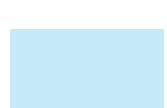
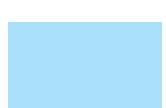
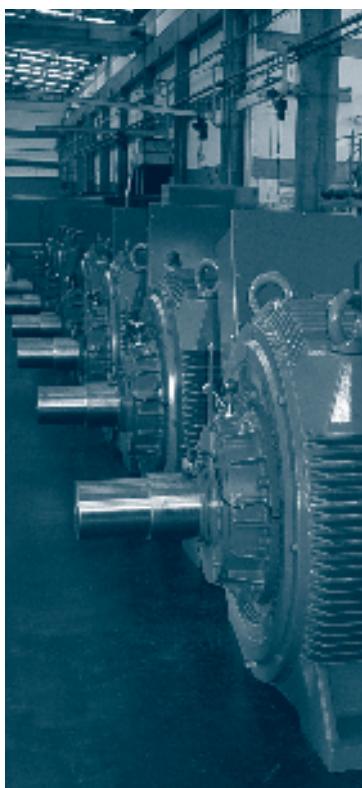
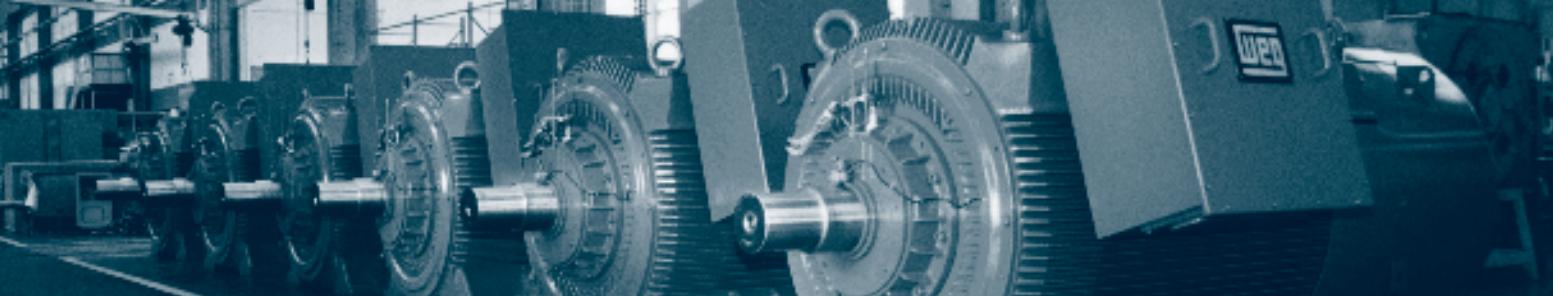


# Motors, Automation, Energy, Transmission & Distribution and Coatings

This is WEG





## Electric Motors

### General Purpose Motors

- **W22** TEFC cast iron frame, three-phase, LV motors - 0.12 to 500 kW
- **W22** TEFC cast iron frame, three-phase, MV motors - 90 to 440 kW
- **HGF** TEFC cast iron frame, three-phase, LV and MV motors - 90 to 3,150 kW
- **ODP** cast iron frame, three-phase, LV motors - 11 to 370 kW
- **ODP** cast iron frame, three-phase, MV motors - 250 to 560 kW
- **WQuattro** TEFC cast iron frame, three-phase, LV motors hybrid (permanent magnets + squirrel cage) motors - 0.37 to 7.5 kW
- **WMagnet** TEFC cast iron frame, three-phase, LV motors permanent magnet motors - 11 to 160 kW
- **Steel Motor** TEFC and ODP steel frame, single and three-phase, LV motors - 0.12 to 15 kW



