



北 圭 汽 车

CHINA VEHICLE INDUSTRY

江苏北圭汽车科技有限公

China Vehicle Industry Co.,Ltd

Subdivision

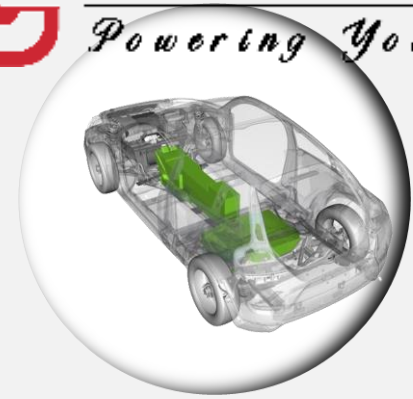
/Leading/Specialization

/concentration



CHINA VEHICLE INDUSTRY

Powering Your Future



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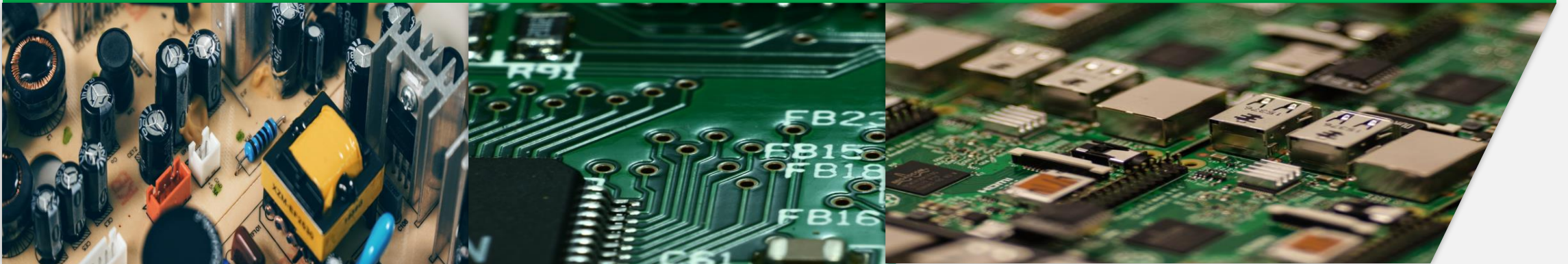




CHINA VEHICLE INDUSTRY
Powering Your Future



1. Enterprise overview



I、Enterprise Overview-----



China Vehicle Industry Co., Ltd. has been invested the R&D center of EV charger is located in Zhenjiang City, Jiangsu Province, close to Zhenjiang South Station. The factory is located in Songjiang District, Shanghai, 20 kilometers away from Hongqiao Airport. The production base covers an area of 2,000 square meters. The company is mainly engaged in new energy Design, research and development, production and sales of AC and DC charging piles.

The company's project combines the advanced technology of the Internet of Things, adopts the model of app + operation platform + smart charging pile equipment, and puts all research and development projects into the charging of new energy vehicles. The company is a new energy charging enterprise integrating operation, research and development, production, sales and service. Adhering to the values of being down-to-earth and for innovation, it is committed to becoming a first-class manufacturer and operator of new energy charging equipment in China. A new energy vehicle will contribute to every piece of blue sky and white clouds in the motherland.

I、Enterprise Overview---Company Profile

- The EV Charger company invested by China Vehicle Industry was established in 2016.
- In 2016, the first generation of 7KW AC charging pile and 60KW integrated DC charger were introduced to the market,
- In 2018, the second generation of AC charging cabinets and 60KW-300KW DC charging piles were introduced to the market
- Customers such as State Grid, Dongfeng Motor, Shaanxi Public Transport, Guohua Real Estate, etc.
- In addition to real estate residential areas, public transportation systems, and urban commercial real estate industries, we have also actively developed the heavy-duty truck and ship charging supporting industries, especially the heavy-duty truck sector, providing charging for Dongfeng Heavy Truck, ChargePoint, the largest charging pile company in North America, Yanfeng, etc. supporting facilities



I、Enterprise overview-Honor and certificate system

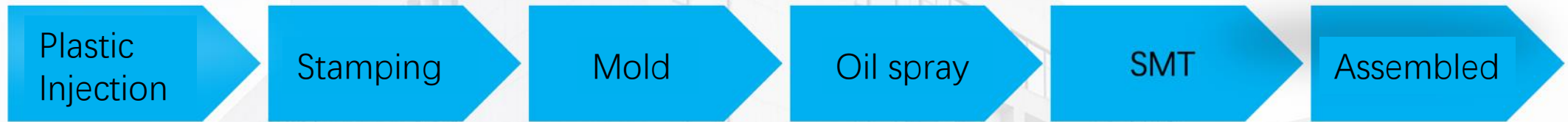
order number	Certificate name	Certificate number
1	ISO 9001: Zhenjiang Factory	12820Q 2542R OSCN 16/31484
2	IATF 16949:2016Zhenjiang Factory2021Guangdong Factory2015	NO IATF :0365067
3	OHSAS 18001:2007	10118S 13037ROM
4	ISO 9001:2015	2020/85844. 1
5	ISO 14001:2015	10118E 23763ROM
6	high and new tech enterprises	GR 201744005784



