

# THIS IS WEG

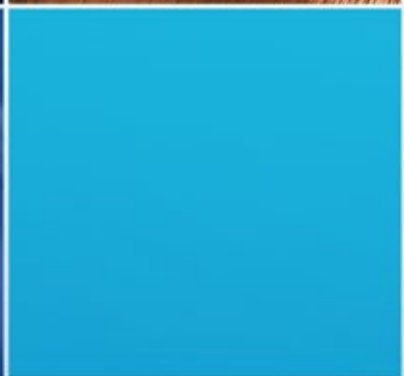
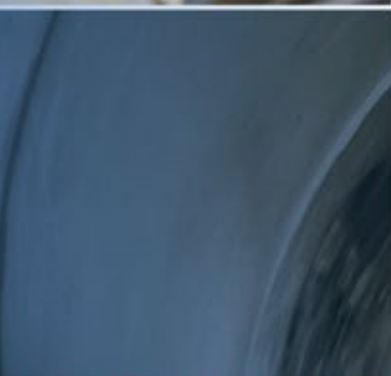
Industrial Motors  
Commercial &  
Appliance Motors  
Automation &  
Systems  
Energy  
Transmission &  
Distribution  
Coatings

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



Driving efficiency and sustainability



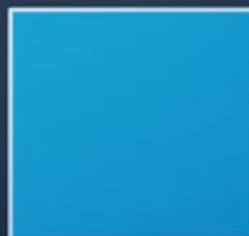


# At WEG, we always believe it is possible **to do better.**

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
- Synchronous condenser solution
- Services for hydro turbines, thermal turbines, and transmission systems
- Liquid and powder coatings
- Electro-insulating varnishes
- Hydro 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 delivering results

Performance and reliability are key attributes of WEG electric motor and gearbox solutions. Recognized as one of the world's leading manufacturers of electric motors, WEG serves applications ranging from residential and commercial installations to the most demanding industrial operations, always focused on meeting customer needs.

This integrated operation enables WEG to provide complete drive solutions by combining electric motors and gearboxes to ensure the ideal fit, optimum performance, and maximum reliability for every application.

Products developed based on real operating conditions result in versatile, rugged, and durable equipment, proven across a broad range of industrial applications. In addition, WEG maintains an extensive network of representatives, branches, and distributors, providing specialized technical support from product specification through after-sales service.

### Efficiency

WEG manufactures a complete line of electric motors complying with and even exceeding all global markets required efficiency levels. WEG's commitment to sustainability drives the continuous development of technologies that reduce energy consumption while increasing process productivity.

The proper combination of motor and gearbox maximizes energy efficiency by ensuring that torque and speed are precisely matched to the application's operating requirements.

### Reliability

WEG's vertically integrated manufacturing structure provides complete control over product development and production. Continuous investments in research, innovation, and process improvement enable the company to deliver solutions with outstanding reliability and consistently high performance.

For gearboxes, this translates into equipment engineered to withstand heavy-duty loads, operating variations, and harsh environments, with an emphasis on long service life and operational stability. The result is greater equipment availability, reduced maintenance requirements, and improved operational predictability.

## Industrial motors

### General purpose

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

### Definite purpose

- Energy efficiency
- Hazardous areas: protection type Ex db, Ex eb, Ex ec or Ex tb
- Mining industry
- Continuous processing industries
- The food & beverage, pharmaceutical or other industry which requires continuous cleaning

### W60 line

- Power rating: 185 to 16,000 kW
- Steel industry
- Smoke extraction
- Industrial pump application
- Fan and exhaust application
- Application with gearboxes
- Elevator traction



## Gearboxes

### General purpose

- Worm gear units  
Torque range: 10 to 1,500 Nm
- Geared motors  
Torque range: 50 to 18,000 Nm
- Industrial gearboxes  
Torque range: 7,500 to 530,000 Nm

### Dedicated lines

- Plastic extruder
- Cooling tower
- Hazardous areas  
Ex h (dust and gas)



## Appliance motors

- Washing machine (automatic and semi-automatic)
- Centrifugal machine
- Dryer
- Mini motor (open and enclosed)
- PM motor (for inverter air conditioner)
- 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)



