

INFIMOTION



Wuxi InfiMotion Technology Co., Ltd.

in LinkedIn

<https://www.linkedin.com/company/InfiMotion-technology>

Instagram

<https://instagram.com/InfiMotion>



InfiMotion Website



InfiMotion Wechat



InfiMotion Tiktok

Full-stack Intelligent Mobility Solutions Provider

InfiMotion Technology is a full-value-chain enterprise integrating research, development, manufacturing, and sales, committed to becoming a world-leading intelligent mobility solutions provider.

The company covers the entire chain from underlying software to hardware integration, focusing on core power and electronic solutions for new energy. It provides electric drive, power supply, and electronic products for pure electric and hybrid systems, and has a forward-looking layout in diverse scenarios such as intelligent driving, charging, battery management, and low-altitude flight applications.

From ground to sky, from mobility to computing power, infiMotion Technology always takes customer needs as the starting point, provides global partners with efficient, high-quality intelligent and energy-saving products and services, and uses leading technologies to create a cleaner, smarter future.

GLOBALIZATION

R&D Centers and Manufacturing Bases located worldwide, with a complete service system.
Global team can provide 24h online support

Headquarters/R&D Center/Manufacturing Base: Wuxi

R&D Center/Manufacturing Base: Ningbo, Hangzhou, Jiaxing

R&D Branch: Shanghai, Gothenburg

Manufacturing Base: Quzhou, Malaysia



SYSTEM CONSTRUCTION

Professional management system certificates have been awarded

IATF16949:2016
Automotive Quality
Management System



ISO 9001:2015
Automotive Quality
Management System



ISO 14001:2015
Environmental
Management System



ISO 45001:2018
Occupational Health
and Safety System



ISO 26262:2018
Functional Safety
Product ASIL C



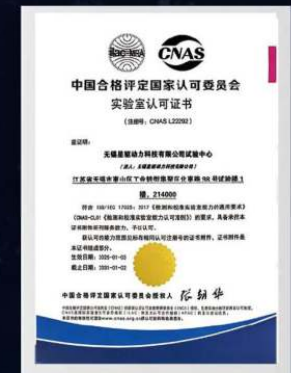
ISO/IEC 27001:2022
Information Security
Management System



ISO/IEC 33002:2015
Automotive SPICE
Capability Level 3



ISO/IEC 17025:2017
CNAS Certificate



PRODUCTS & SERVICE

EDU Products



E-Motor

- Stator
- Rotor



Inverter

- 400V/800V
- N-in-1



Reducer

- 1 Speed
- 2 Speed



EDU

Hybrid Products



OEM/ODM



E-Motor

- Generator
- Traction Motor



Inverter

Dual-Inverter



EDU

Rear Axle



Drivetrain System

- Gear
- Shaft



Drivetrain Component

- Differential/ Differential Lock
- Disconnect
- ELSD



More...

EDU Platforms



Entry-level Platform 40-100kW

Ultimate cost, high integration
X-in-1 controller
Integrated weight <55kg
A00-A0 class

Medium Power Platform 100-250kW

Ultimate efficiency, high integration
CLTC efficiency $\geq 90\%$
Symmetrical side shaft
A0-B class



High Power Platform 250-400kW

Ultimate performance, ultimate efficiency
Power density $\geq 4.8\text{kW/kg}$
CLTC efficiency $\geq 93\%$
B-D class



Ultra-High Power Platform 300-750kW

Track performance, dual-motor drive
Full acceleration 80 times without derating
Super sports car/ultra-high
performance vehicle



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T2310118A0105
V674358
MADE IN CHINA

EDU L200

High-reliability, Ultra-high Integration 11-in-1 Intelligent EDU

High Integration:

- 11-in-1, compact size, integrates motor, reducer, DCDC, OBC, PDU, IPU, VCU, ACCM, GW, TMS, GWRC

High Efficiency:

- High power module
- Advanced heat dissipation technology

High Reliability:

- Passed full-chain verification
- Awarded CARI "High Reliability Electric Drive" Certification

Vehicles:

