



JINGU
AUTO PARTS

《

A Automotive Class
汽车类

B Power Tools
电动工具类

CV  科技 智享未来
Technology , A smart Future!



Part 01 企业篇 / Enterprise

企业简介
Company profile

公司业绩
Corporate performance

企业认证
Enterprise certification

主要客户
Main Client



○ 企业文化 / Corporate Culture



Global
全球



Visionary
远见



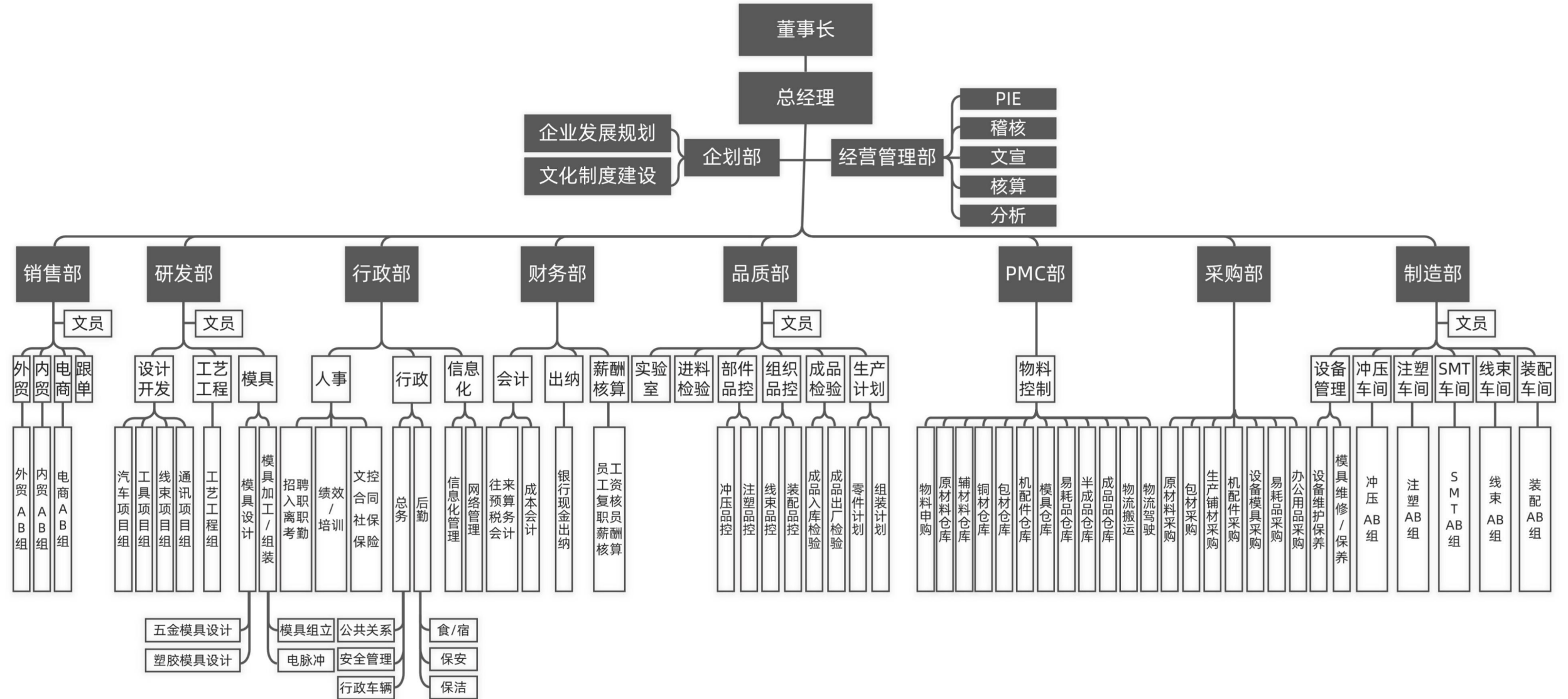
Efficient
高效



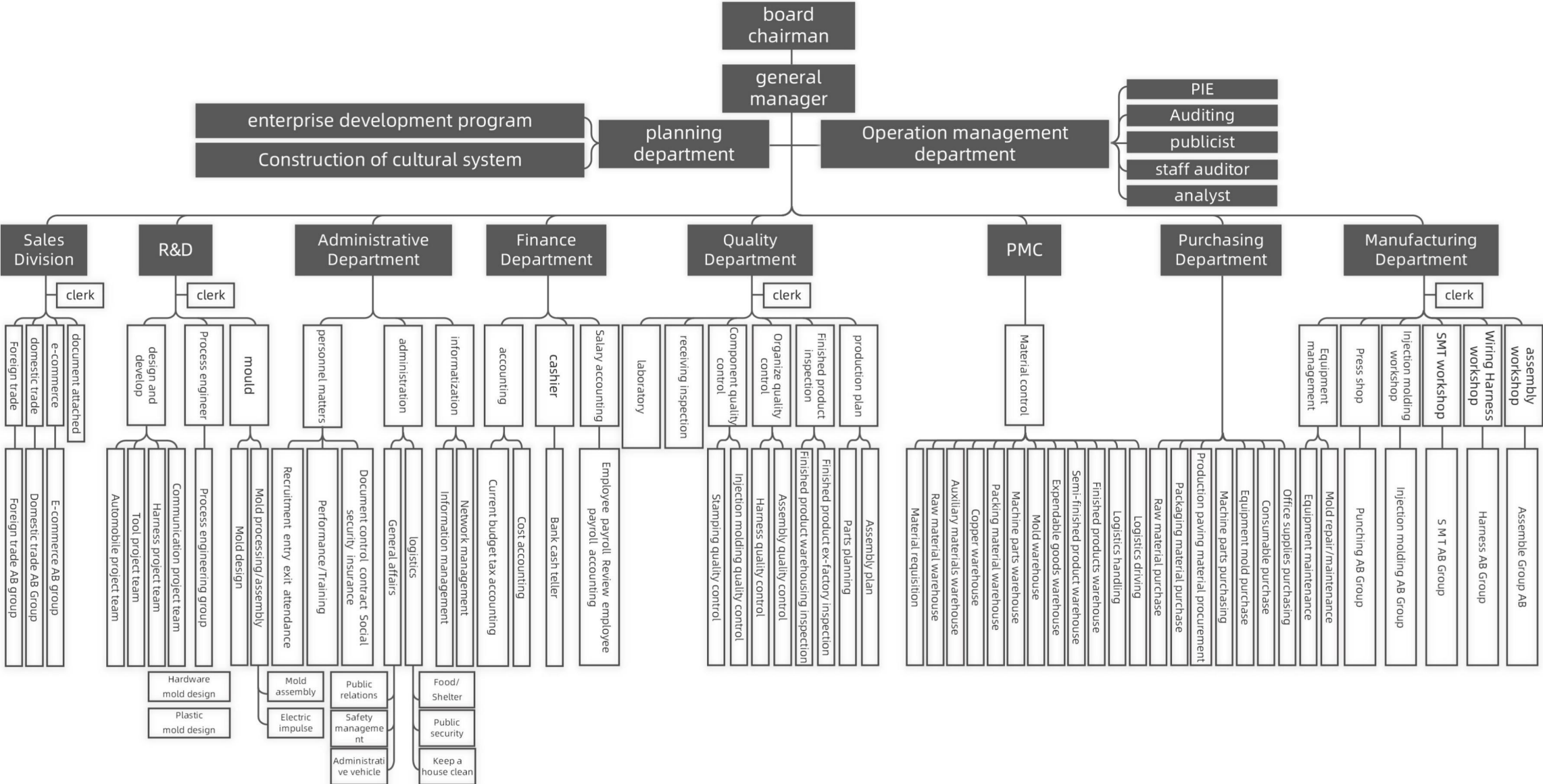
Innovative
创新



组织架构 / Organizational Structure



组织架构 / Organizational Structure



○ 公司环境 / Corporate Environment



浙江省

Zhejiang Province

温州乐清市

Yueqing, Wenzhou



占地面积

Floor Space

20000平米

20000 square meters



员工

Employee

300人

300 members



