



HIGHLY 海立

Heating & Cooling the World

Shanghai Highly (Group) Co., Ltd.

CATALOG

HIGHLY
海立

 GROUP OVERVIEW

 BUSINESS
FIELD

 CORE COMPETENCE

 ESG



GROUP OVERVIEW

PART 1



Overview



History



Structure



Presence



Honor

OVERVIEW

ShanghaiHighly (Group) Co., Ltd.



Established in 1954



1992 IPO A share (600619) 1993 IPO B share (900910)



Controlling Shareholder :
Shanghai Electric Group Company Limited (28.96%)



TWO INDUSTRIES



Heating and Cooling Solutions
with Core Components



Automotive Parts

OUR HISTORY



1992

Listed on the Shanghai Stock Exchange



2005

Merger and acquisition of Forest Electric



2013

Set up Highly India plant



2017

Set up Highly New Energy



2024

Set up Wuhu Highly New Energy



1993

Established the joint venture Shanghai Hitachi



2009

Set up Nanchang Highly



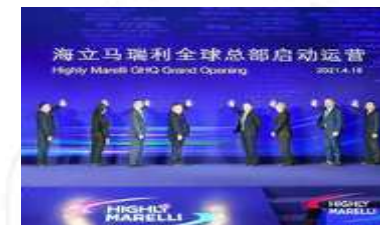
2015

Entered refrigeration motor industry

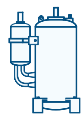


2021

Entered automotive thermal management industry

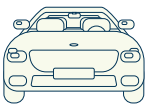


ORGANIZATIONAL STRUCTURE



Heating and Cooling Solutions with Core Components

Highly Electric	(75%)
Hangzhou Fusheng	(100%)
Anhui Highly	(66.08%)
Highly Special Refrigeration Equipment	(70%)
Zhengzhou Highly	(51%)
Highly Nakano	(43%)



Automotive Parts

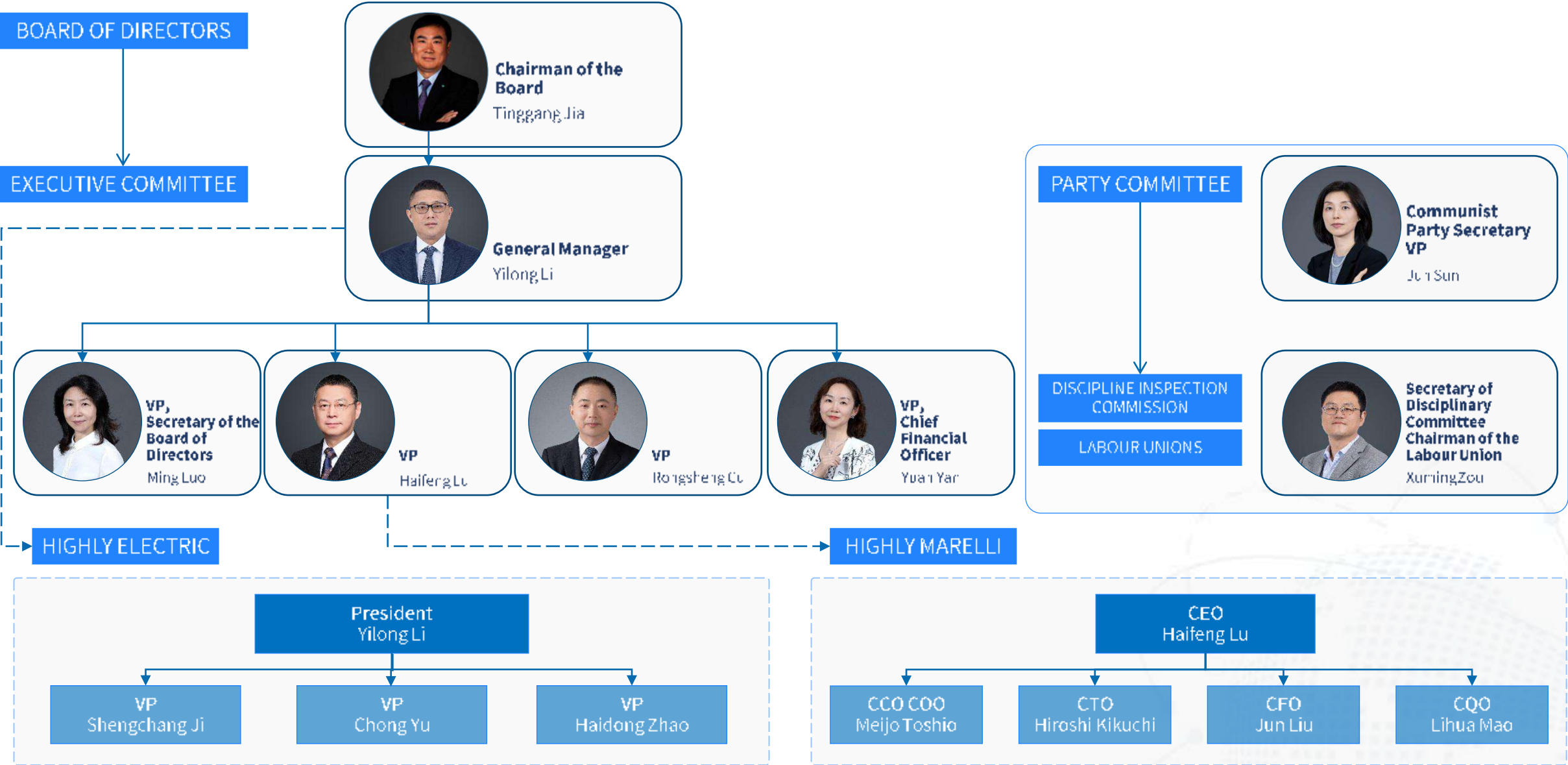
Highly Marelli	(60%)
Highly New Energy	(75%)
Wuhu Highly New Energy	(100%)