- GOEME



Item	Parameters
Peak Power(kW)	58
Peak Torque(Nm)	1480
Max. Speed(rpm)	12000
Cycle Efficiency	≥ 89%
Weight(kg)	≤55
Dimension(mm)	472*452*372

EDU L300

Chinese First 3-in-1 EDU with Half-shaft Disconnect Mechanism

Compact Structure:

- Parallel shaft coaxial transmission design;
- Modular optional disconnect mechanism

High Efficiency:

- Cycle Efficiency≥90.01%
- 360° circulation efficient oil cooling system for motor stator;
- Expandable to 400V with 175kW power

High Reliability:

- Global joint development and fit european top brand OEMs standards

Vehicles:

- LYNK & CO 09EM-P、08EM-P、08 Upgraded Version



Item	Parameters
Peak Power(kW)	156
Peak Torque(Nm)	2950
Max. Speed(rpm)	16000
Cycle Efficiency	≥ 90.1%
Disconnect mechanism	Modular Optional
Dimension(mm)	330*521*324

EDU TL300

High-performance 11-in-1 Dual-motor System

High Integration:

- 11-in-1 design, ultimate lightweight

High Efficiency:

- Cycle Efficiency $\geq 89.5\%$

Advanced Technology:

- 1st application of magnesium-aluminum alloy housing. 30% reduction of housing weight.
- Self-developed patented 360° bidirectional full oil cooling technology.
- Torque vectoring control.

Vehicles:

- Galaxy M9、LYNK & CO 900



Item	Parameters
Peak Power (kW)	2*170
Peak Torque (Nm)	2*3400
Max. Speed (rpm)	18000
Cycle Efficiency	$\geq 89.5\%$
Weight (kg)	109.5
Dimension (mm)	538*586*353

EDU L401

Globally Developed 11-in-1 Ultra-high Integration Domain-controlled EDU
Winner of 2024 TMC Innovative Technology Award

High Integration:

- 11-in-1 design, ultimate lightweight

High Efficiency:

- 400V Cycle Efficiency $\geq 90.04\%$
- 800V Cycle Efficiency $\geq 92.54\%$

High Compatibility:

- Compatible with 400V & 800V platforms

High Quality:

- Functional safety aligned with European high-end automakers

Vehicles:

- Galaxy E5、Galaxy E5 Global Edition



Item	Parameters
Peak Power (kW)	160
Peak Torque (Nm)	3200
Max. Speed (rpm)	16500
Cycle Efficiency	$\geq 90.04\%$
Weight (kg)	79.8
Dimension (mm)	495*507*394

EDU P600

900V Compact High-performance EDU (High Efficiency & Lightweight)

High Performance:

- Peak performance: 360kW/5200Nm
- Power density ≥ 4.8 kW/kg
- Torque density ≥ 67 Nm/kg

High Efficiency:

- Compact inverter brick design;
- Cycle Efficiency $\geq 93.7\%$

Miniaturization:

- Ultra Light Weight
- 77kg – Lowest weight in the same class

Vehicles:

- ZEEKR 001, ZEEKR 7X, ZEEKR 8X, ZEEKR 9X



Item	Parameters
Peak Power(kW)	360
Peak Torque(Nm)	5200
Motor max. speed(rpm)	21000
Cycle Efficiency	$\geq 93.7\%$
Weight(kg)	≤ 77
Dimension(mm)	458*558*325

EDU TP501

World's First 900V High-performance Magnesium Alloy Coaxial Dual-motor EDU

High Performance:

- Magnesium housing in mass production
- Top power/torque density
(5.69kW/kg, 72.7Nm/kg)
- Stator-rotor deep oil cooling technology
(50% higher thermal load capacity)

Flexibility:

- Dual motor independent drive for left and right wheels, torque accuracy $\leq 2\%$
- Multi-scenario torque vectoring control
- High-precision resolver application

Vehicles:

- ZEEKR 9X



Item	Parameters
Peak Power(kW)	360*2
Peak Torque(Nm)	4730*2
Motor max. speed(rpm)	21000*2
Cycle Efficiency	$\geq 92.4\%$
Weight(kg)	≤ 130
Dimension(mm)	427*656*325