I、Enterprise overview-Production advantages



Complete industrial chain integration enterprise
完整的产业链整合型企业

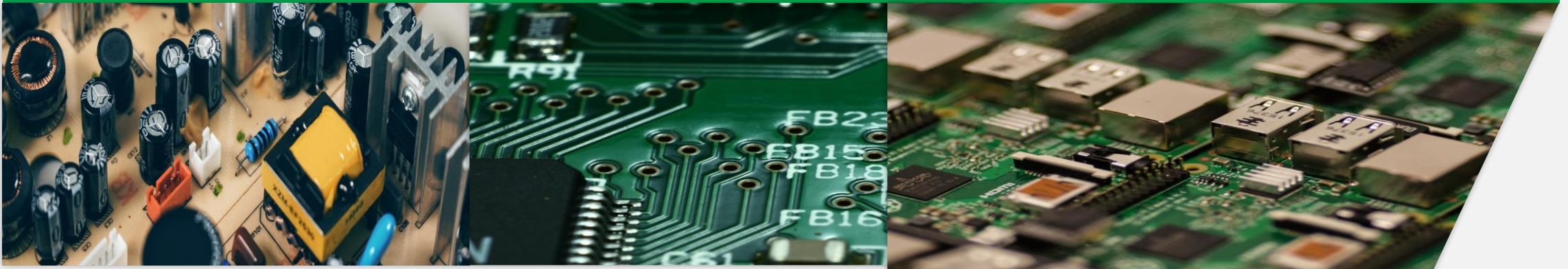




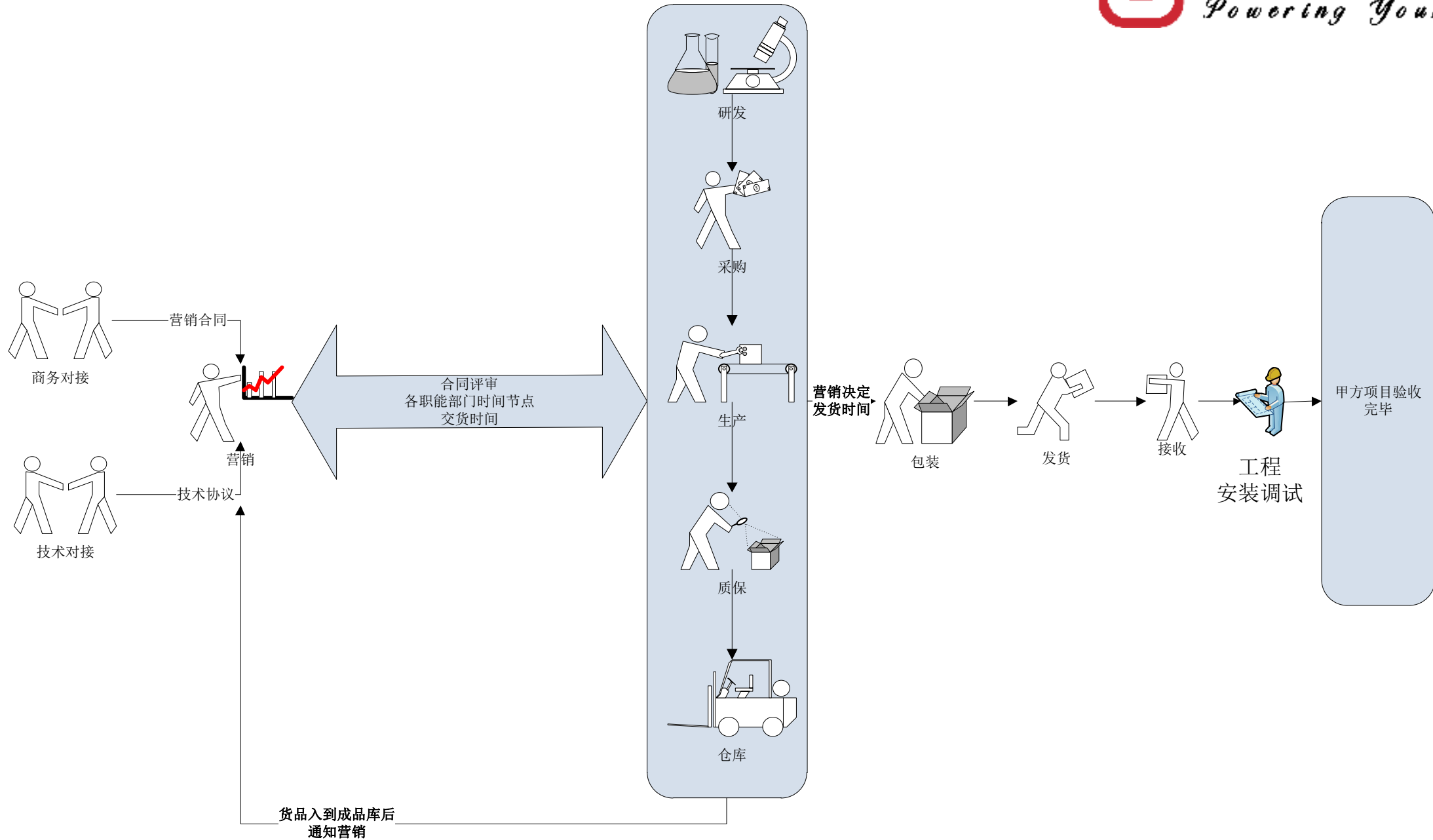
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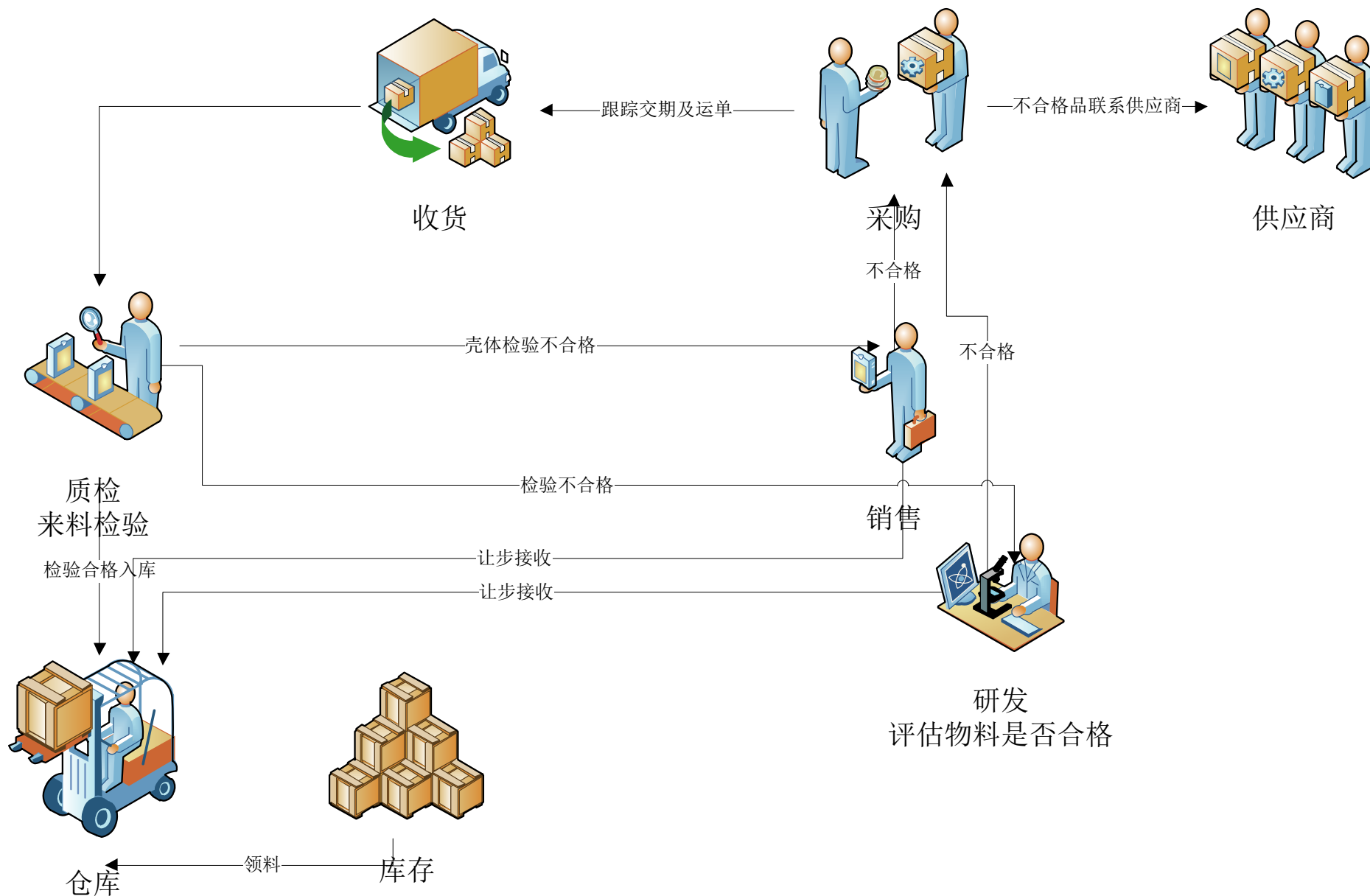
2. Product R & D and Production Control



