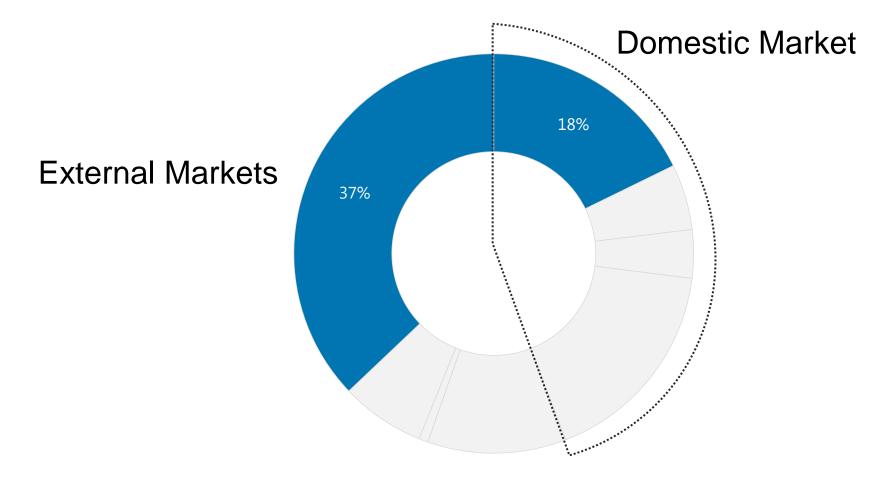
Industrial Electro-Electronic Equipment

Mr. Siegfried Kreutzfeld

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Business Area 2017 Net Operating Revenues Breakdown



