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.

Infinite Motion For The 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

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SYSTEM CONSTRUCTION

Professional management system certificates have been awarded

IATF16949:2016
Automotive Quality Management System

ISO 9001:2015
Automotive Quality Management System

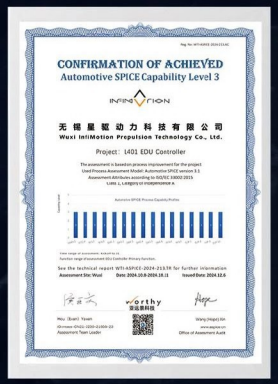
ISO 14001:2015
Environmental Management System

ISO 45001:2018
Occupational Health and Safety System

ISO 26262:2018
Functional Safety Product ASIL C

ISO/ICE 27001:2022
Information Security Management System

ISO/IEC 33002:2015
Automotive SPICE Capability Level 3



ISO/IEC 17025:2017
CNAS Certificate

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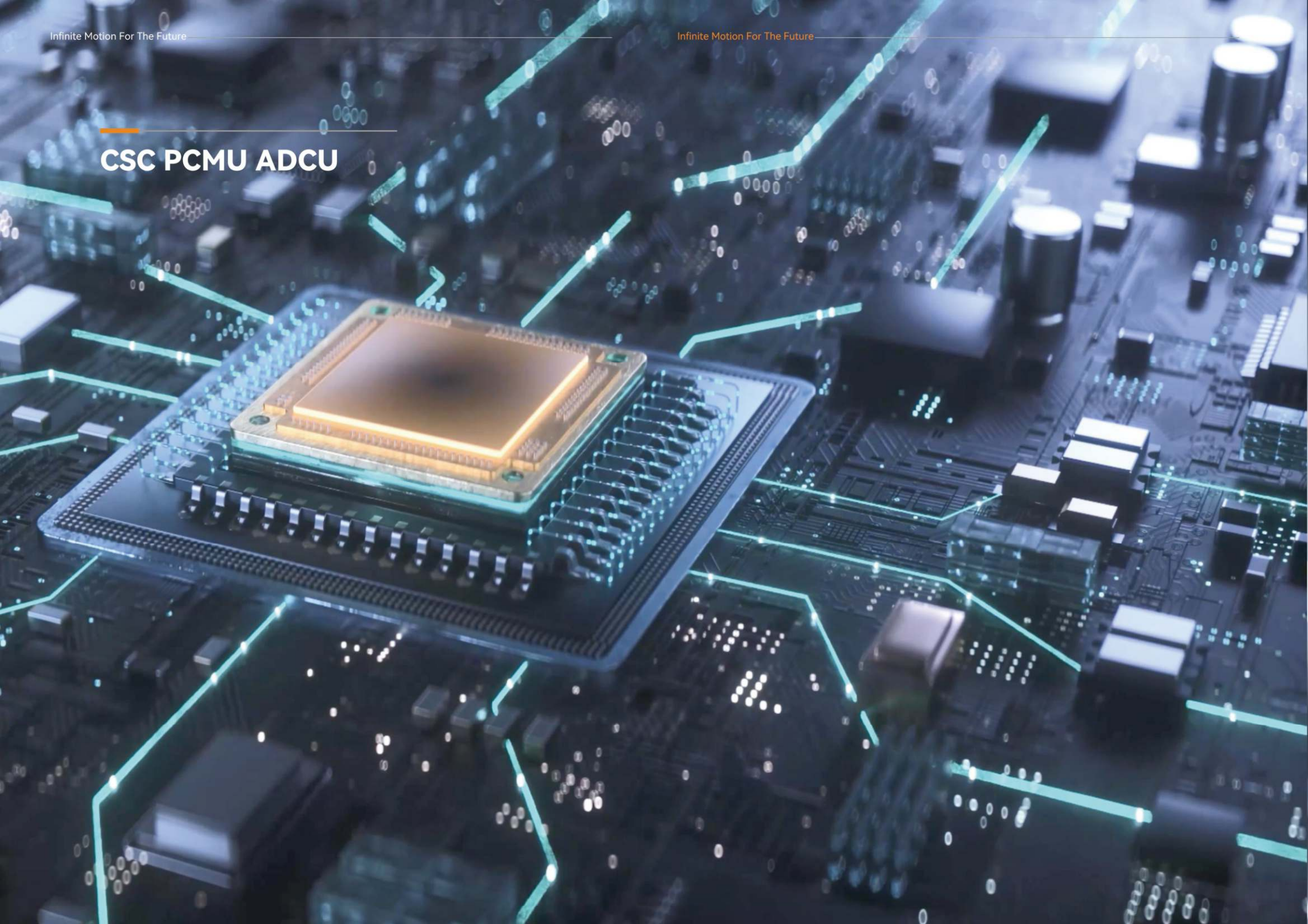
CSC PCMU ADCU