EDU L408

Platform-based Asynchronous Flat Wire EDU (Expandable to 900V)

Lightweight & Miniaturization:

- OD190mm compact motor
(minimum weight 75.71kg)
- 900V version with ultra-high speed (22100rpm)

High Efficiency:

- Low drag loss
- Active lubrication method

Excellent NVH:

- Low radial electromagnetic force density

Vehicles:

- ZEEKR 7X、Smart #5



Item	Parameters
Peak Power(kW)	215
Peak Torque(Nm)	3189
Max. Speed(rpm)	22100
Cycle Efficiency	-
Weight(kg)	≤80
Dimension(mm)	378*553*403

EDU L505

900V High-voltage, High-performance, Expandable EDU Series

Platformization:

- Platform design for ASM & PSM EDU
- Power coverage 220-310kW

High Efficiency:

- PSM Cycle Efficiency ≥92.4%

High Power Density:

- 900V version power density ≥3.73kW/kg

Vehicles:

- ZEEKR 001、ZEEKR 009、Smart #5



Item	Parameters
Peak Power(kW)	320
Peak Torque(Nm)	3970*2
Max. Speed(rpm)	18500
Cycle Efficiency	≥92.2%
Weight(kg)	≤83kg
Dimension(mm)	445*475*313

E-motor Platforms



Miniaturization

OD180

Topology: 6-pole 54-slot\8-pole 48-slot\
12-pole 72-slot

Max. Speed (rpm): 22100

Peak Power (kW): 215

Cooling Method: Oil Cooling

Winding: Hair-pin, Mini-pin

High Efficiency

OD220

Topology: 6-pole 54-slot\ 8-pole 48-slot\
8-pole 72-slot

Max. Speed (rpm): 18500

Peak Power (kW): 310

Cooling Method: Oil/Water Cooling

Winding: Mini-pin, X-pin



High Performance

OD230

Topology: 8-pole 48-slot

Max. Speed (rpm): 21000

Peak Power (kW): 370

Cooling Method: Oil Cooling

Winding: Hair-pin, Mini-pin

OD180 Series

MS1800 & MS1804

Platform-based Development for Different Power Bands

High Efficiency:

- Peak efficiency up to 97.1%

High Slot Fill Rate:

- Hair-pin flat wire oil-cooled motor

Platformization:

- Fast development cycle with modular design



Item	MS1800	MS1804
Peak Power (kW)	150	160
Peak Torque (Nm)	290	310
Max. Speed (rpm)	16000	16500
Max. Efficiency	≥ 97.1%	≥ 97.1%
Stator OD (mm)	180	180

OD220 Series

MS2201 & MS2206

Platform-based development enables compatibility with both water-cooled and oil-cooled motors

High Power/Torque Density:

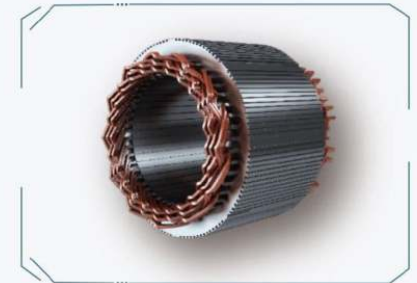
- Power density 6.25kW/kg
- High-torque density electromagnetic topology

Excellent NVH:

- 8-pole 72-slot design

Platformization:

- Compatible with oil/water cooling
- Fast development cycle



Item	MS2201	MS2206
Peak Power (kW)	170-200	190
Peak Torque (Nm)	310-350	295
Max. Speed (rpm)	16500	18000
Max. Efficiency	≥ 97.8%	≥ 97.4%
Stator OD (mm)	220	224

OD220 Series

X-pin

The application of X-pin reduces the end length by 10-20%.