Industrial Electric Motor and Automation

Industrial Electric Motors

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WEG Motors At a glance





Manufacturing sites in 8 countries 3 continents









50% of sales from high efficiency electric motors in 2017









Largest manufacturing site for LV electric motors in the World

Products Complete range of products to address all markets segments

Low voltage industrial motors



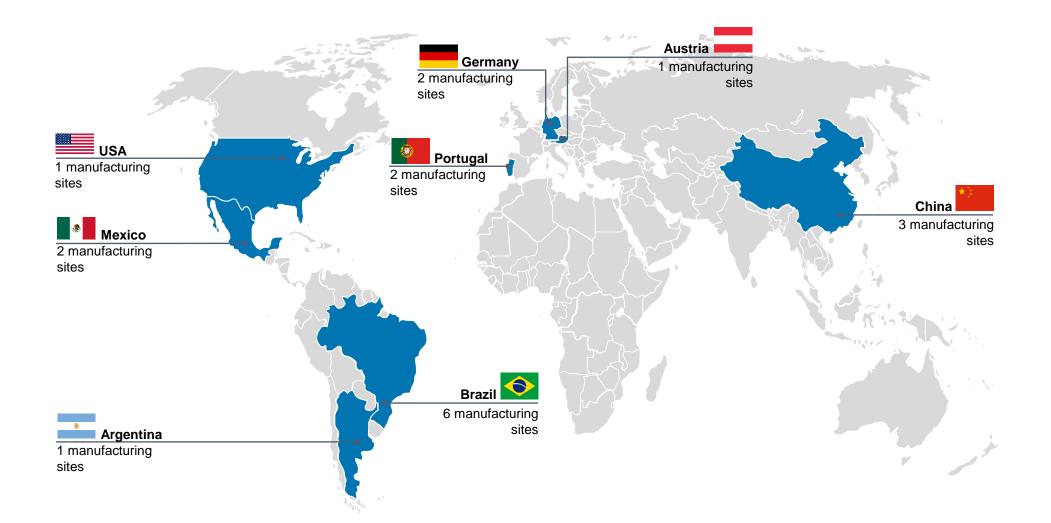
High voltage industrial motors



Gearboxes

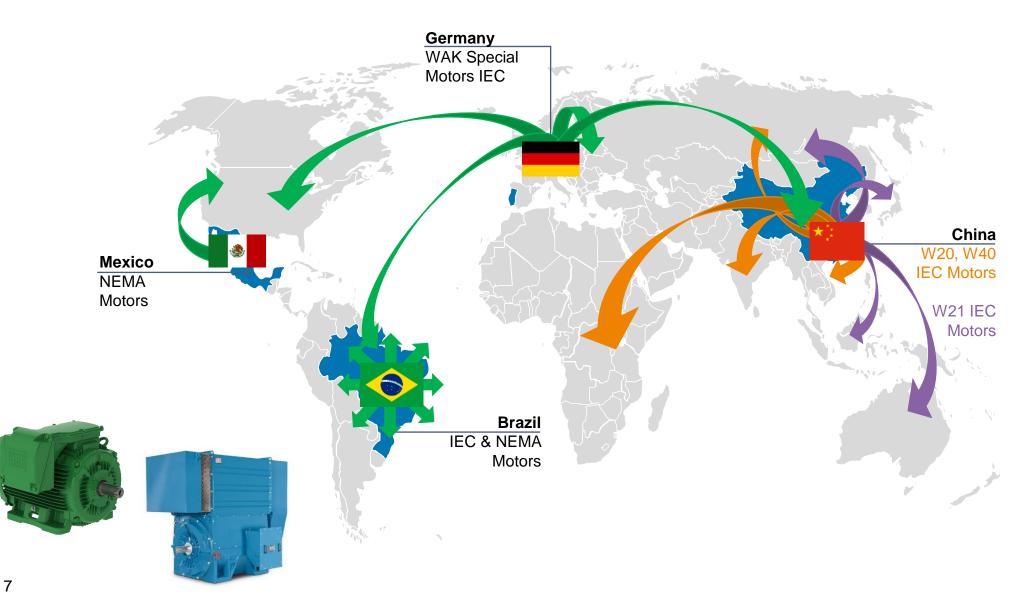


Global Footprint WEG manufacturing sites have been strategically structured close to customer.

