

# PLANETARY GEARBOXES

**Industrial  
Line**

Industrial Motors

Commercial &  
Appliance Motors

Automation

Digital &  
Systems

**Energy**

Transmission &  
Distribution

Coatings



Driving efficiency and sustainability



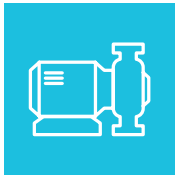
# Planetary Gearboxes



WEG provides a comprehensive range of speed reducer and multiplier gearboxes for industrial application. Made in modern manufacturing plants, they are available in planetary, turbo and parallel shaft design for a wide variety of applications. As a leading solutions provider, WEG also provides motors, drives, transformers and aftermarket service support by specialists in operation and maintenance. Our team is always available to assist with technical queries in order to maximize your plant's operational availability and safety.



## Benefits



**Increased  
operating  
availability**



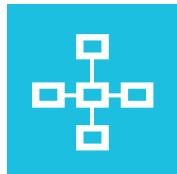
**Greater  
durability**



**Greater  
efficiency**



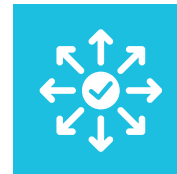
**Easy  
maintenance**



**Effective in all  
applications**



**High performance  
and reliability**



**Greater flexibility  
in installation**

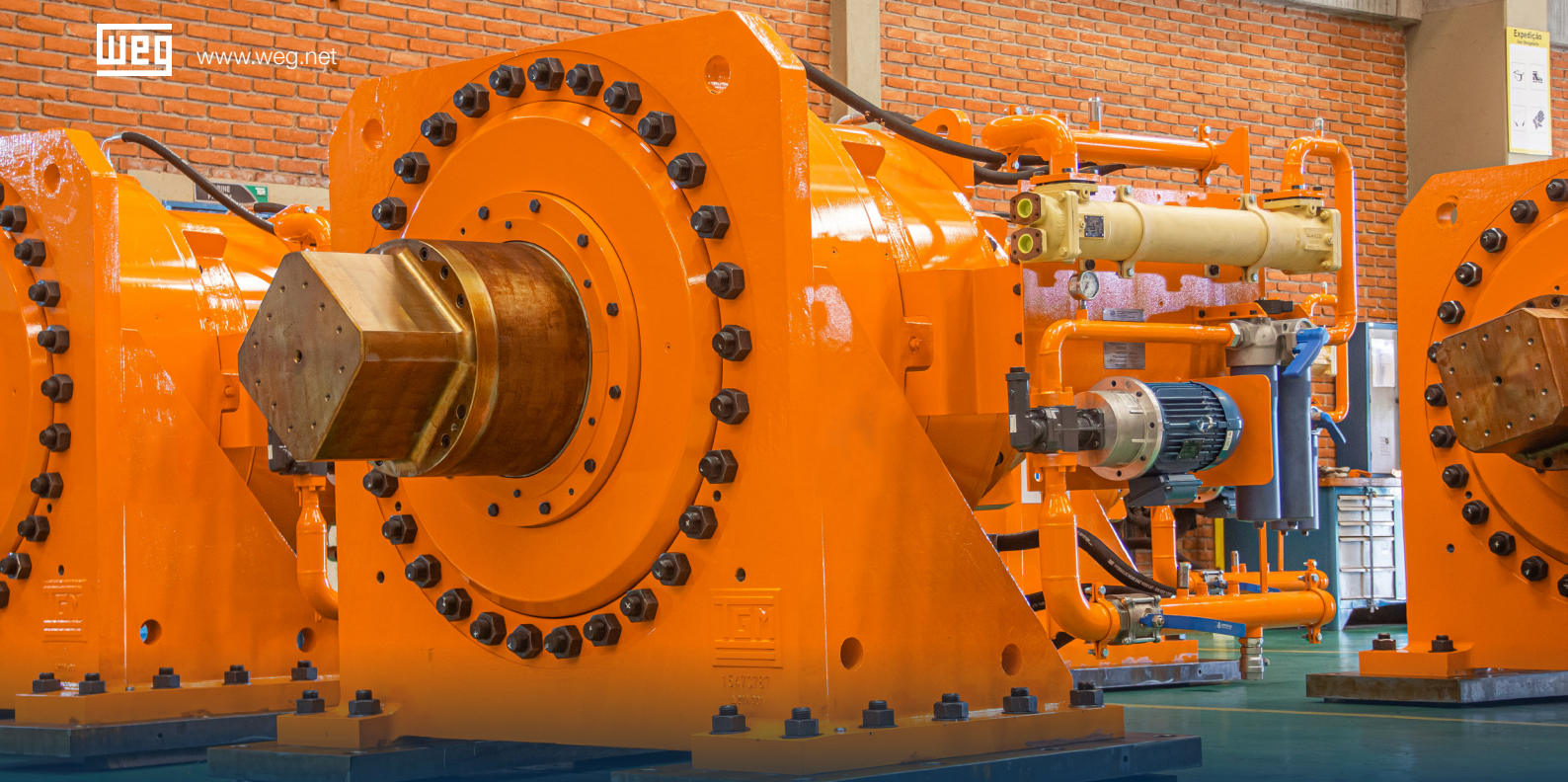
## Applications







www.weg.net

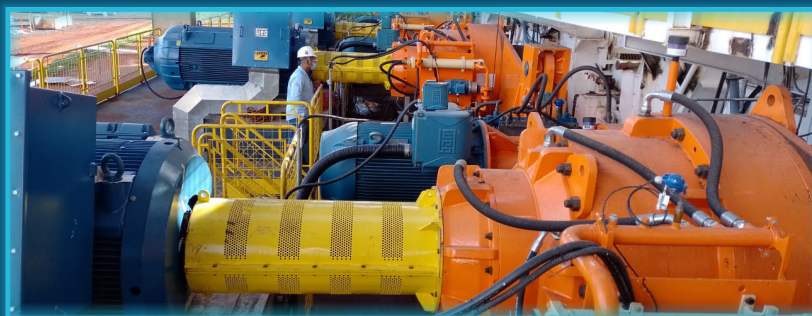


