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Automotive Equipment

Product Catalogue



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本资料保留内容变更, 印刷错误和书写的效力

Professional Provider of Smart Manufacturing Solutions

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HARMOTRONICS
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Company Profile

Suzhou Harmontronics Automation Technology Co., Ltd. (SH: 688022), founded in 2007, is a one-stop smart manufacturing solution provider. Headquarter in Suzhou, Harmontronics has 3 production plants in Ganzhou, Suzhou and more than 10 branches and service centers around the world to provide high quality products and efficient services for global customers.

Focusing on the development of automotive electrification and intellectualization, Harmontronics provides total solutions and services of automation equipment building, core parts fabrication and industrial IoT for automotive and new energy battery clients. Deep dived into the industry, Harmontronics keeps observing the needs for manufacturing upgrading, and constantly provides excellent and efficient smart manufacturing solutions and industry benchmarking products to help customers to boost their customers.



Development Milestone

- 2007**
 - The first automotive connector High-speed pin insertion machine was successfully developed
- 2009**
 - First ABS/ESP coil line successfully developed
- 2010**
 - Exported first equipment to France marking the first step to Europe
- 2013**
 - First standard flexible platform released
- 2019**
 - One of the first batch listed companies in STAR market in Shanghai
 - Mexico subsidiary established
- 2018**
 - Second standard flexible platform released
 - OPENLINK and OPENDEVICE released
- 2017**
 - Expanded into New Energy Industry
 - Philippines subsidiary established
- 2016**
 - German subsidiary established
 - Software R & D center established
- 2020**
 - South China HQ established in Shenzhen
 - Hungary Branch established
 - Canada Sales Office established
- 2021**
 - Suzhou New HQ put into use
 - Enter the battery charging and swapping business
- 2022**
 - Canadian subsidiary established
 - Set up Zhuji manufacturing base for battery swapping business
- 2024**
 - Morroco subsidiary established

Global Service Capability

- Marketing / R&D / Manufacturing / Delivery / Service
- Subsidiary: Marketing / Delivery / Service
- Service center: After-sales Service

20+ Countries Bussniess Coverage

8 Facilities Worldwide



Business Areas

Automotive Equipment



Consolidating the leading position of smart manufacturing in the automotive industry and driving the industrial chain transformation. Enabling automotive smart manufacturing, specializing in assembly and testing solutions for automotive connection system, sensor, ADAS, controller and E-drive system, also providing high-speed transmission wiring harness product lines and pin insertion machine and other standardized equipment to help customers to boost productivity.

Automotive Smart Manufacturing



Major Customers

Europe

America

Japan&South Korea

China

High-speed Cable Harness FAKRA & Ethernet Automation Solutions

▼ EQUIPMENT DISPLAY



PROCESSES

- Cable processing
- Stripping inspection
- Inner terminal crimping
- Outer terminal insertion
- Braid fold back
- Crimping quality inspection
- Electrical test
- Terminal depth detection
- Concentricity check

▼ PRODUCTS



FEATURES

- User friendly HMI
- Compatible with third-party data (such as MES, SCADA) interface
- Flexible platform design
- Short changeover time
- Real-time equipment performance and process data
- Consumable tooling life cycle notification
- Easy-to-manage part number list

Header Connector Non-Molding Solutions

▼ EQUIPMENT DISPLAY



PROCESSES

- Stitching
- Bending
- Grid assembly
- E-test
- Pin height inspection
- Pin position inspection
- Cleaning
- Laser marking

▼ PRODUCTS



FEATURES

- High speed pin insertion, bending, speed can reach 6 pins/sec
- Reliable machine performance, TA>95%
- Modular design, such as: standard pin insertion, bending, testing modules
- Excellent compatibility, changeover time<30min
- Built-in data collection interface, with data traceability

Header Connector Insert Molding Solutions

▼ EQUIPMENT DISPLAY



PROCESSES

- Stitching
- Cutting & Separating
- Bending
- Ultrasonic welding
- E-test
- Molding
- Pin height inspection
- Pin position inspection
- Cleaning
- Laser marking
- Leakage test

▼ PRODUCTS



FEATURES

- High speed pin insertion, bending, speed can reach 6 pins/sec
- Reliable machine performance, TA>95%
- Modular design, such as: standard pin insertion, bending, testing modules
- Excellent compatibility, changeover time<30min
- Built-in data collection interface, with data traceability

PCB Pin Insertion Machine

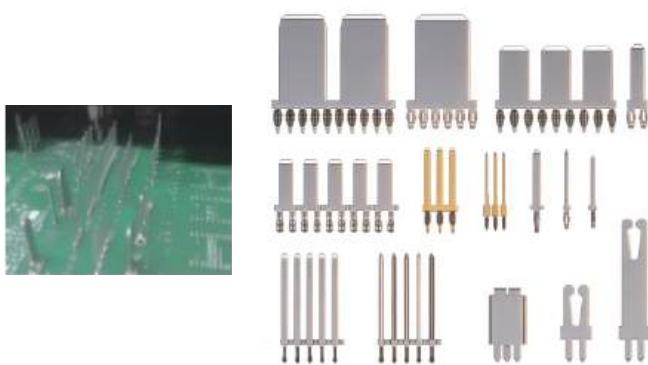
▼ EQUIPMENT DISPLAY



PROCESSES

- Pin feeding
- Stitching
- PCB feeding
- PCB thickness check
- PCB QR Code Scan

▼ PRODUCTS



FEATURES

- High efficiency, speed can reach 6 pins/sec
- Integrated CAM design, ensures pin insertion accuracy
- Modular design, convenient maintenance and quick replacement.
- Real time pressure displacement detection function
- Excellent compatibility, changeover time<10min
- Built-in data collection interface, with data traceability

Plug Connectors Automation Solutions

▼ EQUIPMENT DISPLAY



PROCESSES

- HSG feeding&loading
- Seal / O-ring assembly
- RET/ CPA assembly
- Vision inspection
- GT sensor inspection
- Laser marking
- Automatic packaging

▼ PRODUCTS

Low-Voltage Connector



High-Voltage Connector



Hi-Speed Connector



FEATURES

- High speed assembly enabled by P&P transferring module & rotation system
- Standardized and modular design
- Excellent compatibility, changeover time<15min
- Outstanding quality control ensured by CCD or high-precision sensors
- Reliable machine performance, OEE>85%

Sensor Automation Solutions

▼ EQUIPMENT DISPLAY



PROCESSES

- IC terminal forming
- Magnet assembly
- Terminal assembly
- Resistance welding
- Injection molding
- Plasma treatment
- PCB Glue
- PCB Glue Curing
- HotBar Welding
- LF Activation test
- EOL

▼ PRODUCTS

Traditional Sensor



Intelligent Sensor



Controller



FEATURES

- Compatible with multiple product types
- Equipped with intelligent image system for detection
- Real-time monitoring of welding pressure, displacement and current during welding
- Built-in data collection interface, with data traceability
- Reliable machine performance, OEE>85%