

WOLONG

Power your future

Household and **C**ommercial
Group (Formerly HAMG)



Wolong

Group Profile

THREE MAJOR INDUSTRIES



Motors & Drives

Motor Drives System Solutions



Renewable Energy

Wind, Photovoltaic, Energy Storage, Hydrogen



Mining & Resources

Mining, Real Estate, Assets management

COMPANY SIZE



7.6 BUSD

Group Revenue



5.4 BUSD

Group Total Assets



42

Global Manufacturing Bases



15,000

Employees

LISTED COMPANY

Wolong Electric Group

SH600580

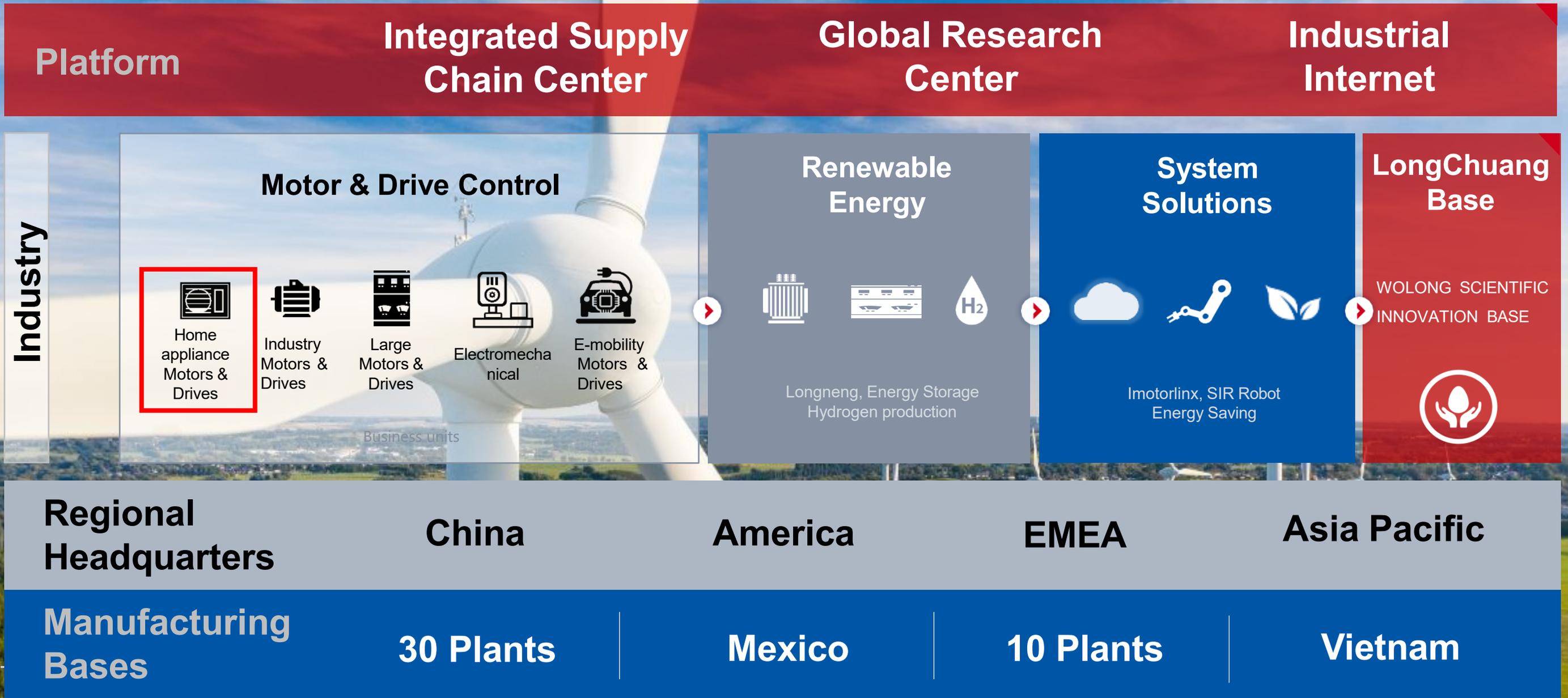
Wolong Resources

SH600173

Brook Crompton Holdings Ltd.

