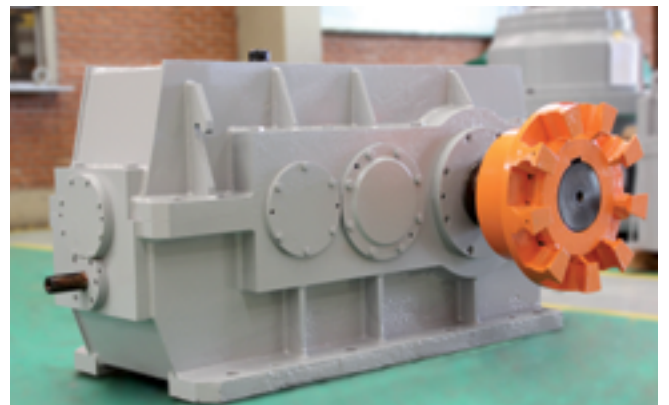
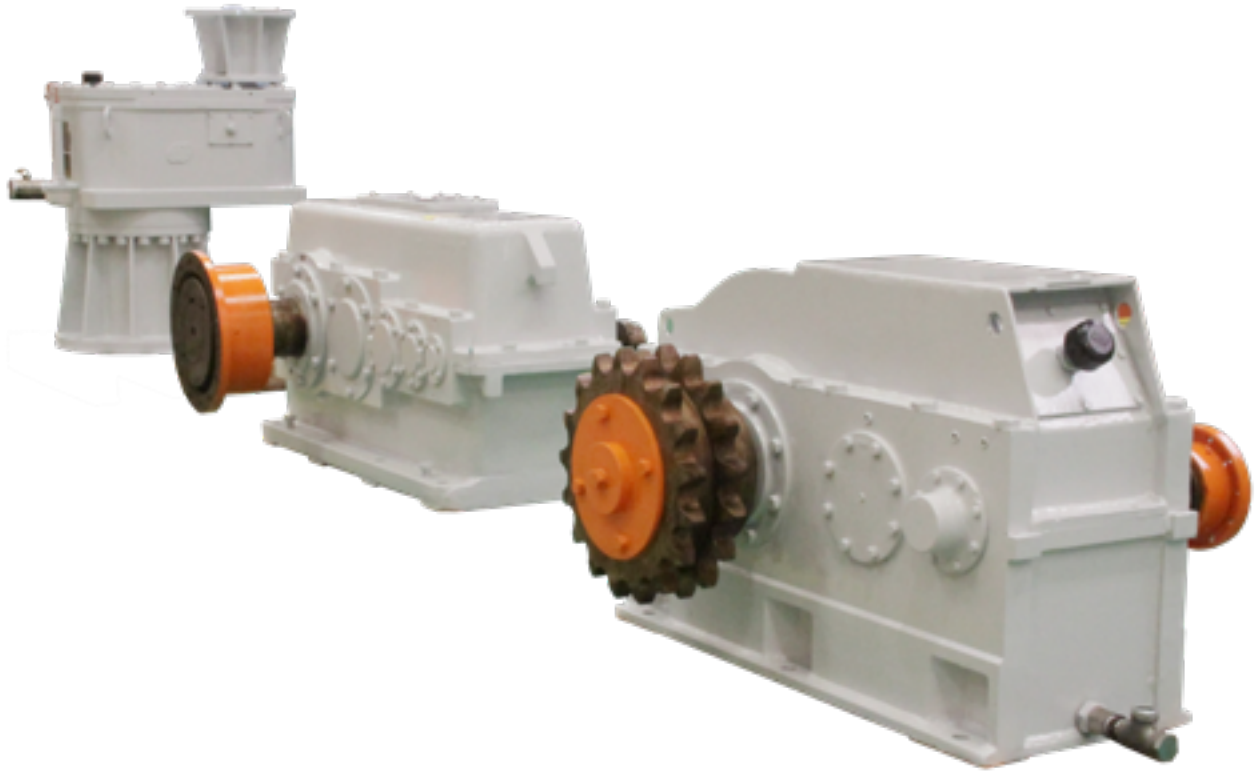