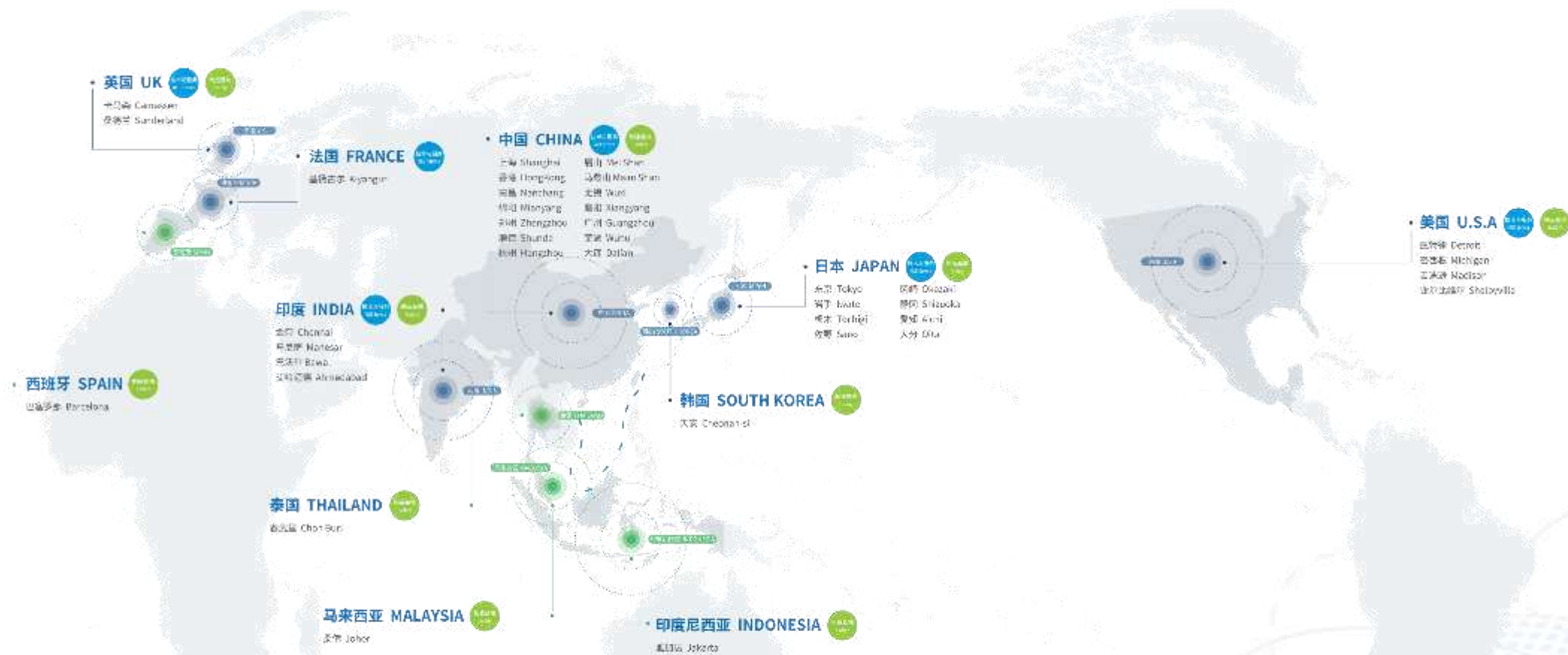
Other Relevant Platforms

Highly International	(100%)
Highly HongKong	(100%)
Wuhu Highly Asset	(100%)
Highly Asset	(49%)
Wuxibili	(30%)

MANAGEMENT STRUCTURE



GLOBAL PRESENCE



12
Countries
& Regions



16 Thousand
Employees



