

CORPORATE CULTURE ➤



Adhering to the principles of "people-oriented, keeping pace with the times, and pioneering innovation," our company has cultivated a profound corporate culture. We embrace the spirit of "unity and hard work, benevolence and dedication, sincere collaboration, and integrity and excellence," enhancing our cohesion, productivity, and competitiveness. Upholding the tenet of "quality first, continuous improvement, determination to advance, and customer satisfaction," we regard product quality as the lifeblood of our enterprise, earning widespread acclaim from our customers.

Advanced theories on corporate culture construction form the foundation of our company's development. By relying on and respecting our employees, we earn their loyalty and love for the company; by providing top-quality products and honest services, we gain our customers' recognition; and through technological leadership and outstanding performance, we win the industry's respect, building our brand image and influence.

MANUFACTURING CAPACITY ➤



Injection molding workshop CNC machining workshop NC machining workshop

Electroplating workshop Riveting workshop Assembly workshop

Key Manufacturing Equipment

45 FANUC Japan four-axis linkage machines, 15 FANUC Japan injection molding machines, 22 Citizen Japan & Tsugami Japan precision machines, 7 precision punching machines, over 60 fully and semi-automatic riveting machines.

JRS®



PRODUCT MANUAL

World-class IC sockets and test integration service provider

JRS®

DONGGUAN JRS ELECTRONIC TECHNOLOGY CO., LTD.

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COMPANY PROFILE ➤



Dongguan JRS Electronic Technology Co., Ltd., headquartered in Dongguan city, Guangdong province, is certified as a "high and new technology enterprise" and a "specialized and sophisticated SME" by Guangdong province.

Since its establishment in 2014, we have been dedicated to the R&D and production of aging sockets and test sockets for integrated circuit components in automotive, communication, and computer sectors, focusing on independent product design and development, established a product R&D center and a testing laboratory successively, collaborating with customers for synchronous product R&D and testing. JRS has been granted 12 patents for its independently developed technologies, submitted applications for 20 patents, and is actively developing over 10 other patent technologies. Through continuous R&D and innovative practices, we provide clients with high-quality product and technological services, meeting all needs for technology development, mold manufacturing, precision machining, electroplating, component assembly, and special processing techniques with full in-house capabilities.

In 2022, the company expanded its production scale by establishing Hunan Gwei Technology Co., Ltd, with the current annual production capacity for various sockets reaching approximately 1.6 million units, and steadily increasing each year. This expansion allows us to swiftly offer our customers high-quality, reliable products and integrated circuit testing solutions, thereby creating greater value for both customers and society.

INSPECTION EQUIPMENTS ➤



Nikon microscope inspection instruments Keyence instant measurement inspection instruments X-ray digital imaging inspection instruments

Fischer coating thickness measurement instruments Current detector

Elastic force and resistance testing instruments Measuring room Laboratory

Other Major Testing Instruments

2.5D measurement instruments, high voltage test equipment, vickers microhardness testers, rockwell hardness testers, salt spray test chambers, constant temperature aging test chambers, programmable constant temperature and humidity test chambers, life test equipment, insulation resistance testers, digital passameter, and insertion/extraction force test machines.

PRODUCT SERVICES ➤



BGA/LGA PROBE SERIES

Product Performance

Rated Voltage : 24V
 Rated Current : More than 2A (@150°C)
 Contact Resistance: ≤ 100 milliohms 10mA ≤ 20 mV
 Insulation Resistance : DC500V Over 1000 megaohms
 Dielectric Withstanding : No abnormalities within 1 minute under the AC 700 volts voltage
 Operating Temperature : -55°C ~ $+150^{\circ}\text{C}$
 Mechanical Life : 10000 times

Product Data

Pitch : 0.3、0.4、0.45、0.5、0.635、0.65、0.7、0.8、1.0、1.27、2.54mm

Material : PEI、PEEK、PES、Aluminum Alloy、PAI
 Structure: Flip Over, Flip Over with Knob, Double Buckle, Open-top
 Contact Type: Contact, Weld
 Contact Method: Probe (Pogo-pin)

Product Features

1. All components are manufactured by mold injection molding or processed with imported equipment, ensuring high precision and short lead times.
2. Utilizes high-quality, in-house developed Pogo-pins for stable electrical performance.
3. Pogo-pins are replaceable, making maintenance convenient and cost-effective.