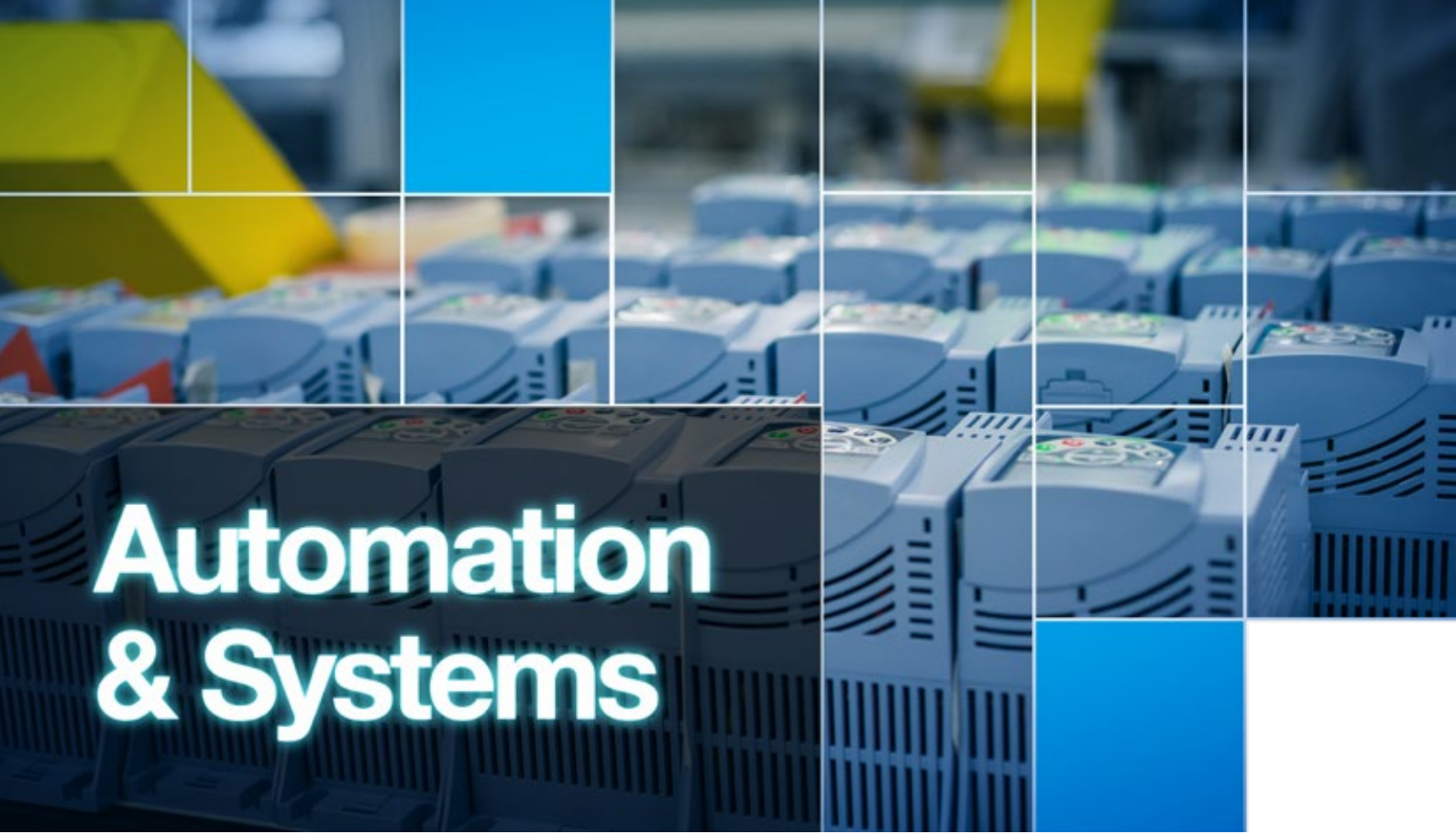
## Commercial motors

- Single-phase motors up to 11 kW for several applications:

### Definite purpose

- Lawn mower
- High pressure washer
- Electric gates
- Application in circular and pendulum saws
- Cement mixers
- Food processing machines
- 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 & Systems

## 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, always delivering operational safety and reliable power.

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 Automation, Home Automation, Intrusion Monitoring and Control, and Solar Energy.