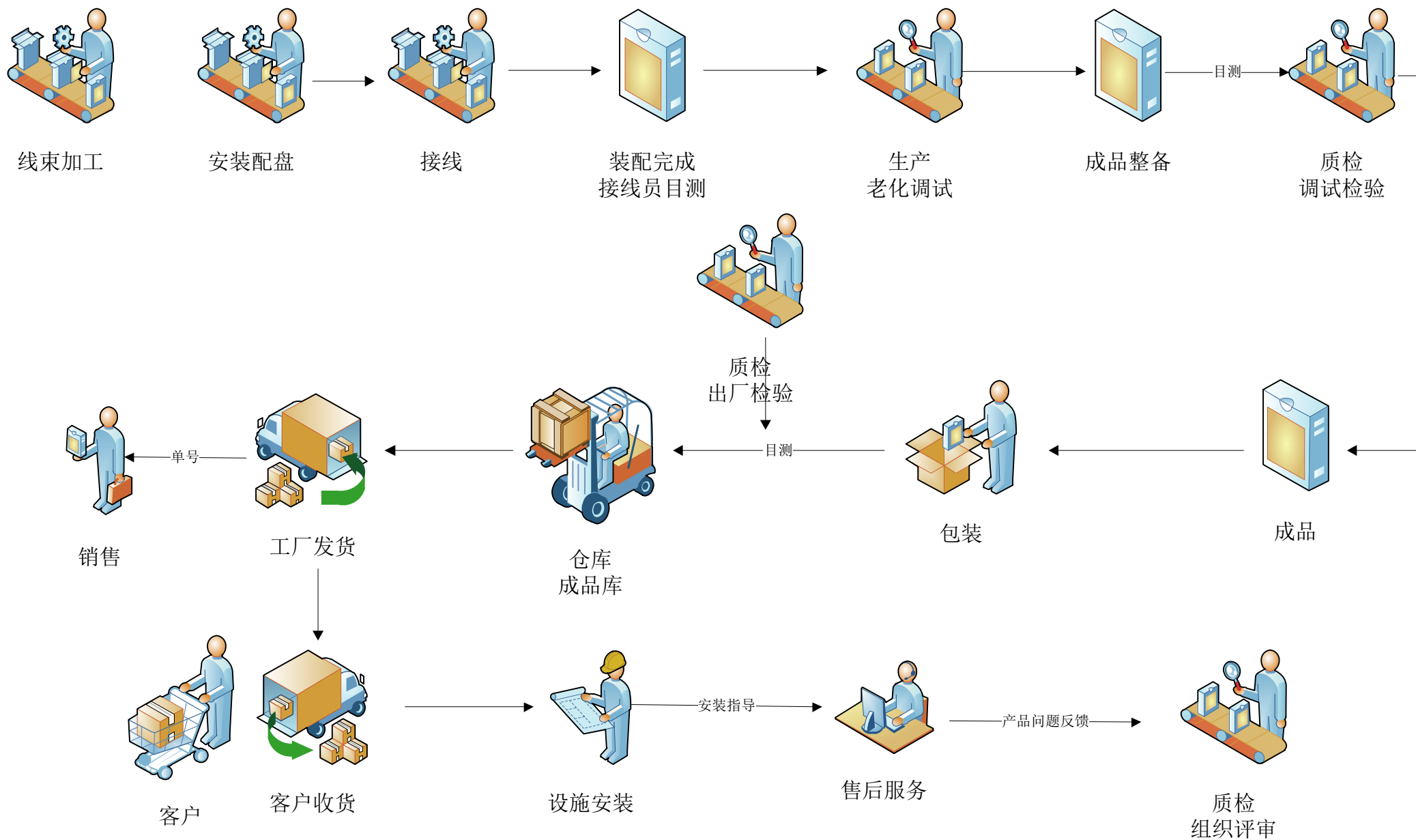
II、 Delivery process of charging pile products



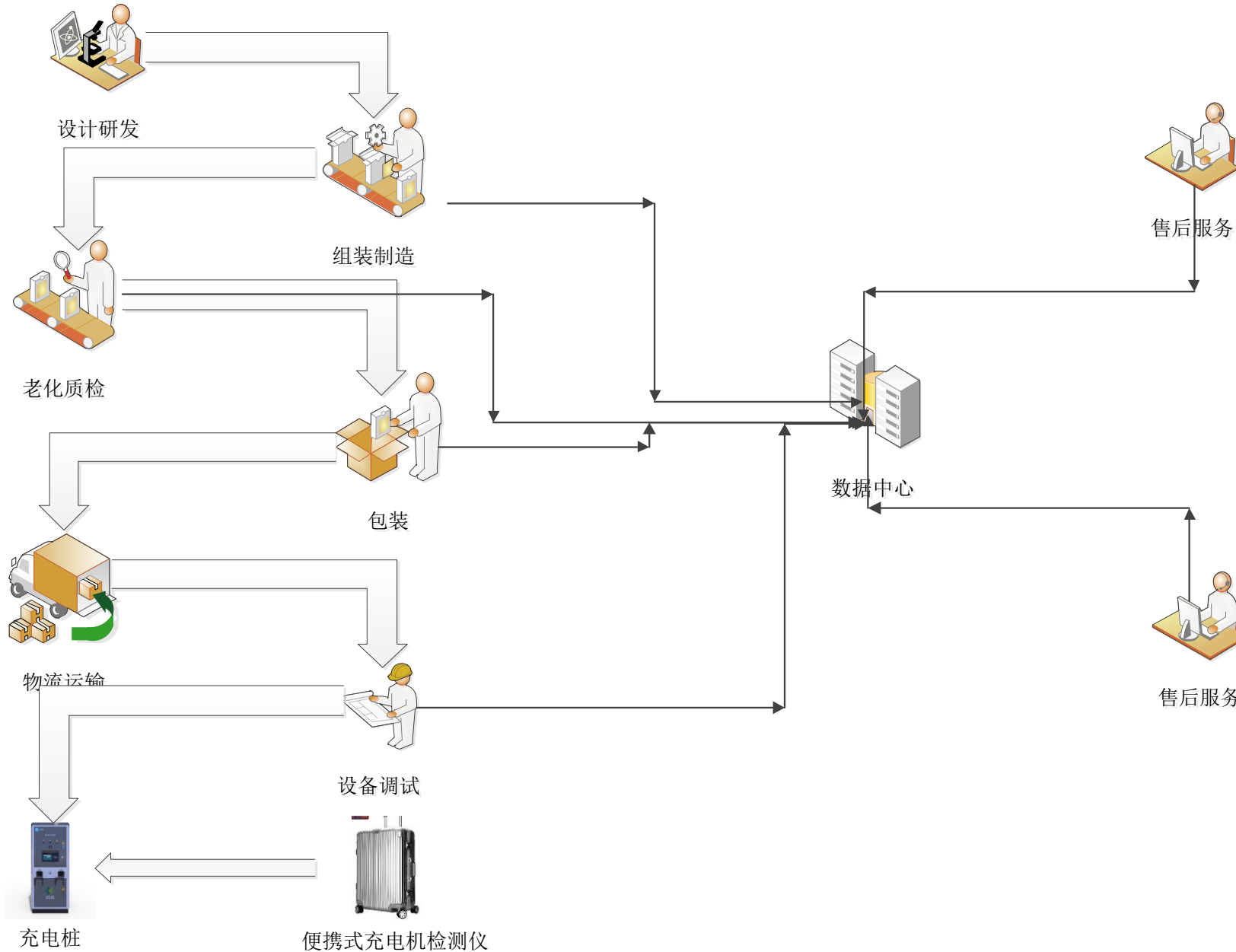
II、Quality Management process of charging pile