Services in Gearboxes, Multipliers and Parts

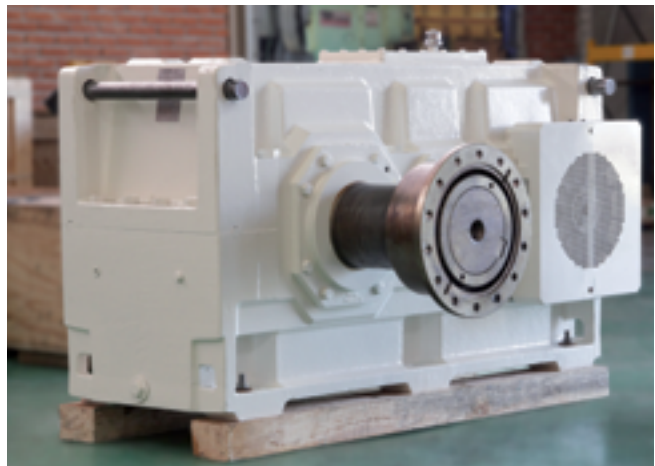
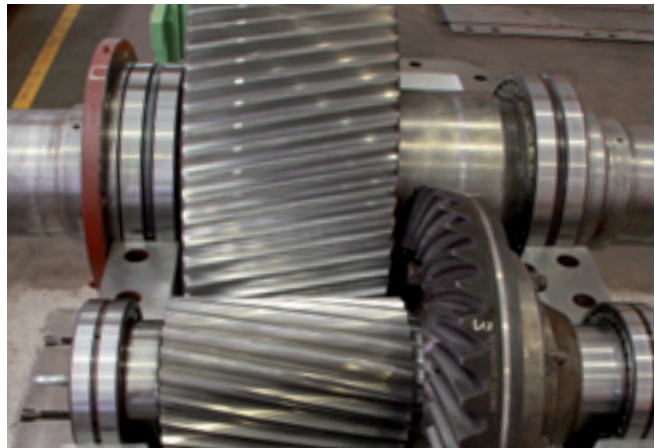
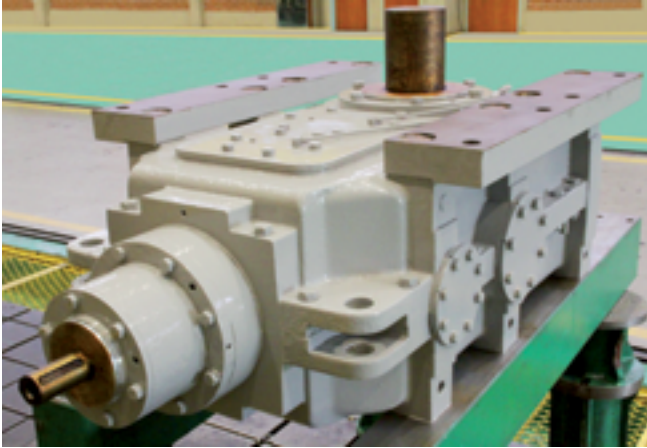
Wind Power



Services in Gearboxes, Multipliers and Parts **Fertilizers**



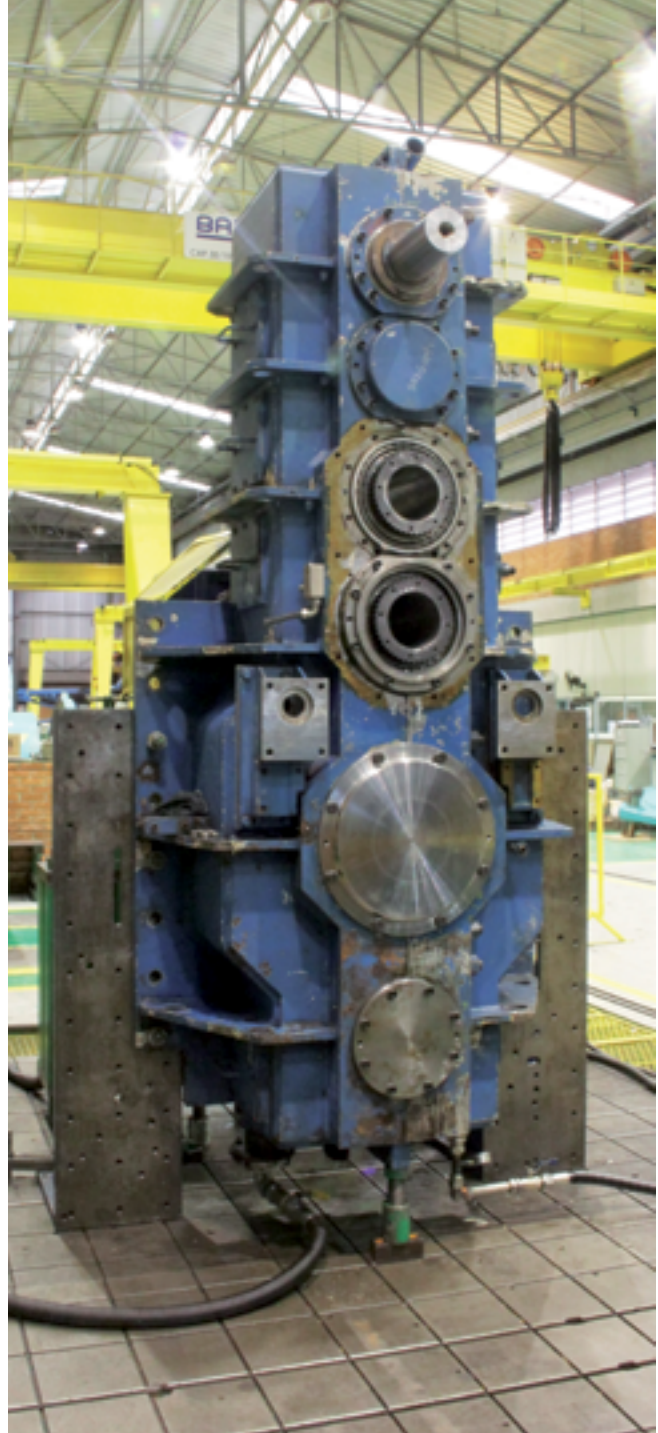
Services in Gearboxes, Multipliers and Parts **Wood Industry**