ADCU Ultra

External Devices

· Supports access to a variety of external devices such as cameras, ultrasonic radars, millimeter-wave radars, lidars, DTOF, and infrared cameras

Implemented Functions

· With the industry's first dual NVIDIA DRIVEThor-U chip providing more than 1400TOPS of computing power, combined with a triple 360° dead-angle-free perception matrix built by 43 perception units and 8 full-link safety redundancies, it takes the lead in launching the world's first infrared AEB function, enabling the vehicle to accurately identify obstacles and brake in a timely manner even in heavy fog that is indistinguishable to the human eye

Item	Parameter
Core Computing Power	Dual Thor-U：1400TOPS
Weight (kg)	3
Overall Dimension (mm)	385*285*41

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ADCU MAX

External Devices

· Supports access to a variety of external devices such as cameras, ultrasonic radars, millimeter-wave radars, lidars, DTOF, and infrared cameras

· Supports up to 14 cameras or video input interfaces

· Supports up to 3 video Bypass output interfaces and 1 DP to GMSL2/3 video output interface.

· Supports up to 12 CAN interfaces and 1 Flexray interface

· Supports up to 5 Gigabit Ethernet interfaces

Implemented Functions

· It can realize functions such as intelligent driving and intelligent parking

Item	Parameter
Core Computing Power	700TOPS
Total Power Consumption (W)	265 (Estimated Value)
Weight (kg)	2.5
Safety Level	ASIL-D
Overall Dimension (mm)	220*188*40

CSC3.0

Single THOR-U

Interface Design:

· Supports access to a variety of external devices such as cameras, ultrasonic radars, millimeter-wave radars, lidars, DTOF, and infrared cameras.

High Integration:

· Integrates USS control module, high-precision positioning module, wading radar, control module, etc., to achieve "integrated driving and parking" at the software and hardware level.

Cockpit SOC

· Based on Qualcomm platform QAM8295, it integrates SG32 gateway and body control functions, and incorporates the function of 5G TCAM

Reliability:

· Meets the industry's most stringent electromagnetic compatibility standards (CISPR25-2021 Class 5)

Item	Parameter
Core Computing Power	Single Thor-U: 730Tops
Operating Temperature (°C)	-40~85
EMC	Meets Geely Q-JLY J7110779E-2023 Standard
Protection	IP5K2
Weight (kg)	6.5
Overall Dimension (mm)	220*188*124.8

