

Solutions for Pulp and Paper



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WEG can offer complete solutions for the whole process in pulp and paper industry where operational efficiency, technical and technological aspects are the greatest competitive differentials. WEG also counts on a network of distributors and service agents to meet the demand for replacement parts and technical support in all operations of the wood yard, pulping process, limekiln, fiber line, evaporation, drying, power and recovery boiler, chemical plant, water and sewage treatment, pulp preparation, approximation circuit, paper machine, coating and winding machine.

Pulp

- Preparation
- Pulping process
- Bleaching
- Drying (Sheet formation, Pressing, Drying)
- Packaging

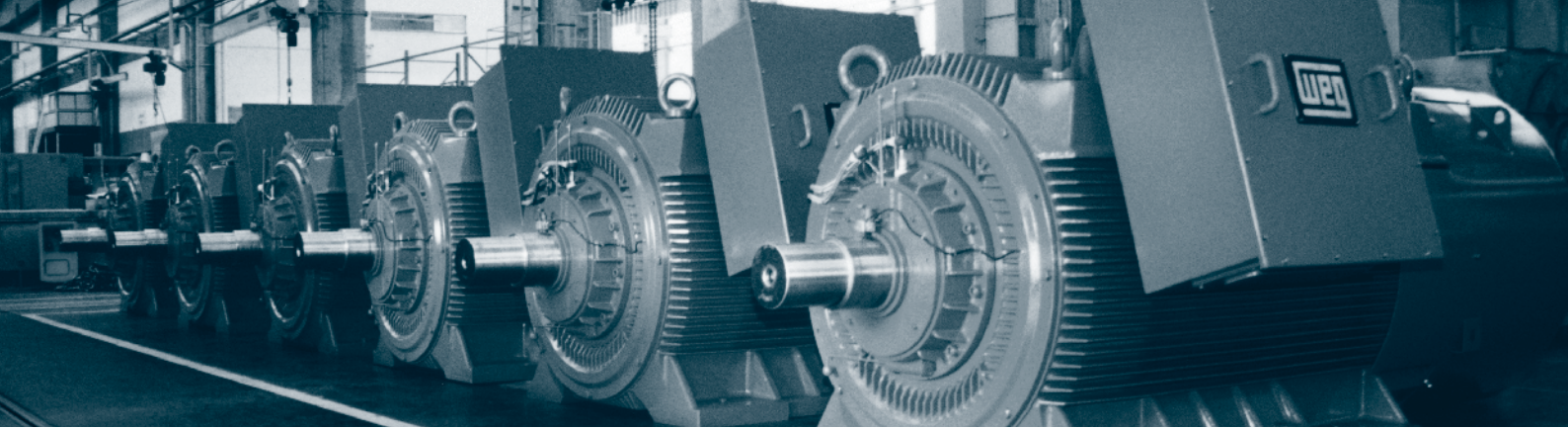




Paper

- Pulp preparation
(Segregation, Refining, Depuration, Internal gluing, adding)
- Paper Machine
- Finishing





Motors

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

Low and Medium Voltage Motors

Compact motors with excellent performance and high mechanical strength with low vibration and noise offer more reliability to the user along with lower maintenance.

M Line

- Power ratings up to 50.000 kW
- Voltages up to 13.800 V
- Rotation: 300 to 3600 rpm

H Line

- Power ratings up to 3.150 kW
- Voltages up to 11.000 V
- Rotation: 600 to 3600 rpm

Synchronous Motors

- Power factor correction
- Constant speed with load variation
- High efficiency
- High torque capacity
- Low Maintenance
- Suitable for frequency inverter application
- Power ratings up to 50.000 kW
- Voltages up to 13.800 V
- Speed: 180 to 1800 rpm

DC Motors

DC motors offer a wide range of speed variation without affecting the performance of the driven machine and are used in several industrial applications such as paper and plastic industries, among others.

- Power ratings up to 10.000 kW
- Torques from 2 to 200.000 Nm
- Armature voltage range from 110 to 800 V
- They can be made with frames 71 to 1800 (IEC)