实验室
laboratory



线束车间
wiring harness workshop



立体仓储
tiered warehouse facility



冲压车间
stamping workshop



组装车间
assembly workshop



注塑车间
injection workshop



模具车间
mould workshop

公司业绩 / Corporate Performance

主要领域

major domain
占比分布
Proportion



44%

汽车系列
Automobile series



48%

电动工具系列
Electric power
tool series



8%

其他
Others

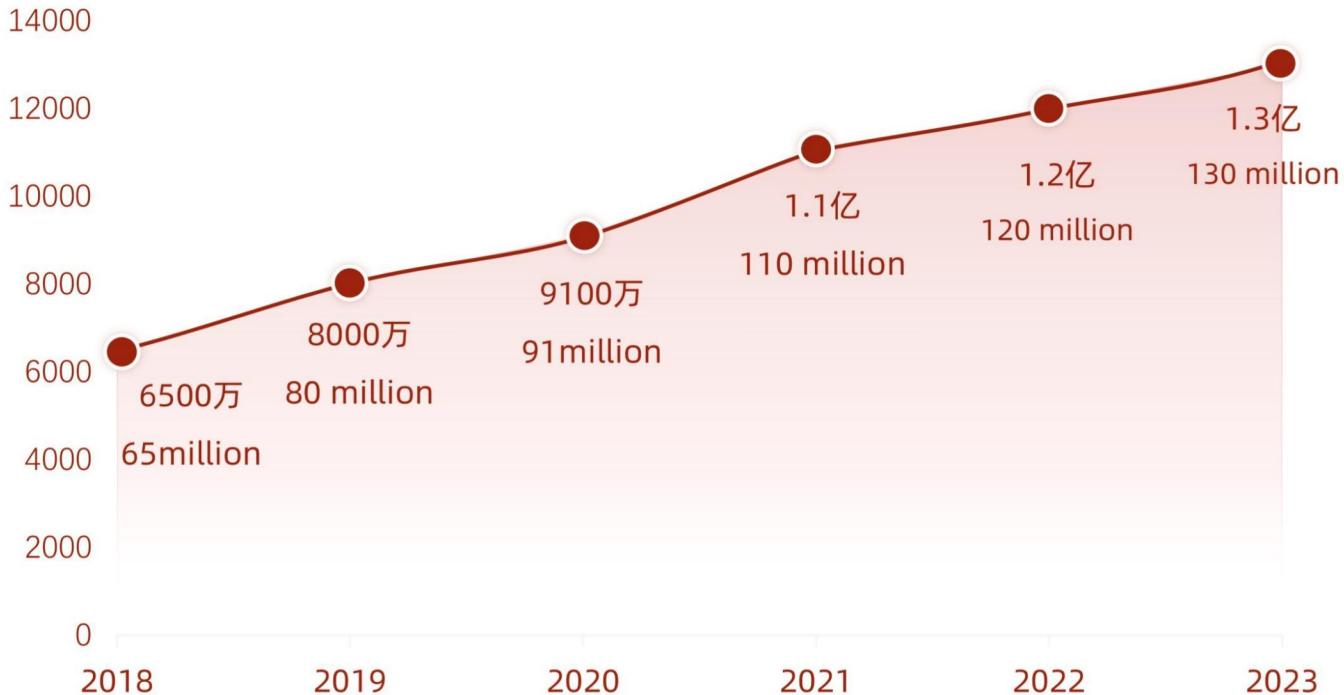
稳定成长

Steady growth

公司前十大客户营收占比

Revenue proportion of the company's top ten customers

55%



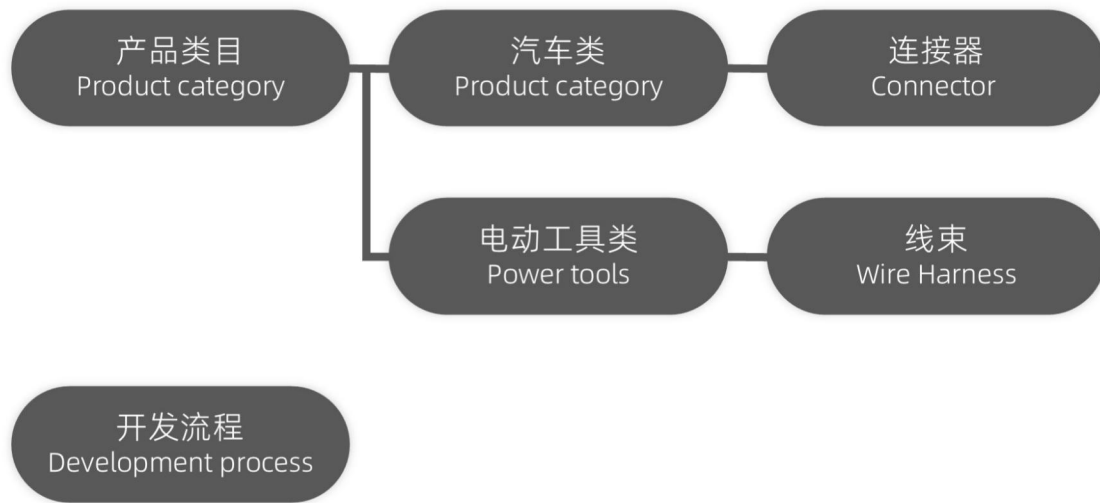
○ 专利认证 / Patent Certification



○ 主要客户 / Main Clients



Part 02 产品篇 / Products



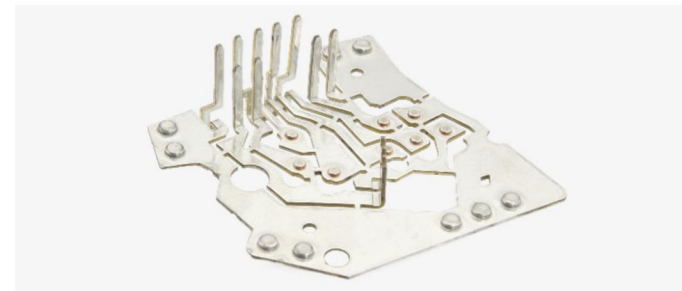