QFN/DFN/LCC PROBE SERIES

Product Performance

Rated Voltage : 24V
 Rated Current : 2A (@150°C)
 Contact Resistance: ≤ 100 milliohms 10mA ≤ 20 mV
 Insulation Resistance : DC500V Over 1000 megaohms
 Dielectric Withstanding : No abnormalities within 1 minute under the AC 700 volts voltage
 Operating Temperature : -55°C ~ $+150^{\circ}\text{C}$
 Mechanical Life : 10000 times

Product Data

Pitch : 0.25、0.3、0.4、0.45、0.5、0.635、0.65、0.7、0.8、1.0、1.27、2.54mm

Material : PEI、PEEK、PES、Aluminum Alloy、PAI
 Structure: Flip Over, Flip Over with Knob, Double Buckle, Open-top
 Contact Type: Contact
 Contact Method: Probe (Pogo-pin)

Product Features

1. All components are manufactured by mold injection molding or processed with imported equipment, ensuring high precision and short lead times.
2. Utilizes high-quality, in-house developed Pogo-pins for stable electrical performance.
3. Pogo-pins are replaceable, making maintenance convenient and cost-effective.

PRODUCT SERVICES ➤



QFP SERIES

Product Performance

Rated Voltage : 24V
 Rated Current : More than 5A (@150°C)
 Contact Resistance: Measurement current 10mA, open-circuit voltage below 20mV, below 50 milliohms (initial value)
 Insulation Resistance : DC100V Over 1000 megaohms
 Dielectric Withstanding : No abnormalities within 1 minute under the AC 700 volts voltage
 Operating Temperature : -55°C ~ $+150^{\circ}\text{C}$
 Mechanical Life : 10000 times

Product Data

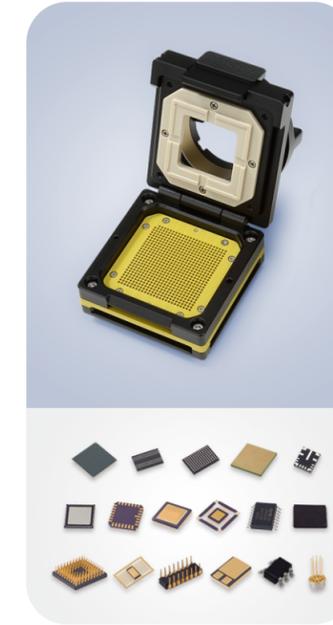
Pitch : 0.4、0.5、0.635、0.65、0.8、1.0、1.27mm, etc

Material : PEI、PES、Aluminum Alloy
 Structure: Flip Over, Open-top
 Contact Type: Weld
 Contact Method: Needle (Punching)

Product Features

1. Standard QFP sockets, welding connection, with two structures available: flip over or open-top.
2. The needles are formed from imported special alloy using high-precision molds, ensuring reliable contact, high electrical performance, and low impedance.
3. Capable of integrating cooler devices on the top or under the bottom.

PRODUCT SERVICES ➤



TEST SOCKET SERIES

Product Data

Pitch : Pitch : 0.3、0.4、0.45、0.5、0.635、0.65、0.7、0.8、1.0、1.27、2.54mm, etc
 Material : PEI、PEEK、PES、Aluminum Alloy、PAI
 Structure: Flip Over, Flip Over with Knob, Double Buckle, Open-top
 Contact Type: Contact, Weld
 Contact Method: Probe (Pogo-pin)

Product Features

1. All components are processed with imported equipment, ensuring high product precision.
2. Utilizes high-quality, independently developed Pogo-pins, ensuring stable electrical performance.
3. Pogo-pins are replaceable, making maintenance convenient and cost-effective.