Singapore

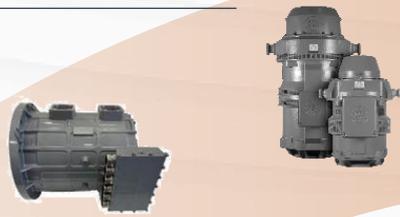
Wolong - Business Structure



Customers

Wolong – Fixed Speed Motors

NEMA vertical shaftless motors



Oil cooled PM motors



IEC Ex p motors



IEC PM motors



Engineering EV motors



MVE standard vibration motors



IEC Syn RM motors



Hair pin motors



Air-air cooling motors



Micro motors / Pumps



Tube-cooled Ex p motors



Universal Motors



Generators



Air conditioning motors



Full Portfolio of
Motors and Generators

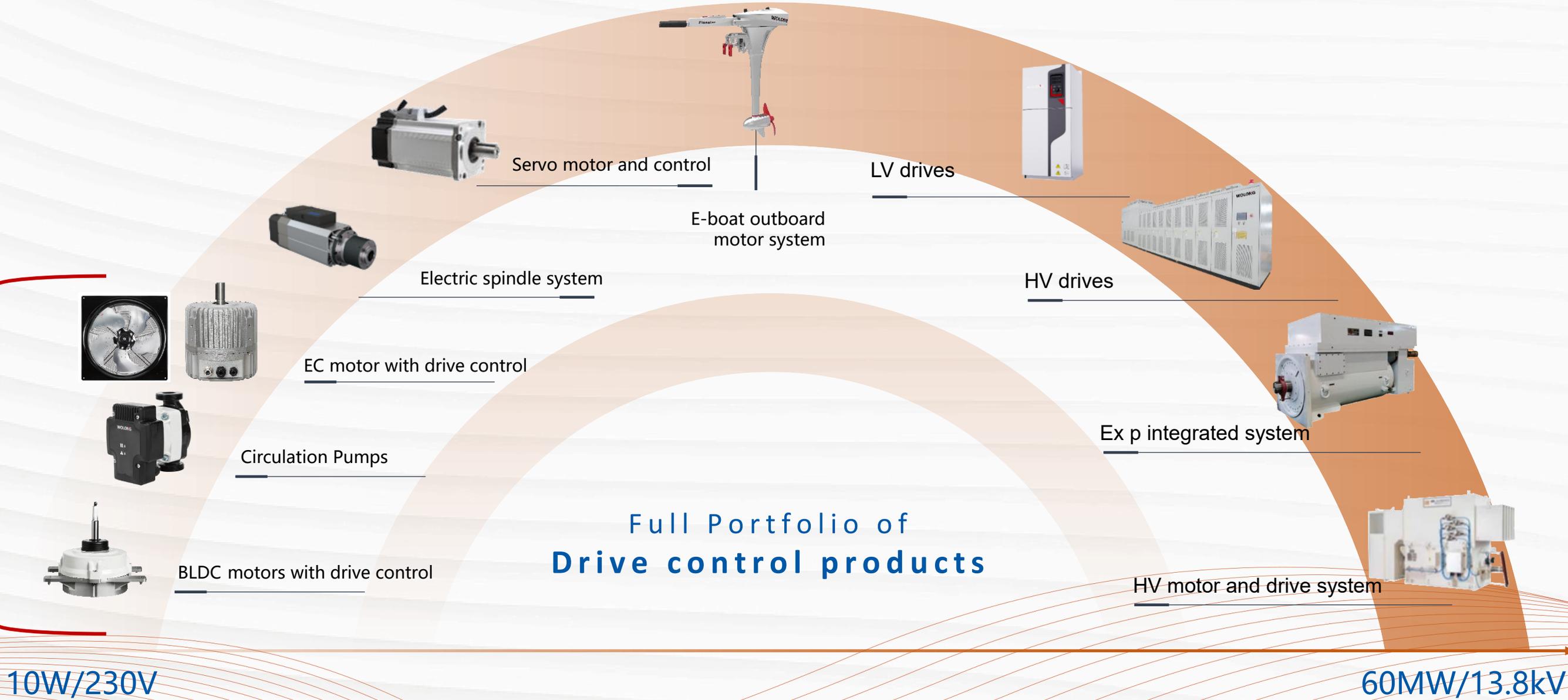
HCG

5W/230V

135MW/15kV

Wolong – Variable Speed Motors and Drives

HCG



Full Portfolio of
Drive control products

Wolong - Global Sites

All factories pass
ISO9001
ISO14001
ISO45001 Quality & EHS
 system certification



Regional Manufacturing



Regional Support

3 Manufacturing bases
42 Factories

- ▶ Asia (China, Vietnam)
- ▶ America (Mexico)
- ▶ Europe (UK, Germany, Italy, Poland, Serbia)



