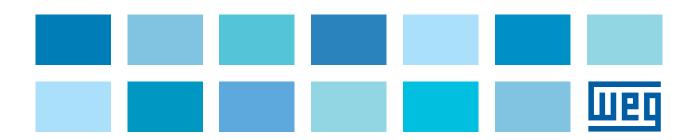


Solutions for Oil and Gas



Solutions for Oil and Gas

You will find at WEG complete solutions in motors, generators, automation and industrial paints. Besides offering state-of-the-art products, the company has the expertise to provide technical support and prompt service all over the world.







(Refinement, Storage/Transport and Distribution)

- Solutions for refinement
 Solutions for storage and transport of oil and gas
 Solutions for distribution



Motors

Due to mechanical design flexibility, WEG motors can comply in a more suitable way to operational requirements for oil and gas applications resulting in easy interchangeability with existing motors, quick installation and low maintenance cost.

Low and Medium Voltage Motors

M Line

- Power ratings up to 50,000 kW
- Voltages up to 13,800 V
- Speed: 300 to 3600 rpm

H Line

- Power ratings up to 3150 kW
- Voltages up to 11,000 V
- Speed: 600 to 3600 rpm

Applications

- Water Injection Pumps
- Crude Oil Exportation Pumps
- Sea Water Lift Pumps
- Fire Fighting Pumps
- Cooling towers pumps
- Compressors

Synchronous Motors

Optimized designs, usually applied in pumps and high power compressors. Synchronous motors are used in the extraction, refinement and compression of oil and gas.

- Power ratings up to 50,000 kW
- Voltages up to 13,800 V
- Speed: 180 to 1800 rpm

Explosion-Proof Motors W22XB and W22XC

Low and medium voltage motors, lines W22XB and W22XC offer a complete solution with 2, 4, 6 and 8 poles:

- Ex-d / Ex-de Group II B Zone: 1, 2, 21 and 22 Power ratings up to 1500 kW
- Power ratings up to 1500 kw
 Voltages from 230 to 13,800 V
- Ex-d / Ex-de Group II C Zone: 1,2, 22 and 21 (on request)
- Power ratings up to 1500 kW
- Voltages from 230 to 13,800 V

Ex Motors to be used with Frequency Drives

Explosion-proof motors (Ex-d) and non Sparking (Ex-n) meeting the following characteristics:

- Speed range from 6 to 70 Hz (6 to 60Hz for 2 poles).
- Ex-d Motors for areas classified as Zone 1 (IEC), Group IIA/ IIB, temperature class T4 and ambient temperature up to 60°C.
- The Ex-n Motors can operate in areas classified as Zone 2, Group IIA / IIB / IIC - T3 (IEC), temperature class T3 and ambient temperature up to 40°C.

In-Line Extra Thrust motors

Output_lratings from 1 to 150 HP.

























Each design has its specialty and in most cases can be certified to meet explosive atmospheres and marine application.



Energy

WEG has the expertise of providing integrated solutions to drive all plant equipment which are developed with high quality of standards and state-of-the-art technology that is required worldwide for the oil and gas industry. Additionally the company can offer technical support in efficient solutions for power energy, in electric systems and high voltage substations in turn-key systems.

Turbo-generators – S Line

On a modern laboratory with testing capacity up to 20,000 MVA and voltages from 2300 to 15,000 V, WEG can provide high precision computer monitorized tests, fast results and analysis for continuous optimizations for our turbogenerators used in oil and gas industry.

Applications

- Main and Emergency Generators
- Power ratings: up to 62,500 kVA
- Voltages: up to 15,000 V, 50 or 60 Hz
- Degree of Protection: IP23 to IP56W
- Rotation: 1500 until 1800 rpm
- Mounting: Horizontals (B3, D5, D6)

Dry Transformers

With power ratings from 300 to 15,000 kVA and voltage class: 15; 24.2 or 36.2 kV the dry transformers are designed for environments that require reliability and safety. Applications

- Main and Lighting Transformer
- Supply of motors and frequency drives
- Industrial, chemical and petrochemical plants
- Offshore platforms
- Vessels
- Water treatment units

Oil Transformers

For generation, transmission and distribution of energy, WEG has oil transformers with voltage classes up to 550 kV.













Automation

Incorporating the most advanced technology available worldwide for speed variation and performance on start and stop of electric motors, WEG has the complete solution for several oil and gas applications allowing control, safety and easy operation.