## G3 Full Planetary Gearbox Line for Sugar & Ethanol Plants

Planetary gearboxes with torque up to 10,000 kNm



Drives in diffusers and sugarcane mills for central application



Individual drives and assist drive in sugarcane mills

### Complete Planetary Gearbox Line

In addition to the G3 Full line for driving large machines, WEG also provides customized planetary gearboxes to drive small and medium-sized rotating machines. These planetary gearboxes are made to order, taking into account the specific needs of each plant, and are widely used in various industry sectors. Our engineering team conducts advanced application studies to ensure efficient and customized solutions, included in WEG's Complete Solution package.





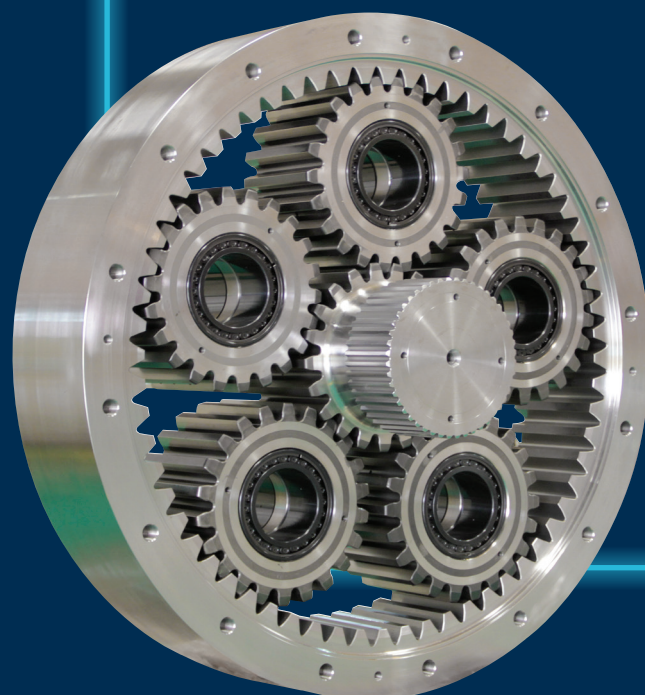
The WEG planetary gearbox line features consolidated technology for driving diffusers and sugarcane mills in central and individual applications.

Its main advantages are:

- High mechanical efficiency
- Robustness of gear sets and bearings
- Flexible installation
- High-performance smart hydraulic system
- Electronic monitoring system

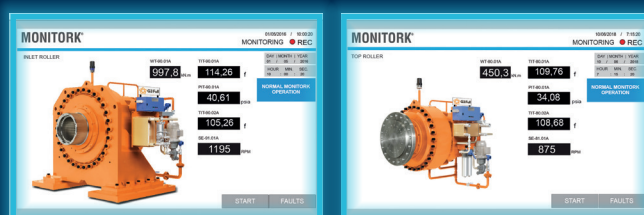
### Robust bearings

Bearings are surface treated and sized for a service life calculated in accordance with ISO 281 and with a service factor  $\geq 2$ , which contributes to the gearbox efficiency and safety.