○ 产品类目-汽车类 / Automotive parts



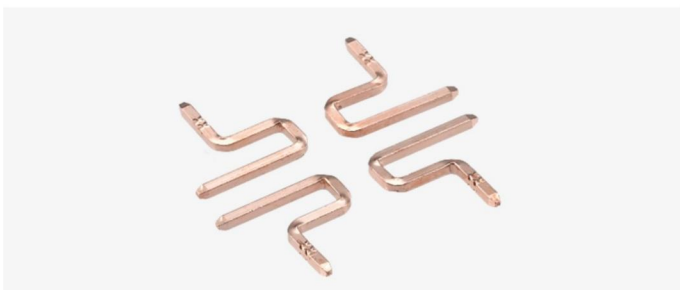
端子系列
Terminal Series



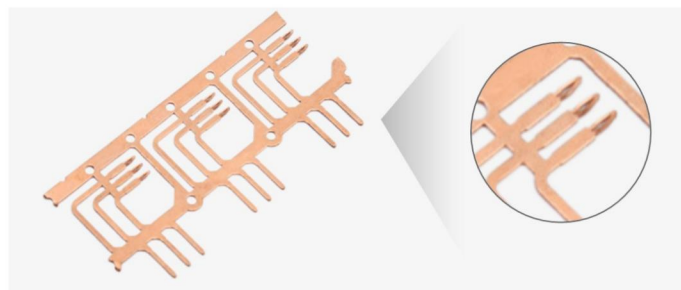
接插件系列
Connector Series



异形冲压件系列
Shaped Terminal Series



PIN针系列
Pin Terminal application



免焊端子系列
Press-Fit Connections



针座系列
PCB connector



新能源连接器系列
New energy connector



线束系列
Wire harness series



控制盒系列
Control Box

○ 汽车类-端子系列 / Terminal

高抗震动
High vibration resistance



强抗冲击
Strong impact resistance



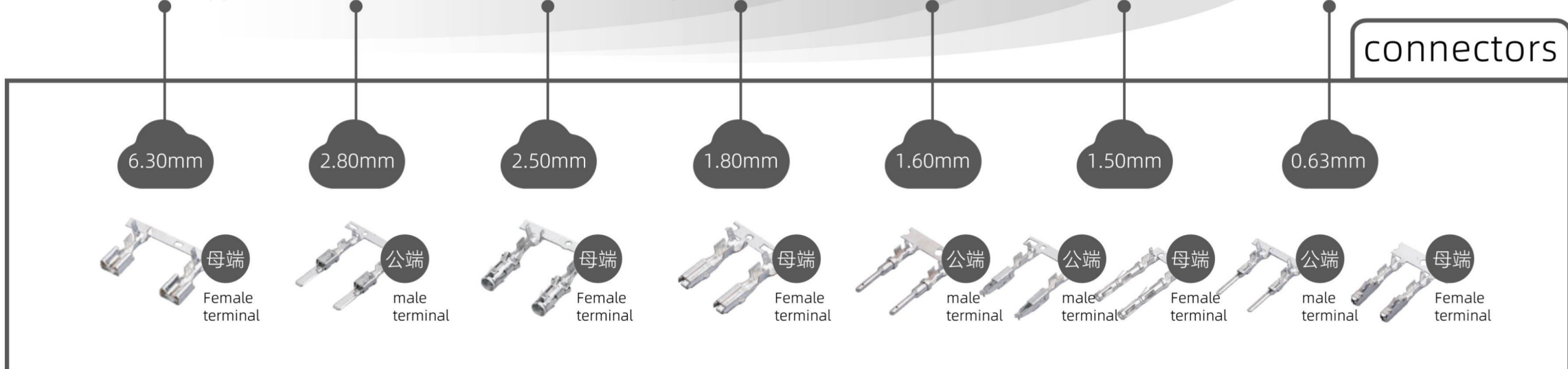
高保持力
High retention



应用于汽车电子电流与讯号传输
Applied to automotive electronic current and signal transmission

复合型端子
Compound terminal