### Drives

- Low and medium-voltage variable frequency drives
- Low and medium-voltage soft-starters
- Direct current converters
- Operation interfaces (HMIs)
- Programmable logic controllers (PLCs)
- Servodrives



### Electrical panels

- Training benches
- Fully tested panels for distribution and motor starting
- Distribution boards



## Motor starting, protection, control, and signaling

- Contactors rated up to 800 A (AC-3 duty) or 1,260 A (AC-1 duty)
- Motor protection circuit breakers, overload relays (thermal and electronic), and intelligent programmable relays rated up to 840 A
- Direct-on-line (DOL) motor starters housed in thermoplastic enclosures for motors up to 75 HP
- Complete range of pushbuttons, selector switches, and signaling devices (audible and visual), available in modular and monoblock designs
- Compact electronic relays (17.5 mm) for voltage monitoring (protection) and multiple timing functions
- Comprehensive portfolio of terminal blocks, industrial plugs, and sockets



## Electrical circuit protection

- Molded Case Circuit Breakers (MCCBs) up to 1,600 A
- Air Circuit Breakers (ACBs) up to 6,300 A
- Vacuum Circuit Breakers (VCBs) up to 2,500 A
- Multifunction power meters for energy measurement and management
- Fuses rated up to 800 V with short-circuit breaking capacity up to 200 kA
- Disconnect switches, including fuse-switch disconnectors, rated up to 1,250 A



## Power factor correction capacitors

- Capacitors for power electronics
- Permanent AC capacitors for motor starting and lighting applications
- Capacitor units and modules for power factor correction
- Capacitor banks for power factor correction
- Capacitor switching contactors
- Automatic power factor controllers
- Detuned reactors
- Thyristor capacitor switching devices
- Active harmonic filters for power factor correction



## 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
- 24 V power supplies
- Zero-force electronic push buttons



## Industrial sensors

- Inductive sensors
- Capacitive sensors
- Optical sensors
- Condition monitoring sensors
- Limit switches



## Critical power

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



## Building

- Class I and class II Surge Protective Devices (SPDs)
- Residual Current Devices (RCDs) up to 125 A
- Miniature Circuit Breakers (MCBs) up to 125 A
- Flush-mounted and surface-mounted 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



## **WAccess - Access control**

- Facial recognition terminals
- Turnstiles
- Barrier gates



## **Solar energy**

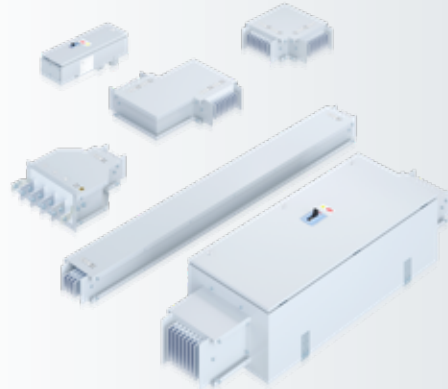
- Solar drives
- Smart energy meters
- Solar integrated electric systems



## 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
- WEMOB® STATION 60/80 kW
- WEMOB® STATION HPC
- WEMOB® STATION HPC Fleet



## Autonomous Mobile Robots (AMRs)

- WMR 150
- WMR 500



## Battery energy storage system (BESS)

- BESS C&I
- BESS C&I Engineered
- BESS Utility
- BESS Integrated Container





## Flexible solutions for sustainable energy

With the experience of more than 244,851 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, WEG is continuously committed to after-sales service through a specialized customer support network, providing technical assistance for product 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 inquiries, 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 4,200 kVA
  - Voltages: from 220 to 16,000 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



## Medium 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



## Hydro turbines

- Power rating: up to 100 MW
- Francis
- Kaplan
- Pelton



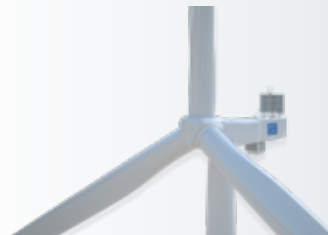
## Synchronous condensers

- Power rating:
  - Up to  $\pm 300,000$  kVar – 60 Hz
  - Up to  $\pm 270,000$  kVar – 50 Hz
- Degree of protection: IP23/IP24W to IP44/IP56
- Mounting arrangements: IM1001 or IM1005 (B3), IM7311 (D5), IM7315 (D6)
- Cooling methods: self-ventilated (air), air-to-water heat exchanger, air-to-air heat exchanger