20+ R&D & Technology Service Centres



35+
Manufacturing
Base



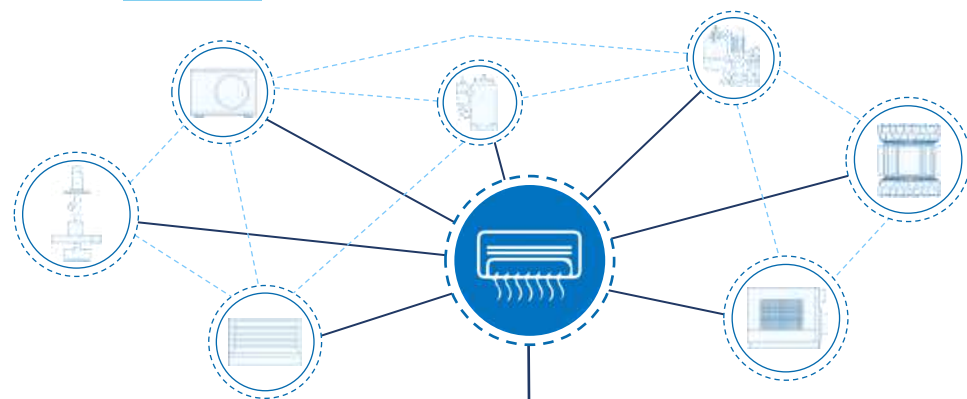
165
Countries and regions served



200 Million
Users

BUSINESS FIELD

PART2

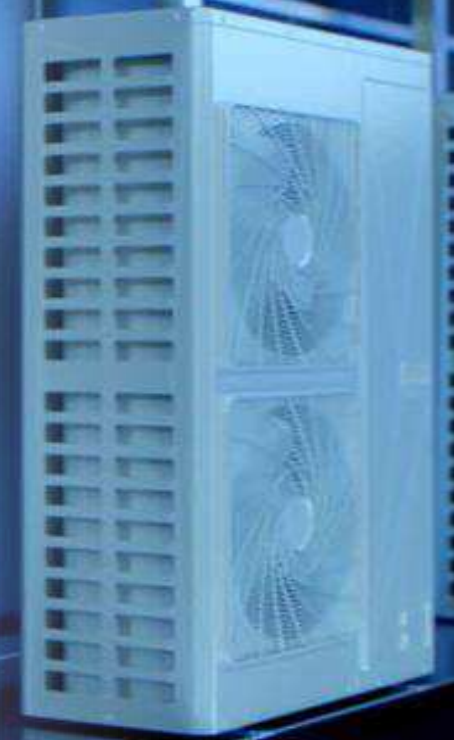
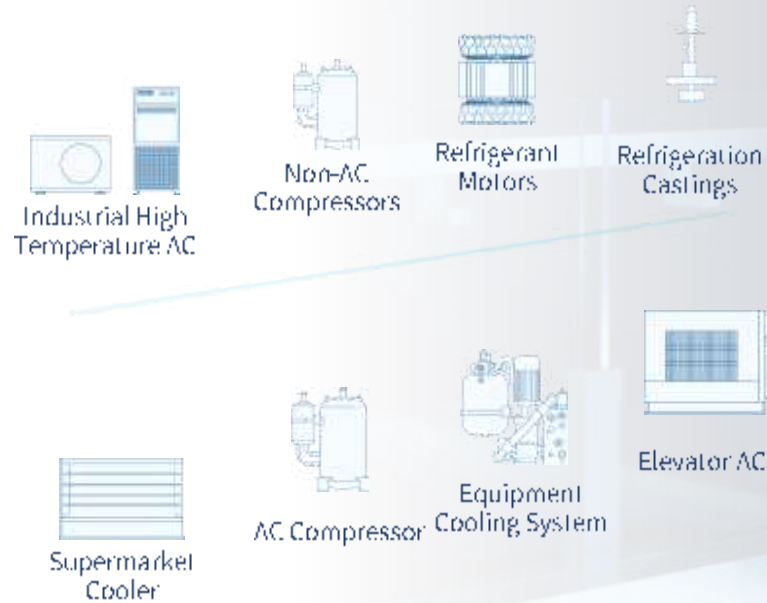