High Performance

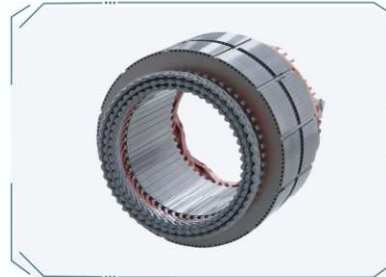
- High power and torque
- Max. speed can cover 22000 rpm

Excellent Cooling

- Direct oil cooling in stator and rotor improving continuous performance

Short end-length

- Uses X-pin winding which can shorten winding end of ~20%



Item	Parameters
Peak Power (kW)	310
Peak Torque (Nm)	378
Max. Speed (rpm)	≥ 22000
Cycle Efficiency	≥ 97%
Stator OD (mm)	220

OD230 Series

NDE34 E-motor

The application of short Mini-pin winding technology Slot-near cooling OD230 Motor in mass production

High power & torque density:

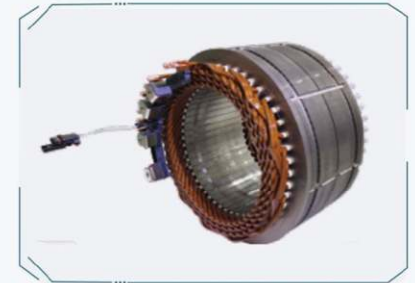
- Power density: 12.34 kW/kg
- Torque density: 18.5 Nm/kg

High Efficiency:

- Cycle Efficiency ≥ 96.26%
- Stator cooled near slot, rotor cooled near magnet → significantly improves thermal load capacity

Excellent NVH:

- Self-adhesive silicon steel, significantly enhancing rigidity



Item	Parameters
Peak Power (kW)	370
Peak Torque (Nm)	555
Max. Speed (rpm)	21000
Cycle Efficiency	≥ 97.55%
Stator OD (mm)	230

Inverter Platforms



Hybrid Dual Inverter 400V Platform

Power Range: $\leq 200\text{kW}$

Power Device: L7/HPD MINI/TPAK(Si)

Functional Safety: Up to ASIL D

BEV Inverter 400V Platform

Power Range $\leq 200\text{kW} / 200\text{kW} * 2$

Power Device: HPD/HPD MINI

Functional Safety: Up to ASIL D



Hybrid X-in-1 Dual Inverter 800V Platform

Power Range $> 180\text{kW}$

Power Device: TPAK(Si&SiC)

Functional Safety: Up to ASIL D

BEV Inverter 900V Platform

Power Range $\geq 220\text{kW} / 220\text{kW} * 2$

Power Device: Inverter Brick (SiC)

Functional Safety: Up to ASIL D



CS400 Series

Intelligent X-in-One Cross Domain Controller –High Efficiency, Excellent EMC Performance

High integration:

- Integrated MCU OBC DCDC PDU VCU LBMS HBMS TMS GWRC
- EVCC integrated for global version

Magnetic integration

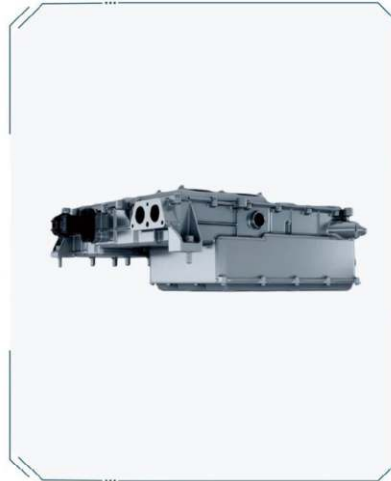
- OBC and DCDC share power module and inductance

Intelligent PWM control

- Optimized NVH
- Lower PWM frequency, power loss reduction

Lower weight

- Small size
- Weight reduction 15% (Total weight)



Item	Parameters
Peak power (kW)	≥160
Peak current (Arms)	350~500
Voltage range (V)	200 ~ 490
Max. efficiency	≥ 98.5%
Size(L*W*H) (mm)	421*507*157

CT400 Series

Intelligent Dual Motor Inverter–High Efficiency and Reliability

High integration

- Power configurable
- Integrated PDU

High power Density

- 400V series up to 25.5kVA/L
- 800V series up to 45.9kVA/L

High Efficiency

- Intelligent PWM control
- Upgradeable to 800V SiC
- Max. efficiency ≥99.6%

Lower weight

- Small size
- Weight down to 11.5kg



Item	Parameters
Peak power (kW)	P1≥100 P3≥130
Peak current (Arms)	P1:350~500 P3:500
Voltage range (V)	160 ~ 470
Max. efficiency	≥ 98.7%
Size(L*W*H) (mm)	540*260*162

