

Industrial Motors  
Commercial &  
Appliance Motors  
Automation  
Digital &  
Systems  
Energy  
Transmission &  
Distribution  
Coatings

# THIS IS WEG

**Products**  
and **solutions**  
portfolio



Driving efficiency and sustainability





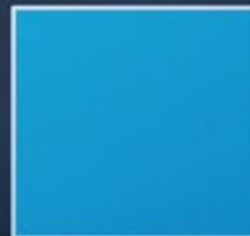


# At WEG, we always believe it is possible **to do better.**

Therefore, we work every day to make things better.  
All products, processes and developments are intended for the increase of efficiency.

Anytime, anyplace. **This is WEG.**

- Electrical & electronic components
- Industrial and building automation
- Low and high voltage generators and electric motors
- Transformers and substations
- Overhaul, recovery and repowering services for electric machines and transformers
- Liquid and powder paints
- Electro-insulating varnishes
- Hydraulic turbines
- Steam turbines and gearboxes
- Wind turbines
- Digital solutions and IoT platforms for the Industry 4.0
- 24/7 Service support





# Electric Motors and Gearboxes

Efficiency and reliability for the industry.

High performance with maximum energy efficiency. This is the most important feature of WEG's electric motors and gearboxes.

Considered as one of the world's largest electric motor manufacturers, this Business Unit offers solutions for several types of applications, from commercial and residential to industrial, always focusing on customer needs. The development of products focused on the real needs of customers results in a high degree of satisfaction due to the versatility, reliability and durability confirmed in the most severe applications.

In addition to commercializing its products through the network of Branches, Distributors and Agents, WEG provides service support to customers, after-sales services for specific applications and installations, through its qualified Service Agents Network.

## Efficiency

WEG manufactures a complete line of electric motors complying with and even exceeding all global markets required efficiency levels.

Our commitment to sustainability leads us to research new technologies to produce high efficiency products.

A simple company. Our vertical process guarantees the design and manufacture of an electric motor specially designed for your application, at the time you need it.

Improved efficiency motors providing higher reliability with lower operating cost, which results in a more effective production process.

## Reliability

WEG is a vertically integrated company, with the largest manufacturing site of electric motors in the world, all in one place.

Investments in research and technology innovation and continuous improvements in our production processes allow us to manufacture high reliability electric motors.

A qualified team of engineers is dedicated to design electric motors with:

- Higher efficiency.
- Reduced size, vibration levels and temperature.
- High reliability.
- Lower operating cost.

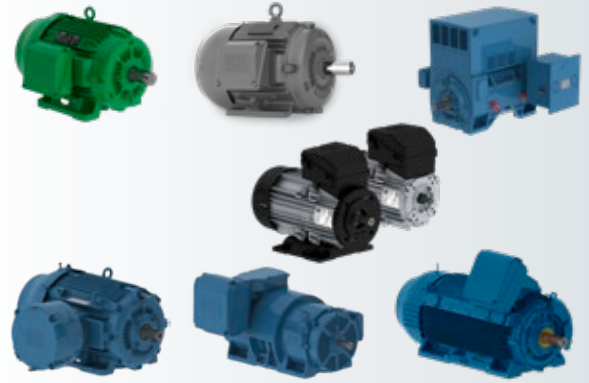
## Industrial motors

### General purpose

- Three-phase low voltage motors up to 1,250 kW
- Three-phase high voltage motors up to 1,800 kW

### Definite purpose

- For energy efficiency
- For hazardous areas: Ex db, Ex eb, Ex ec or Ex tb
- For the mining industry
- For continuous processing industries
- For the food & beverage, pharmaceutical or other industry which requires continuous cleaning
- For the steel industry
- For smoke extraction
- For industrial pump application
- For fan and exhaust application
- For the application with gearboxes
- For elevator traction



## Gearboxes

### General purpose

- Crown and worm gearboxes from 10 to 1,600 Nm
- Helical gearboxes from 50 to 18,000 Nm
- Industrial gearboxes from 7,500 Nm to 500,000 Nm