### Hazardous Area Motors

- **Flameproof** TEFC cast iron frame, three-phase, LV motors - 0.37 to 330 kW
- **Brake Flameproof** TEFC cast iron frame, three-phase, LV motors - 2.2 to 18.5 kW
- **W22Xd** TEFC cast iron frame, three-phase, LV and MV motors - 75 to 1,500 kW
- **Non-Sparking (Ex nA and Ex tb)** TEFC cast iron frame, LV motors - 0.12 to 3,150 kW
- **Increased Safety (Ex e)** TEFC cast iron frame, three-phase, LV motors - 0.18 to 100 kW
- **Dust Ignition Proof (Ex tc)** TEFC cast iron frame, three-phase, LV motors - 0.12 to 300 kW

### Definite Purpose Motors

- **WMining** TEFC cast iron frame, three-phase, LV and MV motors - 0.12 to 3,150 kW
- **IEEE-841** TEFC cast iron frame, three-phase, LV motors - 0.75 to 220 kW
- **Roller Table** TENV cast iron frame, three-phase, LV motors - 1.1 to 290 kW
- **Crusher Duty** TEFC cast iron frame, three-phase, LV motors - 37 to 375 kW
- **Compressor Duty** ODP steel frame, single-phase, LV motors - 0.37 to 3.7 kW
- **Cooling tower** TEFC cast iron frame, three-phase, LV motors - 0.75 to 75 kW
- **Fire Pump** TEFC and ODP cast iron or steel frame, single and three-phase, LV motors - 0.75 to 370 kW
- **Water Cooled** TEWC cast iron frame, three-phase, LV motors - 18.5 to 450 kW
- **Close-coupled Pump JM/JP** TEFC cast iron frame, three-phase, LV motors - 1.5 to 55 kW
- **Jet Pump JM/JP** ODP steel frame, single and three-phase, LV motors - 0.09 to 2.2 kW
- **Fan and Exhaust** TEAO cast iron frame, three-phase, LV motors - 0.12 to 330 kW
- **Wwash** TEFC cast iron frame, three-phase, LV motors - 0.12 to 0.37 kW
- **Gear Motor** TEFC cast iron frame, three-phase, LV motors - 0.12 to 11 kW
- **Brake Gear Motor** TEFC cast iron frame, three-phase, LV motors - 0.12 to 11 kW
- **Fuel Pump** TEFC cast iron frame, single and three-phase, LV motors - 0.55 to 0.75 kW
- **Smoke Extraction** TEFC and TEAO cast iron frame, three-phase, LV motors - 0.12 to 500 kW
- **Saw Arbor** TEFC cast iron frame, single and three-phase, LV motors - 2.2 to 7.5 kW
- **W22 Multispeed** (Dahlander, Double wound or Triple Speed) TEFC cast iron or aluminum frame, three-phase, LV motors - 0.18 to 120 kW
- **Brake** TEFC cast iron frame, three-phase - 0.12 to 37 kW
- **Brake** TEFC aluminum multi-mounting frame, three-phase - 0.12 to 9.2 kW



### Gearboxes and Geared Motors

- Helical geared motors** - Power: 0.12 - 55 kW / Torque: 100 - 14,000 Nm / Ratio: 2.4 - 13,500
- Shaft Mounted Geared Motor** - Power: 0.12 - 30 kW / Torque: 27 - 2,800 Nm / Ratio: 0.8 - 4,000
- Parallel Shaft Geared Motor** - Power: 0.12 - 55 kW / Torque: 5,000 - 14,000 Nm / Ratio: 4 - 18,800
- Helical Bevel Geared Motor** - Power: 0.12 - 90 kW / Torque: 100 - 20,000 Nm / Ratio: 5.5 - 8,600
- Helical Worm Geared Motor** - Power: 0.12 - 7.5 kW / Torque: 50 - 1,300 Nm / Ratio: 3 - 3,400



### Appliance Motors

- **Mini Motors** for HVAC applications (heat, ventilation and air conditioning systems)
- **Washing Machine motors**
- **Air Conditioning motors**
- **Electronic Gate motors**