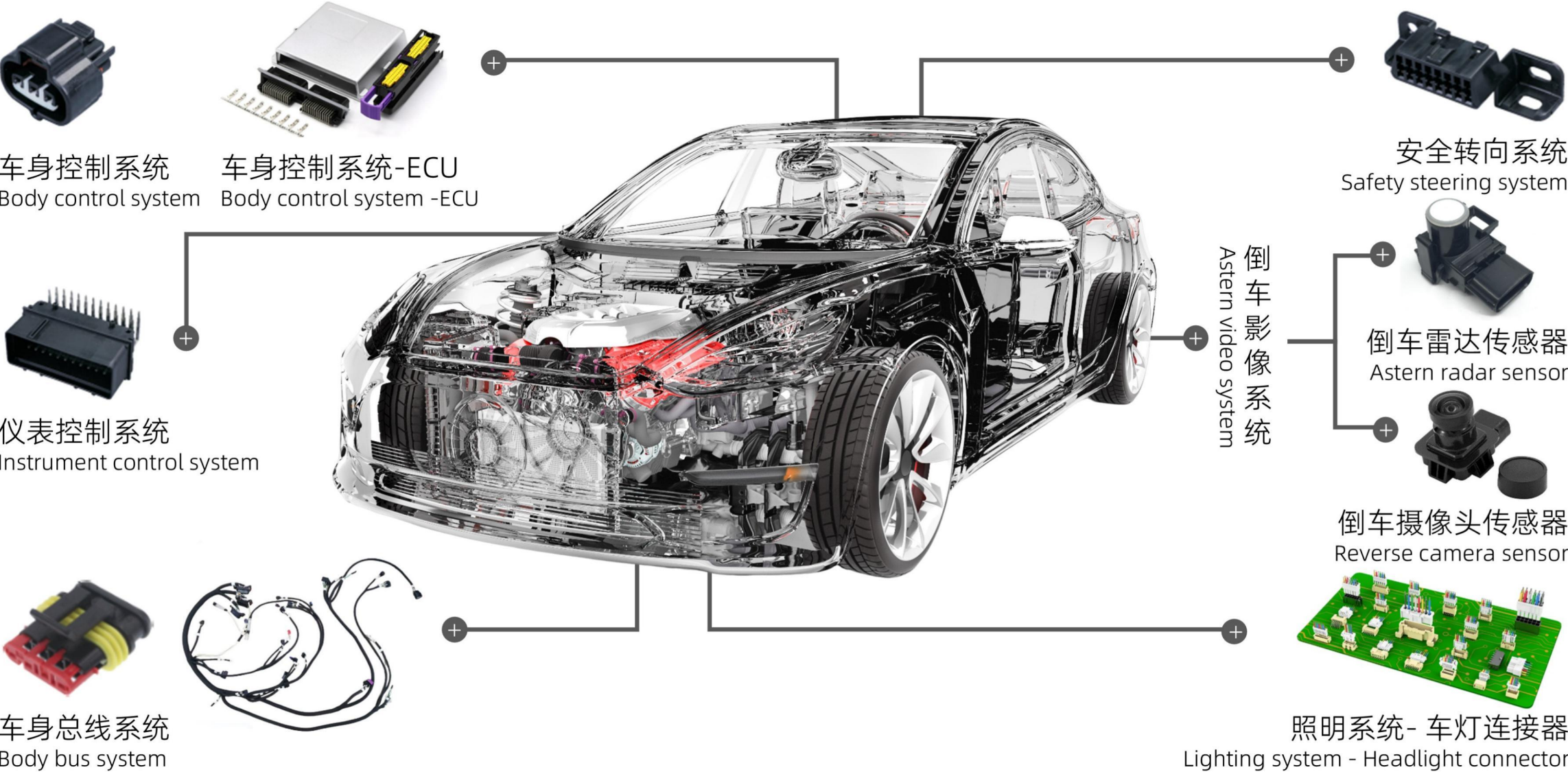
连接器
connector



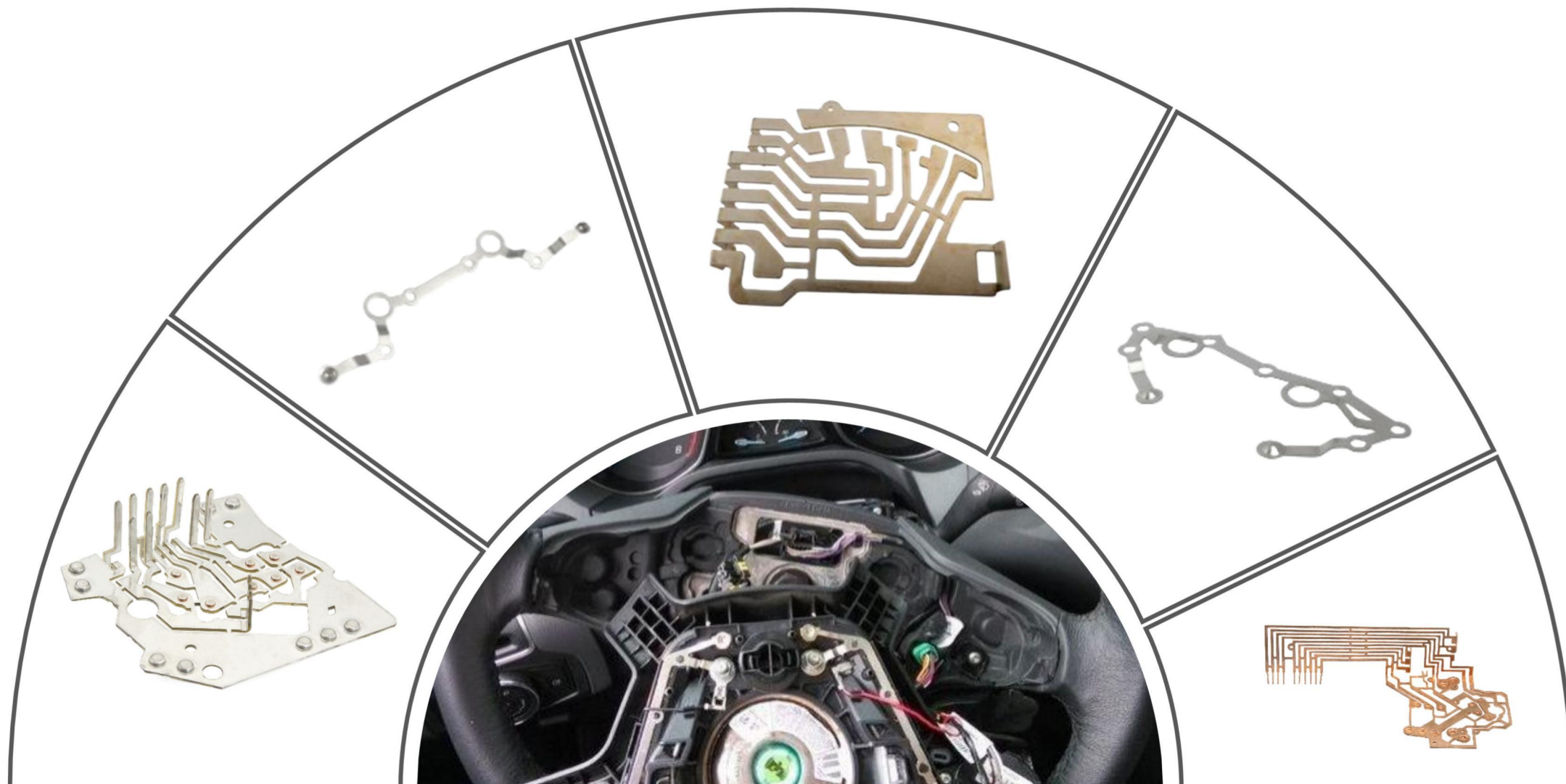
○ 汽车类-接插件系列 / Connector Series



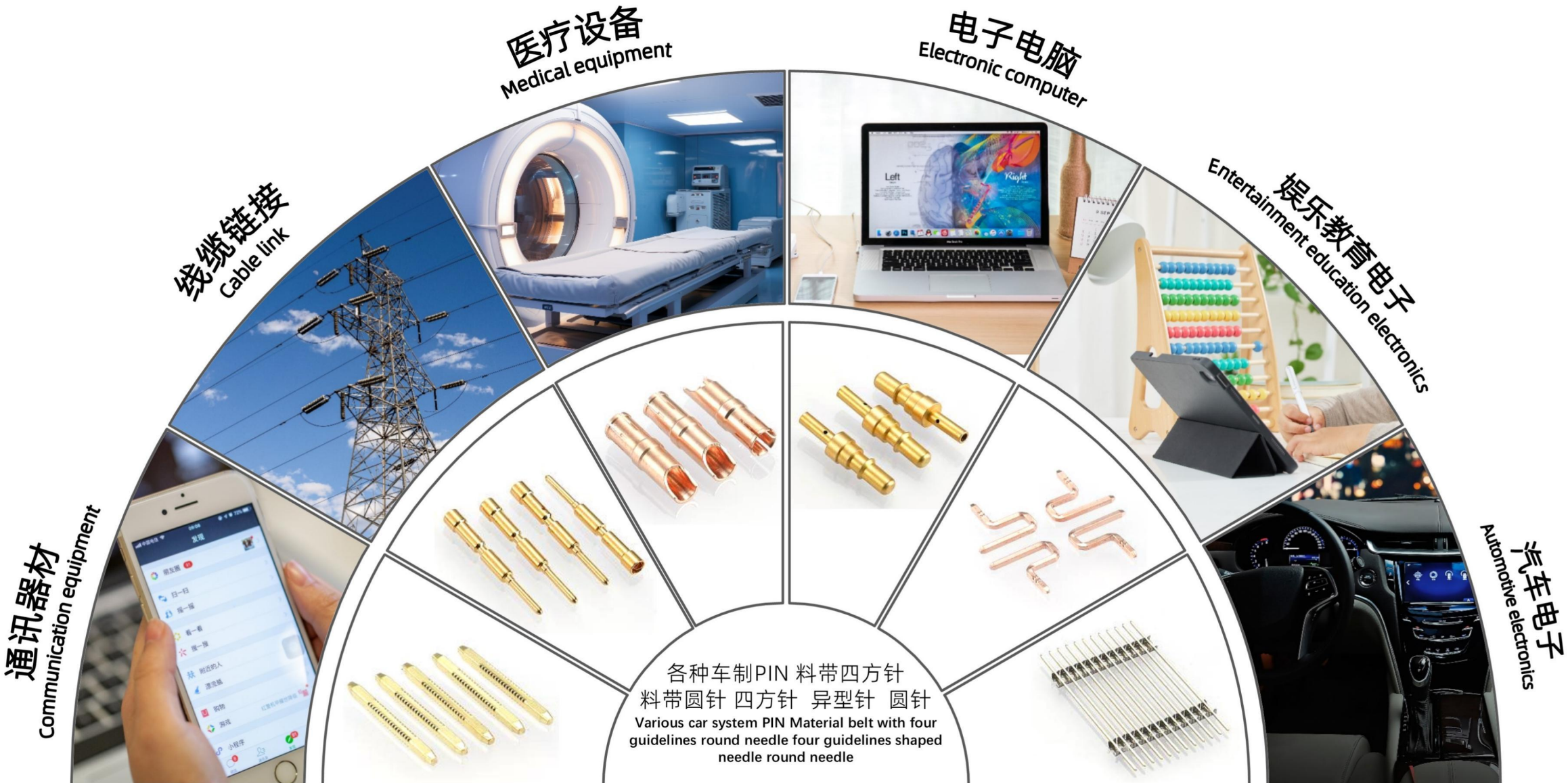
○ 汽车类-接插件系列 / Connector Series



○ 汽车类-异形冲压系列 / Shaped Terminal Series

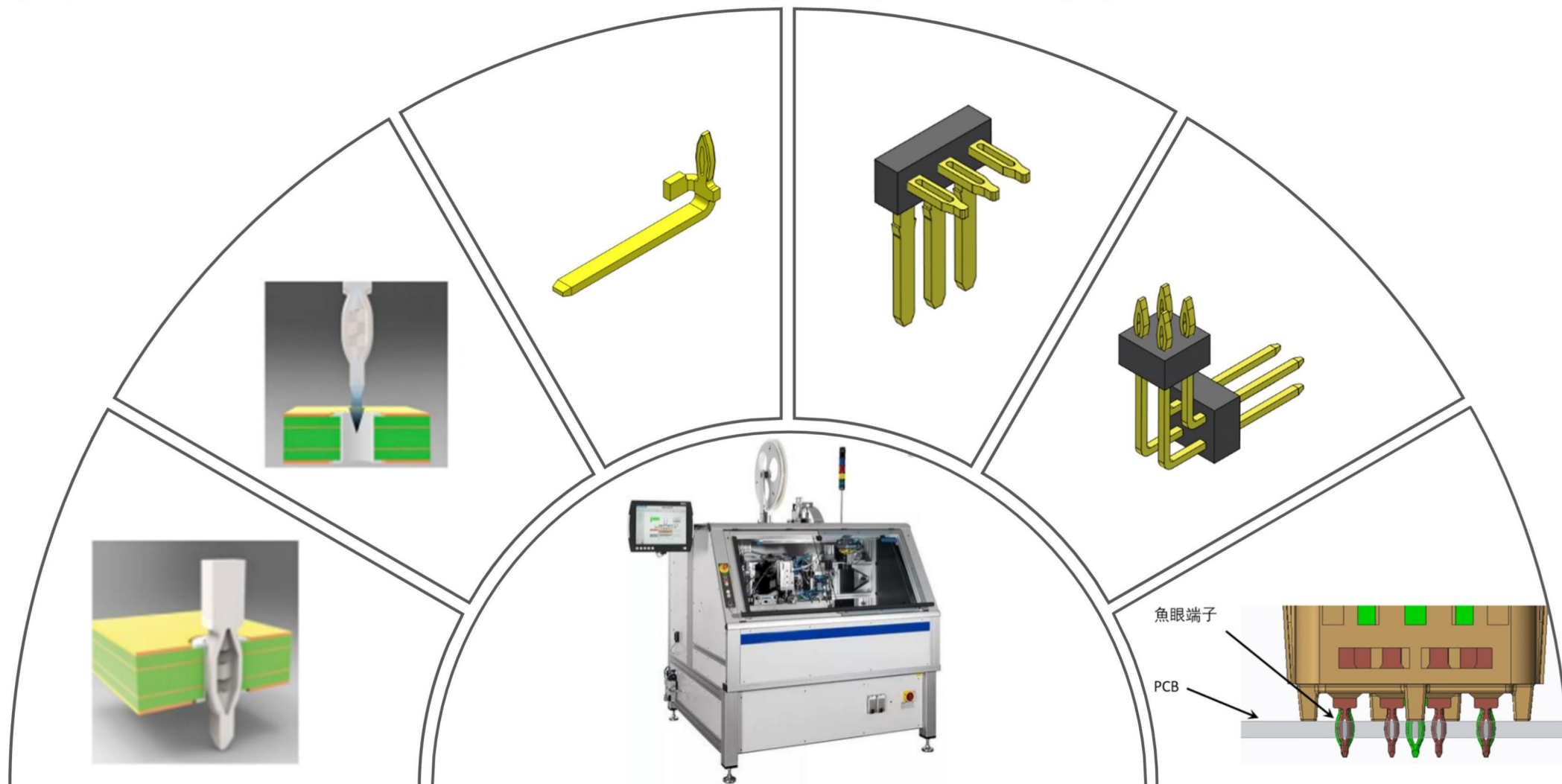


○ 汽车类-PIN针应用领域 / Pin Terminal application



○ 汽车类-免焊端子系列 / Press-Fit Connections

免焊端子应用垂直抗力，与焊连接方式不同依靠焊点的强度和附着力连接，免焊端子通过高速插入设备组装到电路板上
The solderless terminal applies vertical resistance, which is different from the welding connection method by relying on the strength and adhesion of the solder joint, and the solderless terminal is assembled on the circuit board by inserting the device at high speed