II、Charging pile supply chain service process

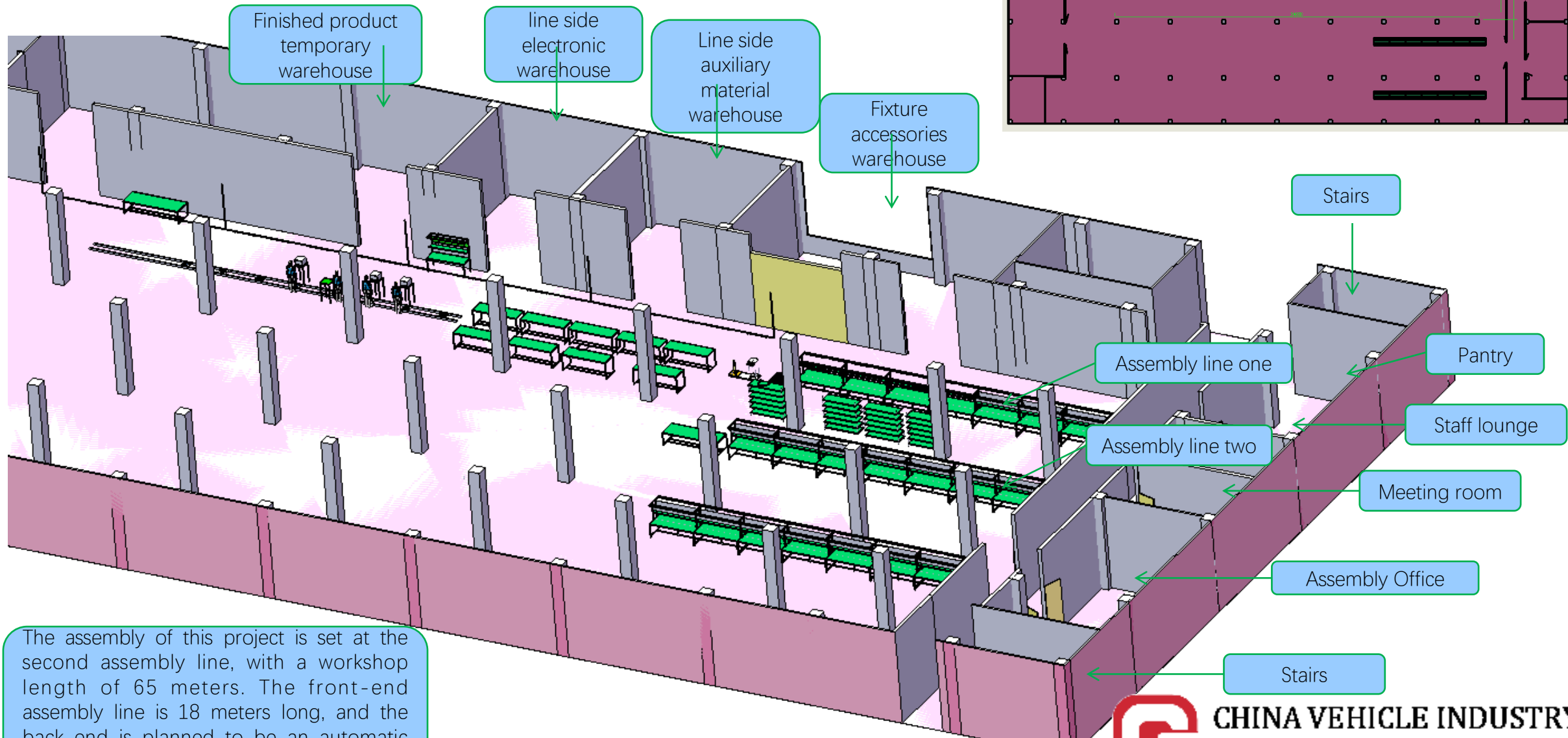


II、Charging pile traceability system process



The "full process traceability" system can query and monitor the entire production and quality inspection through the factory code, logistics, and after-sales service details, improve product automation procedures, support remote upgrades, unattended, Internet of Things integrated services, etc., to achieve Industry 4.0.

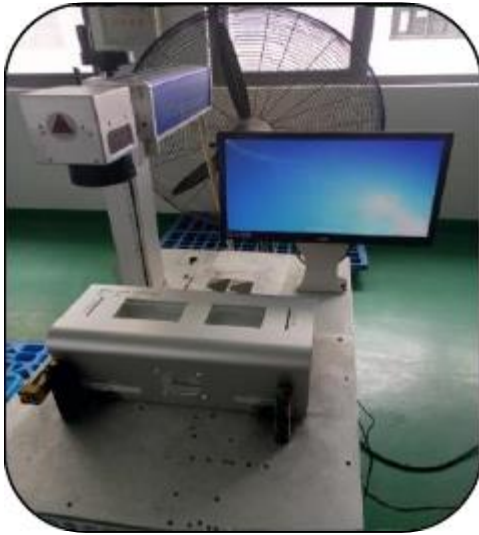
II、 Product process-5S production organization



The assembly of this project is set at the second assembly line, with a workshop length of 65 meters. The front-end assembly line is 18 meters long, and the back-end is planned to be an automatic production line



Production advantage



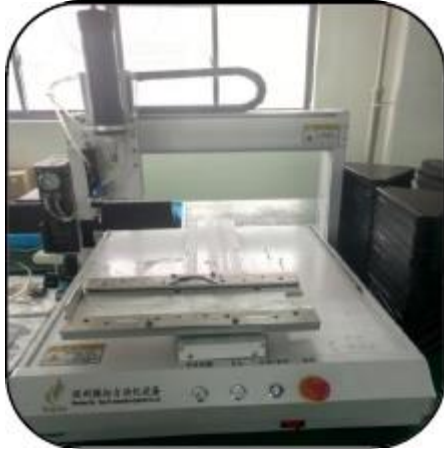
Laser engraving machine

Features:

1. Safe and reliable: It adopts non-contact processing, which will not cause mechanical extrusion or mechanical damage to the material. mechanical stress. No "knife marks", no damage to the surface of the workpiece; no deformation of the material;
2. Accurate and meticulous: the machining accuracy can reach 0.02mm;
3. Consistent effect: ensure that the processing effect of the same batch is exactly the same;
4. High-speed and fast: It can immediately carry out high-speed engraving and cutting according to the pattern output by the computer.



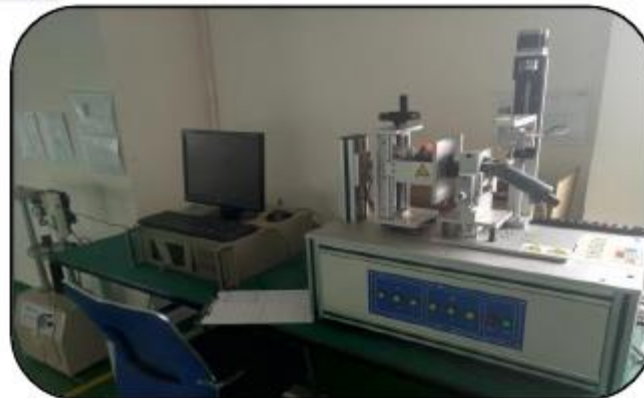
Production advantage



Automatic Dispenser

Features:

1. The size and thickness of the glue volume, glue application speed, glue dispensing time, and glue stop time can all be set by parameters.
2. Stable glue output, no leakage of glue, uniform dispensing of glue, ensuring stable product quality.



Insertion force tester

Features:

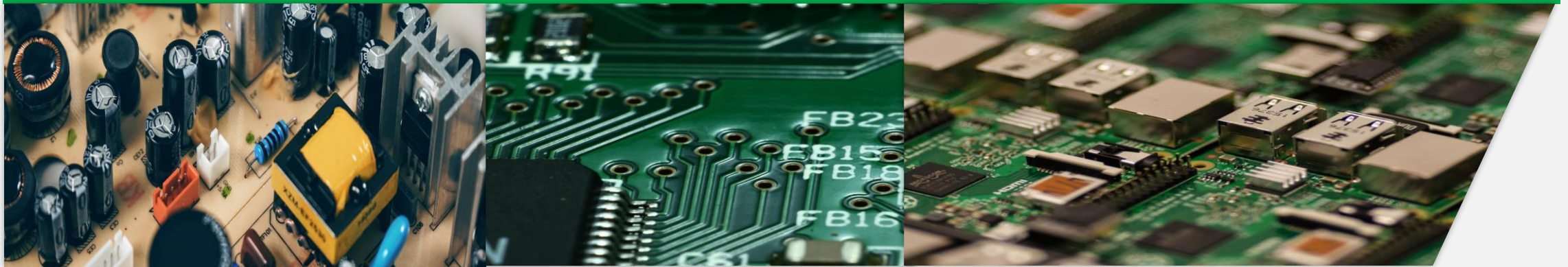
1. Test the plug and socket for shell or partition deterioration, whether the plug insulation cap is loose, breaking capacity, service life, etc.



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3. Technical capabilities & design examples



Key process

design aid

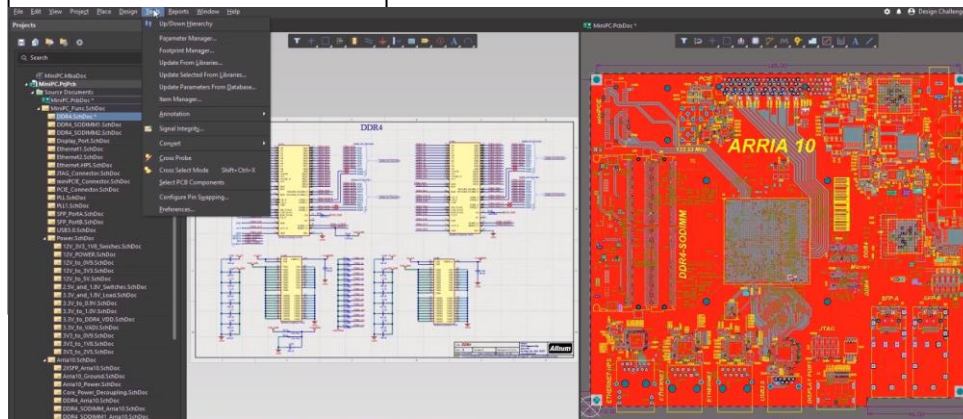
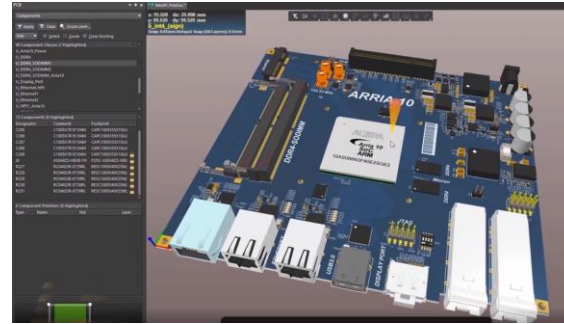
design procedure

product

- Requirements & Solutions
- Schematic design
- EMC design
- Safety design
- Layout
- Defema
- electronic simulation
- thermal simulation
- test verification