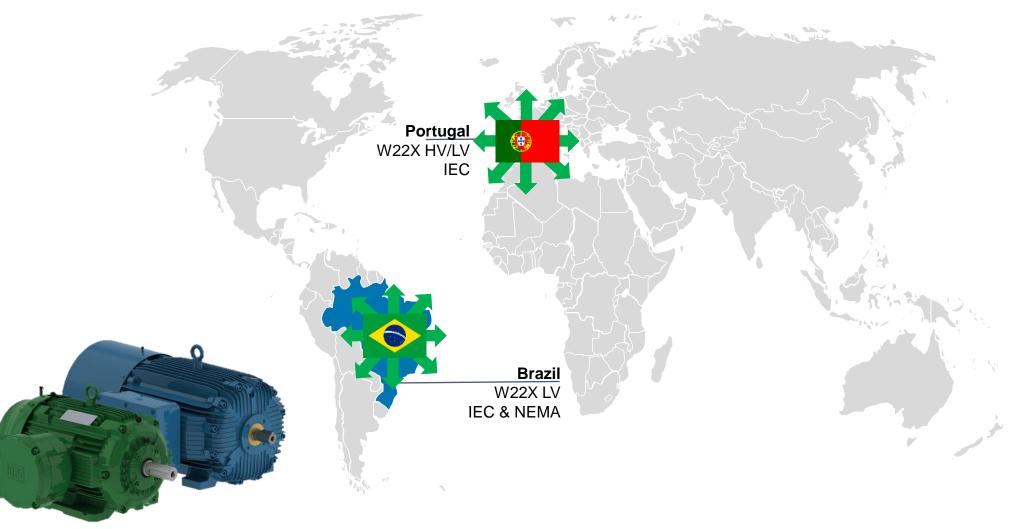


WEQ

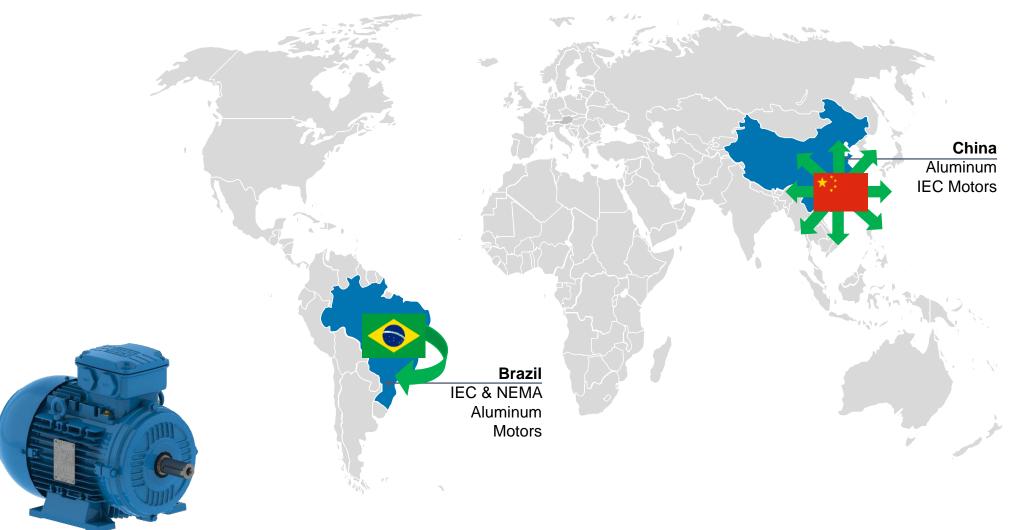
Global Supply Strategy Industrial motors – W22, W40, W50, HGF and special motors



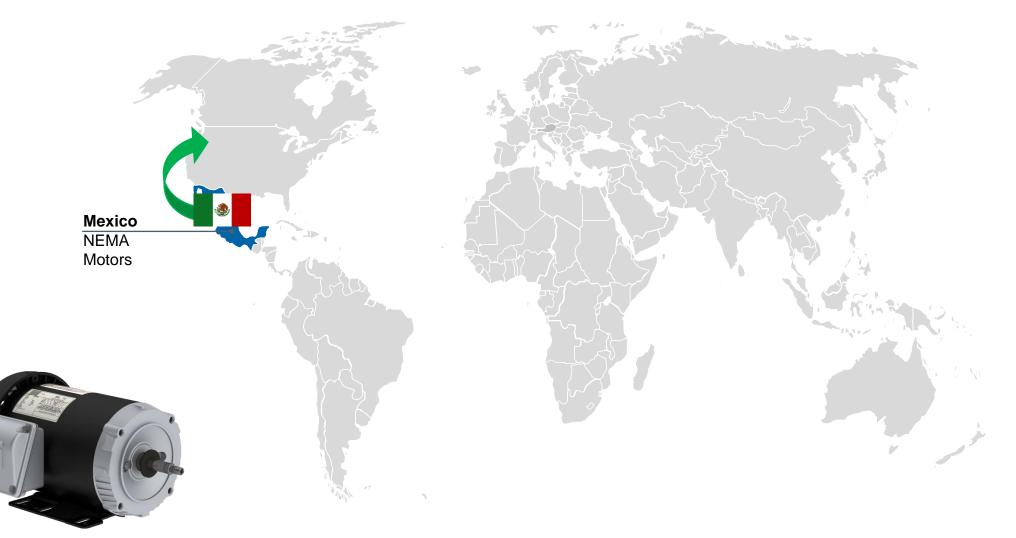
Global Supply Strategy Explosion proof motors