900V BEV Single Inverter

900V High-integration, High-power-density and High-efficiency Pure Electric Intelligent Single-drive Controller

High integration

- Power configurable
- Integrated PDU and Boost voltage charging to meet the high-voltage operation requirements

High power density

- Power density 67.7kVA/L

High Efficiency:

- Intelligent SVPWM control
- Max. efficiency $\geq 99\%$

Lower weight

- Smaller size
- Weight down to 8.8kg



Item	Parameters
Peak Power (kW)	370
Peak Current (A)	650
Voltage Range (V)	380-935
Peak Efficiency	$\geq 99\%$
Dimension (mm)	317*306*88.3

900V BEV Dual Inverter

900V High-integration, High-power-density and High-efficiency Pure Electric Intelligent Dual-drive Controller

High integration

- Power configurable
- Integrated PDU and Boost voltage charging to meet the high-voltage operation requirements

High power density

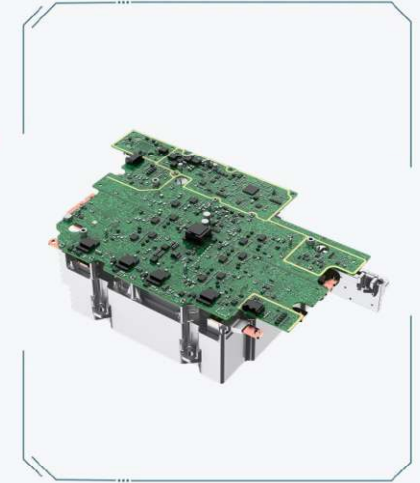
- Power density 27.62 kW/L

High Efficiency

- Intelligent SVPWM control
- Max. efficiency $\geq 99\%$

Lower weight

- Smaller size
- Weight down to 20.4kg



Item	Parameters
Peak Power (kW)	2*370
Peak Current (A)	2*650
Voltage Range (V)	380-935
Peak Efficiency	$\geq 99\%$
Dimension (mm)	524*328*156

Reducer

Axial Parallel Reducer

Powerful output

- Parallel shaft offset compact structure
- Powerful output, torque density over 165.4Nm/kg
- Ultra-low oil churning loss
- High overlap ratio and low gear transfer misalignment

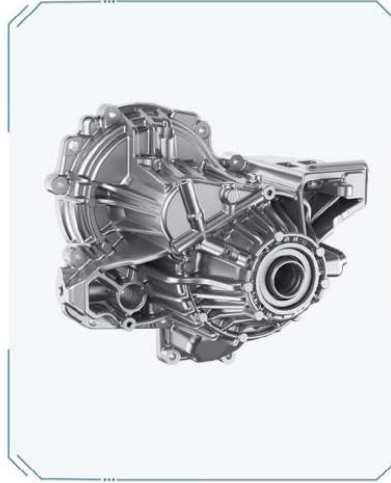


Item	Parameter
Weight(kg)	39.3
Torque(Nm)	6500
Max. Input Speed(rpm)	20000
Max. Efficiency	≥98%
Cycle Efficiency	≥97%

Coaxial Layshaft Reducer

Small size with strong output

- Co-axial Input and output power flow
- Small volume, compact structure
- Mature manufacturing process



Item	Parameter
Weight(kg)	20
Torque(Nm)	2920
Max. Input Speed(rpm)	16000
Max. Efficiency	≥98.3%
System Efficiency-WLTC	≥97.8%

Coaxial Planetary Reducer

First self-developed and mass produced coaxial planetary dual-motor reducer in China

- NW planetary structure
- Innovative, delicate, compact structure
- Adopt four-point angular contact ball bearing
- Max. efficiency ≥98.5%, torque density up to 296Nm/kg



Item	Parameter
Weight(kg)	14.4
Torque(Nm)	4275
Max. Input Speed(rpm)	21000
Max. Efficiency	≥98.5%
System Efficiency-WLTC	≥97.62%