### High-performance hydraulic system

Perfect lubrication is one of the planetary gearbox highlights. Built to allow the best lubricant oil filtration and cooling conditions, the hydraulic units consist of 10 micron ( $\beta_{200} - 99.5\%$  filtration efficiency) absolute filtration elements and a high-performance air-oil heat exchanger - everything integrated into the electronic monitoring system.



### Control and monitoring by a highly reliable system

A pioneer in the electronic monitoring of gearboxes, WEG provides the Monitork system to monitor all operation variables, from the lubrication and torque control to a complete vibration analysis system.

It is a simple and smart system that, in addition to monitoring the oil temperature, pressure and vibration variables, ensures that the gearbox will not be subject to over torque, avoiding accidents and guaranteeing an operation within the established limits. This system provides a better use of the equipment, enabling the user to monitor the operation and reduce maintenance costs.





# WEG Planetary Gearbox Applications



## Brazil

Sugarcane Mill 100"  
G3 Full RPS 3 520 P



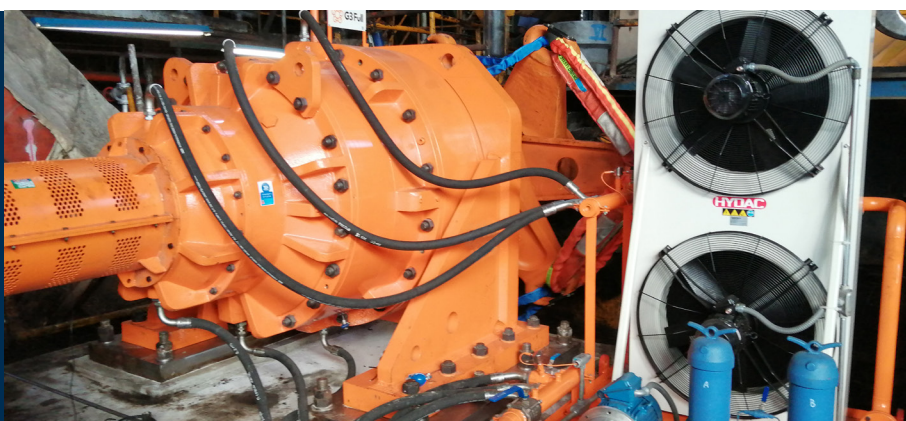
## Brazil

Crusher  
RPS 2 160



## Bolivia

Sugarcane Mill  
RPS 3 480



## Mexico

Sugarcane Mill  
G3 Full RPS 3 520



# WEG Planetary Gearbox Applications

## Zimbabwe

Crusher 39" and 66"  
G3 Full RPS 3 480



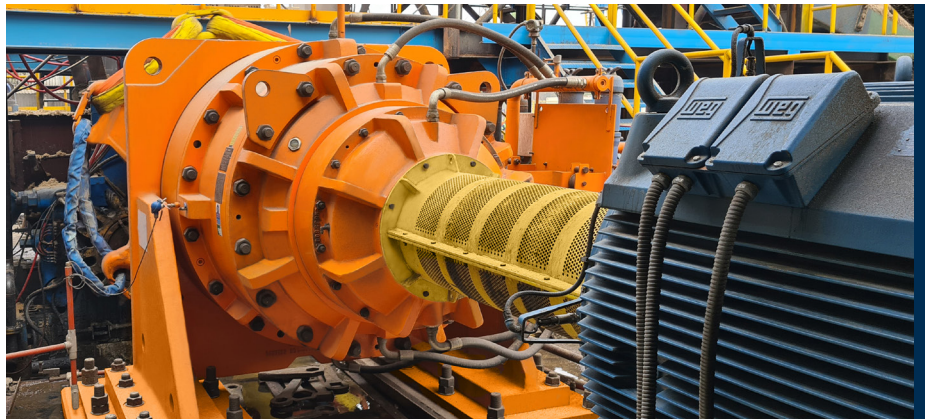
## Brazil

Sugarcane Mill  
48" and 54"  
G3 Full RPS 3 410



## Mexico

Sugarcane Mill  
39" and 72"  
G3 Full RPS 3 480



## Brazil

Sugarcane Diffuser  
G3 Full RPZ 4 600 E







Using its own technology, WEG meets all customers' requirements in products and services focused on the three fundamental pillars of an industry: **safety, efficiency and operational availability.**

## Quality

WEG's main commitment is to deliver products, parts and services to the highest quality levels, always aiming at the customer's satisfaction. To that end, the quality system continuously supervises and seeks improvements in processes, complying with the most demanding international standards for selection, calculation and manufacture of rotating machines.