Heating and Cooling Solutions
with Core Components



Automotive Parts

HEATING AND COOLING SOLUTIONS WITH CORE COMPONENTS



COMPRESSORS

HIGHLY
海立

GLOBAL ROTARY COMPRESSOR LEADER



Global rank

3



Manufacture base

5

Shanghai, Nanchang, Mianyang
India, Zhengzhou



Annual production capacity

45 Million



R&D and technical service center

6



COMPRESSORS

9 Series 1000+ Product Model

High Efficiency, Energy Saving, Environmentally Friendly

Domestic AC compressor



Application Areas
Household AC 1-3 P

Commercial AC Compressor



Application Areas
Commercial Building AC 5-24P

New Areas AC Compressor



Application Areas
Heat Pump
Heat Pump Dryer



Application Areas
Refrigeration and Freezing
Vehicle-mounted
Energy Storage and
Temperature Control

REFRIGERATION MOTOR



Annual capacity

40 Million Units

Annual output value

2.5 Billion Yuan

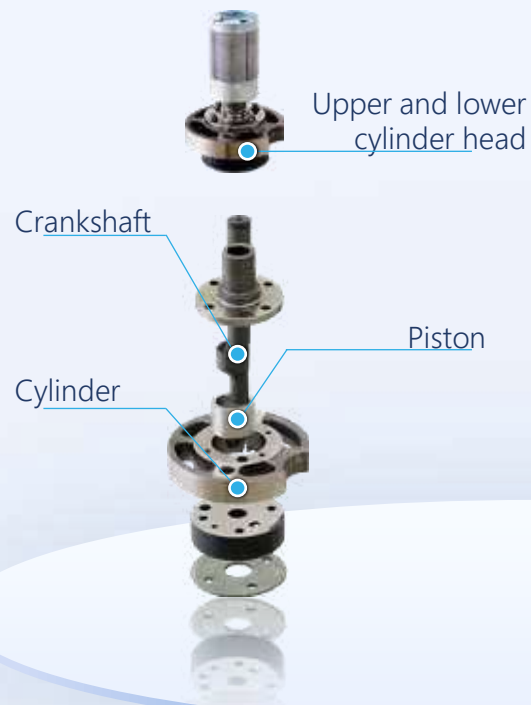
AC compressor
outsourcing market
share exceeds

42 %

Refrigerator compressor
outsourcing market
share

18 %

ROTARY COMPRESSOR CASTINGS



SCROLL COMPRESSOR CASTINGS AND FORGINGS



CASTINGS AND FORGINGS

Annual production capacity (castings)

100 Thousands Tons

Annual production capacity (New material aluminum alloy forging)

2 Million Pieces

Compressor parts machining capacity

100 Million Pieces

Manufacture base

1

COOLING SYSTEM SOLUTIONS

EQUIPMENT THERMAL MANAGEMENT

Powerful cooling for hot equipment

Industrial High
Temperature Application
Scenarios

100+



HIGH TEMPERATURE AC



ELECTRICAL CONTROL CABINET AC



ELEVATOR AC

REFRIGERATOR COLD STORAGE

Covering end-to-end cold chain solutions

Medium and large
commercial freezer industry

Tier 1

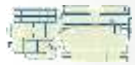


SUPERMARKET COOLER



COLD STORAGE

AUTOMOTIVE PARTS



Automotive Ac systems



New Energy Commercial Vehicle
AC Electric Compressor



Automotive castings



Electric Compressor for New
Energy Passenger Vehicle AC



Automotive AC
Blower Motor



AUTO THERMAL MANAGEMENT SYSTEM

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Space management
Intelligent Thermal
Comfort