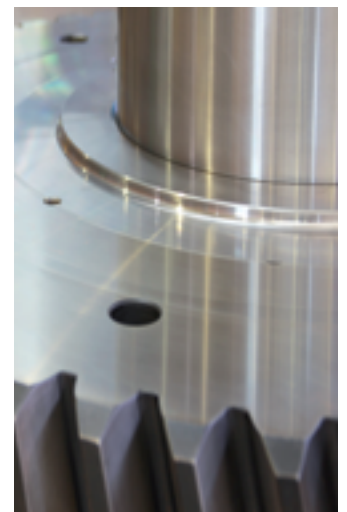
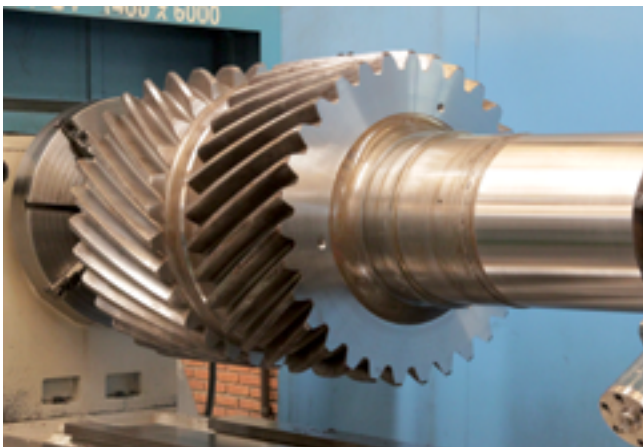
Services in Gearboxes, Multipliers and Parts **Marine**



Services in Gearboxes, Multipliers and Parts Iron and Steel

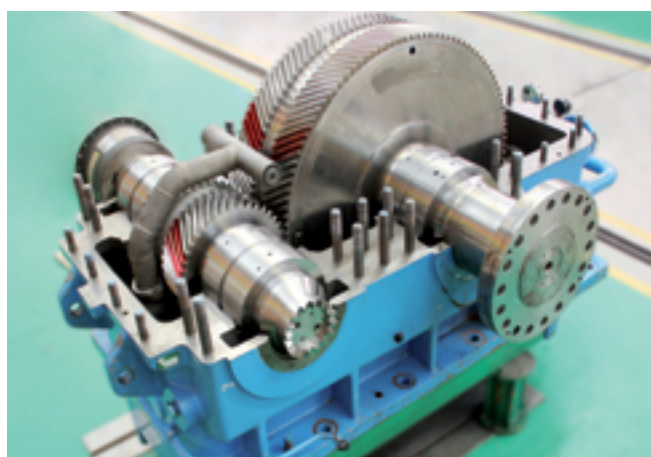
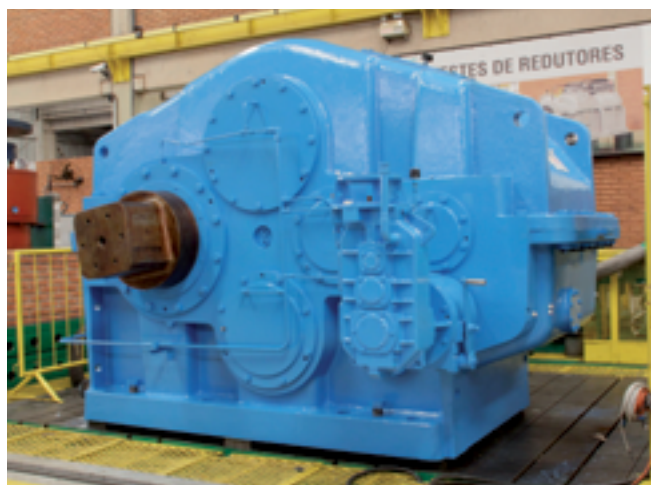