## Automation Technologies

### Products

- Contactors and thermal overload relays up to 800 A (AC-3)
- Motor protective circuit-breakers up to 100 A (breaking capacity up to 100 kA)
- Enclosed starters (plastic and metallic enclosures) up to 75 kW
- Customized starters for OEM application
- Smart-relay motor-protector
- Pushbuttons, selector switches and pilot lights
- Electronic timing, monitoring and level relays
- aR and gL/gG fuses
- Miniature circuit-breakers up to 100 A (breaking capacity of 10 kA)
- Surge suppressors (up to 60 kA)
- Distribution boards
- Molded case circuit-breakers up to 1,600 A (breaking capacity up to 80 kA)
- Air circuit-breakers up to 6,300 A (breaking capacity up to 100 kA)
- Switch disconnectors up to 160 A
- Permanent capacitors for motor-run and lighting
- Capacitors for power factor correction
- Energy multimeter and power factor controller
- PLC - Programmable Logic Controllers and Human Machine Interfaces
- Low voltage variable frequency drives (power ratings from 0.18 to 2,200 kW)
- Low voltage and medium voltage motor control center (7.2 kV/50 kA)
- MVW01 - medium voltage variable frequency drives (power ratings from 400 to 12,000 kW rated for voltage range of 2.3 to 6.9 kV)
- CCW-05 medium voltage switchgear (24 kV/16 kA)
- Soft-starters (power ratings from 0,55 to 1,800 kW)
- SSW7000 - medium voltage soft-starters (power ratings from 560 to 3,550 kW rated for 6.9 kV)
- AC/DC converters (current ratings from 6 to 2,000 A)
- AFW11C/AFW11 - variable speed CFW11 mounted in panel (power ratings from 560 to 3,550 kW)
- AFW11M - variable speed CFW11 modular (power ratings from 315 to 2,000 kW)
- APW11 - variable speed CFW11 free-standing (power ratings from 55 to 400 kW)
- Servomotors and AC servoconverters (torque ratings from 1.6 to 50 Nm)
- Low voltage panels
- SEI - Integrated Electrical Systems
- Medium voltage switchgears
- ECW500 - voltage regulator for synchronous motors and generators
- Industrial sensors and power supplies
- Safety line
- Uninterruptable power supply
- Multi-drives HMI

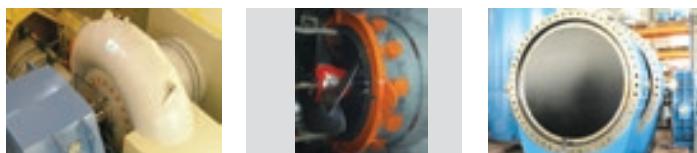




## Power Generation

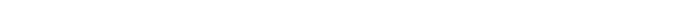
### Products

- Hydrogenerators
  - Outputs up to 150,000 kVA
  - Voltages up to 13,800 V
- Turbogenerators
  - Outputs up to 150,000 kVA
  - Voltages up to 13,800 V
- Synchronous Alternators - G Plus Line
  - Outputs from 7.5 kVA
  - Voltages from 220 to 13,800 V
- Low and High Voltage Induction Motors
  - Outputs up to 50,000 kW
  - Voltages from 220 to 13,800 V
- Synchronous Motors
  - Outputs up to 110,000 kW
  - Voltages from 220 to 13,800 V
- DC Motors
  - Outputs up to 10,000 kW
  - Voltages from 110 to 1,000 V
- Hydraulic Turbines
  - Power limited 120 MW
  - Francis
  - Kaplan (open pit e downstream or upstream)
  - Pelton
  - Hydro-mechanical
  - Penstock
  - Butterfly valve
  - Stop log



### Service

- Repair and up-rate service in Medium and Large size Electric Rotating Machines (Induction Motors, LV/HV Generators, DC Motors)