AC Box for Electric
Vehicles

Indoor Condenser

Brushless Motor

Lin Actor

Free Up Space

Comfortable
Temperature

Lower Noise

Energy savings
Thermal Energy
Management
Solutions

High Pressure
Water Heater

Indirect Heat Pump
Systems

Thermal Management
System Controller

High Efficiency and
Energy Saving

Module Integration

Environmental
Compliance



Mechanical Automotive AC Compressors

**THE WORLD'S MOST COMPETITIVE
EV THERMAL MANAGEMENT SYSTEM SUPPLIERS**

AUTO THERMAL MANAGEMENT SYSTEM

Annual production capacity of components



Heat
Exchanger

9 million



Mechanical
Automotive AC
Compressors

4.8 million



Fan
Motors

5.2 million



New Energy
Vehicle AC
Compressor

1.8 million



AC
Assembly

7.2 million



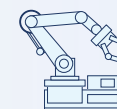
New energy bus
market ranking

1



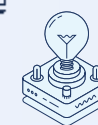
Countries

12



Manufacture
bases

27

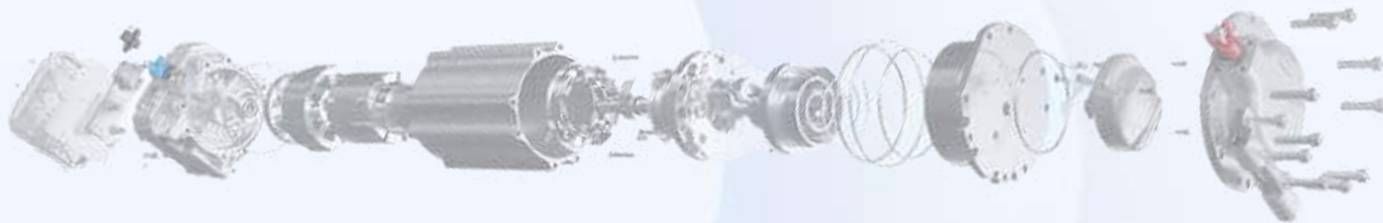


R&D service
centers

10

NEW ENERGY VEHICLE ELECTRIC AC COMPRESSOR

HIGHLY
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PASSENGER VEHICLE

ETS Series

ETH Series



LIGHT TRUCKS & MINIBUSES

EVS Series



HEAVY TRUCKS & BUSES

ECS Series

VEHICLE & COLD CHAIN COMPRESSOR



VEHICLE

- For Parking AC
- For Caravan AC
- For Refrigerator Car
- For New Energy Bus & Battery Thermal Management



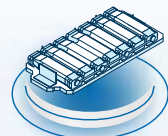
COLD CHAIN

- Ice Creams Machine (Highly 4hp)
- Ice Maker (500lb) (Highly 2HP)
- 48V DC Mobile Refrigerator
- Mobile Refrigerating Unit
- 24V DC Mobile Ice Maker (Micro Compressor)



Industry leader

New Energy Refrigerated Trucks System Compressor



Technology leadership

Battery Thermal Management Rotary Compressors



30+

Parking AC User



Manufacture base

Shanghai

AUTOMOTIVE CASTINGS & FORGINGS

HIGHLY
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10 Million pieces
Annual processing capacity



2 Million pieces
New Energy Compressor Scroll



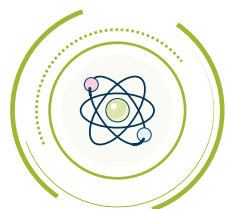
30+
Automotive Brand Customers



Manufacture base
Ma an Shan

CORE COMPETENCE

PART3



**INNOVATIVE
R&D**



**INTELLIGENT
MANUFACTURING**



**LOW
CARBON**



**COST
CONTROLLING**



**CORPERATE
CULTURE**



CORE COMPETENCES (1)