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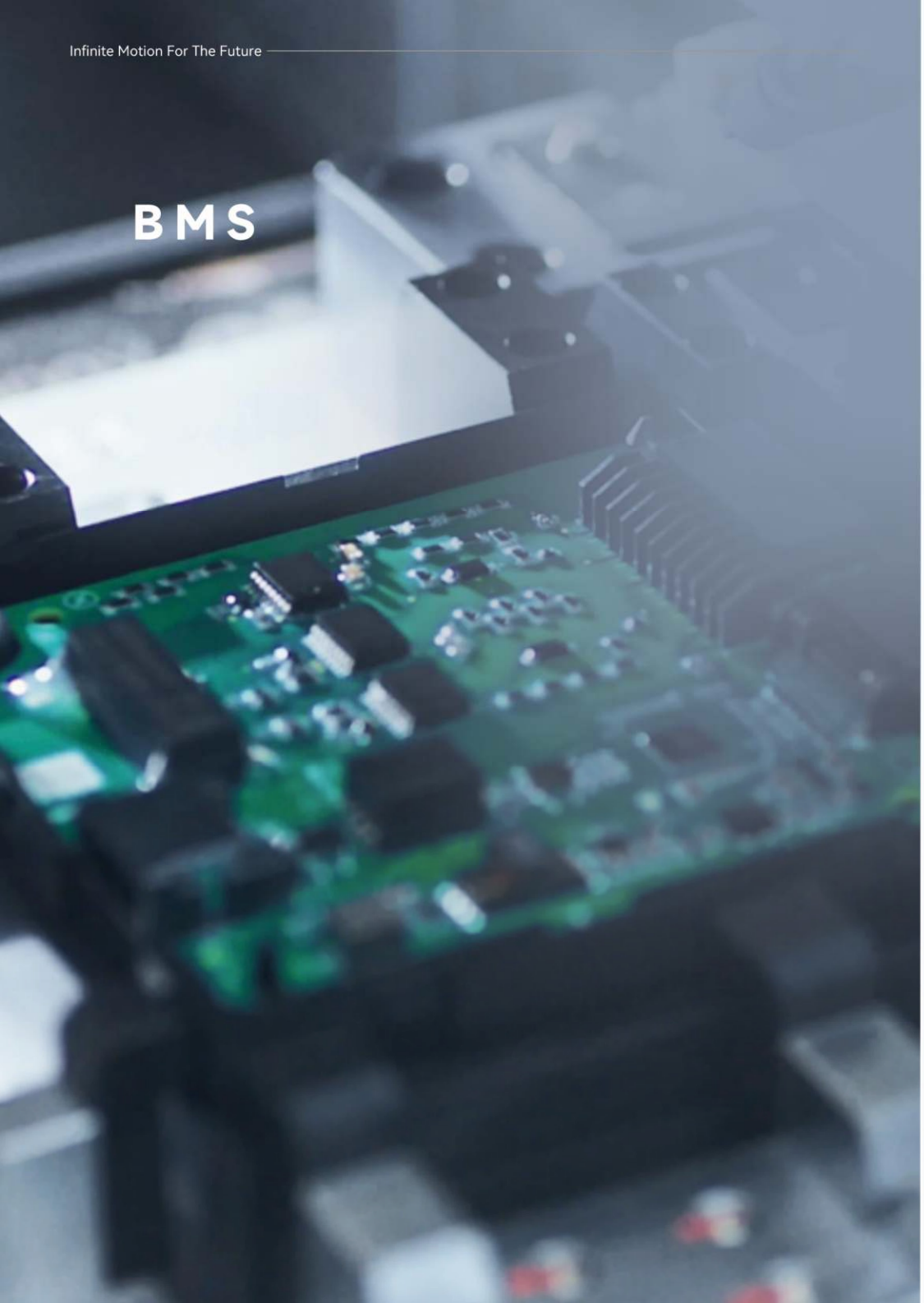
PCMU

Intelligent Driving Control Integrated Collaborative Management

A modular, platform-based, software-hardware separated intelligent driving domain controller based on high computing power (8KDMPS) and high-safety chips. ,

It centrally controls vehicle driving functions such as driving, braking, and steering, realizes integrated power chassis control, vehicle-cloud collaboration, and full life cycle management, meeting the vehicle driving function requirements for vehicle autonomous driving level 3 and above.

Item	Parameter
Computing Power	8KDMPS
CPU Core	TC399
Functional Safety	ASIL C
Weight (kg)	1.3
Overall Dimension (mm)	230*253*46



BMS

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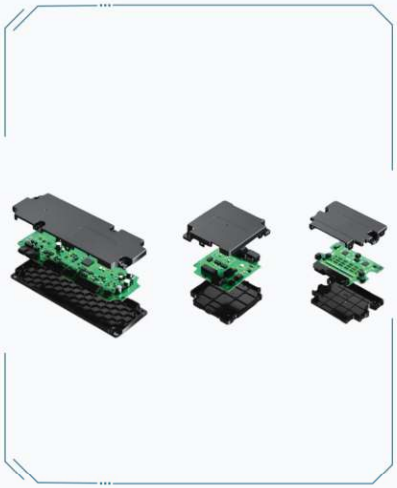
BMS

400V/800V Intelligent Battery Management Ensures High-Voltage Safety

The all-new 800V BMS platform offers greater efficiency, safety, and intelligence. Paired with Zeekr's robust SEA vast architecture and new intelligent batteries, it easily achieves a 1000 KM range, fully alleviating users' "range anxiety". Additionally, its millisecond-level high-voltage flashover protection technology constantly ensures your vehicle's safety.