## Power Transmission & Distribution

### Products

- Power transformers and reactors  
Powers: above 5,000 kVA  
Rated voltage: up to 550 kV
- Industrial transformers  
Powers: 500 to 5,000 kVA  
Rated voltage: 15, 24.2, 36.2 or 72.5 kV
- Distribution transformers  
Powers: 15 to 300 kVA  
Rated voltage: 15, 24.2 or 36.2 kV
- Disconnectors  
Rated voltage: 15 to 550 kV  
Rated current: up to 4,000 A  
Rated short-circuit current: up to 40 kA  
(other currents on request)
- Dry-type (cast resin) transformers  
Powers: 300 to 20,000 kVA  
Rated voltage: 15, 24.2 or 36.2 kV
- Underground and submersible transformers  
Powers: 150 to 2,000 kVA  
Rated voltage: 15 or 24.2 kV
- Arc furnace transformers and rectifier systems  
Powers: 3,000 to 150,000 kVA  
Rated voltage: up to 36.2 kV  
(*other voltages on request*)  
Rated current: up to 150 kA (rectifiers)



### Solutions

- Conventional and mobile substations and mobile transformers  
Rated voltage: up to 550 kV  
Turn-key projects



### Services

- Retrofitting and rerating in power transformers  
Rated voltage: up to 550 kV

Some equipment above is available on request.





## Industrial Paints

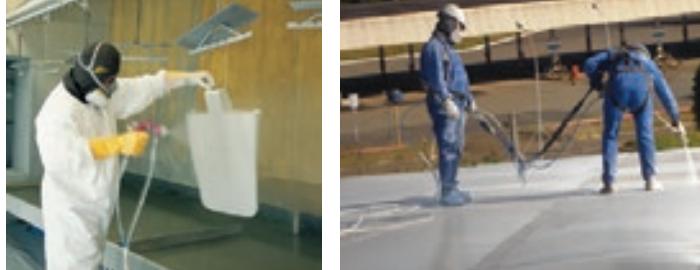
### Liquid Paints

- Primer paints and alkyd, epoxy and polyurethane finished paints
- High temperature and oven dry paints
- Wet surfaces epoxy paints
- Anticorrosive paints
- Marine paints
- Petrobras standardized paints
- Hydrosoluble paints



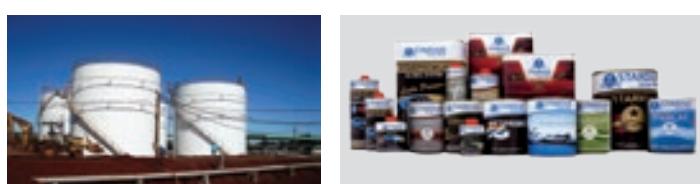
### Powder Coatings

- Hybrid powder coatings
- Epoxy powder coatings
- Polyester powder coatings
- Antimicrobial powder coatings
- Zinc rich powder coatings
- Heavy metals free powder coatings
- Thermochromic powder coating
- Anti Flame powder coating



### Automotive Refinishing

- Repair pastes
- Primers
- Paints
- Mixing system
- Polishing
- Water based paints



### Electro Insulating Varnishes

- Impregnation varnishes
- Wire insulation enamels
- Wire enamel





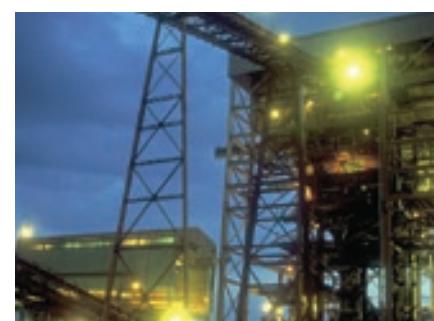
## The Global Solution with electric machines and automation for the industry and energy systems.

The complete solution that industry needs at the speed the market demands. From small systems to large projects, WEG takes a proactive and detailed approach to solving problems while building open and honest relationships with customers.

Covering all market segments with factories, branches and technical service located around the world, WEG is present in one way or another in everyone's day-to-day life.

Taking responsibility for the preservation of our planet and people, WEG continually invests in the technology necessary to develop more efficient and environmentally friendly electrical solutions.

Any time, any place. Your challenge is ours. This is WEG.