➤ Altium Designer

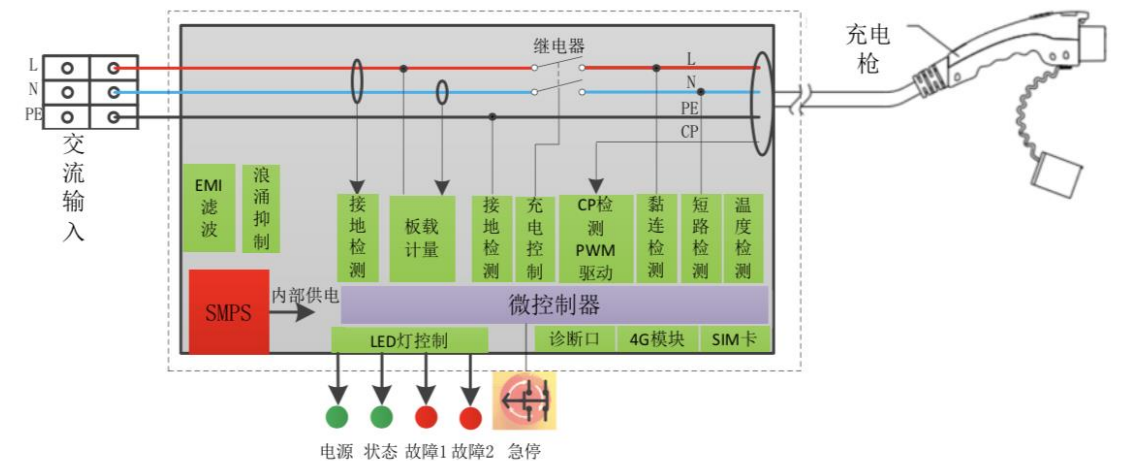
➤ SPICE



7kW AC charging pile hardware introduction:

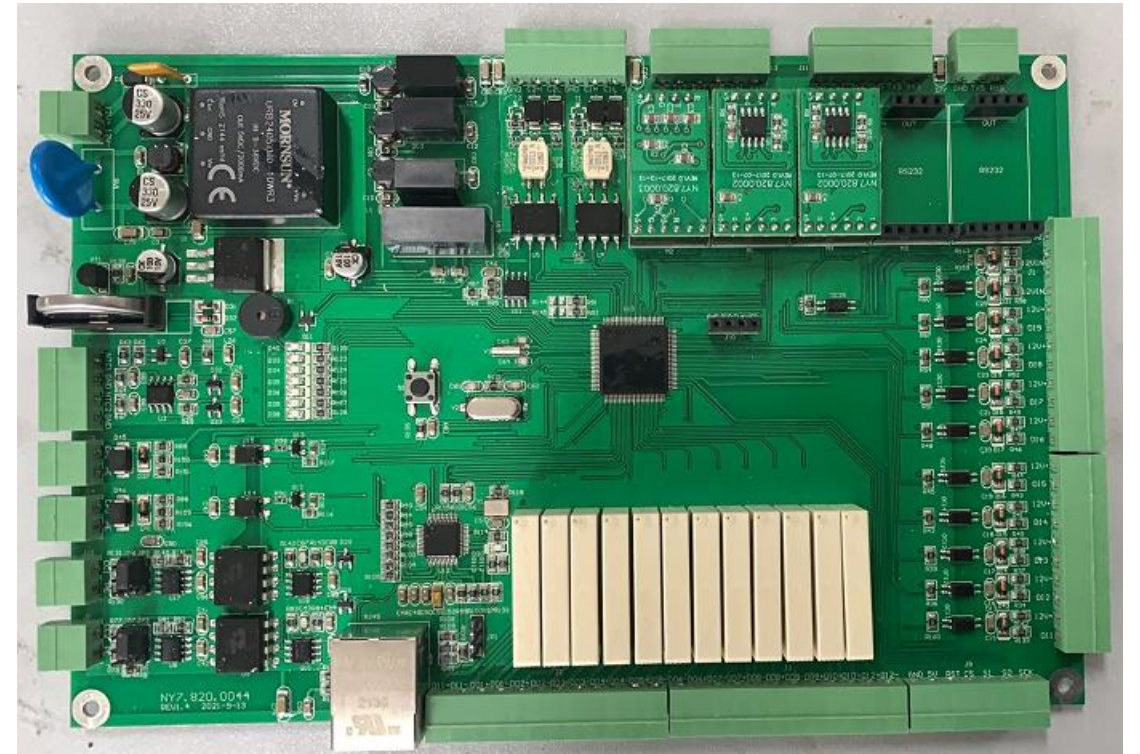
7kW -11kW, the AC control board

PCB A Main electronic components all choose industrial chip, suitable for 4G wireless communication, remote upgrade diagnosis function, support swipe sweep code payment, plug and charge function, integrated type A leakage protection, ground protection, overvoltage protection, overtemperature protection, etc., integrated electronic metering module, real-time record charging situation, support orderly charging, data exchange with the management platform, in accordance with the requirements of the platform to adjust power, power control power.



Introduction of DC charging pile hardware:

The main electronic components of PCBA are all made of industrial-grade chips, which are suitable for 4G wireless communication, remote upgrade diagnosis function, support card payment, plug and charge function, over-voltage and over-current protection, over-temperature protection, etc., integrated electronic metering module, Real-time recording of charging status, support for orderly charging, data exchange with management platform, power adjustment and power control according to platform requirements. It can support CCS1/CCS2/ChadMO/GBT four standards in one.



Product—— AC battery charger



- The 7kw AC pile has exquisite appearance and high protection level, and can be used in commercial plazas, residential areas and other places;
- As a low-power device, it will not affect the power grid and will not cause problems such as three-phase imbalance;
- Support wall or column installation to meet the installation needs of different environments.



order number	Configure the name	explain
1	controller	Provide charging and networking functions
2	Bluetooth module	For the user to connect or use for the program upgrade
3	Measurement module	On-board metering or metering electricity meter
4	face-plate	Customizable panel
5	Communication gun line	No less than 3.5m, black current of 32A
6	upright column	Optional, the installation mode to support wall hanging, column two choose one
7	A PP	Supporting external operation requires an operation platform

LEGEND
Continental boundary
International boundary
00 000 000

Products——Low Power DC Machine



Low-power series DC charging piles are suitable for fast charging of electric vehicles, suitable for installation in public parking lots, parking spaces in residential quarters, etc., and can provide DC power for electric vehicle power batteries, with safe and convenient operation.

order number	name	technical parameter	
1	product model	JH -EVPD -GB -20U 1750V	JH -EVPD -GB -30U 1750V
2	power /kW	20KW	30KW
3	The AC-input voltage	380VAC ±20%	
4	The AC-input frequency	45~65Hz	
5	Output voltage range	200V ~750V	
6	Equipment size	400*200*500mm	500*200*550mm
7	maximum output current	50A	80A
8	working temperature	-25~+55°C	
9	Working humidity	5%~95% without coagulationcream	
10	Network way	Ethernet: 3G / 4G	
11	power factor	>0.99	
12	Peak efficiency	N96%	
13	Charging gun length	5m (custom in length)	
14	Auxiliary power supply (power for vehicle BMS)	12VDC / 10A (power supply voltage optional)	
15	Work altitude	<2000m	
16	Accuracy level of electrical meter	Level 1.0	
17	DC insulation monitoring	Action condition R <100 Q / V	
18	levels of protection	IP 54	
19	noise	W65dB	
20	cooling-down method	Intelligent air cooling	
21	Connector mechanical operating life	And 10,000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	A 7-inch LCD color touchscreen	