### Definite purpose

- Plastic extruder
- Cooling tower
- Irrigation pivot
- Milk mixer



## Appliance motors

- Washing machine (automatic and semi-automatic)
- Centrifugal machine
- Dryer
- Mini motor (open and enclosed)
- PM motor (for inverter air conditioner)
- Electric gate motor
- Fan and exhaust
- Air conditioner (Split and RAC)
- PSC (Permanent Split-Capacitor)
- CIM (Controlled Induction Motor)
- BLDC (Brushless Direct Current)
- WDD (Washer Direct Drive)
- DDM external rotor
- TL - external rotor
- Midway (Small & High)



## Commercial motors

- Single-phase motors up to 11 kW

### Definite purpose

- For lawn mower
- For high pressure washer
- For electric gates
- For the application in circular and pendulum saws
- For cement mixers
- For food processing machines
- For the application in commercial, residential or fuel pumps
- Jet pump
- Steel laminated motors
- Fuel pump
- Poultry fan
- W12
- ECM Motors
- Explosion proof
- W22 single phase
- Swimming pools and bathtubs



# Automation

Industrial systems increasing productivity.

Leader in the Brazilian market for frequency drives, soft-starters and MCCs, the Automation Business Unit develops solutions to increase the efficiency, productivity and competitiveness of its customers through process automation, with focus on operational safety and energy saving.

This Business Unit stands out as the largest manufacturer of Integrated Electric Systems in Brazil and is a reference in the supply of Automation Systems, Drives & Controls, Machine Safety, Critical Power, Building & Infrastructure, Electric Mobility and Solar Energy.

## Drives

- Frequency inverters
- Soft-starters
- Direct current converters
- Operation interfaces (MMIs)
- Programmable logic controllers (PLCs)
- Servodrives



## Electrical panels

- Training benches
- Full tested panels



## Controls

- Motors starting and protection
- Command and signaling
- Protection of electrical circuits
- Power Factor Correction Capacitors
- Electrical connections
- Industrial terminals, plugs and sockets



## Machine safety

- Security control systems
- Safety light curtains
- Safety blocks for presses
- Three-stage safety pedal
- Two-hand control
- Safety magnetic switch with radiofrequency
- Contactors for safety applications
- Programmable safety controller
- Safety relays
- Cable-operated emergency safety switch
- Emergency stop button with monitored contact
- Safety interlocking switches
- Compact disconnect switches
- Magnetic sensors with safety function
- Limit switches
- Zero-force electronic push buttons



## Critical power

- Nobreaks for residential, commercial and industrial use
- Medical/IT - Insulation and ground fault monitoring system
- Digital rectifier with microprocessor
- Sealed batteries VRLA



## Building & Infrastructure

- Residual current circuit breakers
- Minibreakers (from 3 up to 10 kA)
- Surge suppressors
- Distribution boards
- Sockets & Switches



## WEG Smart Home – Residential automation

- External, internal, and fixed internal cameras
- Universal remote control
- Door/window sensor and motion sensor
- Smart plug
- Shutter module
- Dimmer relay and switch relay
- Touch switch



## WCAM - Intrusion monitoring and control

- Analog cameras
- IP cameras
- Recorders
- Essential accessories



## Solar energy

- Solar drives
- Smart energy meters
- Solar integrated electric systems



# Digital & Systems

Optimized automation and electrification systems committed to efficiency and sustainability.