R&D CAPABILITIES IN ELECTROMECHANICS

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"DUAL-DRIVE, THREE-LEVEL, FOUR-PLATFORM" INNOVATIVE R&D STRUCTURE





CORE COMPETENCES ②

FLEXIBLE LARGE-SCALE INTELLIGENT MANUFACTURING CAPABILITY

THE MOST CUSTOMERS, THE MOST VARIETIES, THE FASTEST SPEED



MANUFACTURING CHARACTERISTICS

Multi-species: more than 1000 models in 9 series

Large quantity: 45 million units/year; single line 7 seconds/unit

High quality: off-site defective rate of 20PPM

High precision: product precision μ grade



PROGRAMME FLEXIBILITY



PRODUCTION FLEXIBILITY

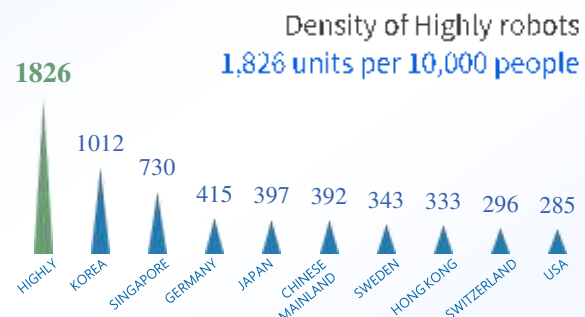


MATERIAL FLEXIBILITY



MATRIX MANAGEMENT

PRODUCTION AUTOMATION



LOGISTICS INTELLIGENCE

Average AGV mileage **671KM/day**

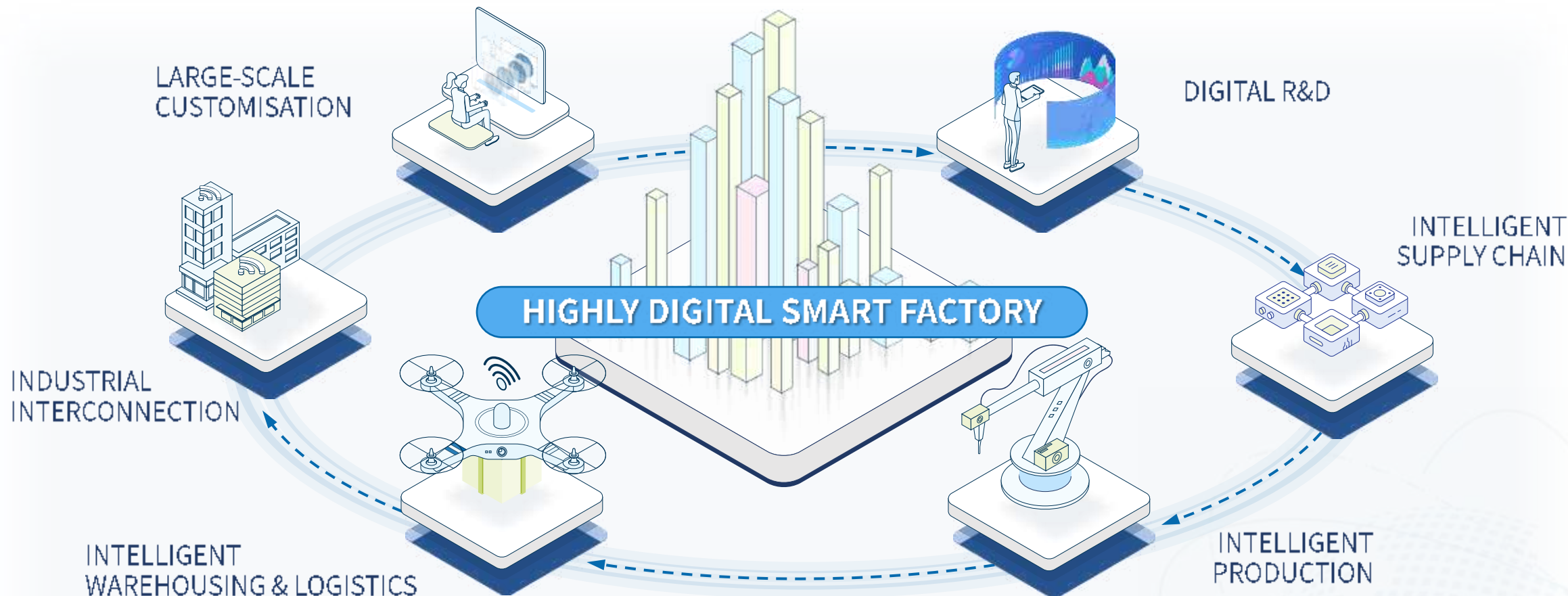
Automated on-site material delivery
to workstations in **15 minutes**