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Product——energy storage charger

一体式储能直流充电桩



Integrated energy storage DC charging pile

AC input:

- Input system: single-phase L/N+PE/three-phase five-wire system
- Voltage range: 220VAC±20%/380VAC±20%
- Rated power: 7kW/15kW
- Maximum current: 36A

Energy storage battery parameters:

- Battery type: lithium iron phosphate
- Total electricity: 70kWh
- Rated voltage: 665VDC
- Working voltage: 520~760VDC
- Standard charging power: 0.3C CC/CV
- Standard discharge power: 1C
- Working temperature: charging 0~55°C; discharging -20~55°C
- Storage temperature: -30°C~60°C
- Cycle life: ≥4000, 80%SOC
- High voltage control box: matching control box
- Battery BMS: three-level structure, BMS+SMBA+MMBA
- Thermal Management: Forced Air Cooling
- Firefighting: S-type hot aerosol firefighting system (optional)

DC output parameters

- Rated power: 75kW (DC fast charging) / 15kW (DC slow charging)
- Voltage range: 200Vdc ~ 750Vdc
- Current range: 0~150A (current limit point can be set)
- Voltage regulation accuracy: <math>< \pm 0.5\%</math>
- Steady current accuracy: $\leq \pm 1\%$ (output load 20% ~ 100% rated range)
- Number of charging channels: single channel, the charging interface meets GB/T2015-20234.3-2015
- AC side metering: AC energy meter
- Charging side metering: DC energy meter
- Basic configuration: HMI 19" TFT touch screen, charging indicator light, emergency stop switch, insulation, card swiping, scanning code charging
- Charging mode: fast and slow charging and other charging methods
- Communication method: support GB/T 27930-2015 communication method with the car
- Monitoring: 4G, Ethernet, support remote background monitoring
- Energy storage energy progress bar interaction



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Product-GB 60/80KW double gun DC charger



order number	name	technical parameter	
1	product model	JH -EVPD -GB -60U 2750V	JH -EVPD -GB -80U 2750V
2	power /kW	60	80
3	The AC-input voltage	380VAC ±20%	
4	The AC-input frequency	45~65Hz	
5	Output voltage range	200V ~750V	
6	Equipment size	1600*800*600mm	1600*800*600mm
7	Single-gun maximum output current	150A	200A
8	working temperature	-25~+55°C	
9	Working humidity	5%~95% without coagulationcream	
10	Network way	Ethernet: 3G / 4G	
11	power factor	>0.99	
12	Peak efficiency	N96%	
13	Charging gun length	5m (custom in length)	
14	Auxiliary power supply (power for vehicle BMS)	12VDC / 10A (power supply voltage optional)	
15	Work altitude	<2000m	
16	Accuracy level of electrical meter	Level 1.0	
17	DC insulation monitoring	Action condition R <100 Q / V	
18	levels of protection	IP 54	
19	noise	W65dB	
└、j20	cooling-down method	Intelligent air cooling	
21	Connector mechanical operating life	And 10,000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	A 7-inch LCD color touchscreen	



CHINA VEHICLE INDUSTRY

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Product-GB 120-180KW double gun DC charger



order number	name	technical parameter	
1	product model	JH -EVPD -GB -120U 21000V	JH -EVPD -GB -180U 21000V
2	power /kW	120	180
3	The AC-input voltage	380VAC ±20%	
4	The AC-input frequency	45~65Hz	
5	Output voltage range	200V ~1000V	
6	Equipment size	1950*800*700mm	1950*800*700mm
7	Single-gun maximum output current	250A	250A
8	working temperature	-25~+55°C	
9	Working humidity	5%~95% without coagulationcream	
10	Network way	Ethernet: 3G / 4G	
11	power factor	>0.99	
12	Peak efficiency	N96%	
13	Charging gun length	5m (custom in length)	
14	Auxiliary power supply (power for vehicle BMS)	12VDC / 10A (power supply voltage optional)	
15	Work altitude	<2000m	
16	Accuracy level of electrical meter	Level 1.0	
17	DC insulation monitoring	Action condition R <100 Q / V	
18	levels of protection	IP 54	
19	noise	W65dB	
20	cooling-down method	Intelligent air cooling	
21	Connector mechanical operating life	And 10,000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	A 7-inch LCD color touchscreen	



CHINA VEHICLE INDUSTRY

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Product-European standard 60KW-80KW double gun DC charger



order number	name	technical parameter	
1	product model	JH-EVPD-CE-60U2-1000V	JH-EVPD-CE-80U2-1000V
2	power /kW	60KW	80KW
3	The AC-input voltage	380VAC±20%	
4	The AC-input frequency	45~65Hz	
5	Output voltage range	200V ~ 1000V	
6	Equipment size	1700*800*700mm	1700*800*700mm
7	Single-gun maximum output current	150A	200A
8	working temperature	-25 ~ +55°C	
9	Working humidity	5%~95% without coagulationcream	
10	networking protocol	OCPP1.6	
11	power factor	> 0.99	
12	Peak efficiency	≥96%	
13	Charging gun length	5m(custom in length)	
14	Auxiliary power supply (power for vehicle BMS)	12VDC/10A (power supply voltage optional)	
15	Work altitude	<2000m	
16	Accuracy level of electrical meter	Level 1.0	
17	DC insulation monitoring	Action condition R < 100Ω/V	
18	levels of protection	IP54	
19	noise	≤65dB	
20	cooling-down method	Intelligent air cooling	
21	Connector mechanical operating life	≥10000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	A 7-inch LCD color touchscreen	



CHINA VEHICLE INDUSTRY

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Product-European standard

120KW-180KW double gun DC charger



order number	name	technical parameter	
1	product model	JH -EVPD -CE -120U 21000V	JH -EVPD -CE -180U 21000V
2	power /kW	120KW	180KW
3	The AC-input voltage	380VAC ±20%	
4	The AC-input frequency	45~65Hz	
5	Output voltage range	200V ~1000V	
6	Equipment size	1950*800*700mm	1950*800*700mm
7	Single-gun maximum output current	200A	200A
8	working temperature	-25~+55°C	
9	Working humidity	5%~95% without coagulationcream	
10	Network protocol	OCPP 1.6	
11	power factor	>0.99	
12	Peak efficiency	N96%	
13	Charging gun length	5m (custom in length)	
14	Auxiliary power supply (power for vehicle BMS)	12VDC / 10A (power supply voltage optional)	
15	Work altitude	<2000m	
16	Accuracy level of electrical meter	Level 1.0	
17	DC insulation monitoring	Action condition R <100 Q / V	
18	levels of protection	IP 54	
19	noise	W65dB	
20	cooling-down method	Intelligent air cooling	
21	Connector mechanical operating life	And 10,000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	A 7-inch LCD color touchscreen	

Product-With advertising display

European standard double gun DC charger



order number	name	technical parameter	
1	product model	JH -EVZH -CE -60U 21000V	JH -EVZH -CE -120U 21000V
2	power /kW	60KW	120KW
3	The AC-input voltage	380VAC ±20%	
4	The AC-input frequency	45~65Hz	
5	Output voltage range	200V ~1000V	
6	Equipment size	1950*800*600mm	1950*800*700mm
7	Single-gun maximum output current	150A	200A
8	working temperature	-25~+55°C	
9	Working humidity	5%~95% without coagulationcream	
10	Network protocol	OCPP 1.6	
11	power factor	>0.99	
12	Peak efficiency	N96%	
13	Charging gun length	5m (custom in length)	
14	Auxiliary power supply (power for vehicle BMS)	12VDC / 10A (power supply voltage optional)	
15	Work altitude	<2000m	
16	Accuracy level of electrical meter	Level 1.0	
17	DC insulation monitoring	Action condition R <100 Q / V	
18	levels of protection	IP 54	
19	noise	W65dB	
20	cooling-down method	Intelligent air cooling	
21	Connector mechanical operating life	And 10,000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	7-inch LCD color touch screen / 43 inch advertising screen	



CHINA VEHICLE INDUSTRY

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Product-With advertising display