## Electrical panels

- Full tested panels
- Low voltage motor control centers (MCCs)
- E-houses
- MV panels
- Compact medium voltage protective switchgears
- Low voltage load centers
- Automation projects
- Shielded busbar





## Digital solutions

- Software and hardware for online monitoring of industrial assets
- Software and hardware for energy and utilities management
- WEGnology IoT Platform
- Intelligent computer vision systems
- Customized monitoring software
- Execution management



## Electric traction systems

- Motors for vehicle traction (light, utility, and heavy-duty vehicles)
- Frequency inverters for traction systems
- Battery packs



## Electric vehicle charging station

- WEMOB® WALL
- WEMOB® PARKING
- WEMOB® EASY
- WEMOB® SMART CHARGING SYSTEM



## Battery energy storage system (BESS)





## Flexible solutions for sustainable energy.

With the experience of more than 123,000 MVA of generators manufactured, the Energy Business Unit offers products for the most diverse applications, from a simple to complex machine drawings for indoors and outdoors environments. In addition to commercializing the products and solutions, this Business Unit is focused on specialized customer service a providing after-sales and technical support for different applications and installations.

### Sustainable energy

Efficient products that contribute to environment protection and generation of clean energy.



### Services

WEG offers repair, redesign and repowering services for electrical and mechanical machines, including other brands, which are carried out at the factory or in the field.

In addition to maintaining a wide range of specialized services in the field, the company counts on a network in charge for all after-sales support. These services include analysis of inquires, field services, including evaluation, machine commissioning and 24/7 support.

The service area counts on a qualified and duly trained team for the most diverse field situations and remote support, using the latest equipment, providing a reliable service.



## Generators

- Alternators for generator sets  
Power rating: from 7.5 kVA  
Voltages: from 220 to 13,800 V
- Hydrogenerators  
Power rating: up to 150,000 kVA  
Voltages: up to 13,800 V
- Turbogenerators  
Power rating: up to 200,000 kVA, 2 and 4 poles  
Voltages: up to 13,800 V



## Low and high voltage special industrial motors

- Induction motors  
Power rating: up to 50,000 kW  
Voltages: from 220 to 13,800 V
- Synchronous motors  
Power rating: up to 110,000 kW  
Voltages: from 220 to 13,800 V



## Hydraulic turbines

- Power rating: up to 50 MW
- Francis
- Kaplan
- Pelton

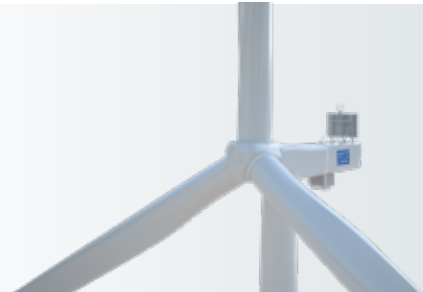


## Wind turbines

- Rated power: 4.2 and 7 MW
- Voltage: 34.5 kV

## Steam turbines

- Rated power up to 150 MW
- Action and reaction blading technology
- Counterpressure and condensation types
- Steam admission pressure up to 140 bar
- Steam admission temperature up to 565 °C
- Controlled steam extraction up to 70 bar
- Exhaust pressure between vacuum and 40 bar



## Gearboxes

- Planetary gearboxes
  - Models WPG and G3 Full
  - Sizes 150 to 620
  - Torque from 85 up to 10,000 kN.m
- Turbo gearboxes
  - Models RTS, RTM, ST and specials
  - Rated Power from 1 to 60 MW
  - Parallel shaft



## Speed multipliers

- Used in small hydro power plants and electric power generating plants





# Transmission & Distribution

Excellence in power supply technologies.

Transmission & Distribution Business Unit is focused on the industrial, renewable energy, transmission and distribution markets, offering products such as transformers, high voltage equipment and complete solutions, ranging from conventional turn-key substations to transformers, switch-disconnectors and mobile solutions, repair and repowering services, which represent an annual manufacturing capacity of approximately 76 GVAs.

## Excellence in technology

Ensuring customer satisfaction is what drives the company to strive for excellence.

The quality of the manufactured products, along with a team prepared to develop solutions, are factors that drive this Business Unit towards this goal: Excellence in Technology and Solutions, focused on Energy Supply.

## Integrated and complete solutions

- Products developed according to the specific needs of each customer.
- Interface with other products manufactured by the WEG Group.
- Availability of skilled labor and adequate structure to carry out repair and redesign services on the field.
- Experienced and qualified technical team, responsible for the turn-key substation projects, from the prospection, definition of the customer solution and projects management to its construction and assembly.