项 目	BMS2.0	BMS3.0
MCU	TC377	TC377
Current Accuracy	1%	0.5%
HV power outage time	Collision ≤2ms / Overcurrent ≤10ms	Collision ≤2ms / Overcurrent ≤2ms
Individual voltage accuracy	±3mV	±2mV
Functional safety	ASIL C	ASIL C/D
Communication	Support bidirectional daisy chain communication	Support bidirectional daisy chain communication
Information safety	CAL-2	/
Computing power	/	300MHz 1800 DMIPS

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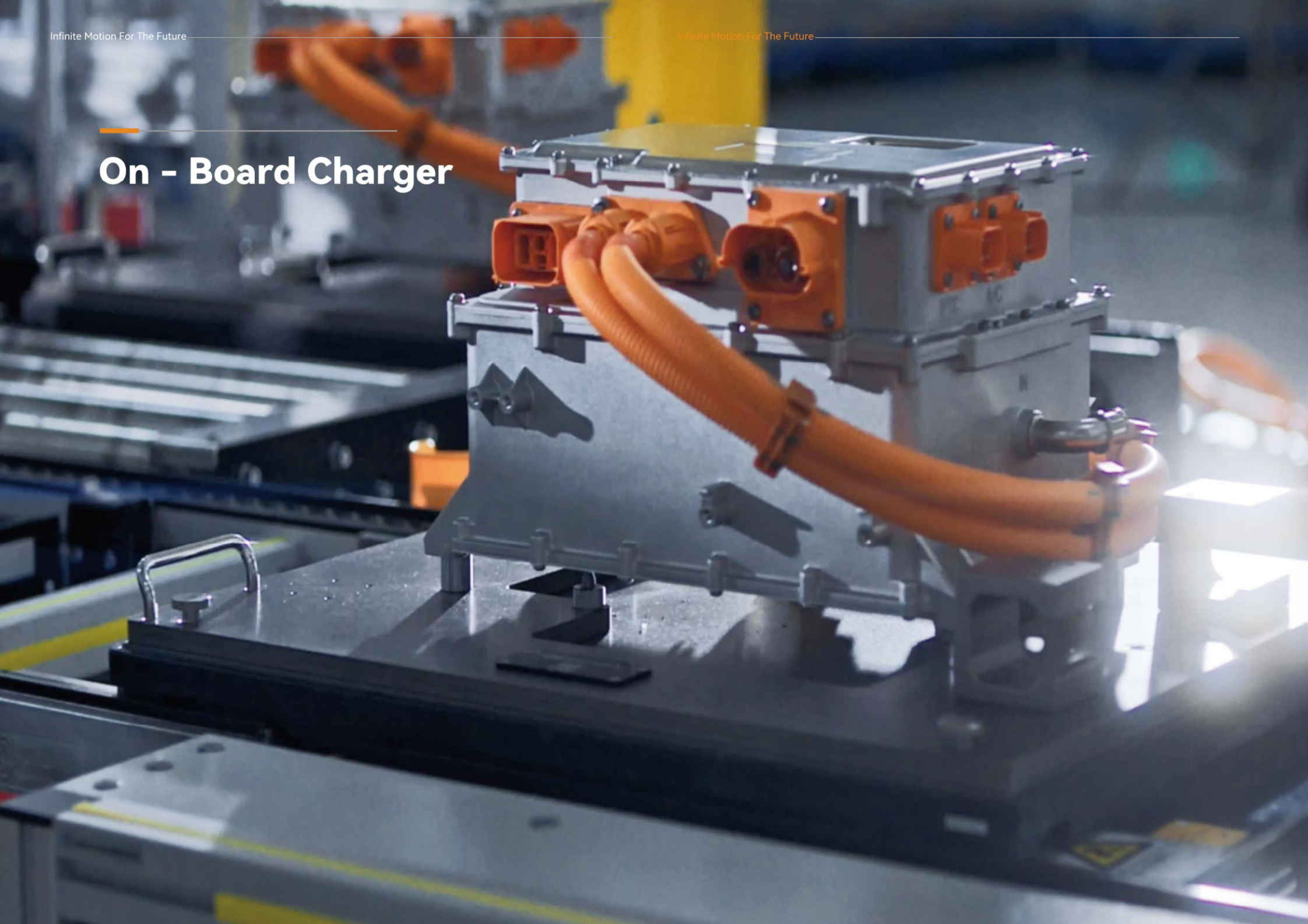
On - Board Charger



NCE13

800V ODP

High Integration and Power Density:

· Three-in-one, 3Pha magnetic integration + 3Pha rectifier bridge, single DSP control for PFC and LLC

