WOLONG

Power your future

LARGE DRIVE SOLUTIONS

for Pulp & Paper Applications

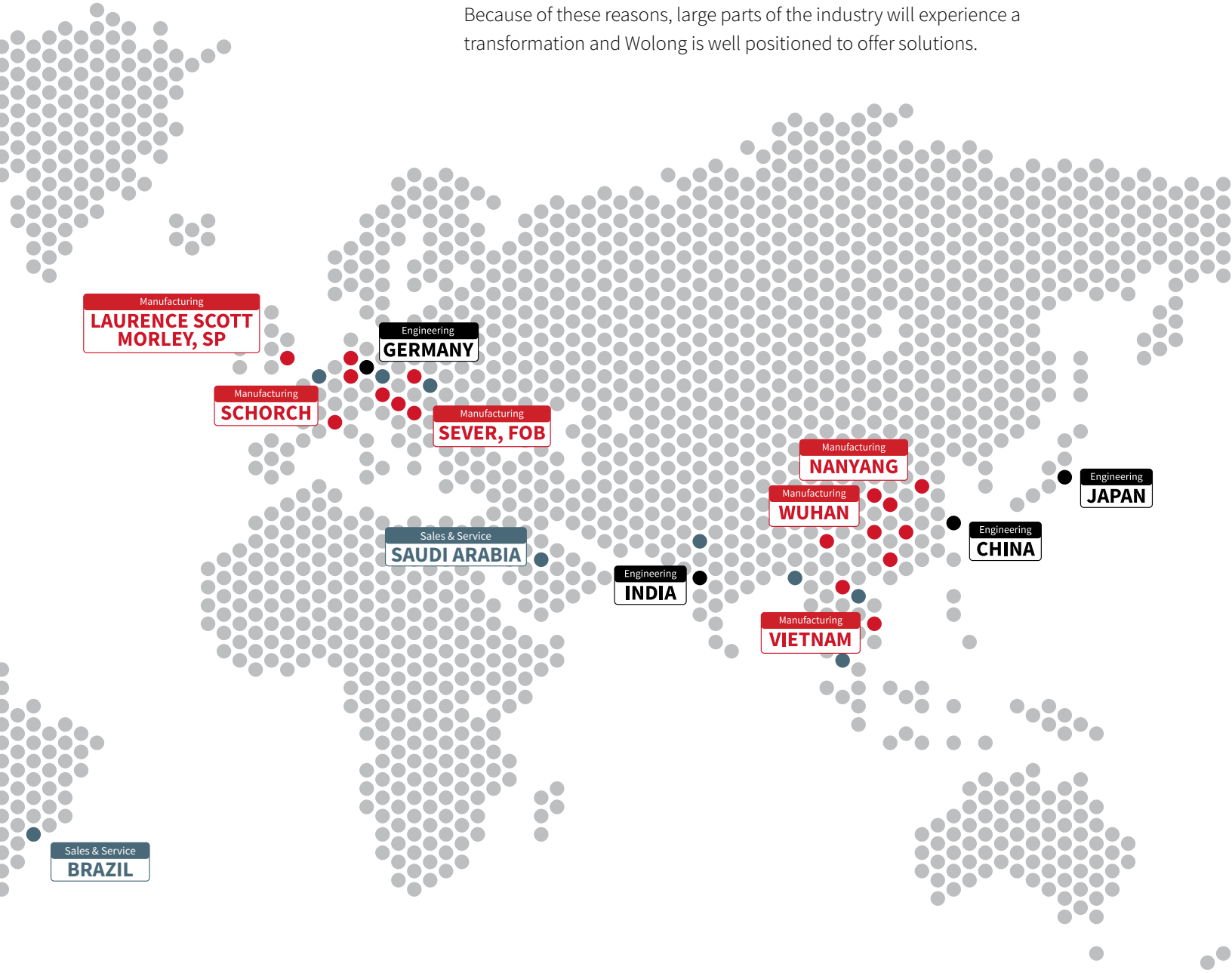
Wolong Large Drives
Company Introduction

The Wolong Electric Large Drive Group (LDG) is a complete business division including heavy rotating machine companies, services, engineering, and research teams around the globe. Business units such as Nanyang ATB, Wuhan ATB, Anshan Rongxin, SCHORCH, MORLEY, SP, LAURENCE SCOTT, SEVER, FOD and others, deliver innovations in rotating machine and drive technologies.

Through enterprise technology centers and laboratories, staffed with our highly experienced and accomplished engineering teams, Wolong LDG has producing high quality equipment and solutions for the Pulp & Paper industry.