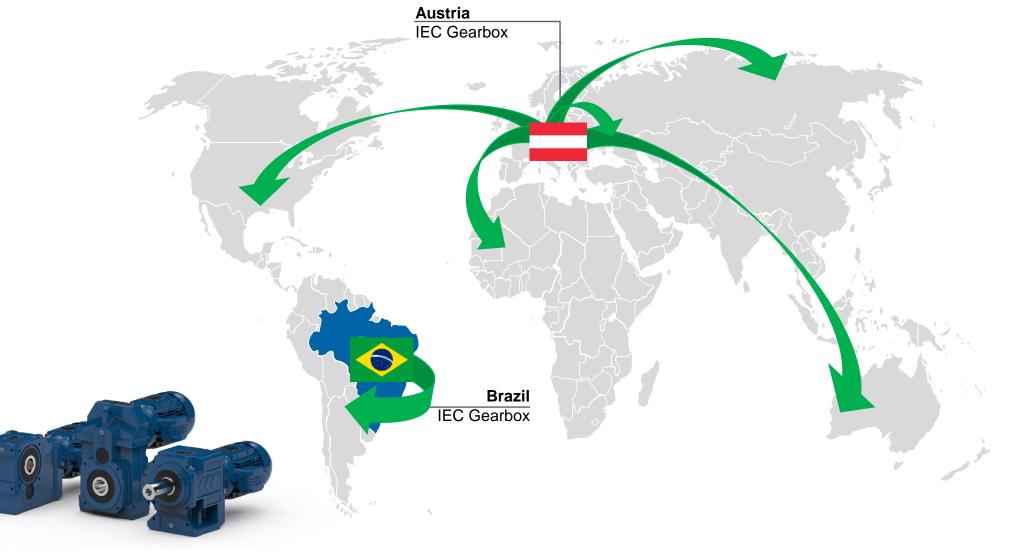
Global Supply Strategy Aluminum motors



Global Supply Strategy Rolled steel motors



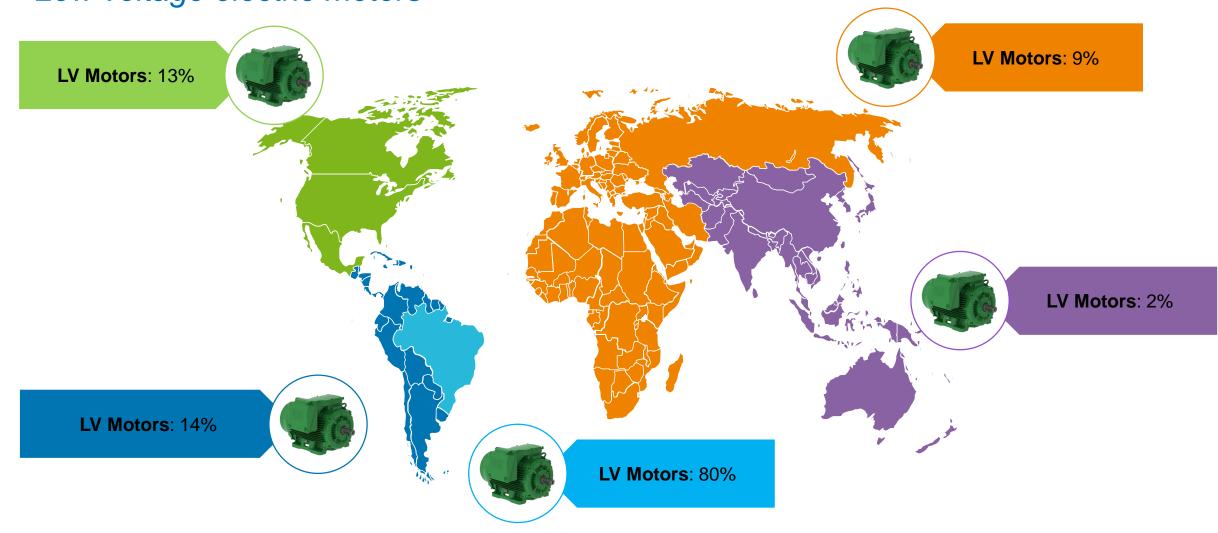
Global Supply Strategy Geared motors and gear boxes



Weq



WEG's Market Share Low voltage electric motors





Investments *We´ve built a global production platform - Portugal*





Investments *We´ve built a global production platform - China*





Investments *We´ve built a global production platform - Mexico*





* Estimated total. Currently working in foundry and machining structures. Will be completed by April 2019.