High Efficiency Performance:

· Wide operating voltage range, phase loss operation

Vehicles:

Smart 5#EU, ZEEKR 7xEU, 007GTEU

Item	NCE13
OBC Input Voltage Range (Vdc)	1P:85-265 3P:300-460
OBC Maximum Input Current (A)	31.5
OBC Output Voltage Range (Vdc)	420-860
Bidirectional Support	V2L & V2V
OBC Charging Efficiency	Max 96.3% Avg 96%
DCDC Input Voltage Range (Vdc)	380-860
DCDC Output Voltage Range (Vdc)	9-16
Power Level (kW)	3
DCDC Efficiency	Max 95% Avg 94%
Overall Dimension (mm)	305*218*190
Weight (kg)	14
Safety Level	OBC: ASIL (A) ,DCDC: ASIL (C)

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NCE21

900V OD

High Integration and Power Density:

· Two-in-one

· 3Pha magnetic integration + 3Pha rectifier bridge

· single DSP control for PFC and LLC

High Efficiency Performance:

· Wide operating voltage range, phase loss operation

New Traditional Platform Advantages:

· DCDC and LLC share magnetic circuit to save magnetic component costs

· single chip, deep integration of single DSP;

· power device top heat dissipation, optimizing power path and connection, and improving assembly convenience.

Item	NCE21
Overall Dimension (mm)	300*210*70
OBC Voltage Range (Vdc)	430-925 (Full Load: 550-925)
OBC Efficiency	94.5% (Full Load Efficiency)
OBC Input Frequency Range (Hz)	40-70
OBC Inverter Power (kVA)	6
OBC Inverter Efficiency	93.5% (Full Load Efficiency)
DCDC Input Voltage Range (Vdc)	390-935 (Full Load: 430-925)
DCDC Output Voltage Range (Vdc)	9-16
DCDC Power (kW)	3.6 (Rated Current: 261A)
Weight (kg)	≤8
Cooling Method	Water Cooling
Functional Safety	OBC: ASIL(B), DCDC:ASIL(C)

Intelligent Manufacturing Bases

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Layout of Intelligent Manufacturing Bases