## Products

- High voltage disconnect switch  
Rated current: 5,000 A  
Rated voltage: 15 to 550 kV
- Distribution transformers  
Power ratings: 15 to 300 kVA  
Rated voltage: 15 / 24.2 or 36.2 kV
- Dry transformers  
Power ratings: 112.5 to 20,000 kVA  
Rated voltage: 15 / 24.2 or 36.2 kV
- Industrial transformers  
Power ratings: 500 to 5,000 kVA  
Rated voltage: 15 / 24.2 / 36.2 or 72.5 kV
- Pad mounted transformers  
Power ratings: 150 to 3,000 kVA  
Rated voltage: 15 / 24.2 or 36.2 kV
- Underground and submersible transformers  
Power ratings: 150 to 2,000 kVA  
Rated voltage: 15 / 24.2 kV or 36.2 kV
- Mini substations  
Power ratings: 100 to 1,000 kVA  
Rated voltage: up to 24.2 kV
- Power transformers and reactors  
Power ratings: above 5,000 kVA  
Rated voltage: up to 550 kV
- Furnace transformers and rectifier systems  
Power ratings: above 3,000 to 150,000 kVA  
Rated voltage: up to 36.2 kV (other voltages on request)  
Direct current: up to 150 kA (rectifiers)



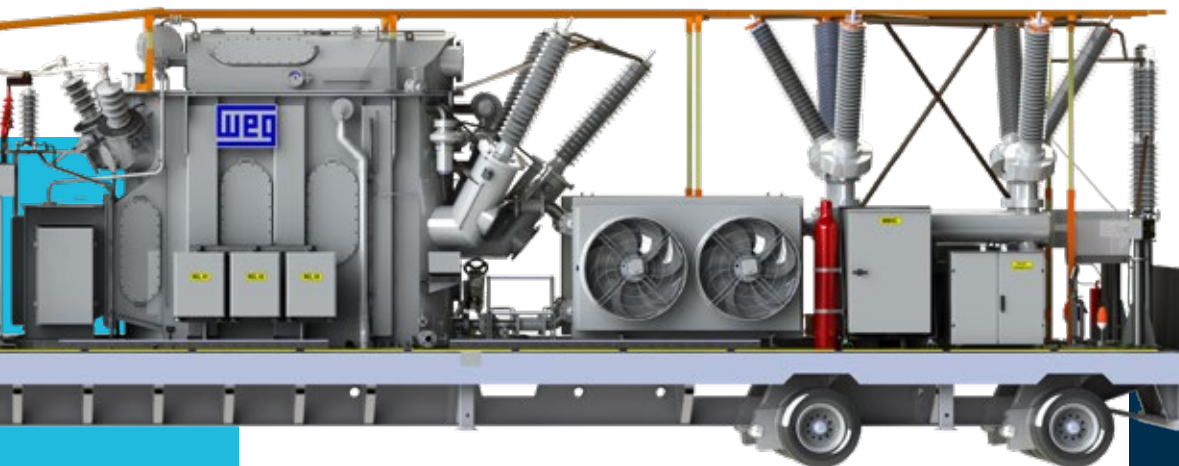
## Solutions

- Conventional substations  
Rated voltage: up to 550 kV  
Turn-key contracts
- Mobile solutions (substations, transformers and mobile bay)  
Rated voltage: up to 230 kV  
Turn-key contracts
- Transportable solutions (SKID)  
Rated voltage: 138 kV



## Services

- Repair and repowering of power transformers  
Rated voltage: up to 550 kV



# Industrial Paints and Varnishes

Paints offering full protection.

To offer integrated industrial solutions. This was the purpose that this Business Unit was created, which counts on a wide range of products, including liquid and powder paints, automotive paints and electroinsulating varnishes. Today, this Business Unit is among the largest paint producers in Latin America, and in Brazil is considered the largest powder coatings producer; with outstanding position in the market for marine and anti-corrosive paints.