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France



Prüf- und Zertifizierungsinstitut



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CSA



UL



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Belgium



SABS



Europe



CE



PESO / CCoE  
India



IECEx  
Global



AENOR  
Asociación Española de  
Normalización y Certificación



ANCE



FIDE



NOM



GOST  
Russia  
Kazakhstan  
Belarus



Australia



Argentina



Canada

# WEG Worldwide Operations

## ARGENTINA

WEG EQUIPAMIENTOS ELECTRICOS  
San Francisco - Cordoba  
Phone: +54 3564 421 484  
[info-ar@weg.net](mailto:info-ar@weg.net)  
[www.weg.net/ar](http://www.weg.net/ar)

WEG PINTURAS - Pulverlux  
Buenos Aires  
Phone: +54 11 4299 8000  
[tintas@weg.net](mailto:tintas@weg.net)

## AUSTRALIA

WEG AUSTRALIA  
Victoria  
Phone: +61 3 9765 4600  
[info-au@weg.net](mailto:info-au@weg.net)  
[www.weg.net/au](http://www.weg.net/au)

## AUSTRIA

WATT DRIVE - WEG Group  
Markt Pleising - Vienna  
Phone: +43 2633 404 0  
[watt@watdrive.com](mailto:watt@watdrive.com)  
[www.watdrive.com](http://www.watdrive.com)

## BELGIUM

WEG BENELUX  
Nivelles - Belgium  
Phone: +32 67 88 84 20  
[info-be@weg.net](mailto:info-be@weg.net)  
[www.weg.net/be](http://www.weg.net/be)

## BRAZIL

WEG EQUIPAMENTOS ELÉTRICOS  
Jaraguá do Sul - Santa Catarina  
Phone: +55 47 3276-4002  
[info-br@weg.net](mailto:info-br@weg.net)  
[www.weg.net/br](http://www.weg.net/br)

## CHILE

WEG CHILE  
Santiago  
Phone: +56 2 784 8900  
[info-cl@weg.net](mailto:info-cl@weg.net)  
[www.weg.net/cl](http://www.weg.net/cl)

## CHINA

WEG NANTONG  
Nantong - Jiangsu  
Phone: +86 0513 8598 9333  
[info-cn@weg.net](mailto:info-cn@weg.net)  
[www.weg.net/cn](http://www.weg.net/cn)

## COLOMBIA

WEG COLOMBIA  
Bogotá  
Phone: +57 1 416 0166  
[info-co@weg.net](mailto:info-co@weg.net)  
[www.weg.net/co](http://www.weg.net/co)

## FRANCE

WEG FRANCE  
Saint Quentin Fallavier - Lyon  
Phone: +33 4 74 99 11 35  
[info-fr@weg.net](mailto:info-fr@weg.net)  
[www.weg.net/fr](http://www.weg.net/fr)

## GERMANY

WEG GERMANY  
Kerpen - North Rhine Westphalia  
Phone: +49 2237 9291 0  
[info-de@weg.net](mailto:info-de@weg.net)  
[www.weg.net/de](http://www.weg.net/de)

## GHANA

ZEST ELECTRIC GHANA  
WEG Group  
Accra  
Phone: +233 30 27 664 90  
[info@zestghana.com.gh](mailto:info@zestghana.com.gh)  
[www.zestghana.com.gh](http://www.zestghana.com.gh)

## INDIA

WEG ELECTRIC INDIA  
Bangalore - Karnataka  
Phone: +91 80 4128 2007  
[info-in@weg.net](mailto:info-in@weg.net)  
[www.weg.net/in](http://www.weg.net/in)

## ITALY

WEG ITALIA  
Cinisello Balsamo - Milano  
Phone: +39 02 6129 3535  
[info-it@weg.net](mailto:info-it@weg.net)  
[www.weg.net/it](http://www.weg.net/it)

## JAPAN

WEG ELECTRIC MOTORS  
JAPAN  
Yokohama City - Kanagawa  
Phone: +81 45 550 3030  
[info-jp@weg.net](mailto:info-jp@weg.net)  
[www.weg.net/jp](http://www.weg.net/jp)