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Investments *We´ve built a global production platform – Mexico: Foundry*





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New products portfolio WEG motor scan

Motor monitoring solution



WEG Benefits

- Ready for Industry 4.0;
- New Business
- Add value to product (OEM's)
- Product and application knowledge improvement



Available

Overall Vibration

Surface Temperature (°C or °F)

Operating Hours (h)

Maintenance Advice

Battery Indicator

Coming Soon

Cooling Condition Bearing Condition Speed (rpm) Airgap Eccentricity Rotor Winding Health Energy Consumption (kWh) Load / Efficiency (%) DOL Intermittent or VFD

New products portfolio Smart motor

Integrated variable speed solution



Features

- Optimum integration with Motor
- Enhanced power density with special drive heatsink design
- Interchangeability
- Integrated HMI

Benefits

- Ready for Industry 4.0
- New Business
- Add value to product (OEM's)
- Product and application knowledge improvement

New products portfolio ECM - electronic commutated motor

The simple and efficient solution for air movement applications requiring speed variation



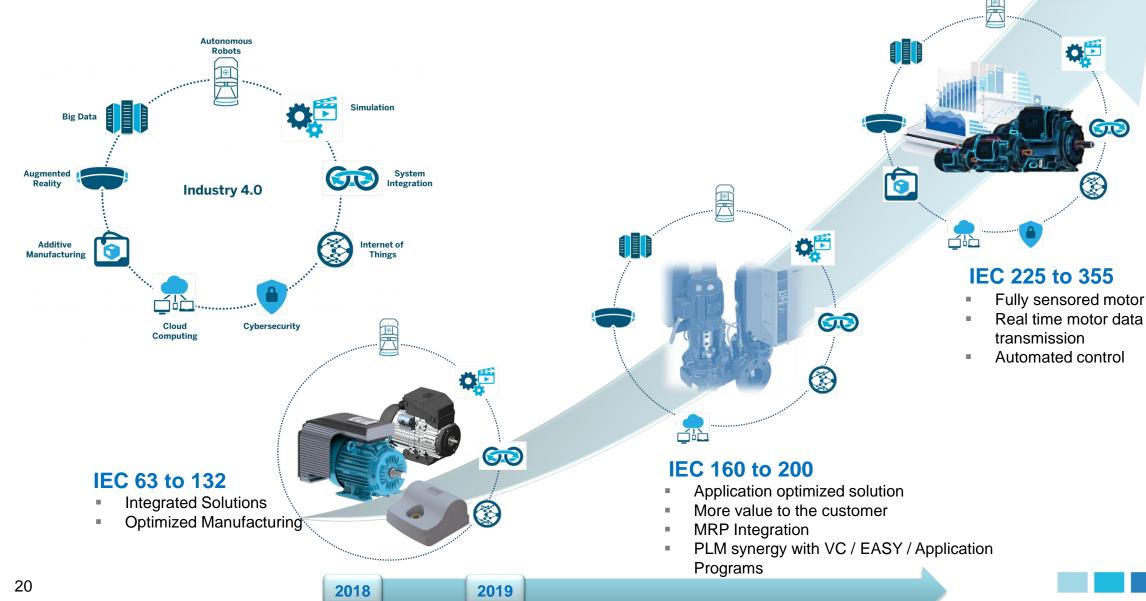
Features

- Permanent Magnet
- Comply with the latest versions of standards and regulations
- Total efficiency (drive + motor) IE5

Benefits

- High performance solution
- Simplicity: The best cost-benefit solution to replace permanent slip capacitor motors (PSC);
- Optimized design: Low cogging torque and low torque ripple;
- Multi-mounting solution:
- Steel frame: rods, belly-band, foot, flange, resilient base
- Aluminum frame: foot, pads, rods, flange