## Wind turbines

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



## Steam turbines

- Rated output up to 180 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

- Applied in Hydroelectric Generating Plants (HGP) and Small Hydroelectric Power Plants (SHPP)





# Transmission & Distribution

## Excellence in power supply technologies

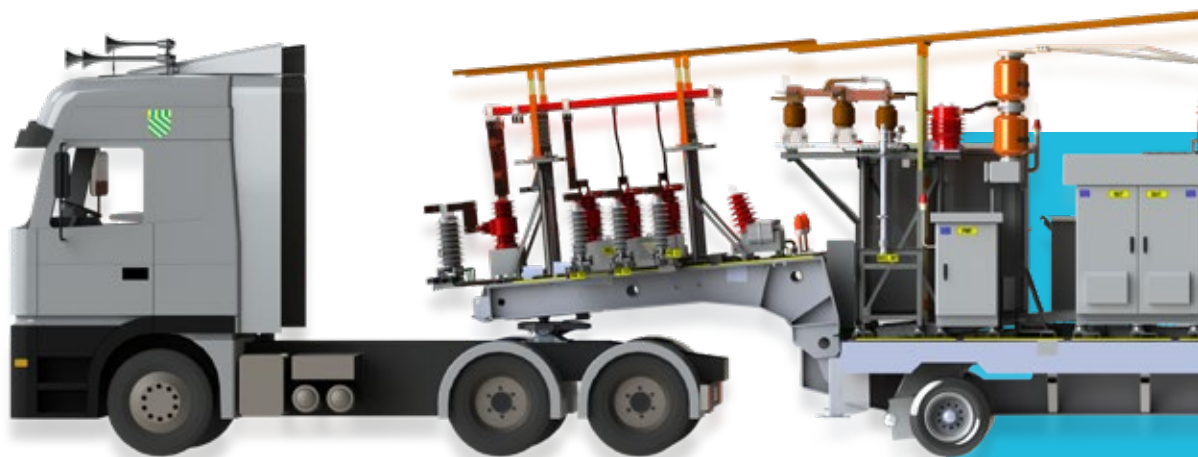
Present in the industrial and renewable energy sectors for power generation, transmission, and distribution, WEG offers a comprehensive portfolio of transformers rated up to 500 MVA, including instrument transformers, disconnect switches, conventional turnkey substations, digital substations, mobile and transportable substations, as well as transformer refurbishment and uprating services.

### Excellence in technology

- Latin America's largest transformer manufacturer.
- Brazilian market leader in mobile substation solutions.
- More than 100 GVA/year manufacturing capacity.

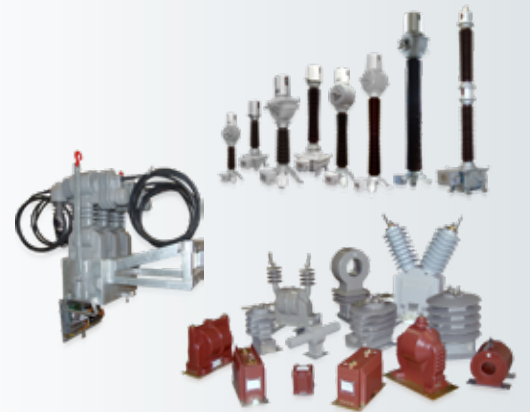
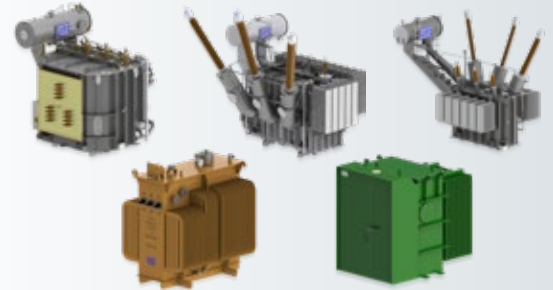
### Integrated and complete solutions

- 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)
- High-voltage current and inductive/capacitive voltage transformers
  - Rated voltage: 72 to 550 kV
- Low- and medium-voltage current and voltage transformers (internal and outside use)
  - Rated voltage: 0.6 to 36.5 kV
- Metering units
  - Rated voltage: 36 kV