CORE COMPETENCES ②

FLEXIBLE LARGE-SCALE INTELLIGENT MANUFACTURING CAPABILITY

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Highly Digital Intelligent Factory won: Ministry of Industry and Information Technology Intelligent Manufacturing Pilot Demonstration Enterprise, E-works China Benchmark Intelligent Factory



CORE COMPETENCES ③

DECARBONISING GREEN MANUFACTURING AND SUPPLY CHAINS



Promote the "five-one" project of dual-carbon work (Carbon Peak & Carbon Neutrality)

One dual-carbon system, One management standard, One digital platform, One roadmap, and One white paper.

2028

HIGHLY GROUP ACHIEVES
CARBON PEAK IN CHINA REGION

- 1. Peak carbon intensity in the Chinese region by 2028 and total carbon emissions by 2029.
- 2. Comprehensive energy consumption per unit of gross domestic product (GDP) reduced by 13 percent compared with 2020.
- 3. Carbon emissions per unit of GDP (Scope 1 and Scope 2) reduced by 12 percent compared with 2020.
- 4. the share of renewable energy in total energy consumption exceeds 14 percent

2035

HIGHLY GROUP GOES CARBON
NEUTRAL WITHIN THE CHINA
REGION

- 1. Carbon emissions per unit of GDP (Scope 1 and Scope 2) reduced by 35 percent compared to 2020.
- 2. the share of renewable energy in total energy consumption exceeds 35 percent
- 3. Establishing a long-term green regulatory mechanism for the supply chain and achieving a 30 percent reduction in supply chain emissions.

2055

FULL VALUE CHAIN CARBON
NEUTRALITY

- 1. To achieve a green and low-carbon transition in the supply chain.
- 2. Strive to achieve carbon neutrality in the whole value chain based on the verification of carbon emissions (Scope I, II and III).

Green Manufacturing Transformation

National level
Green Factory

- Nanchang (2018) Sichuan (2022)
- Shanghai (2023) Anhui (2023)
- Hangzhou (2024)

Provincial
Green Factory

- Mianyang (2019)
- Wuhu Highly Marelli (2024)
- Zhengzhou (2025)

Highly Electric

- The first batch of green manufacturing demonstration units in Shanghai

PEAK CARBON NEUTRAL TARGET TIMETABLE



CORE COMPETENCES (4)