European standard double gun AC charger



order number	name	technical parameter	
1	product model	JH -EVZH -CE -7KW -S	JH -EVPD -CE -22KW -S
2	power /kW	2*7KW	2*22KW
3	The AC-input voltage	220VAC ±20%	380VAC ±20%
4	The AC-input frequency	45~65Hz	
5	Output voltage range	220V	380V
6	Equipment size	2000*1000*240mm	2000*1000*240mm
7	Single-gun maximum output current	32A	32A
8	working temperature	-40~+55°C	
9	Working humidity	5%~95% without coagulationcream	
10	Charger networking protocol	OCPP 1.6	
11	Show the screen display mode	Controlled full-screen, split-screen playback (making multi-screen display, logo region, calendar region, video area, picture area, subtitle area, etc.) is divided at will, Self-layout screen display	
12	Show the screen operating system	Android 7.1/Windows	
13	Charging gun length	5m (custom in length)	
14	Show how the content is updated	Network remote update, U disk update	
15	Work altitude	<2000m	
16	Display the screen memory	2G	
17	Display the screen transport storage	16G	
18	levels of protection	IP 54	
19	noise	W65dB	
20	cooling-down method	Air conditioning regulates the temperature	
21	Connector mechanical operating life	And 10,000 times	
22	mode of payment	Credit card charging, scan the code charging, APP	
23	human-computer interaction	5-inch LCD color display / 55 inch display screen	



CHINA VEHICLE INDUSTRY

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Charging data cloud platform

Cloud platform data management center



按所在地查询

数据统计: 24678 (交流 23974 直流 702) 故障桩数: 9251 (交流 8941 直流 310) 充电桩数: 163 (交流 141 直流 22)

桩群名称	充电桩总数(A/D)	充电桩故障数(A/D)	充电桩中故障数	最大功率	电压	是否在建中	桩群状态	操作
镇江镇江市广场西区	13/0	13/0	0	50	1.10	建设完成	禁用	操作
闵行区永康城源泰(西1区)	6/0	0/0	0	48	0.64	建设完成	启用	操作
泰州市凯迪拉克4#店1	10/0	3/0	0	36	0.86	建设完成	启用	操作
广东小区西区外南停车场4(广安门)	9/0	2/0	0	71	1.05	建设完成	启用	操作
浦东新区华联机械装备制造厂	6/0	0/0	0	48	1.09	建设完成	启用	操作
海城春秋乐园	22/0	0/0	0	172	0.87	建设完成	启用	操作
萍乡安源区出口1区	12/0	0/0	0	95	0.98	建设完成	启用	操作
浦东新区国际人才酒店(南3区)	0/0	0/0	0	90	1.23	建设中	禁用	操作

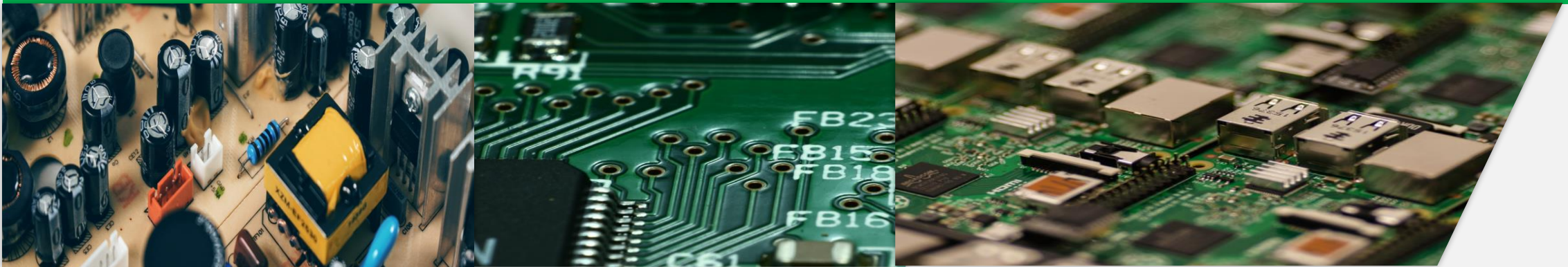
所属桩群名称: 肇庆四会区出口区

编号	名称	类型	最大功率	实时功率	固件版本	ICCID	状态	操作
10004698	充电桩10004698	交流	7	0	暂无版本	暂无ICCID	空闲	操作
10005122	充电桩10005122	交流	7	0	暂无版本	暂无ICCID	空闲	操作
10005141	充电桩10005141	交流	7	0	暂无版本	暂无ICCID	空闲	操作
10005143	充电桩10005143	交流	7	0	暂无版本	暂无ICCID	空闲	操作
10005147	充电桩10005147	交流	7	0	暂无版本	暂无ICCID	空闲	操作
10005154	充电桩10005154	交流	7	0	暂无版本	暂无ICCID	空闲	操作
10005177	充电桩10005177	交流	7	0	暂无版本	暂无ICCID	空闲	操作





4. Laboratory equipment & experimental capabilities



Laboratory equipment and experimental capabilities

Cooperating third-party testing agencies:

1. Shanghai Electric Equipment Testing Institute Co., Ltd. (SEC)

- CNAS ISO&IEC 17025 laboratory accreditation
- CMA Qualification Certification 180008221885
- CAL Authorization Certificate-(2018) National Accreditation Administration (518)

2. Suzhou Langbo Calibration and Testing Co., Ltd.



01 Laboratory

01

Huayuan has complete measurement and reliability testing equipment. We also work closely with partners to provide customers with complete solutions.

02

We have established a complete set of test standards based on the test requirements of customers in the consumer electronics industry and the automotive industry.

03

We have superb testing capabilities for soft and hard components of electronic products.

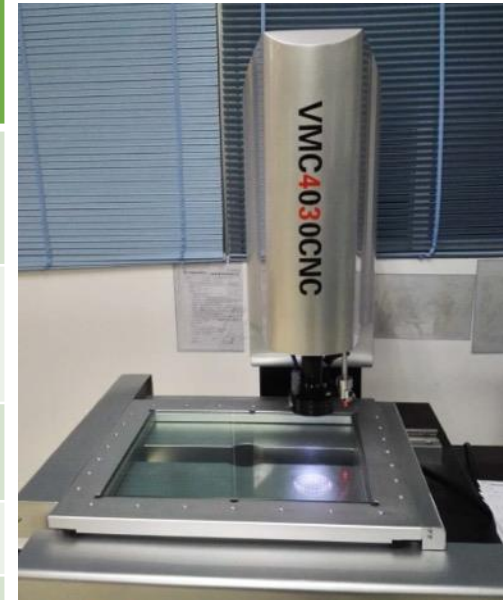


Laboratory equipment and experimental capabilities

Metrology Lab

Below is the list of Ideal's in-house measurement equipment.

Equipment	Qty	Measurement Range
<ul style="list-style-type: none">• Operation Maintenance Module ("OMM")	15	400*300*200MM
<ul style="list-style-type: none">• 3D Coordinate Measuring Machine ("CMM")	6	0.001MM
<ul style="list-style-type: none">• Height measuring	2	0.001MM
<ul style="list-style-type: none">• Block Gauge (measuring width)	4	1.005~100MM
<ul style="list-style-type: none">• Height Gauge	10	0-50MM
<ul style="list-style-type: none">• Caliper	21	0-300MM 0-200MM
<ul style="list-style-type: none">• Micrometer	10	0.001MM
<ul style="list-style-type: none">• Thickness Gauge	10	0.05MM
<ul style="list-style-type: none">• Pin Gauge (measuring Aperture)	20	1.0~1.99MM



Laboratory equipment and experimental capabilities

Reliability test Lab

Ideal set up the reliability tests lab and conducted the testing standards according to the silicone valley high end customers requirements.