Investments Motor Concept – W23 Motors Concept / Industry 4.0

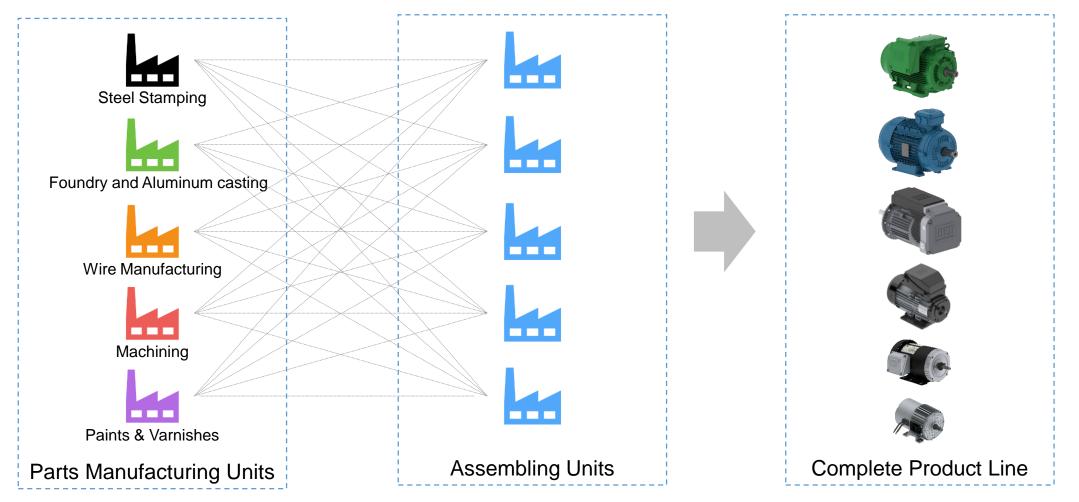


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Competitive Advantage

Vertical integration allows production flexibility to supply small batches of customized products that are matched to perfection to our customer's needs



We do mass customization, not mass production

Key Messages Electric Motors

- Continue investing in capability to improve our main strength: to be vertical integrated and flexible in customization
- Investment cycle in the main Industrial Parks almost completed with new opportunities of expansion already planned
- Continue developing technology and new products
- Growth opportunities coming from recovery of main markets and Brazilian economy