- 📍 R&D Center
- 🏭 Manufacturing Plant
- 🌐 Overseas Regional HQ's (Asia Pacific, America, EMEA)
- ▲ Sales and Service Network

Wolong – HCG Producing Factories

All factories pass
ISO9001
ISO14001
ISO45001 Quality & EHS system certification

Jinan, China
Washing Machine /
Dryer, Micro Motors,
Circulation Pumps

Wuhu, China
Washing Machine
Motor, BLDC Motor

Monterrey, Mexico:
Planned: BLDC Motor, EC
Motor

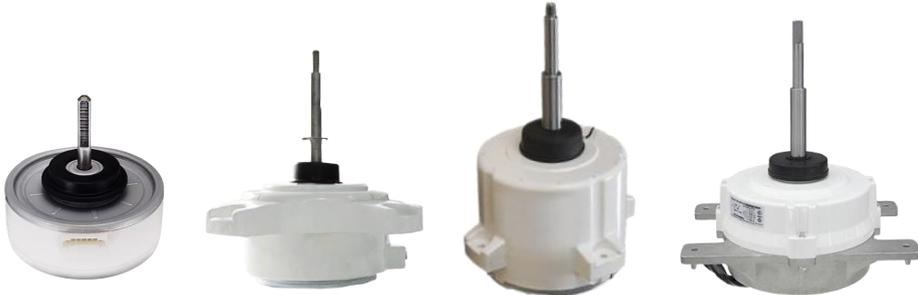
Shangyu, China: BLDC
Motor, EC Motor, EC Fans

Haiphong, Vietnam
BLDC Motor, EC Motor

Factory → Sales Region
China → Global
Vietnam → Europe, USA
Mexico → Americas

Wolong – HCG Motor Categories

BLDC Air Conditioning Motor



EC Motor



Circulation Pump



Laundry Washer and Dryer Motor



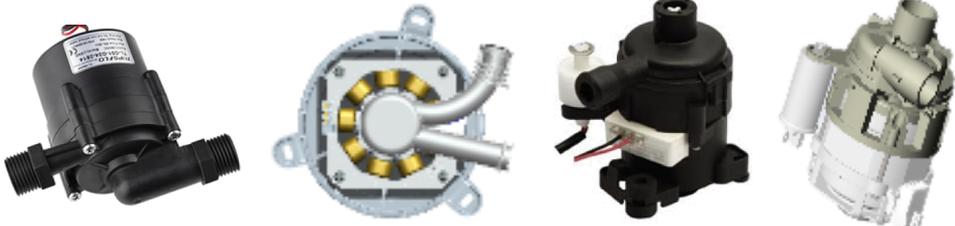
Axial, Centrifugal Fan



Household Appliance Motor



Micro Pump



Compressor Rotor & Stator



Wolong – BLDC Motor Applications

Indoor Unit



Cassette Unit



Outdoor Unit



Ducted Unit



Hot Water Heat Pump



Similar to EC motors in having a permanent magnet rotor and stator windings. Commutation is typically achieved electronically through an external controller, although Wolong can also include the control loop inside the motor

Key Features

- High efficiency
- Compact
- Highly customizable
- Best suited for low power fan applications

Why BLDC?

- Cost reduction vs EC Motor and Complete EC Fan
- High reliability
- Enhanced control for specific applications

Wolong - BLDC Motor Range Overview



Series	S46	S51 / S56	S70	S90	S110
Power Range	5-60W	10 – 80W	80 – 350W	250 -750W	350 – 1400W
Speed Range (rpm)	500-3000 RPM	500-3000	500-2000	500-2000	700-1200
Voltage	VDC100-310 50/60Hz	VDC 100-350 50/60Hz	VDC 100-350 50/60Hz	VDC 310, 50/60Hz	VDC 280 – 560 50/60Hz
Poles	8P or 10P	8P or 10P	8P or 10P	8P or 10P	8P or 10P
Typical Application	Small Indoor Unit, Portable AC	Indoor Unit, Cassette	Outdoor Unit, VRF/VRV	VRV / VRF, Cabinet AC	Central AC Outdoor Unit, Chiller / HP

Wolong - EC Internal Rotor Motor Applications

Compressor Fan



Chiller / Heat Pump



EC Fans



Unit Heater



Similar to BLDC motors in having permanent magnet rotor and stator windings. Commutation is typically achieved electronically through an integrated controller and inverter.