Services in Gearboxes, Multipliers and Parts **Iron and Steel**



Services in Gearboxes, Multipliers and Parts

Sugar and Ethanol



Services in Gearboxes, Multipliers and Parts **Chemical and Petrochemical**



Services in Gearboxes, Multipliers and Parts

Spare Parts

By means of modern processes and strict control and quality standards, TGM manufactures spare parts for steam turbines and gearboxes with timely delivery. It keeps in stock a wide range of rolling bearings for gearboxes and mechanical and electronic components.



Highly Reliable Monitoring and Control

TGM Monitork and Protetork are a simple and smart system that, in addition to monitoring the oil temperature and pressure and vibration, guarantees that the gearbox will not undergo overtorque, avoiding accidents and ensuring an operation within the established limits.



Long-Term Contracts

It is an important maintenance concept, especially for industries that seek to guarantee efficiency, availability and safety in the processes. TGM long-term contract is implemented in several companies, covering more than 500 machines.

Planned Maintenance

It guarantees an increase in the equipment availability, establishing an efficient scheduled shutdown for preventive, recovery, retrofit and part replacement services. On the market, the field team is considered to be the biggest and the best in fulfilling the needs of each customer.



Field Services

TGM's installation, startup, monitoring and technical support services are performed observing thorough processes and instructions at every stage of the project.



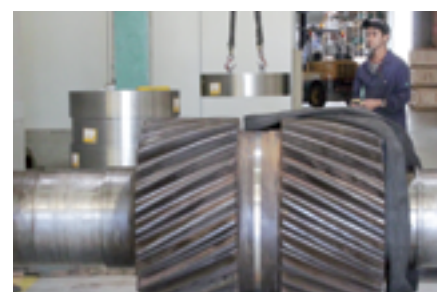
Operations Engineering

Studies of industrial processes in the field ensure the improvement of the plant general performance so as to maximize efficiency and guarantee profitability.



Technical Reports and Documentation

TGM's service team issues documents such as: inspection and testing plans, dimensional inspection, non-destructive testing, runout testing, balancing, fault analysis, photographic analysis of components, water tightness and hydraulic testing reports. It also provides raw material and treatment certificates.



Gearbox Line

TGM offers a complete range of small to large gearboxes for any segment. With carburized and ground gears, the gearboxes are available in the planetary, turbo, special and flexible coupling lines.

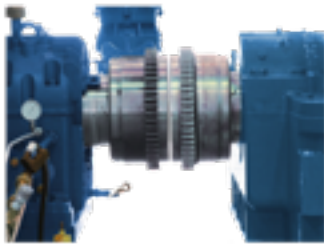
TURBO GEARBOXES UP TO 60 MW



PLANETARY GEARBOXES UP TO 10,000 kN.m



FLEXIBLE COUPLINGS



Gearboxes - Special Line



When is identified that the replacement of the existing equipment by a new one is not feasible, service will play a key role in the process by reducing the environmental impacts, once it is possible to repair the equipment.



24/7 Service



TGM 24/7 technical service has become an icon in the segment, since it is always mentioned as the most reputable in the 100% of plant availability aspect.

TGM, headquartered in Sertãozinho City/SP, is a company of the WEG Group, belonging to the WEG Energy business unit. Weg Energy develops and implements solutions for electric power generation in Wind Power, Biomass and Hydroelectric Power projects, providing large-sized electric motors, alternators, generators and wind turbines. It also provides overhaul and recovery services of electrical rotating machines.



The WEG Group's scope of solutions is not limited
to the products and solutions presented in this catalog.
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