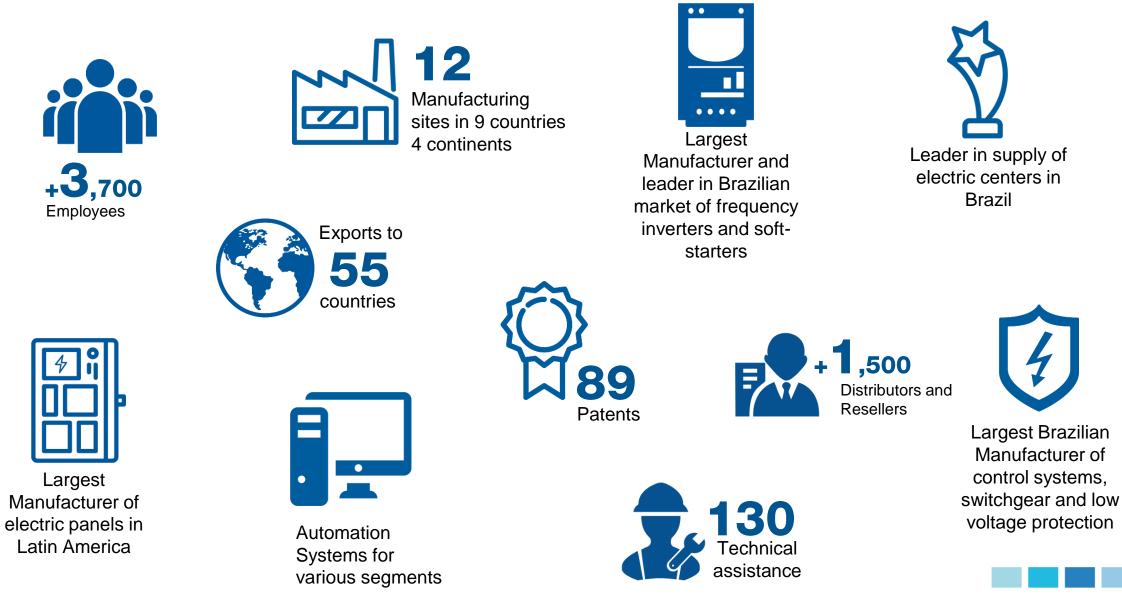


Automation

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WEG Automation At a glance



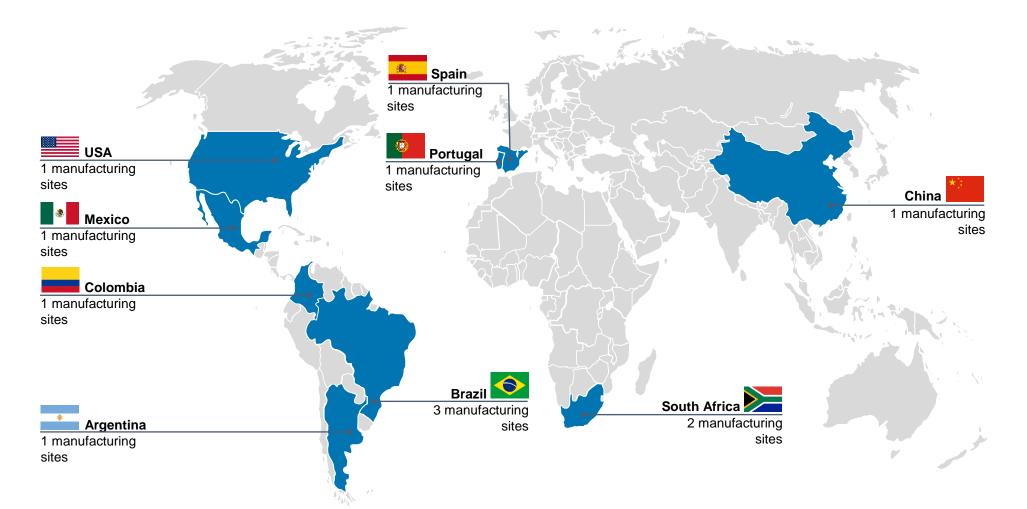
Products

Complete range of products to address all markets segments

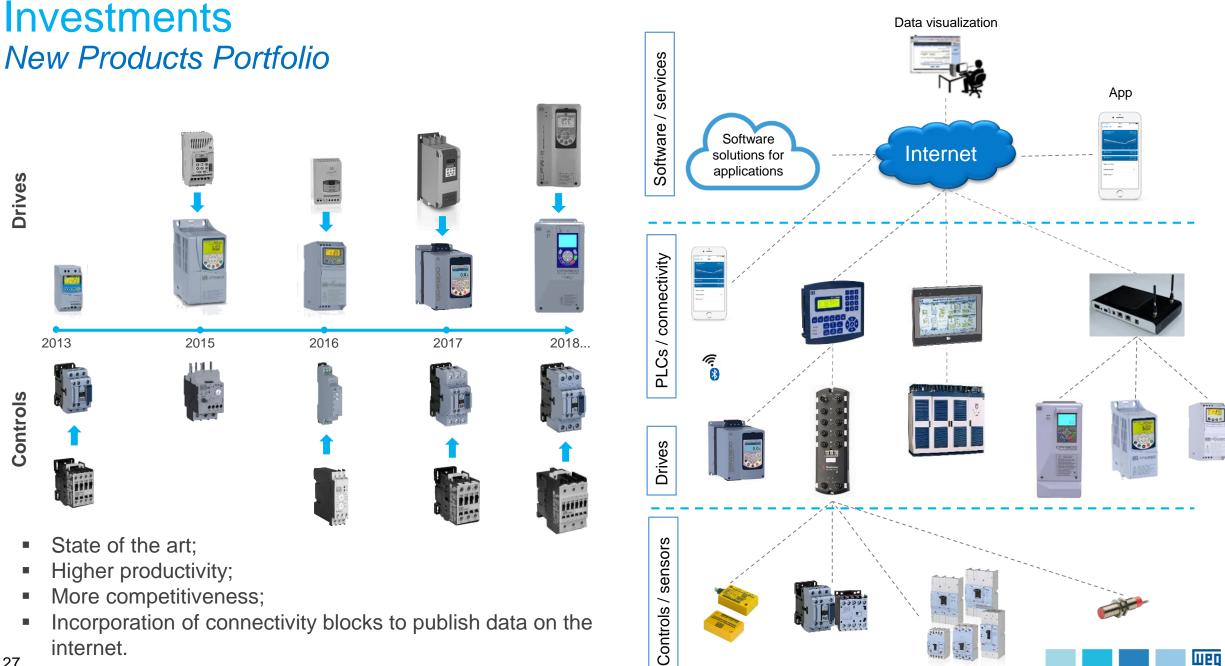




Global Footprint WEG manufacturing sites have been structured to supply according to the current market demand

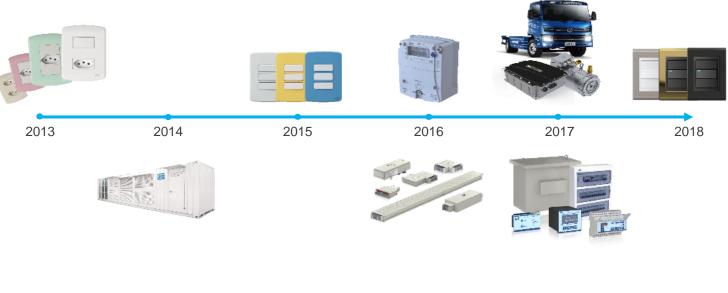


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Incorporation of connectivity blocks to publish data on the internet.

Investments New Business and Markets' Development



ELECTRIC MOBILITY



e-Delivery VW/MAN

BUILDING & INFRASTRUCTURE



Hospital in Juiz de Fora city, state of Minas Gerais/Brazil



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Electric Mobility