Wuxi

R&D & Manufacturing

EDU / E-motor / Inverter / DCDC PCBA

Factory area：130,000㎡

Jiaxing

EDU / E-motor / Inverter / Drone

Factory area：20,350㎡

Ningbo

EDU / E-motor / Inverter

Factory area：68,000㎡

Hangzhou

ODP /BMS / PCMU / MCU / ADCU / PCBA / Charging pile

Factory area：280,000㎡

Quzhou

EDU / E-motor / Inverter

Factory area：91,000㎡

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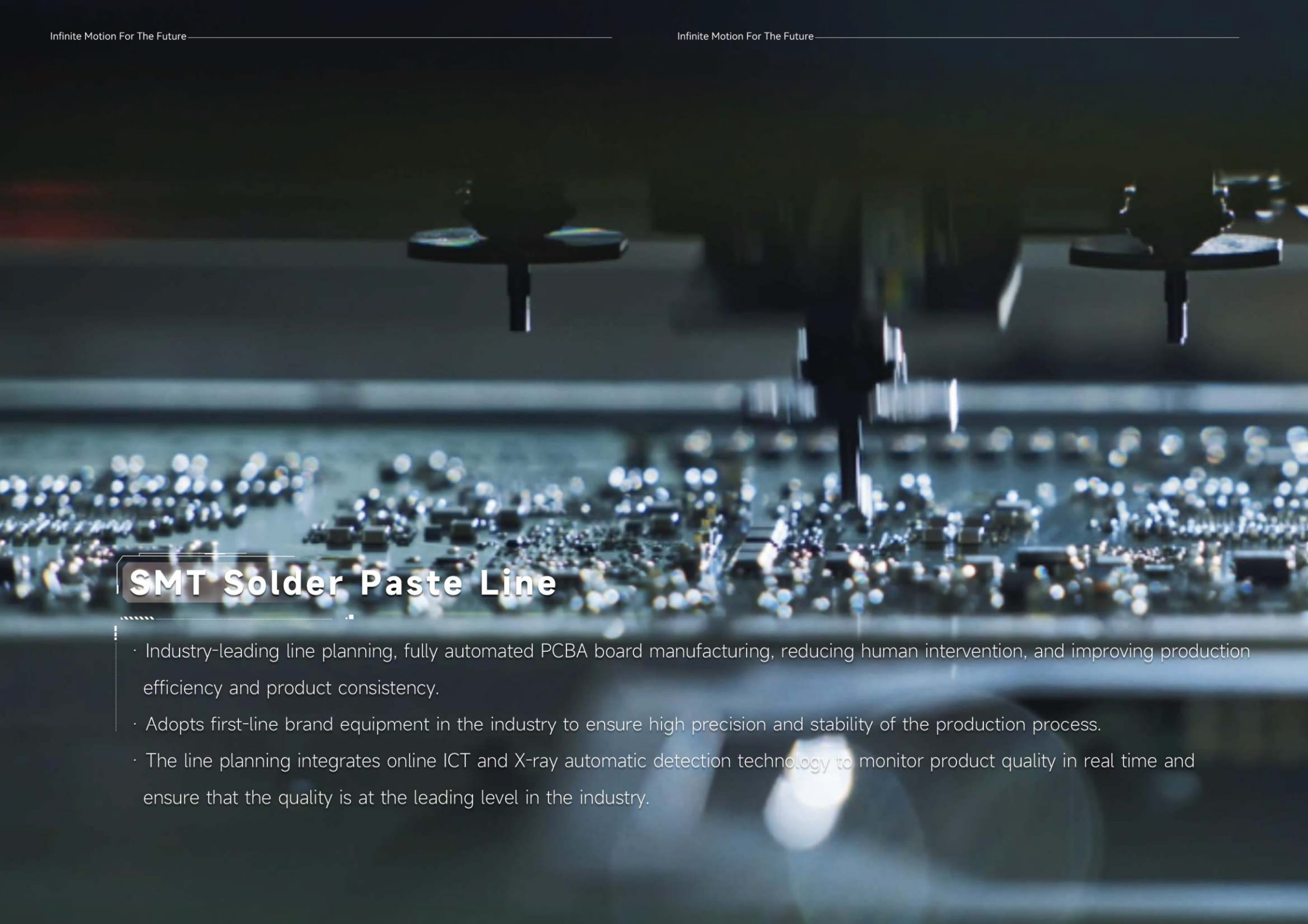

SMT Solder Paste Line

- Industry-leading line planning, fully automated PCBA board manufacturing, reducing human intervention, and improving production efficiency and product consistency.
- Adopts first-line brand equipment in the industry to ensure high precision and stability of the production process.
- The line planning integrates online ICT and X-ray automatic detection technology to monitor product quality in real time and ensure that the quality is at the leading level in the industry.