WELL Three-phase Motors - WEG Extra Long Life

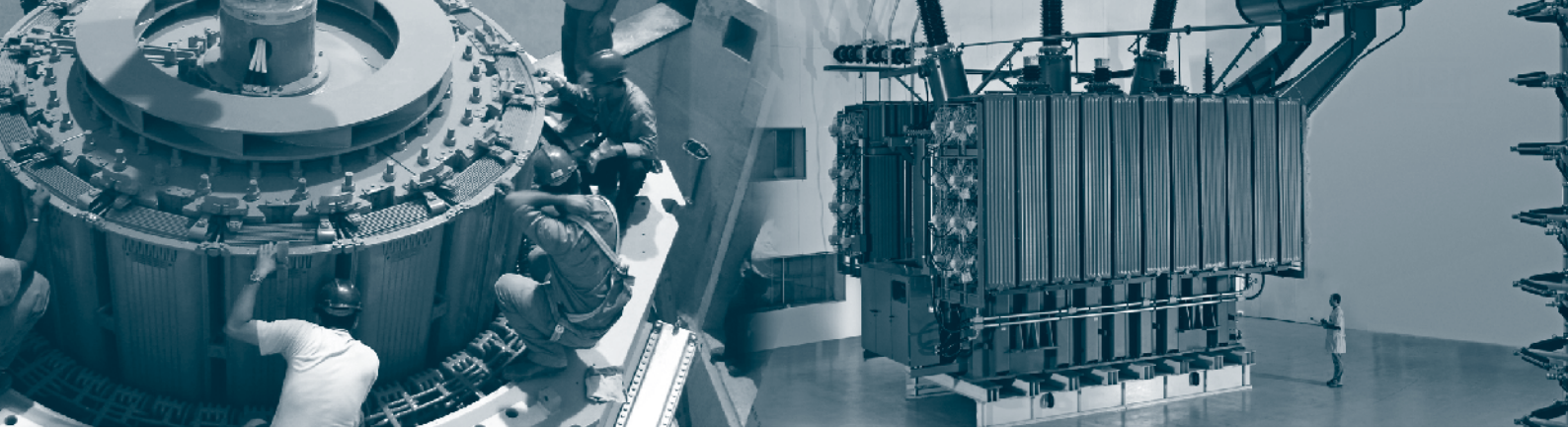
Electro mechanical design developed for an extended economic lifetime, longer interval between maintenance periods, corrosion resistance from the environment, reduced temperature rise on bearings and winding, exclusive bearing sealing system W3seal and WISE (WEG Insulation System Evolution) insulation system.

W22 Three-phase Motors

A motor that provides concepts of economy, performance and productivity:

- High Efficiency
- Reduction of electrical energy consumption
- Reduction of noise and vibration level
- Easy maintenance
- Excellent cost benefit ratio





Energy

WEG has the expertise of providing integrated solutions to drive all plant equipment which are, developed with high quality of the company standards and state-of-the-art technology that is required worldwide for the pulp and paper industry. Additionally 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 10.000kW and voltages from 2.300 to 15.000V, WEG can provide high precision computer monitored tests, fast results and analysis for continues optimizations for our turbogenerators used in pulp and paper industry.

Applications

- Main and Emergency Generators

Technical features

- Power ratings: up to 60.000 kVA (thermal generation, 4 poles)
- Voltages: up to 13.800 V, 50 or 60 Hz
- Degree of Protection: IP23 to IPW56/IPW65
- Rotation: 1800 rpm
- Mounting: Horizontals (B3, D5, D6)

Dry Transformers

Applications

- In industrial plants where people circulate and where there is optimized space.

Technical features

- Safety: without risk of explosion
- Environmentally friendly: No contamination of the environment.
- Reduced maintenance and installation costs: no additional construction and allows of installation beside the load area.
- Space optimization: Dry transformer with double power rating can be installed together with the oil transformer.
- Power ratings: 300 to 15.000 kVA
- Voltage classes: 15; 24.2 or 36.2 kV

Oil Transformers

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

Substations

Conventional and movable substations in turn-key system classes up to 550 kW.

In terms of supply, besides the traditional WEG package (transformers, MV/HV panels, digital systems, electric and electronic components, etc.), all the other equipment and services (from design to start-up) required to deliver ready-to-use substations to the customer are included.





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 pulp and paper 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.

Applications

- Main protection and shut down of plants and industrial facilities, Pumping Stations, Medium voltage motors starting, Substations, Switchboard panels, Interconnection switchboard panels, Fixed and variable bank of capacitors

Low Voltage Motors MCC's

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.



Frequency Drive - MVW-01

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



CFW11 - Modular Drive

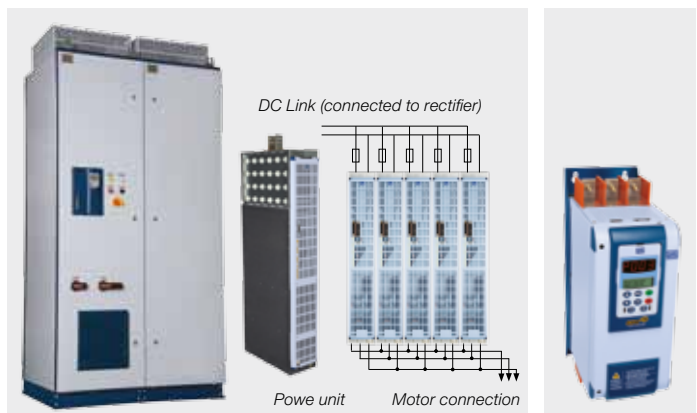
Available in power ratings from 400 up to 2500HP and voltages from 380 up to 690 V with input rectifier of 6 pulses, 12 pulses or regenerative, the CFW-11M is the new generation of drives for high power ratings.

CFW09 Drive

Vectrue® technology represents a significant advance which allows the new generation of WEG drives to incorporate scalar control functions, sensorless vectorial and vectorial with encoder on a single product and easily programmable.