We have products and technology to address the growing demand for electric mobility

Powertrain for several applications

Trucks





Special light vehicles







Marine

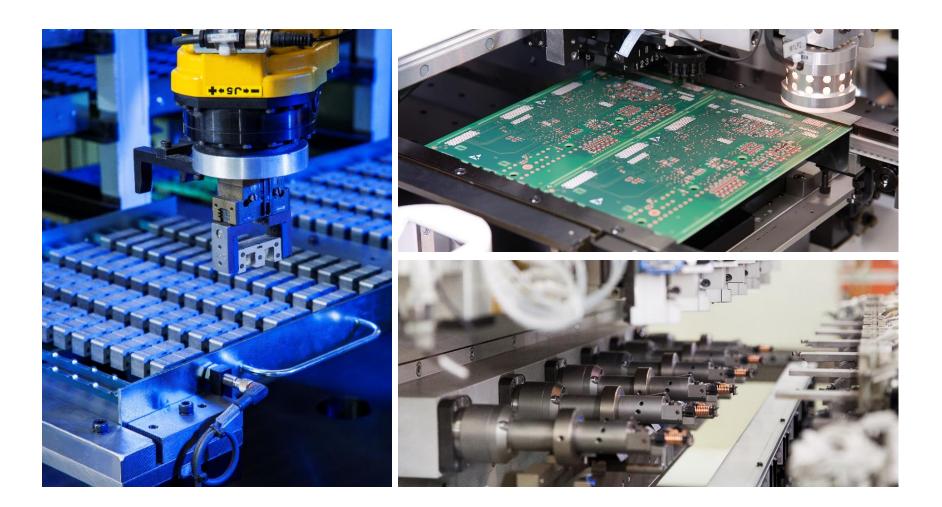
Complete solution including the entire ship management and monitoring system





Investments

We've investing in industrial plant automation and process optimization aiming to increase the competitiveness of our products



Key Messages Automation

- International expansion aiming to address specifics customers needs with manufacturing sites in 9 countries
- Investment in China to be more competitive to address in the first step the Asia-Pacific drives market
- Updated in terms of products portfolio and technology to compete worldwide
- Constant growth in domestic market through gain in market share and new products launch