○ 汽车类 - 线束系列 / Wire harness series

主要应用于倒车雷达、车用摄像头、照明系统、智能车内后视镜等汽车专业电子产品

Mainly used in reversing radar, car cameras, lighting systems, intelligent car mirrors and other automotive professional electronic products



○ 汽车类 - 控制盒系列 / Control Box



对全车所有电器控制元件（如继电器、刮水间歇器等），电路监测元件（如冷却液温度、液位报警器、制动灯、后雾灯断线报警器等），熔断器（如LED灯、报警蜂鸣器等）进行集中控制

Centralized control of all electrical control components (such as relays, wiper intermitters, etc.), circuit monitoring components (such as coolant temperature, liquid level alarm, brake light, rear fog light break alarm, etc.), and fuses (such as LED lights, alarm buzzers, etc.)



○ 产品类目-电动工具类 / Electric power tool



刺破式端子系列
Piercing terminal



刷架系列
Brush holder



端板系列
Plastic end plate



插座系列
Socket



线束系列
Wire Harness



端子台
Terminal block series

○ 电动工具类-线束系列 / Wire harness series

应用于锂电池园林工具：链锯，割灌机，吹风机，绿篱机，草坪机，剪草机等

Used in lithium battery garden tools: chain saw, cutting machine, hair dryer, hedge machine, lawn machine, lawn mower and so on



○ 开发流程 / Development Process

产品设计基于IATF16949产品开发流程

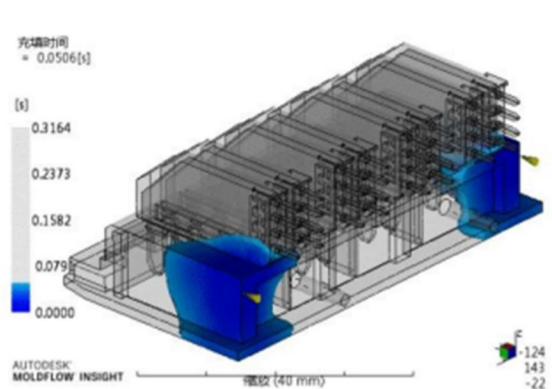
Product design is based on IATF16949 product development process



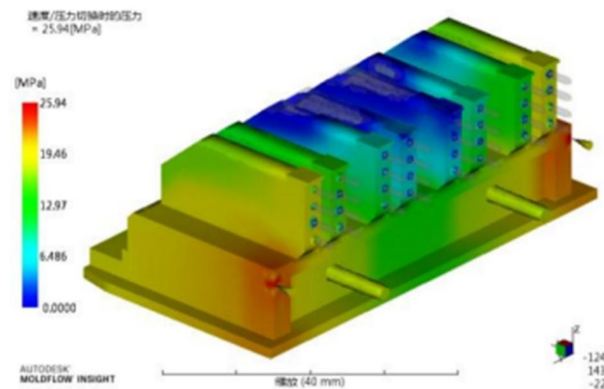
○ 模具开发 / Mold Development

模流分析（部分）Moldflow Analysis Report(partly)