## Own technology

As a result of constant investments in research, development, manufacture, installation and after-sales services, WEG is among the main global suppliers of electrical and mechanical equipment and solutions.

## Certifications

ISO 9001 and ISO 14001.





### Manufacturing facilities

WEG has a modern manufacturing plant composed of machining centers, gear milling machines and grinding machines, bearing manufacturing, lubricant oil analysis lab, assembly and testing unit for gearboxes and speed multipliers. In addition to the manufacturing structure, the company has a qualified field service team available 24/7/365.



### Laboratory for oil analysis

WEG has a modern laboratory in its manufacturing facilities for lubricating oil analyses which helps in predictive and preventive maintenance of equipment, always aiming at increasing safety and operational availability.



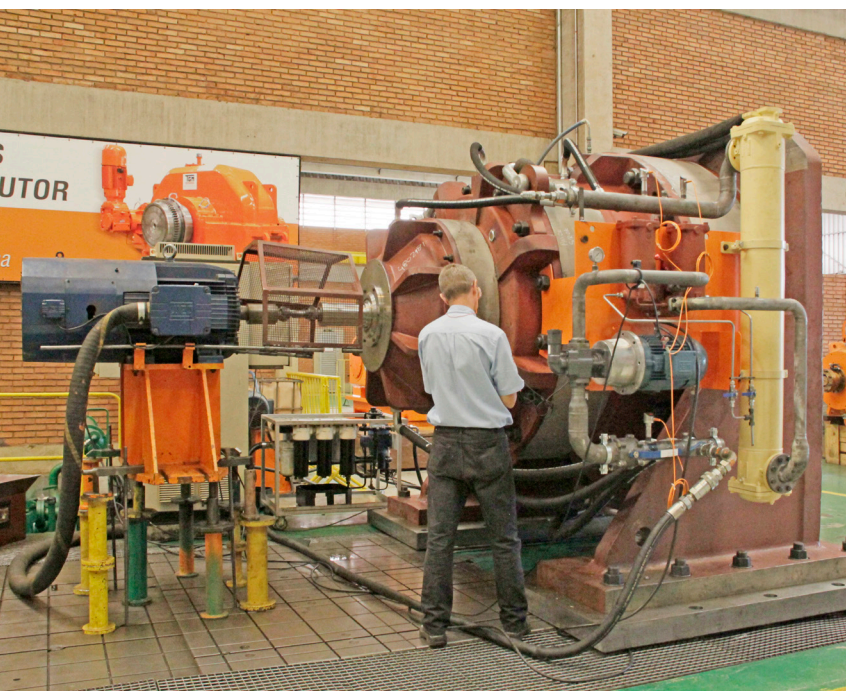
### Sleeve bearings

WEG's structure has several unique features, including the modern manufacturing facilities to produce bearings for gearboxes and speed multipliers.



### Heat treatment

WEG carries out heat treatments in furnaces in compliance with the API-6A standard which are among the most advanced in the world. The structure has a complete laboratory for mechanical and metallographic tests. All processes are accompanied by compliance reports, providing a high level of quality to gearboxes, gears and shafts.