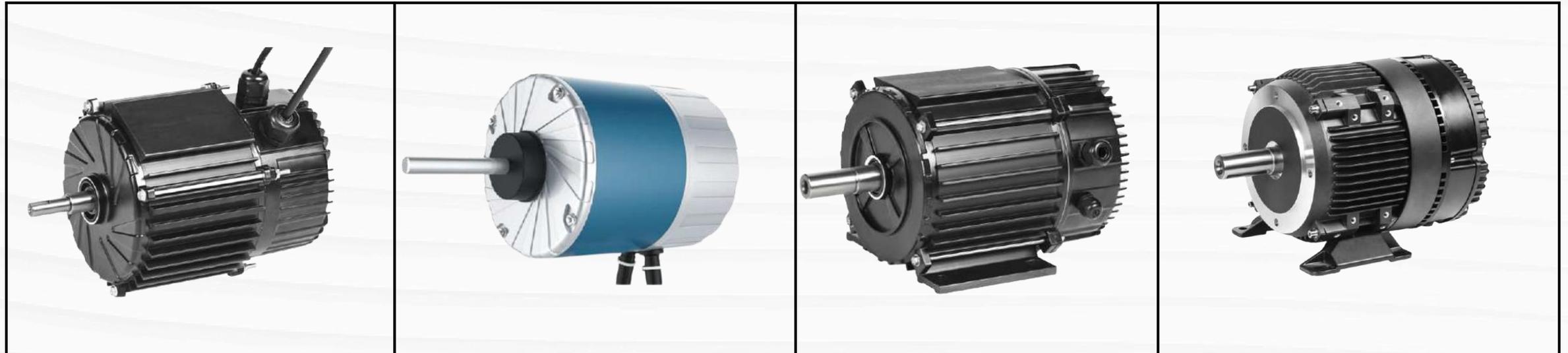
Key Features

- Best for medium to high power applications
- Highly customizable (speed, torque, IP level, etc)
- No need for external inverter / controller

Benefits

- Energy savings vs traditional AC motor (ERP Compliant)
- Cover several fixed speed motor models with one EC motor
- Ease of installation / configuration – connects to grid voltage

Wolong – EC Internal Rotor Range Overview



Series	EM42	EM48	EM56	EC160
Power Range (kW)	0.15 - 0.30	0.18 – 0.75	1.1 – 3.0	4.0 – 7.5
Speed Range (rpm)	200-1200	200-1800	200-4500	200-1800
Power Supply	1~230V, 50/60Hz	1~115/230V, 50/60Hz 3~380-480V, 50/60Hz	3~380-480V, 50/60Hz	3~380-480V, 50/60Hz

Standard Features

- ✓ IP55 / IP66
- ✓ Control Mode 0-10V / Modbus
- ✓ Aluminium Housing
- ✓ System Efficiency >IE4
- ✓ Power Factor >0.90
- ✓ Temperature Range -20°C /+55°C
- ✓ EMC Certification
- ✓ Speed Precision +-1%

Custom Options

- ✓ Higher ambient temperatures
- ✓ Housing colour
- ✓ Shaft dimensions
- ✓ Assembly options