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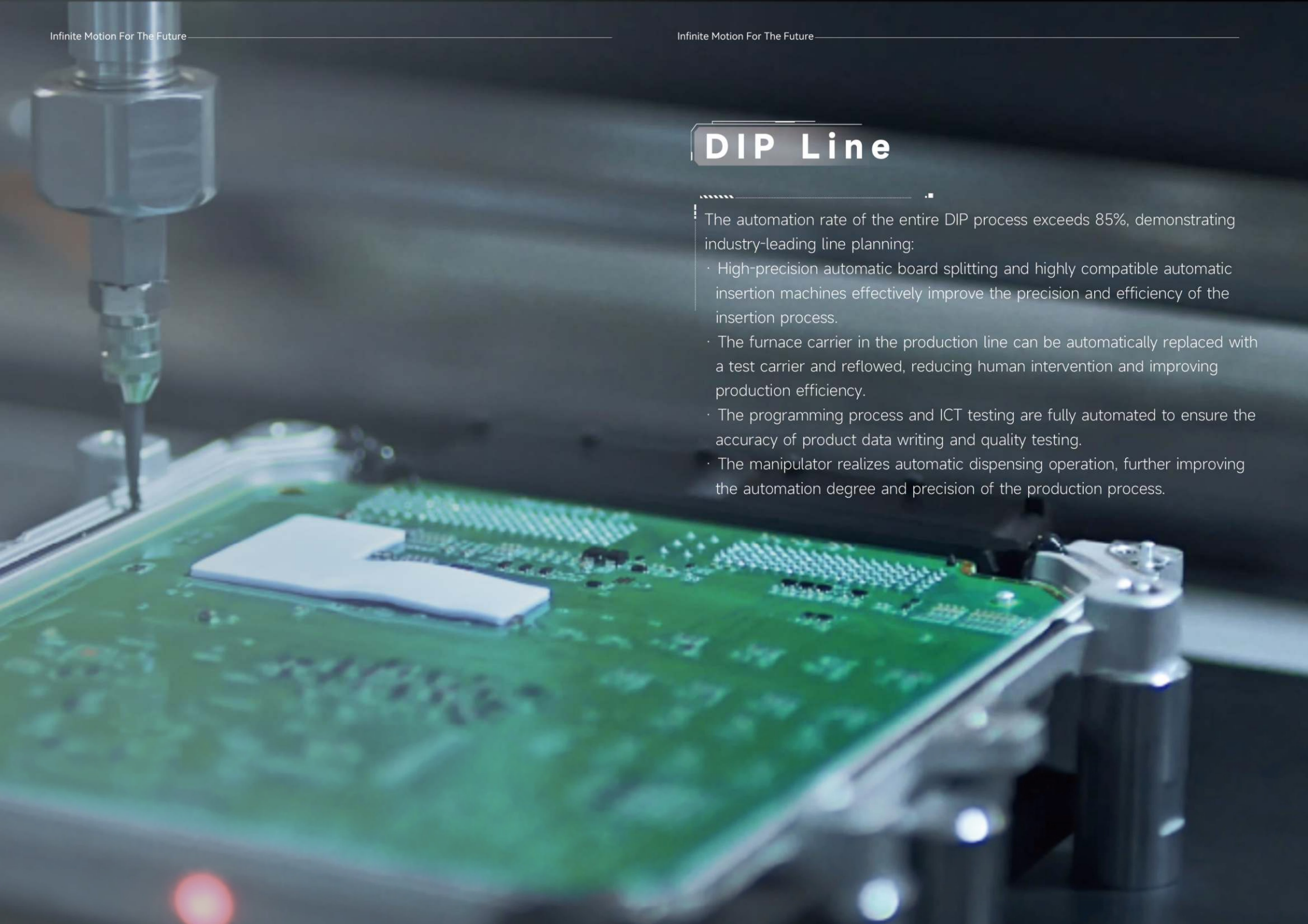
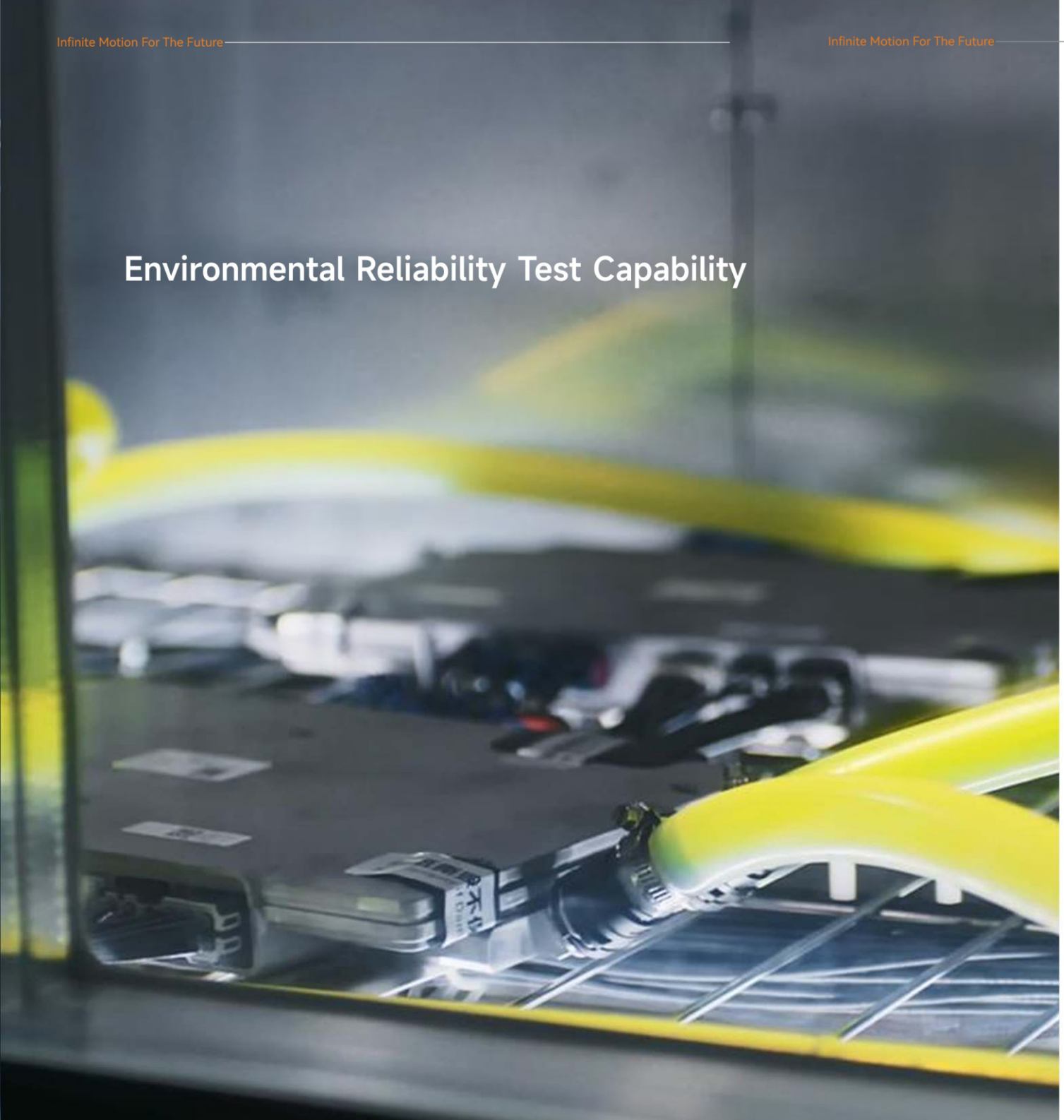