Environmental test machines

Equipment	Total Qty	Qty	Brand	Model	Applications
Thermal Cycling Chamber 热循环试验箱	1	JQ	JQ-2700	DK	Thermal cycling test 热循环测试
Constant Temperature And Humidity Test Chamber 恒温恒湿试验箱	4	2	Qingsheng	NQ-800-OYO	1. Non-Operational Temperature And Humidity Cycling 非操作温度和湿度循环测试
		1	JQ	MHU-800L	2. Heat Soak Test 热浸测试
		1	JQ	MHU-225L	3. Dash Board Test 控制板测试 4. Cold Storage Test 冷藏测试 5. High Temp/High Humidity Test 高温高湿测试
Water Repellency Tester 防水性测试仪	2	2	Huida	HD-6019	Water repellency test 防水性测试
Salt Spray Test Chamber 盐雾测试机	2	2	Jianqiao	/	Salt mist test 盐雾测试



Laboratory equipment and experimental capabilities



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Mechanical test machines 结构性能测试主要设备

Equipment 设备	Qty 数量	Brand 品牌	Model 型号	Applications 应用
Drop Tester 跌落测试仪	2	Ideal	/	Drop Test 跌落测试
Tumble Tester 滚筒测试仪	1	HY	HY8125	Tumble test 滚动测试
Multi-Function Tester 多功能测试仪	1	JQ	JQ999	Pressure and Squeeze&3 Point Bending test 压力挤压和三点弯曲试验
Conical Tester 锥形测试仪	1	HY	HY RS8105C	Cable Conical test 电线锥形测试
Ball Impact Tester 落球冲击测试仪	1	Ideal	/	Ball impact test 落球冲击测试
Cable Bending Tester 电线弯折测试仪	1	HY	HY RS8105A	Cable bending test 电线弯折测试
Automatism Push/Pull Force Tester 自动推/拉力试验仪	1	HY	RS6600A	1.Push&pull force test 推拉力测试 2.USB life and audio jack life test USB寿命和自动插拔测试
Vibration Tester 振动测试仪	1	JQ	JQ-600	Vibration test 振动测试
Micro torque Tester 力矩测试仪	1	Ideal	/	Micro torque Test 力矩测试



Laboratory equipment and experimental capabilities

Chemical & Cosmetic test device / 化学品外观测试设备

Equipment 设备	Total Qty 总数量	Qty 数量	Brand 品牌	Model 型号	Applications 应用
Abrasion Tester 耐磨测试仪	2	1	Huaguo	HG-9600	1.taber abrasion test 泰伯耐磨测试
		1	Taber	5750	2.Skin Rub Test 皮料摩擦测试
Martindale Abrasion Tester 马丁代尔耐磨试验仪		1	Huida	HD-2032	1.Martindale abrasion test 马丁代尔耐磨测试 2.Martinadale pilling test 抗起球测试
Pencil Hardness Tester 铅笔硬度仪		1	Dongwenya	B-3084	Pencil hardness test 铅笔硬度测试
RCA Tester RCA织带测试仪		1	Kejinda	7-IBB—C-C	RCA test RCA纸带测试
Coating Tester 涂层测试仪		1	Huaguo	/	Coating test 涂层测试
Crocking Tester 色牢度仪		1	TF	TF-805	Crocking test 色牢度测试
Chemical 化学品		19	/	/	Chemical test 化学品测试
Perspiration Tester 耐汗水测试仪		1	Huida	HD4011	CF to perspiration test CF耐汗水测试



Laboratory equipment and experimental capabilities

Other function test device/其它测试设备

Equipment 设备	Qty 数量	Brand 品牌	Model 型号	Applications 应用
Air Permeability Tester 气密性测试仪	1	TEXTTEST	FX3300-IV	Air permeability test 气密性测试
XRF Tester 光谱分析仪	1	EDX 1800B	Tianrui	ROHS test ROHS测试
Spectrophotometer 分光光度计	1	CI7800	X.Rite	Color differences ΔE and glossiness test 颜色差异 ΔE 和光泽度测试
Melt Flow Rate Tester 熔体流动率测试仪	1	PRECISA	GC-MI-BP	Melt flow rate test 熔体流动率测试
Gloss Meter Tester 光泽度计	1	Weifu	WG60	Gloss meter test 光泽度测试
Water Immersion Tester 水浸试验器	2	Ideal	/	1.General water immersion 一般水浸测试 2.Chlorinated water immersion 氯化水浸测试 3.Salt water immersion 盐水浸测试 4.Soapy water immersion 肥皂水浸测试 5.Hot water immersion 热水浸测试
Flap Cycling Tester 翻折测试仪	1	Ideal	/	Flap cycling test 翻折测试
Toothbrush life Tester 牙刷测试仪	1	Ideal	/	Toothbrush life Test 牙刷测试
Rockwell Hardness Tester 洛氏硬度测试仪	1	CX	HR-150A	Hardness test 硬度测试
Shore Durometer T ester 邵氏硬度测试仪	1	HB	LAC-J	Hardness test 硬度测试



Laboratory equipment and experimental capabilities

Other function test device/其它测试设备

Equipment 设备	Qty 数量	Brand 品牌	Model 型号	Applications 应用
High and low temperature experiment box	1	yourong	FX3300-IV	High temperature and low temperature test instrument, used to simulate the environment
Hot and humid tester	1	RDR	RDR-1346	Used to simulate the alternating heat and humid environment
Hydrochloric acid corrosion tester	1	Ideal	/	Used to simulate islands or areas with high salt rot levels
Bondpressure withstand tester	1	PRECISA	GC-MI-BP	For the testing of insulation, withstand voltage, and other safety regulations
Dust test instrument	1	Weifu	WG60	For the simulated desert environment testing instruments



Laboratory equipment and experimental capabilities

Other function test device/其它测试设备




Equipment 设备	Qty 数量	Brand 品牌	Model 型号	Applications 应用
Air Permeability Tester 气密性测试仪	1	TEXTTEST	FX3300-IV	Air permeability test 气密性测试
XRF Tester 光谱分析仪	1	EDX 1800B	Tianrui	ROHS test ROHS测试
Spectrophotometer 分光光度计	1	CI7800	X.Rite	Color differences ΔE and glossiness test 颜色差异 ΔE 和光泽度测试
Melt Flow Rate Tester 熔体流动率测试仪	1	PRECISA	GC-MI-BP	Melt flow rate test 熔体流动率测试
Gloss Meter Tester 光泽度计	1	Weifu	WG60	Gloss meter test 光泽度测试
Water Immersion Tester 水浸试验器	2	Ideal	/	1.General water immersion 一般水浸测试 2.Chlorinated water immersion 氯化水浸测试 3.Salt water immersion 盐水浸测试 4.Soapy water immersion 肥皂水浸测试 5.Hot water immersion 热水浸测试
Flap Cycling Tester 翻折测试仪	1	Ideal	/	Flap cycling test 翻折测试
Toothbrush life Tester 牙刷测试仪	1	Ideal	/	Toothbrush life Test 牙刷测试
Rockwell Hardness Tester 洛氏硬度测试仪	1	CX	HR-150A	Hardness test 硬度测试
Shore Durometer T ester 邵氏硬度测试仪	1	HB	LAC-J	Hardness test 硬度测试



Laboratory equipment and experimental capabilities

5.1 Introduce each process step by step with the initial process flow diagram/PFMEA/control plan

- Attached process flow chart and brief description
- List of production equipment and online testing equipment matching the product (with pictures)

order number	device name	quantity	Equipment supplier name	specifications and models	Whether the new	Experimental projects that can be performed	Device pictures
1	Automatic test surface of AC charging pile	1	Shanghai Tixin Electric Technology Co., LTD	1. AC charging pile input voltage single phase 220 ± 20 / three phase $380V \pm 20$ 2. Current measurement range: 0-63A, measurement error: 0.1A 3. Power measurement accuracy: 1.0 level	Y	Referring to NB/T33008.2-2018, including all factory test items of AC charging pile; factory test of AC charging pile meeting the definition of IEC62196 and SAE J1772;	
2	Three-phase load box	1	Shanghai Tixin Electric Technology Co., LTD	1. Load supply voltage: $220VAC \pm 10\%$ 2. Current measurement range: 0-40A, measurement resolution: 0.1A 38 road 7k	Y	Three-phase 40A, three-phase independently adjustable, step 1A, providing aging load Thaisen	
3	ageing rack	1	Shanghai Tixin Electric Technology Co., LTD	Meet the 5 sets of simultaneous aging	Y	Aging experiment	



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