SCALE FINE COST CONTROL CAPABILITY



Pioneering the implementation of off-site industrial deployment

Building a large-scale manufacturing operation system

Carrying out refined cost management

Forming a double advantage of scale and cost

Economies of Scale



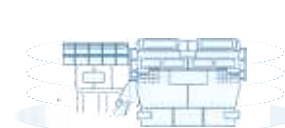
45 million
Compressor



50 million
Motor



100 thousands tons
Castings



7.2 million
AC Assembly



9 million
HeatExchanger

Scale Operation Cost Control

DECENTRALISED PRODUCTION, CENTRALISED CONTROL



Scale layout

12 countries and territories around the world
Nearly 40 manufacturing sites



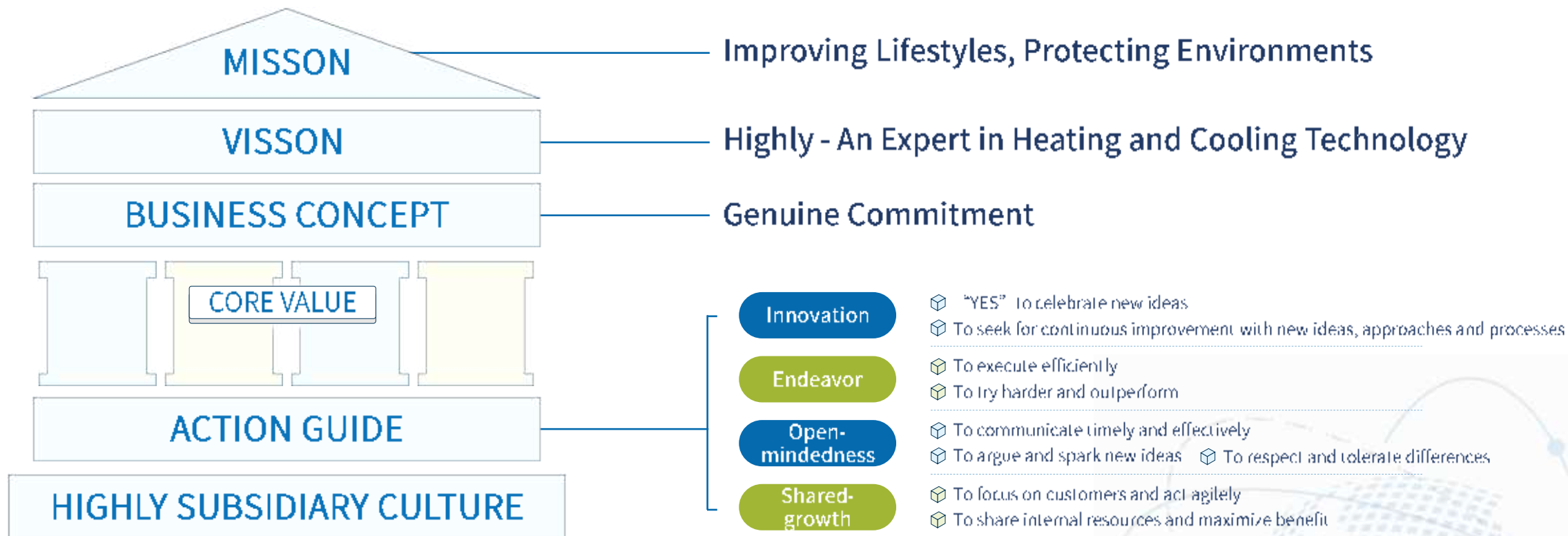
Fine-tuned cost management

Amoeba, management accounting, SAP, profit centers



CORE COMPETENCES (4)

UNIQUE HIGHLY CORPORATE CULTURE



ESG

PART4



ENVIRONMENTAL



SOCIETY



GOVERNANCE



ESG——SUSTAINABLE DEVELOPMENT

Introduced ESG governance concepts, built ESG governance structure, formulated performance indicator system, published ESG report for 4 consecutive years.

Award

The 4th place in China and the 1st place in Shanghai in the ESG-Pioneer 100 Index for State-owned Listed Company



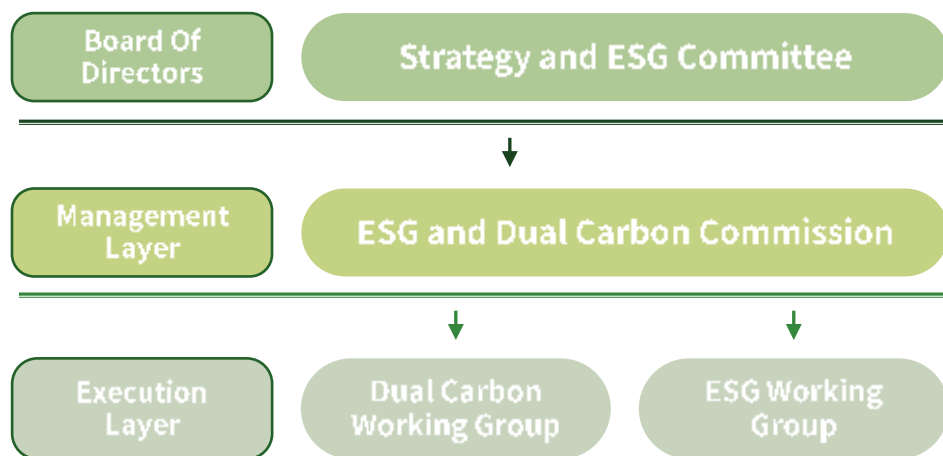
Association

Highly joined the United Nations Global Compact



Action

HIGHLY'S ESG STRUCTURE



Adherence

Highly commits to adhering to the 10 principles of the UNGC and the 17 goals of the SDGs



THANK YOU