## MALAYSIA

WATT EURO-DRIVE - WEG Group  
Shah Alam, Selangor  
Phone: 603 78591626  
[info@wattdrive.com.my](mailto:info@wattdrive.com.my)  
[www.wattdrive.com](http://www.wattdrive.com)

## MEXICO

WEG MEXICO  
Huehuetoca  
Phone: +52 55 5321 4231  
[info-mx@weg.net](mailto:info-mx@weg.net)  
[www.weg.net/mx](http://www.weg.net/mx)

## VOLTRAN

- WEG Group  
Tizayuca - Hidalgo  
Phone: +52 77 5350 9354  
[www.voltran.com.mx](http://www.voltran.com.mx)

## NETHERLANDS

WEG NETHERLANDS  
Oldenzaal - Overijssel  
Phone: +31 541 571 080  
[info-nl@weg.net](mailto:info-nl@weg.net)  
[www.weg.net/nl](http://www.weg.net/nl)

## PERU

WEG PERU  
Lima  
Phone: +51 1 472 3204  
[info-pe@weg.net](mailto:info-pe@weg.net)  
[www.weg.net/pe](http://www.weg.net/pe)

## PORTUGAL

WEG EURO  
Maia - Porto  
Phone: +351 22 9477705  
[info-pt@weg.net](mailto:info-pt@weg.net)  
[www.weg.net/pt](http://www.weg.net/pt)

## RUSSIA and CIS

WEG ELECTRIC CIS  
Saint Petersburg  
Phone: +7 812 363 2172  
[info-ru@weg.net](mailto:info-ru@weg.net)  
[www.weg.net/ru](http://www.weg.net/ru)

## SOUTH AFRICA

ZEST ELECTRIC MOTORS  
WEG Group  
Johannesburg  
Phone: +27 11 723 6000  
[info@zest.co.za](mailto:info@zest.co.za)  
[www.zest.co.za](http://www.zest.co.za)

## SPAIN

WEG IBERIA  
Madrid  
Phone: +34 91 655 30 08  
[info-es@weg.net](mailto:info-es@weg.net)  
[www.weg.net/es](http://www.weg.net/es)

## SINGAPORE

WEG SINGAPORE  
Singapore  
Phone: +65 68589081  
[info-sg@weg.net](mailto:info-sg@weg.net)  
[www.weg.net/sg](http://www.weg.net/sg)

## SCANDINAVIA

WEG SCANDINAVIA  
Kungsbacka - Sweden  
Phone: +46 300 73 400  
[info-se@weg.net](mailto:info-se@weg.net)  
[www.weg.net/se](http://www.weg.net/se)

## UK

WEG ELECTRIC MOTORS U.K.  
Redditch - Worcestershire  
Phone: +44 1527 513 800  
[info-uk@weg.net](mailto:info-uk@weg.net)  
[www.weg.net/uk](http://www.weg.net/uk)

## UNITED ARAB EMIRATES

WEG MIDDLE EAST  
Dubai  
Phone: +971 4 813 0800  
[info-ae@weg.net](mailto:info-ae@weg.net)  
[www.weg.net/ae](http://www.weg.net/ae)

## USA

WEG ELECTRIC  
Duluth - Georgia  
Phone: +1 678 249 2000  
[info-us@weg.net](mailto:info-us@weg.net)  
[www.weg.net/us](http://www.weg.net/us)

## ELECTRIC MACHINERY

WEG Group  
Minneapolis - Minnesota  
Phone: +1 612 378 8000  
[www.electricmachinery.com](http://www.electricmachinery.com)

## VENEZUELA

WEG INDUSTRIAS VENEZUELA  
Valencia - Carabobo  
Phone: +58 241 821 0582  
[info-ve@weg.net](mailto:info-ve@weg.net)  
[www.weg.net/ve](http://www.weg.net/ve)

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WEG Group  
Jaraguá do Sul - SC - Brazil  
Phone: +55 (47) 3276-4000  
[info-br@weg.net](mailto:info-br@weg.net)  
[www.weg.net](http://www.weg.net)