Intelligent Manufacturing

Layout of Intelligent Manufacturing Bases



Stator line

Automation rate 88%

100% fully automatic wire forming and insertion



BOSCH antistatisch

Rotor Line

Automation rate 95%+

Dynamic balance accuracy
0.1g * mm/kg



SMT LINE

Flexible production

PCBA production cover
50*50mm-350*450mm

Equipment accuracy $\pm 25\mu\text{m}$



DIP Line

Industry-leading process design; High-automation
integration (soldering, testing, dispensing, coating)



INVERTER ASSEMBLY LINE

100,000 level clean workshop

Flexible production

Fully automatic on-load aging test line

EDU LINE

MES system production data traceability

Displacement accuracy 0.01 mm

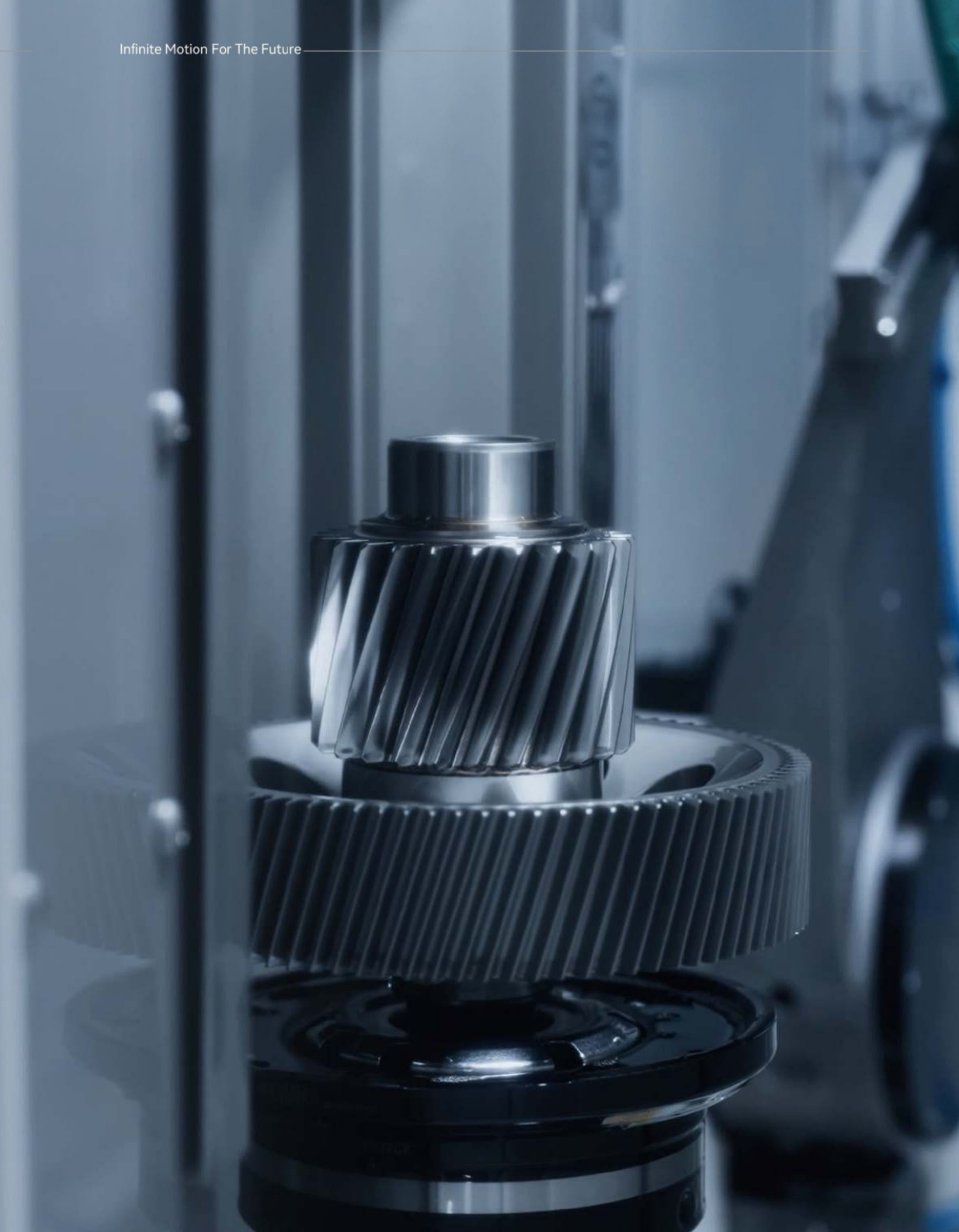
Equipment accuracy 0.1 μ m & measurement accuracy 3 μ m