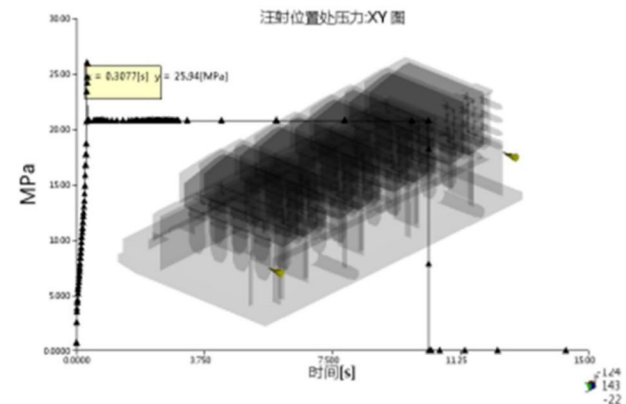
Fill time - Animate(动态充填动画)



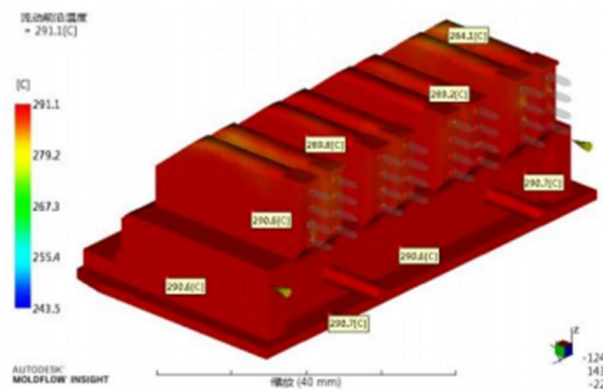
Pressure at V/P switchover(V/P转换及其压力分布)



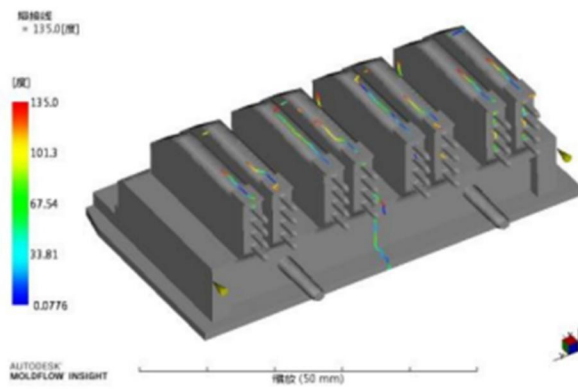
System Pressure(Nozzle Pressure & Packing pressure
(喷嘴压力曲线\保压控制曲线))



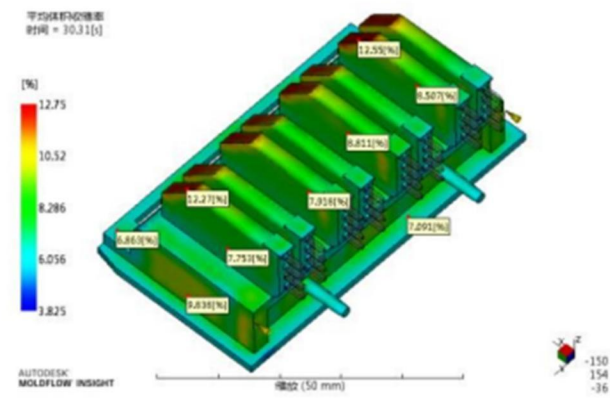
Front Temp before flowing(熔体流动前沿温度)



Weld Lines(熔接线)



Volume shrinkage at ejection(顶出时体积收缩)



Part 03 生产篇 / Production

生产车间
Production workshop

品质管控
Quality control

实验室
laboratory



○ 静音高速精密冲压车间 / Mute High-speed Precision Stamping Workshop



高速冲床

High-speed Stamping Machine

30台

30 sets

品牌

Brand

帅锋, 京利

SEFTEC, KYORI

加压能力

Press capacity

40T-160T

40T-160T

每分钟行程数

Numbers of strokes per Minute

200-800

200-800

级进模具

Progressive Dies

连续冲压超薄材料, 料厚

0.10mm

Continuous punching of ultra-thin material, material thickness

0.10mm

产品精度

Product Accuracy

±0.01mm

±0.01mm

CCD检测设备

CCD Inspection Equipment

20台

20 sets

品牌

Brand

基恩士

Keyence

测量公差

Measurement

0.005mm

0.005mm

○ 模具加工中心 / Mold Machining Center



慢走丝	6台
Slow Wire cutting	6 sets
品牌	西部
Brand	Westward
最大加工速度	150mm/min
Max Processing Speed	150mm/min
加工精度	±1μm
Processing Accuracy	±1μm

电脉冲	10台
Electric pulse	10 sets
品牌	沙迪克
Brand	Westward
最大加工速度	60mm/min
Max Processing Speed	150mm/min
最佳表面粗糙度	Ra0.12μm
Best surface roughness	Ra0.12μm

精密磨床	10台
Grinding machine	10 sets
品牌	冈本
Brand	Okamoto
加工能力	360mm×150mm
Processing capacity	360mm×150mm
最佳表面粗糙度	Ra0.12μm
Best surface roughness	Ra0.12μm

CNC加工中心	6台
CNC Machining Center	6 sets
品牌	精雕
Brand	Westward
最高转速	32000rpm
Max High Run Speed	32000rpm
加工精度	±2μm
Processing Accuracy	±2μm

○ 模具车间 / Mold Workshop



模具加工
Mold processing

150套以上/年
More than 150 sets/year



模具仓库
Mold warehouse

1500套以上
More than 1500 sets

○ 组装车间 / Assembly Workshop



自动组装机
Automatic Assembly Machine

16台
16 sets

自动点胶机
Automatic dispensing machine

12台
12 sets

自动全检机
Automatic inspecting machine

10台
10 sets

○ 线束车间 / Wire Harness Workshop



剥打裁线机

Machine for wire peeling off and cutting down, and terminal crimping

10台

10 sets

裁线剥线机

Machine for wire peeling off and cutting down

12台

12 sets



剥打端子机

Machine of wire peeling off and terminal crimping

22台

22 sets

自动焊锡机

Machine of automatic tin soldering machine

5台

5 sets

○ 检测设备 / Testing Equipment



3D显微测试仪
3D microscope tester



成像清晰 Clear imaging

细微凹凸清晰呈现，趋近SEM的观测图像
Fine concave and convex clear presentation, approaching SEM observation image