### Test bench

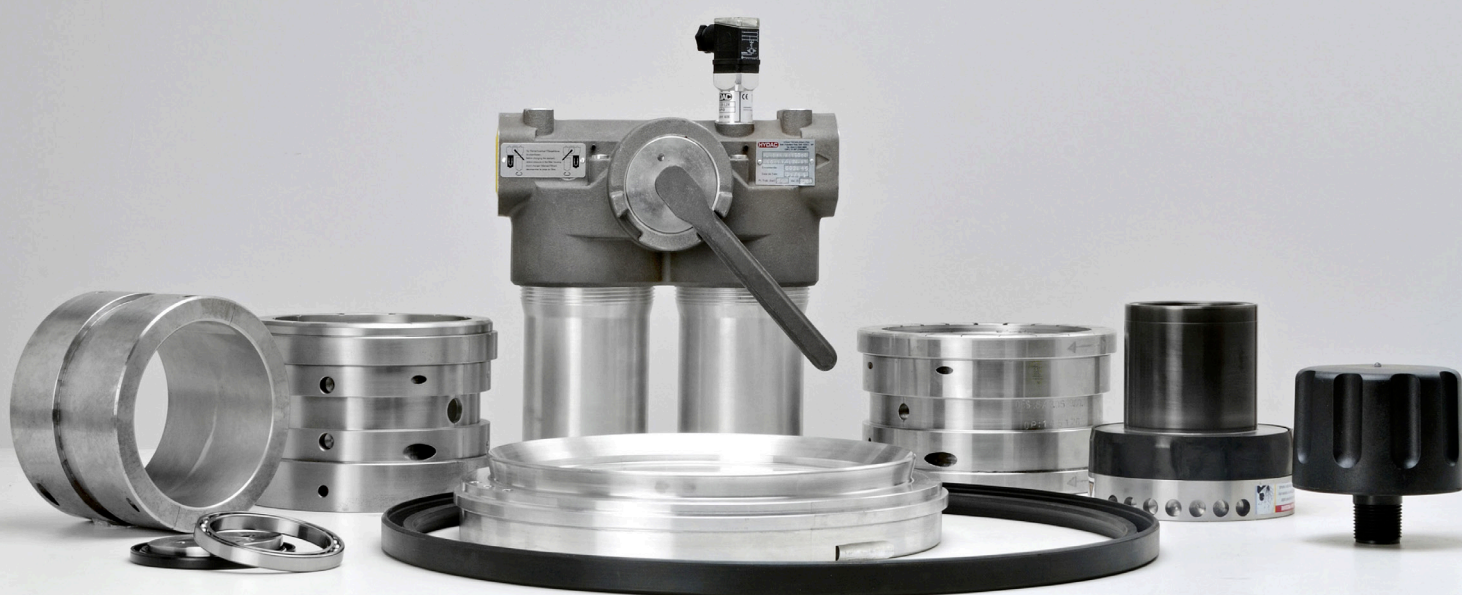
The test bench is equipped with modern instruments and control systems that determine the conditions of new and overhauled machines up to 60 MW, whether manufactured by WEG or not.



# Services on gearboxes and speed multipliers in the field or in-house

WEG performs inspection and maintenance services, in the field and in-house, on its own gearboxes and speed multipliers and on equipment from other manufacturers. Among the services offered, we highlight repowering, modernization, recovery, balancing, reverse engineering with the aid of 2D and 3D CAD tools, finite elements analysis, torsional analysis, manufacture of parts, installation, commissioning and start-up, inspection and monitoring , as well as planned maintenance and long-term contracts

As an equipment manufacturer and maintenance service center, WEG can offer technical support to its customers on gearboxes and multipliers. WEG has qualified professionals to conduct studies for restoring or replacing equipment, helping the customer make the best investment decision, always aiming at the optimization and safety of the operation.



## Service Support

Our aftermarket specialists help customers achieve greater operational availability with 24/7/365 on-call emergency services. WEG streamlines the entire process, from identifying needs to completing services, to restore equipment to its natural conditions in the shortest possible time. All services are performed by teams qualified to serve customers worldwide. WEG's resources and services undertake unquestionable commitments to the production chain, ensuring the full operation of customers' equipment.



# Sustainability



WEG, as a way of confirming its commitment to the **Sustainable Development**, is a signatory to the UN Global Compact and continually works to align its strategy and operations with the **Ten Universal Principles in the areas of Human Rights, Labour, Environment and Anti-Corruption**. This adherence also confirms WEG's alignment with the Sustainable Development Goals (SDGs).

## HUMAN RIGHTS



- 1 - The companies should support and respect the protection of internationally recognized human rights.
- 2 - Make sure that they do not take part in the violation of such rights.



## ENVIRONMENT

- 7 - The companies should support a preventive approach to environmental challenges.
- 8 - Undertake initiatives to promote greater environmental responsibility.
- 9 - Encourage the development and dissemination of environmentally friendly technologies.

## LABOUR



- 3 - The companies should support the freedom of association and the effective recognition of the right to collective bargaining.
- 4 - The elimination of all forms of forced or compulsory labour.
- 5 - The effective abolition of child labour.
- 6 - Elimination of discrimination at work.



## ANTI-CORRUPTION

- 10 - The companies should fight corruption in all its forms, including extortion and bribery.

**WEG**  
PURPOSE

DEVELOP  
TECHNOLOGIES  
AND SOLUTIONS TO  
CONTRIBUTE TO THE  
BUILDING OF **A MORE  
EFFICIENT AND  
SUSTAINABLE  
WORLD.**




The scope of WEG Group solutions  
is not limited to products and solutions  
presented in this catalogue.  
**To see our portfolio, contact us.**

**For WEG's worldwide  
operations visit our website**



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The values shown are subject to change without prior notice.  
The information contained is reference values.