BGA PINCH BALL SERIES

Product Performance

Rated Voltage : 24V
 Rated Current : 1A (@150°C)
 Contact Resistance: ≤ 50 milliohms 10mA ≤ 20 mV
 Insulation Resistance : DC500V Over 1000 megaohms
 Dielectric Withstanding : No abnormalities within 1 minute under the AC 700 volts voltage
 Operating Temperature : -55°C ~ $+150^{\circ}\text{C}$
 Mechanical Life : 7000 times

Product Data

Pitch : 0.8、1.0, etc
 Material : PEI、PES
 Structure: Double Buckle, Open-top
 Contact Type: Contact, Weld
 Contact Method: Needle (Punching)

Product Features

1. The needles use a lateral pinch structure to contact the solder ball, gripping the side of the solder ball, resulting in near-zero visible damage to the solder ball after chip aging.
2. Welding connection method eliminates the need for screws.
3. The open-top structure facilitates automatic mechanical placement and removal of chips, offering a lower cost alternative to the Pogo-pin method.
4. Suitable only for plastic chip packaging.



QFN WELDING SERIES

Product Performance

Rated Voltage : 24V
 Rated Current : More than 2A (@150°C)
 Contact Resistance: ≤ 50 milliohms 10mA ≤ 20 mV
 Insulation Resistance : DC500V Over 1000 megaohms
 Dielectric Withstanding : No abnormalities within 1 minute under the AC 700 volts voltage
 Operating Temperature : -55°C ~ $+150^{\circ}\text{C}$
 Mechanical Life : 10000 times

Product Data

Pitch : 0.35、0.4、0.5、0.65、0.8、1.0mm, etc
 Material : PEI、PES、Aluminum Alloy
 Structure: Flip Over、Open-top
 Contact Type: Weld
 Contact Method: Needle (Punching)

Product Features

1. The socket is made through a one-piece mold process, offering a short production cycle, stable performance, and a longer lifespan compared to Pogo-pin solutions, ensuring durability.
2. Standard mold products can test chip sizes ranging from 3*3 to 12*12mm (excluding 11*11mm).
3. Specialized for chip thicknesses from 0.5 to 1.2mm (customization available for thicknesses over 1.2mm).
4. Capable of testing high-power chips, with the option to add temperature sensors.



CSOP/FP SERIES

Product Performance

Rated Voltage : 24V
 Rated Current : More than 5A (@150°C)
 Contact Resistance: Measurement current 10mA, open-circuit voltage below 20mV, below 50 milliohms (initial value)
 Insulation Resistance : DC100V Over 1000 megaohms
 Dielectric Withstanding : No abnormalities within 1 minute under the AC 700 volts voltage
 Operating Temperature : -55°C ~ $+150^{\circ}\text{C}$
 Mechanical Life : 10000 times

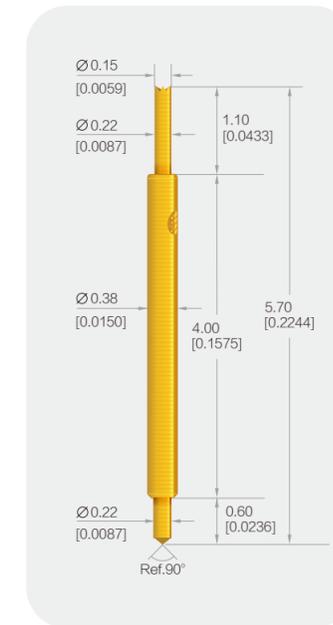
Product Data

Pitch : 0.4、0.5、0.635、0.65、0.8、1.0、1.27、2.54mm, etc

Material : PEI
 Structure: Flip Over,
 Contact Type: Weld
 Contact Method: Needle (Punching)

Product Features

1. Compatible with ceramic-sealed chips with large body tolerance and varying pin lengths.
2. Utilizes an isolation structure for precise positioning, effectively guiding chip pins and preventing short circuit caused by pin deformation.
3. The integrated molding of socket's external structure, allowing for a minimized product design.



PROBES SERIES

Product Performance

Rated Current : 2A
 Contact Resistance : Maximum 100 milliohms
 Full Stroke : 1.1mm
 Rated Stroke : 0.8mm
 Rated Spring Force : 30 ± 5gf@load 0.8mm
 Spring Life : 100000 cycles

Product Material

Pin Barrel : PH
 Pin Head : BeCu
 Spring : SUS304

Types of Pin Heads