## Our commitment

- To create opportunities for personal and professional development for all stakeholders.
- To be a responsible company, actively participating in community life and promoting the personal development of its employees.
- To invest in sustainable development.
- To be in line with international standards of innovation with low environmental impact.
- To create value for society attentive to the UN - SDG (Sustainable Development Goals).

## Main segments

WEG Tintas is present in oil platforms, ships, power plants, metal structures, agricultural machinery and implements, household appliances, leisure equipment, automotive repainting, road implements and auto parts, metal furniture, mirrors, plastics, glass, luminaires, fishing and leisure boats, among many other segments.

## Technology & Sustainability

Constantly investing in technology and committed to the environment, WEG leads in innovation by manufacturing increasingly sustainable and renewable coatings, promoting the preservation of natural resources. Through continuous training of our team and the adoption of Industry 4.0 machines and processes, we ensure shortened delivery times with the highest standards of quality. We are also committed to continuous improvement in our administrative and industrial processes with consistent actions of environmental, social, and corporate governance responsibility.



## Liquid paints

- Alkyd, epoxy, and polyurethane primers and finishes
- Baking enamels and high-temperature paints
- Epoxy for wet surfaces
- Anti-corrosive paints
- Marine paints
- Petrobras standardized paints
- Water-based paints
- Fire-retardant paints for wood and metal
- Paints for glass and mirrors
- Paints for plastics
- Wheel paints
- Paints for towers, blades, and wind turbines
- Floor paints



## Powder coatings

- Hybrid
- Epoxy
- Durable and super durable polyester
- Antimicrobial
- Zinc-rich
- Heavy metal free
- Low cure and ultra-low cure
- Thermochromic
- Fire-retardant
- High layer
- Anti-corrosive polyester
- TGIC-Free polyester



## Resins and varnishes

- Impregnation varnish
- Air-drying and oven-drying varnish
- Enamel for wires



## Automotive repainting

- W-Mix Color tintometric system
- W-Mix Color UHT
- Primers
- Basecoats
- Clearcoats
- Fillers and additives





# WEGdigital SOLUTIONS

## A new way to connect people, companies, and smart products.

For many years, we have been developing solutions to bring efficiency to the industry in various ways. The advent of the connectivity era has opened up a universe of opportunities for us to capture and analyze data. With this, a new chapter begins in our story.

Through the integration of technology, processes, and people, we have created WEG Digital Solutions. It is a platform that connects and integrates equipment and sensors, capable of collecting and storing various types of industry data.

With WEG Digital Solutions, monitoring and analyzing information can be done anytime, anywhere, facilitating decision-making processes.

It's the concept of Industry 4.0 put into practice, with smart factories utilizing big data, cloud computing, and the Internet of Things, accompanied by a differentiating factor: WEG expertise.

Regardless the size of your industry,  
we can help you:

### Scalable and flexible solutions

- Easy to implement regardless the type of industry.
- Flexible, custom-made solutions.

### WEG expertise

- We can contribute with operational efficiency increase for our partners and reduce losses in the most diverse industrial processes.

### Close to you

- We will help you to change from traditional industries to Industry 4.0.
- Share technologies and experiences with the best industrial companies.

Learn more at:

[www.weg.net/digital-solutions](https://www.weg.net/digital-solutions)







# This is **WEG**

Complete solutions for  
the industry, at the speed  
the market demands.

Every day, in every market segment: from small systems to large projects. Always paying attention to details, being proactive in problem-solving, and maintaining strong customer relationships. WEG is present worldwide with factories, commercial branches, an extensive network of technical assistance, and, in some way, in our daily lives, with technology in the production processes of various products.

With such responsibility, WEG maintains its focus on human beings and the preservation of the planet. Therefore, it invests in technology to develop innovative and reliable solutions that drive efficiency and sustainability anytime, anywhere.

## Certifications



ISO 9001  
ISO 14001  
ISO 50001  
ISO TS 16949







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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