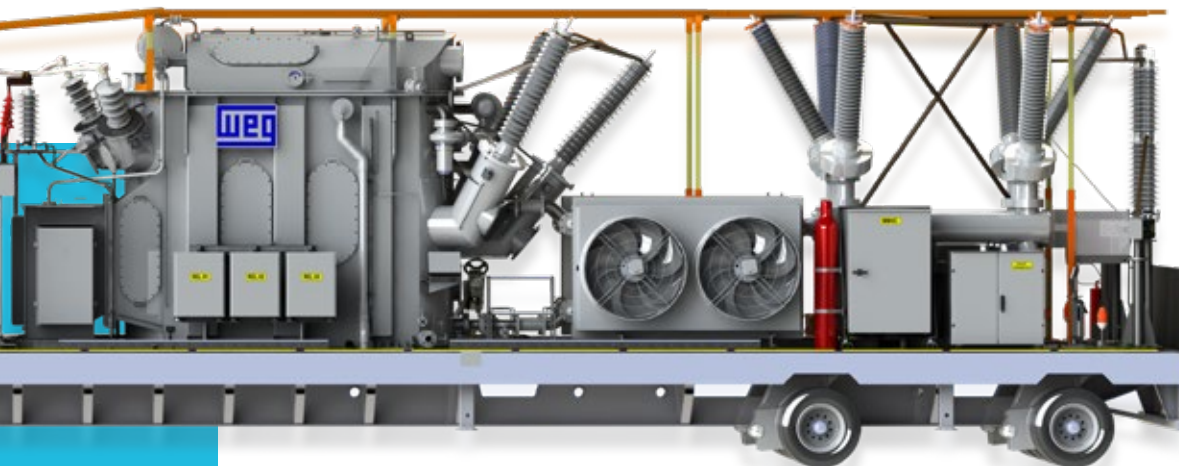


## Solutions

- 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
- WEG Transformer & Substation Management
  - Monitoring platform integrating the substation's main assets
- Substation protection, control, automation, and telecommunications systems
- WEG Substation Network Monitor

## Services

- Repair and repowering of power transformers
  - Rated voltage: up to 550 kV
- Commissioning, assembly, disassembly, field supervision maintenance, installation, on-site technical support





# Coatings

## Coatings offering full protection

Committed to providing integrated solutions, WEG Coatings offers a comprehensive portfolio of products and is one of the Latin America's largest coatings manufacturers. The company is Brazil's leading producer of powder coatings and electrical insulating varnishes, while also serving as a benchmark in marine coatings, anticorrosive coatings, and automotive refinish products.

### 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 Coatings 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, among many other segments.

### Technology & sustainability

Through continuous investments in technology and a strong commitment to environmental responsibility, WEG remains at the forefront of innovation by developing increasingly sustainable and renewable coating solutions that contribute to preserving natural resources.

Continuous employee training, combined with Industry 4.0 technologies and manufacturing processes, enables shorter lead times while maintaining the highest quality standards. WEG is also committed to the continuous improvement of its administrative and industrial processes through consistent environmental, social, and corporate governance (ESG) initiatives.



## Liquid paints

- Alkyd, epoxy, and polyurethane primers and finishes
- Baking enamels and high-temperature paints
- Epoxy for wet surfaces
- Anticorrosive
- Elastomeric protective coatings - WRAPX®
- For the marine sector
- Petrobras standardized paints
- Water-based paints
- Fire-retardant paints for wood and metal
- Paints for glass and mirrors
- Paints for plastics
- Paints for towers, blades, and wind turbines
- Floor and construction coatings
- Waterproofing coatings



## Powder coatings

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



## Resins and varnishes

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



## Automotive repainting

- W-Mix Color tintometric system
- Putties
- Primers
- Basecoats
- Clearcoats
- Complementary products





## 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.

Learn more at:

[www.weg.net/digital/blog/](http://www.weg.net/digital/blog/)



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/digitalsolutions](http://www.weg.net/digitalsolutions)





# 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 45001  
ISO 50001  
ISO TS 16949



# THE WORLD ASKS. WEG DELIVERS.

The world asks for change, and we are ready to deliver it. Because here, every innovation is born from our commitment to making the future a more sustainable place. Whether by making energy more efficient, industrial processes smarter, or driving renewable sources and transforming mobility. That's why, when companies and people ask for balance, awareness, and initiative, WEG delivers efficiency and sustainability.

[wegdelivers.com](http://wegdelivers.com)



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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.