Medium Voltage Motor Control Center - MCCs

- Assembled and tested for voltages from 2.3 kV to 36 kV
- Main protection and shut down of plants and industrial facilities
- Pumping stations
- Medium voltage motors starting
- Substations
- Switchboard panels
- Fixed and variable bank of capacitors

Low Voltage Motors Control Center

Designed with a high standardization level, this product allows easy assembly, installation, maintenance, future expansions and interchangeability of units of the same MCC model with same size and function.

Medium Voltage Frequency Drive - MVW-01

The MVW-01 Frequency Inverter is designed with state-ofthe art technology and a multilevel structure with high voltage IGBTs (6.5 kV), thus reducing motor harmonic currents to extremely low levels.

Low Voltage Modular Drive - CFW11

Available in power ratings from 400 up to 2500 HP and voltages from 380 up to 690 V with input rectifier of 6 pulses, 12 pulses or regenerative, the CFW-11M is the new generation of drives for high power ratings.

The modular construction allows to configuration AFW-11M (modular drive) according to the power rating required by the customer. The concept used for modules in the book format (width much smaller than the depth) also allows high level of drive size reduction.

Low Voltage Soft-Starter - SSW-06

The SSW-06 Soft-Starter series are static equipment for acceleration, deceleration and protection of three-phase induction motors. With the appropriate adjustment of the variables, the torque generated is adjusted to the load requirements, assuring that the required current is the minimum needed for starting.

Motor - Circuit Breaker MPW16, MPW25, MPW65 and MPW100

- Solution for protection of the electrical circuit and starting/protection of motors up to 40 HP in 220 V and 75 HP with 380/440 V
- Adjustable thermal release for motor protection against overload with differential mechanism sensitive for single phase (IEC 60947-4-1)
- Magnetic trip (protection of short -circuit) fixed at 12xln
- High interruption capacity















Services

The company has the expertise to provide repair, commissioming and start-up services.

Service Range

- DC motors and generators up to 10,000 kW
- Three-phase induction motors (squirrel cage) up to 50,000 kW (low, medium and high voltage)
- Synchronous motors (with or brushless) up to 50,000 kW (low, medium and high voltage)
- Turbo-generators up to 62,500 kVA
- Hydro generators up to 200,000 kVA
- Power transformers in voltage classes up to 550 kV



Companies that have approved WEG



Worldwide companies



WEG Worldwide Operations

ARGENTINA

WEG EQUIPAMIENTOS ELECTRICOS S.A. (Headquarters San Francisco-Cordoba) Sgo. Pampiglione 4849 Parque Industrial San Francisco 2400 - San Francisco Phone(s): +54 (3564) 421484 Fax: +54 (3564) 421459 info-ar@weg.net www.weg.net/ar

AUSTRALIA

WEG AUSTRALIA PTY. LTD. 3 Dalmore Drive Carribean Park Industrial Estate Scoresby VIC 3179 - Melbourne Phone(s): 61 (3) 9765 4600 Fax: 61 (3) 9753 2088 info-au@weg.net www.weg.net/au

BELGIUM

WEG BENELUX S.A. Rue de l'Industrie 30 D, 1400 Nivelles Phone(s): + 32 (67) 88-8420 Fax: + 32 (67) 84-1748 info-be@weg.net www.weg.net/be

CHILE

WEG CHILE S.A. Los Canteros 8600 La Reina - Santiago Phone(s): (56-2) 784 8900 Fax: (56-2) 784 8950 info-cl@weg.net www.weg.net/cl

CHINA

WEG (NANTONG) ELECTRIC MOTOR MANUFÁCTURING CO., LTD. No. 128# - Xinkai South Road, Nantong Economic & Technical Development Zone, Nantong, Jiangsu Province. Phone(s): (86) 0513-85989333 Fax: (86) 0513-85922161 info-cn@weg.net www.weg.net/cn

COLOMBIA

WEG COLOMBIA LTDA Calle 46A N82 - 54 Portería II - Bodega 7 - San Cayetano II - Bogotá Phone(s): (57 1) 416 0166 Fax: (57 1) 416 2077 info-co@weg.net www.weg.net/co

FRANCE

WEG FRANCE SAS ZI de Chenes - Le Loup 13 Rue du Morellon – BP 738 38297 Saint Quentin Fallavier Phone(s): +33 (0) 4 74 99 11 35 Fax: +33 (0) 4 74 99 11 44 info-fr@weg.net www.weg.net/fr

GERMANY

WEG GERMANY GmbH Industriegebiet Türnich 3 Geigerstraße 7 50169 Kerpen-Türnich Phone(s): +49 (0)2237/9291-0 Fax: +49 (0)2237/9292-200 info-de@weg.net www.weg.net/de