Laundry Washer and Dryer – Home and Professional

AC motor

BLDC motor

Application



Top Loader



Front Loader

Wall mounted



Professional /
Laundromat

AC Motor

100/112/116/120/U119

Power: 30W-500W

Voltage : 220/110V, 50/60Hz

BLDC Motor

DDM/DD/BPM

Power: 60W-750W

Voltage : 220V, 50/60Hz

Micro Motors - Household and Commercial

AC motor

BLDC motor

Application



Vacuum cleaner
Cleaning machine
Food waste disposer
Kitchen mixer
Blender



AC Motor

U70/U79/U95/U76 /U81/U98

Power: 300W-1500W

Voltage : 110/220V

DC Motor

M51/M50/M62/M66 /M70/M78

Power: 30W-1200W

Voltage : 220V

Garden and Power Tools – Home and Professional

Electric Lawnmower Motor & Petrol Starter Motor



High Pressure Sprayer Rotor + Stator



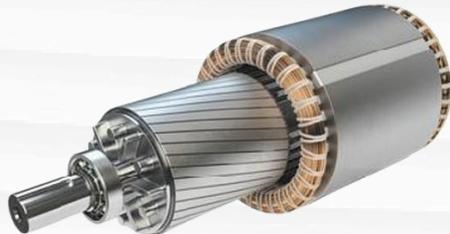
Vacuum Cleaner



Garden Shredder



Electric Nail Gun



Wolong - Circulation Pumps

Our circulation pumps are designed for precise flow control, reliability and energy efficiency, and can be used in heating and cooling applications (-35°C to +50°C ambient)

1

Energy Saving

EEI < 0.2

2

9 Layers of Safety Features

For maximum reliability

3

Wide Head and Temperature Range



Wolong - Circulation Pump Applications



Electric Water Heat



Radiator Circulation



Underfloor Heating



Gas Boiler



Hot Water Heat Pump



Thermal Solar

Key Features

- EEI < 0.2 (industry standard 0.23)
- 9 Layers of Safety Features for maximum reliability
- Suitable for multiple applications

Benefits

- Lower unit and operating cost
- Customizable according to customer requirements
- Addresses industry pain-points (condensation, noise, rust, efficiency)

Wolong - Circulation Pump Range Overview



Series	WXB-B04/06	WXB-B07/09	WXB-B12	WXB-B15/20
Pressure Head (m)	4 / 6	7 / 7.5-8.0 / 9	12	15 / 20
Max Flow (m ³ /h)	2.5 / 3.0	3.5 / 4.5	6.5 m ³ /h	10 m ³ /h
Input Power (W)	22 / 40	60 / 90	180	350
Voltage	220-240V, 50/60Hz	220-240V, 50/60Hz	220-240V, 50/60Hz	220-240V, 50/60Hz

Standard Features

- ✓ -35°C / +50 °C ambient temp.
- ✓ Stainless Steel Housing
- ✓ PWM Control
- ✓ 0°C / 95°C liquid temp.
- ✓ EMC Certification
- ✓ Suitable for Water or 50% Glycol

Custom Options

- ✓ Certification for R290 refrigerant
- ✓ Distance between inlet & outlet
- ✓ Pipe connections
- ✓ VSP Control

Micro Pumps – Household Appliances

Micro pump



AC or BLDC
Power: 4W-60W
Flow: 1.1-14m³/min

Application

Dishwasher Pump

Washing machine Pump

Air conditioning Drainage

Fridge Dispensing Pump



Hermetic Compressors - Rotor and Stator Packs

AC motor



AC
Power: 30W-1200W
Voltage: 220/110V

BLDC motor



BLDC
Power: 50W-1200W
Voltage : 220-320 V

Application

Air conditioning compressor



Refrigeration compressor



Wolong - Monterrey Factory Expansion

Monterrey, Mexico

Original factory acquired from GE in 2018

Factory currently produces LV and HV motors, HV Drives

Phase II: Construction completed in 2025

- Covered area: 14,335 m² (brings total to 40,000m²)
- Plant area: 13,385 m²
- Office area: 950 m²



Phase II New Products

BLDC Motor



EC Motor



EC Fan



Wolong - Vietnam Factory

- Factory opened in 2018
- Main products include BLDC Motor, EC Motor and Household application motors
- Local supply chain
- 100km from major port
- Over 10M Motors produced



BLDC Motor



EC Motor



EC Fan



Wolong – HCG Global Key Accounts

DAIKIN
Carrier
Panasonic
MITSUBISHI ELECTRIC
Haier
Goodman
YORK
Whirlpool CORPORATION
EMERSON

DAIKIN
Carrier
Panasonic
MITSUBISHI ELECTRIC
Electrolux
BOSCH
KÄRCHER
Hisense
Whirlpool CORPORATION
Haier
HITACHI
Johnson Controls



Haier

DAIKIN **Wanbao**
Carrier **Hisense**
Panasonic **SUPOR**
MITSUBISHI ELECTRIC **DONPER**
Haier **TOSHIBA**
HITACHI **GREE**
AUX **jiaxipeta**
TCL **Midea**
Johnson Controls

Haier
MITSUBISHI ELECTRIC
GREE
AUX

DAIKIN
Panasonic
MITSUBISHI ELECTRIC
Haier

DAIKIN