Gear & Shaft Line

High-efficiency intelligent equipment

Accuracy up to grade 5

Complete inspection system ensures high quality control





Performance test



Environment test



EMC test with load



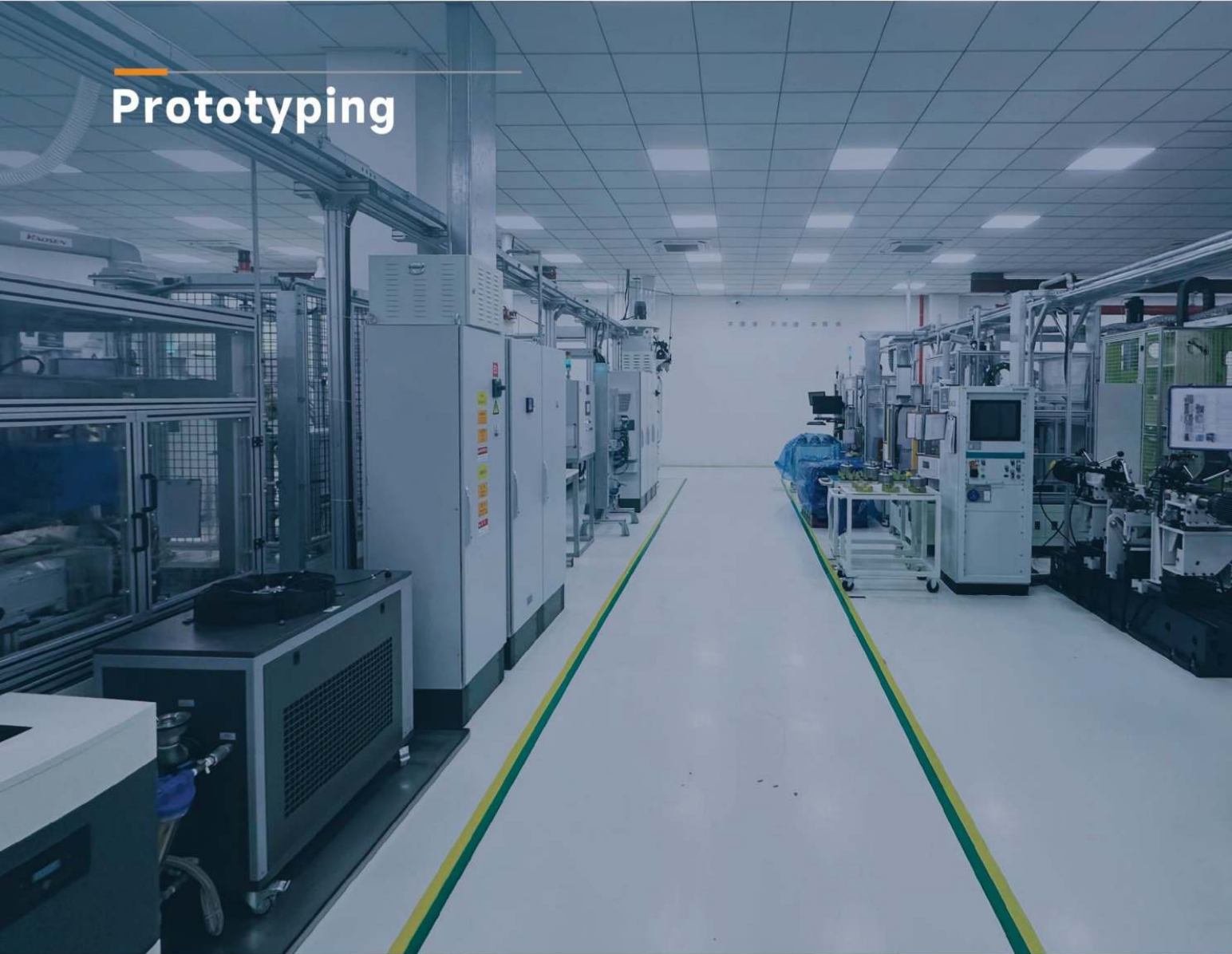
Reliability test



Testing & Verification

- > Obtained CNAS authoritative certification
- > The world first use case of **30000rpm E-Motor test bench**
- > Test bench parameters covering testing requirements of electric drive systems for conventional passenger cars and performance vehicles, covering up to 550kW high-performance E-motor testing
- > Compatible with 400V/800V/925V
- > Industry leading EMC test with load capabilities, compatible with EDU, motors, battery packs, static and dynamic EMC test requirements

Prototyping



> EDU System



> Hair Pin E-Motor



> Inverter



> Reducer



> PCBA



> ODP

Smart Logistics & Warehousing

Fully automatic electronic component vertical warehouse

1100 m² area, 40,000 storage locations

Ultra-high density electronic storage

Automatic material receiving/issuing/storage

Intelligent Measurement System

International advanced equipment

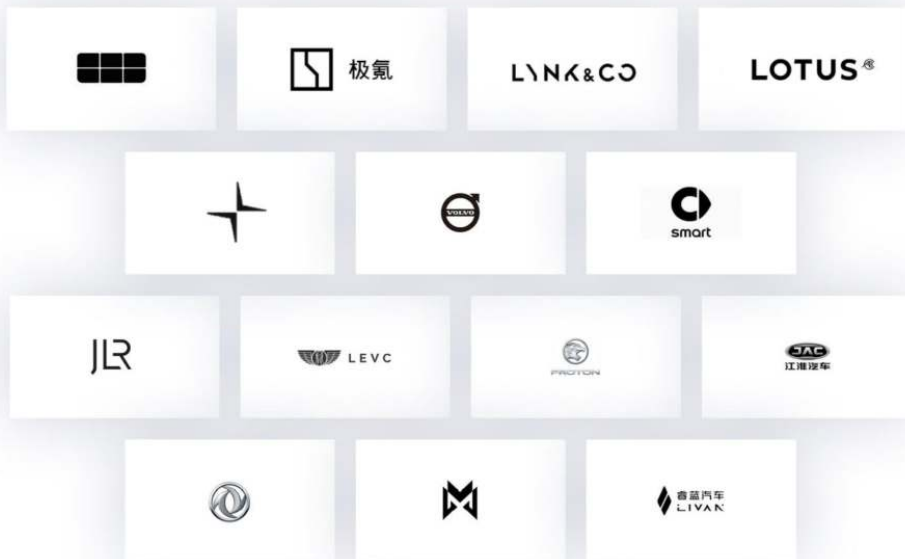
Accuracy 0.1 μ m

Ensuring every detail quality



Customer

Vehicle Brand



Commercial Vehicle Brands



Tier 1



SUPPLY CHAIN



Complete supply
Chain System
With global suppliers

3 5 0 +

Professional
Supplier sourcing
Delivery time can be
effectively improved

2 0 %

Extreme cost
Accounting & control
Effective cost
reduction of approx

2 5 %

ESG



>20000MWH
photovoltaic power generation

100%
The manufacturing base is obtained ISO14001 environmental management system certification

0
Manufacturing plant wastewater discharge



0
Accident

100%
Employee training coverage

100%
The manufacturing base is obtained ISO45001 Occupational Health and Safety Management System certification.

100%
The manufacturing base is obtained IATF 16949 Automotive Quality Management System Certification

0
Harm

100%
Customer satisfaction



902.564 h
Total hours of management and staff participation in business ethics and compliance training

17.3577 person-time
Total number of management and staff participating in business ethics and compliance training

>99%
Employee "Compliance Declaration" signing rate

>90%
Supplier "Supplier Code of Conduct" signing rate

>90%
Supplier 'Business Partner Integrity Compliance Statement' Signing Rate