INDIA

WEG Electric (India) Pvt. Ltd. #38, Ground Floor, 1st Main Road, Lower Palace Orchards, Bangalore - 560 003 Phone(s): +91-80-4128 2007 +91-80-4128 2006 Fax: +91-80-2336 7624 info-in@weg.net www.weg.net/in

ITALY

WEG ITALIA S.R.L. V.le Brianza 20 - 20092 - Cinisello Balsamo - Milano Phone(s): (39) 02 6129-3535 Fax: (39) 02 6601-3738 info-it@weg.net www.weg.net/it

JAPAN

WEG ELECTRIC MOTORS JAPAN CO., LTD. Yokohama Sky Building 20F, 2-19-12 Takashima, Nishi-ku, Yokohama City, Kanagawa, Japan 220-001 Phone: (81) 45 440 6063 info-jp@weg.net www.weg.net/jp

MEXICO

WEG MEXICO, S.A. DE C.V. Carretera Jorobas-Tula Km. 3.5, Manzana 5, Lote 1 Fraccionamiento Parque Industrial - Huehuetoca, Estado de México - C.P. 54680 Phone(s): + 52 (55) 5321 4275 Fax: + 52 (55) 5321 4262 info-mx@weg.net www.weg.net/mx

NETHERLANDS

WEG NETHERLANDS Sales Office of WEG Benelux S.A. Hanzepoort 23C 7575 DB Oldenzaal Phone(s): +31 (0) 541-571080 Fax: +31 (0) 541-571090 info-nl@weg.net www.weg.net/nl

PORTUGAL

WEG EURO - INDÚSTRIA ELÉCTRICA, S.A. Rua Eng. Frederico Ulrich Apartado 6074 4476-908 - Maia Phone(s): +351 229 477 705 Fax: +351 229 477 792 info-pt@weg.net www.weg.net/pt

RUSSIA

WEG RUSSIA Pochainskaya Str. 17 Nizhny Novgorod 603001 - Russia Phone(s): +7-831-2780425 Fax: +7-831-2780424 info-ru@weg.net www.weg.net/ru

SPAIN WEG IBERIA S.L. Avenida de la Industria,25 28823 Coslada - Madrid Phone(s): (34) 916 553 008 Fax : (34) 916 553 058 info-es@weg.net

www.weg.net/es

SINGAPORE

WEG SINGAPORE PTE LTD 159, Kampong Ampat, #06-02A KA PLACE. Singapore 368328. Phone(s): +65 6858 9081 Fax: +65 6858 1081 info-sg@weg.net www.weg.net/sg

SWEDEN

WEG SCANDINAVIA AB Box 10196 Verkstadgatan 9 434 22 Kungsbacka Phone(s): (46) 300 73400 Fax: (46) 300 70264 info-se@weg.net www.weg.net/se

UK

WEG ELECTRIC MOTORS (U.K.) LTD. 28/29 Walkers Road Manorside Industrial Estate North Moons Moat - Redditch Worcestershire B98 9HE Phone(s): 44 (0)1527 596-748 Fax: 44 (0)1527 591-133 info-uk@weg.net www.weg.net/uk

UNITED ARAB EMIRATES

WEG MIDDLE EAST FZE JAFZA – JEBEL ALI FREE ZONE Tower 18, 19th Floor, Office LB 18 1905 P.O. Box 262508 - Dubai Phone: +971 (4) 8130800 Fax: +971 (4) 8130811 info-ae@weg.net www.weg.net/ae

USA

WEG ELECTRIC CORP. 6655 Sugarloaf Parkway, Duluth, GA 30097 Phone(s): 1-678-249-2000 Fax: 1-770-338-1632 info-us@weg.net www.wea.net/us

VENEZUELA WEG INDUSTRIAS VENEZUELA C.A. Avenida 138-A Edificio Torre Banco Occidental de Descuento, Piso 6 Oficina 6-12 Urbanizacion San Jose de Tarbes Zona Postal 2001 Valencia, Edo. Carabobo Phone(s): (58) 241 8210582 (58) 241 8210799 (58) 241 8211457 Fax: (58) 241 8210966 info-ve@weg.net www.weg.net/ve

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WEG Equipamentos Elétricos S.A. International Division Av. Prefeito Waldemar Grubba, 3000 89256-900 - Jaraguá do Sul - SC - Brazil Phone: 55 (47) 3276-4002 Fax: 55 (47) 3276-4060 www.weg.net