实时测量 Real-time measurement

边观测，边实时测量，具有实时深度合成功能
Observing while measurement, with real-time depth synthesis function



高倍数景深 High multiple depth of field

光学显微镜20倍以上的景深
Optical microscope more than 20 times to the depth of field



观测范围广 Wide observation range

可在高倍率下使观测范围扩大800倍
Enlarge observing range into 800 times at high rate



图像尺寸测试仪
Image size measuring instrument



响应灵敏 Sensitive response

1秒测量形状、起伏、粗糙度
Measure shape, ups&downs, roughness by 1 second



降低失误 Reduce mistakes

搭载“全自动处理设定功能”，可消除直接导致测量失败的人为设定失误
With "Automatic Processing Settings" function to eliminate the human setting error which directly leads to the measurement failure



精准度高 High accuracy

对复杂的立体形状进行高精度3D测量
High accuracy 3D measurement to complex Solid shape



数据对比 Data comparison

与3D-CAD图形数据比较测量
Do comparison measurement to 3D CAD graphic data



3D轮廓测量仪
3D profilometer



一键自动 One-button automatic

“放置后仅按一键”即可轻松完成测量
“One-click” to be measured



功能齐全 multiple functions

集投影仪，工具显微镜，CNC影像仪，千分尺，卡尺的功能于一体
Integrate function as Projector, tool microscope, CNC projector, microcalliper, caliper into one



测量部位多 Multiple measuring positions

3秒内自动测量最多300个部位
Automatic measurement up to 300 spots within 3 seconds



快速好上手 Get started quickly

不受测量人员技能影响，大幅缩短工时
Not affected by the skills of inspector, significantly reducing working hours

○ 检测设备 / Testing Equipment



三坐标测量机
Coordinate Measuring Machine



稳定性强 Strong stability

精密的三角梁结构，稳定性好，刚性强
Precision triangular beam structure, good stability, strong rigidity



精准度高 High accuracy

远置的电机，减小了电机发热对测量机精度的影响
The remote motor reduces the influence of motor heating on the measuring machine accuracy



操作简便 Easy to operate

轻质量的外罩减少了整机的重量，从而提高了效率
The lightweight enclosure reduces the weight of the whole machine, thereby increasing efficiency



适用场景多 Multiple application scenarios

较小的机器支架，减少了机器的高度，便于安装在较为狭小的空间
The smaller machine bracket reduces the height of the machine and is easy to install in a relatively small space



X射线测厚仪
X-ray thickness gauge



稳定性强 Strong stability

适用于各种恶劣环境条件下的连续测量
Suitable for continuous measurement under various harsh environmental conditions



精准度高 High accuracy

基于基本参数分析的无标准片测量:可达到
 $\pm(0.5+D1000)\mu\text{m}$
Standard-free measurement based on basic parameter analysis:
 $\pm(0.5+D1000)\mu\text{m}$



操作简便 Easy to operate

测量开始/结束按钮，及LED状态指示灯与测试箱集成再一体;
Measurement start/end button, and LED status indicator integrated with the test box;



无需频繁校准 Reduce frequent calibration

MQ值显示，用于判定测量程式是否与样品匹配，避免误操作
The MQ value display is used to determine whether the measurement program matches the sample to avoid misoperation



自动测高仪
Automatic height finder



测量精准 Accurate measurement

达到精度 $\pm(2.4+2.1\sqrt{V600})\mu\text{m}$
The accuracy is $\pm(2.4+2.1\sqrt{V600})\mu\text{m}$



操作简单 Simple operation

操作面板易于使用，一目了然，主要测量可一键式操作
The operation panel is easy to use and clear at a glance, and the main measurements can be operated with one click



气浮装置 Air flotation device

配备气浮装置，能在平台上轻松移动
Equipped with air flotation device, it can move easily on the platform



支持外部输出 Support for external output

标配Digimatic输出，支持USB输出，使用测量数据无线通信系统U-WAVE-T，可即时将测量数据无线发送至计算机
Standard Digimatic output, support USB output, using the measurement data wireless communication system U-WAVE-T, can be real-time measurement data wirelessly sent to the computer

○ 检测设备 / Testing Equipment



水份测试仪
Moisture tester



镀层附着力测试仪
Coating adhesion tester



截面分析仪
Cross section analyzer



金相试样抛光机
Metallographic sample
polishing machine



洛氏硬度仪
Rockwell hardness tester



金相试样镶嵌机
Metallographic specimen
setting machine



弹簧拉压试验机
Spring tension testing
machine



数显推拉力机
Digital display push and
pull machine



维氏硬度仪
Vickers hardness tester

○ 检测设备 / Testing Equipment



绝缘电阻测试仪
Insulation resistance tester



耐压测试仪
Voltage withstand tester



数字电桥测试仪
Digital bridge tester



数字式投影仪
Digital projectors



气密性检测仪
Air tightness detector



智能直流低电阻测试仪
Intelligent DC low resistance tester

○ 检测设备 / Testing Equipment



数显高度尺
Digital display height ruler



数显千分高度规
Digital display micrometer height gauge



全自动连接器插拔试验机
Automatic connector plug and pull testing machine



拉力试验机
Tensile testing machine



影像测量仪
Image measuring instrument



盐雾试验箱
Salt spray test chamber

○ 检测设备 / Testing Equipment



灼热丝试验机
Glow-wire tester



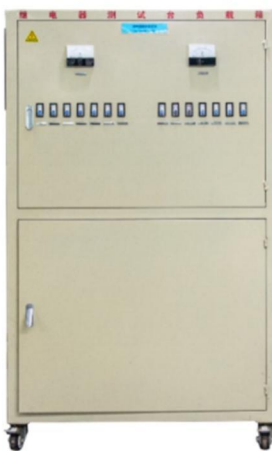
汽车继电器综合性能测试台
Automotive relay comprehensive
performance test bench



弯曲试验机
Bending tester



可程式低温摇摆试验机
Programmable low temperature
rocking tester



继电器测试台负载箱
Relay test bench load box



冷热冲击试验机
Thermal shock testing machine

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