Soft-Starter - SSW-06

The SSW-06 Soft-Starter series are static equipment, for acceleration, deceleration and protection of three-phase induction motors. Voltage control applied to the motor by means of the angle setting of the thyristor trip results in soft-starting and shutting down.



AC/DC - CTW-04 Converters

WEG DCC series CTW-04 are robust and high precision and reliability equipment intended to drive and control DC motors.

Breaker-Motor MPW16, MPW25, MPW65 and MPW100

Solution for protection of the electrical circuit and starting/protection of motors up to 40HP in 220V and 75HP with 380/440V





Services

WEG provides services of revision, refitting and repowering in medium and large size electric motors which can be carried out at the factory or in field. Other brands are also serviced.

Service Range

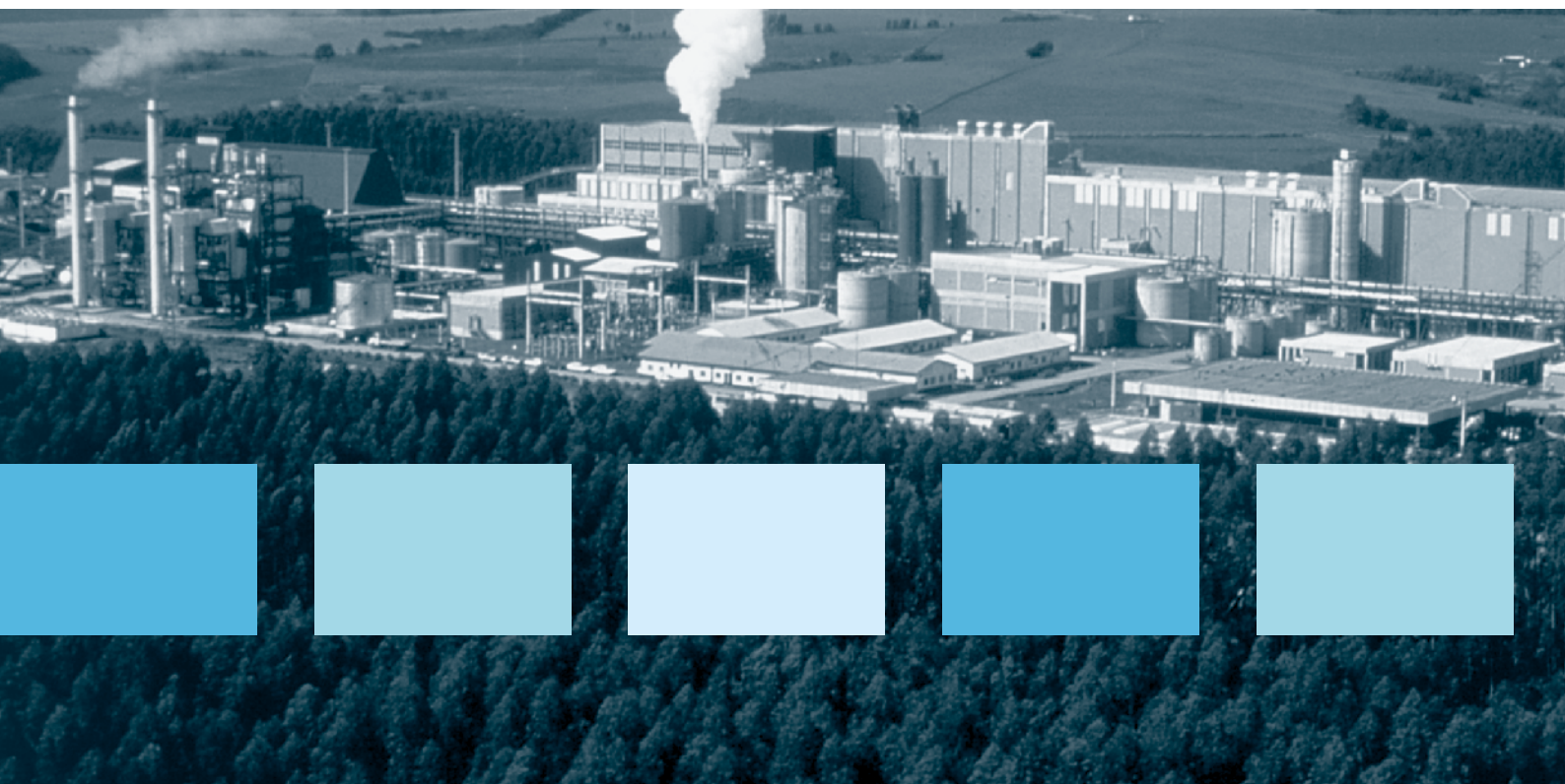
- DC motors and generators up to 10,000 kW
- Three-phase induction motors (squirrel cage) up to 50,000 kW (low, medium and high voltage)
- Synchronous motors (with or brushless) up to 50,000 kW (low, medium and high voltage)
- Turbo-generators up to 62,500 kVA
- Hydro generators up to 200,000 kVA
- Power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



Companies that have approved WEG



Worldwide companies



WEG Worldwide Operations

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