Various HV/LV EXP Motors
General Purpose Motors
Specific-Use Motors
Synchronous / Asynchronous Generators
LV/HV EXP Inverters
HV Soft Starters
Special Power Supplies
DC Power Transmission
Control Systems
Power Electronic Components
Instrumentation

Despite the rising wave of digital communications, the global pulp and paper industry is still growing. Graphic paper demand has, in fact, been declining but is being replaced by demand for tissue, packaging, and other needs. Fiber packaging innovations are meeting growing environmental concerns over plastic waste. Also, there is increasing pressure to reduce operational costs to remain successful against more global competition. Because of these reasons, large parts of the industry will experience a transformation and Wolong is well positioned to offer solutions.



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Our products have complete certifications from many international authorities such as UL and CC in the US, CSA in Canada, IEC Ex in Europe, ATEX and CE in the European Union, SABS in South Africa and TESTSAFE in Australia.

Our manufacturing sites are quality certified for the latest ISO9001, ISO10012, OHS18000, and ISO14001 requirements.

Wolong plays a leading role in technology globally. It is a world leader in vibration, low starting current, and HV EXP motors. And the company is the third largest MV/HV motor supplier in the world.

One of the largest operational expenses in pulp processing or paper production plants is energy consumption. And largest portion of energy use is in electric drives, generally in the range of 60-70%.

Wolong has provided high performance solutions globally for a wide range of industrial pulp and paper processing applications engineered to improve distributed energy consumption, stabilize load, improve reliability and power quality.

- Energy efficient auxiliary drives
- Conveying systems
- High voltage permanent magnet drives
- Variable frequency grinder drives
- Rotary drives and blowers
- Heat capture power generation systems
- Active monitoring and control systems

Application	Type	Requirements
Conveyors	Dryers Coaters Winders/Rollers Wood/pulp	Starting restrictions ASD applied IEEE-841, NEMA, IEC, ANSI
Blowers	Cooling Ventilation Aerator	Belt load specifications Starting Restrictions ASD Applied IEEE-841, NEMA, ANSI
Heat Exchangers	Air Cooling	Belt load specifications IEEE-841, API 661
Crushers	Barker drum Chipper Grinder	High Inertia Starting Conditions and Frequency Vibration Restrictions VFD Compatible NEMA, IEC, IEEE, ANSI
Pumps	Evaporator Refiner Vaccuum Washing/bleaching	Starting restrictions ASD applied Vertical thrust loads Low inrush IEEE-841, NEMA, ANSI
Mixers	Slurry thickener	Belt load specifications Starting restrictions ASD applied / Low inrush Special shaft and load designs Torque pulsation High rotor inertia IEEE-841

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LV Extra Severe-Duty Motor

This versatile and robust design is ideal for a wide range of challenging industrial applications and environments. Versions available to meet IEEE 841 and 661 requirements.

Power	0.75 - 300 HP
Voltage	230/460, 460 V
Poles	4 - 8
Frequency	60 Hz

LV/MV Vertical Pump Motor

Combines extra severe duty engineering with advanced thrust and cooling technologies.

Power	5 - 1750 HP
Voltage	200 - 4000 V
Poles	2 - 6
Frequency	60 Hz

Large Extra Severe-Duty Motor

This versatile and robust design is ideal for a wide range of challenging industrial applications and environments.

Power	150 - 2500 HP
Voltage	460 - 4000 V
Poles	2 - 6
Frequency	60 Hz

Direct Current Motor

A reliable lifeline to driven equipment and a workhorse for production.

Power	1 - 2000 HP
Voltage	180 - 600 V
Speed	300 - 3600 RPM

Synchronous Motor

Reliably and efficiently drives slow speed and high torque reciprocating compressors.

Power 450 kW - 50 MW

Poles 12 - 40

HV Asynchronous Motor

Has a broad application range excelling in severe environments.

Power 220 kW - 31.5 MW

Voltage 6 kV, 10 kV

Poles 2 - 12

Low Starting Current Motor

Eliminates need for additional starters, controllers and switchgear requiring less maintenance, and a low impact on the power supply line.

Power 250 - 1800 kW

Voltage 2750 V - 13.8 kV

Poles 2 - 20

HV Variable Frequency Drive

Highly reliable and safe multiple rectification technology through fan and control system redundancies and an optional unit bypass.

Power 200 kW - 40 MW

HV Solid State Soft Start

Has a broad application range delivering flexible control with small impact on the power grid. They help extend equipment life and reduce maintenance.

Power 100 kW - 50 MW

Voltage 3 - 13.8 kV

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