DIP Line

The automation rate of the entire DIP process exceeds 85%, demonstrating industry-leading line planning:

- High-precision automatic board splitting and highly compatible automatic insertion machines effectively improve the precision and efficiency of the insertion process.
- The furnace carrier in the production line can be automatically replaced with a test carrier and reflowed, reducing human intervention and improving production efficiency.
- The programming process and ICT testing are fully automated to ensure the accuracy of product data writing and quality testing.
- The manipulator realizes automatic dispensing operation, further improving the automation degree and precision of the production process.



Environmental Reliability Test Capability

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Testing & Verification

Power Battery Test Capability

Electrical performance test
safety performance test
function verification

Environmental Reliability Test Capability

Three comprehensive tests
temperature shock
damp heat cycle
seawater immersion
salt spray
dust and water proof
high altitude
mechanical shock
drop

Motor and Electronic Control Test Capability

800V high-voltage system test bench
high-speed single motor test bench 1E
three-motor test bench 3E
four-motor test bench 4E
electronic control simulation test bench
electronic and electrical 800V

Charging System Test Capability

OBC-DCDC performance test bench
OBC-DCDC durability test bench
super charging test bench

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Intelligent Logistics and Warehousing

The fully automatic electronic material storage stereoscopic warehouse has ultra-high-density electronic storage, covering an area of 1100m² with 40000 storage locations, which can meet the electronic material storage of 20 SMT production lines working 22H/day for 20 consecutive days. It can meet the production of 40 SMT production lines with high efficiency.

Controlled by WMS system, information is traceable throughout the whole process, and tasks are ordered according to production plans; full digital coverage, materials are delivered according to actual production, and information flow and physical flow are synchronized.

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Smart Logistics & Warehousing

Automatic Electronic Material Handling System

- Automatic mixed storage of materials
- Automatic & accurate receiving & dispensing
- Synchronization of physical inventory & accounts

Customer

Vehicle Brand

极氪
LYNK&CO
LOTUS
VOLVO
smart
JLR
LEVC
PROTON
JAC 江淮汽车
LIVAN 睿蓝汽车

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Commercial Vehicle Brands

远程汽车 FARIZON AUTO
SANY
CAMC | 华菱汽车

Tier 1

HORSE
ZF
CATL 宁德时代
MAGNA MAGNA POWERTRAIN
SCHAEFFLER

SUPPLY CHAIN

Infinite Motion For The Future

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 %

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ESG

ESG

Environment

>20000MWH
photovoltaic power generation

100%
The manufacturing base is obtained Is014001 environmental management system certification

0
Manufacturing plant wastewater discharge

Society

0
Accident

100%
Employee training coverage

0
Harm

100%
Customer satisfaction

100%
The manufacturing base has obtained IS045001 Occupational Health and Safety Management System certification.

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

Governance

902.564h
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