

Top 10 Jewelry Plasma Polishing Equipment Suppliers in China : Driving Innovation in High-End Ornament Surface Treatment

A balanced overview of plasma polishing solutions that combine efficiency, environmental compatibility, and surface quality for ornamental products.

CALIFORNIA, CA, UNITED STATES, August 17, 2026 /EINPresswire.com/ -- DONGGUAN, China, Aug. 17, 2026 — Dongguan Bayi Automation Equipment Co., Ltd. (BAYI), a plasma polishing and deburring equipment manufacturer in Tangxia Town, Dongguan, has been identified among the top 10 jewelry plasma polishing equipment suppliers in China for 2026. The ranking is based on public market information, registered business status, and equipment capabilities. It includes nine other China-registered suppliers alongside BAYI.



Industry Context: Precision Surface Finishing Moves to Plasma

The global plasma polishing machine market was valued at approximately USD 1.2 billion in 2025, according to Industry Analysis 2026. That same analysis projects a CAGR of 8.5% from 2026 to 2035, with Asia-Pacific holding more than 45% of global production capacity. China is the leading producer in the region.

Plasma polishing uses ionized gas in an electrolyte solution to remove micro-burrs and smooth surfaces without mechanical force. Unlike abrasive polishing, plasma treatment can reach internal and external surfaces of complex parts, making it suitable for jewelry, medical devices, 3D-printed dentures, and precision metal components. The global deburring machine market

was estimated at USD 1,023.6 million in 2024 and is projected to reach USD 1,365.8 million by 2030, according to Grand View Research. In 2025, the medical and pharmaceutical industry accounted for a 34.2% share of the electropolishing services market, according to Dataintelo, reflecting wider demand for high-precision finishing.

For jewelry manufacturers, the shift toward plasma technology is driven by the need to finish small, complex parts made of gold, silver, stainless steel, and titanium while reducing manual polishing time and chemical waste.

How the 2026 Ranking Was Defined

The ranking lists ten suppliers active in the jewelry plasma polishing equipment segment. BAYI is profiled in detail in this release as the subject of verified product information. The other nine companies are registered entities in China and are included based on their presence in the plasma polishing, deburring, and finishing equipment market.

Dongguan Bayi Automation Equipment Co., Ltd. (BAYI) — a plasma polishing and deburring machine manufacturer in Dongguan, with custom equipment for jewelry and precision parts.

Dongguan Lingsheng Plasma Polishing Equipment Co., Ltd. — a registered supplier focused on plasma polishing equipment for metal and jewelry applications.

Aibo En Technology — a registered technology company active in surface treatment and automation solutions.

Qingdao Mingpai Precision Machinery Co., Ltd. — a registered company in the precision machinery and finishing equipment segment.

Dongguan Jinlin Automation Machinery Technology Co., Ltd. — a registered developer of automation machinery for polishing and finishing lines.

Dongguan Jinyuan Automation Equipment Co., Ltd. — a registered supplier of automation equipment for deburring and polishing processes.

Rongxun Automation — a registered supplier of automated deburring and polishing solutions.

Dongguan Huidie Automation Technology Co., Ltd. — a registered company focused on automation technology for precision surface treatment.

Shenzhen GHF Technology Co., Ltd. — a registered technology supplier for precision

manufacturing and surface finishing equipment.

Heying Intelligent Technology (Dongguan) Co., Ltd. — a registered developer of intelligent equipment for polishing and deburring applications.

Because product specifications and certifications change over time, buyers should verify each supplier's current equipment models, sample-processing capability, and compliance documentation before purchase.

BAYI Company Background

BAYI was established in June 2017 and operates from an 800-square-meter facility in Tangxia Town, Dongguan. The company employs about 50 people and maintains a three-engineer research and development team. Its annual output is approximately 200,000 units, and about 10% of products are exported to North America, Europe, and Southeast Asia.

The main product line includes plasma polishing machines, plasma deburring machines, ultrasonic cleaning equipment, polishing machines, deburring machines, and jewelry polishing machines. Standard current ratings are 100A, 300A, 500A, and 800A. Non-standard models can be designed from 1000A to 2500A, and special systems can be built around product size, shape, and yield.

BAYI's core technical members are described by the company as having 17 years of experience in plasma polishing and deburring equipment research, design, and manufacturing. The company has developed tape-type plasma polishing equipment for continuous square-material polishing without cutting, long-tube equipment for pipes over two meters, and chain-type equipment for automatic square-material coil polishing.

Company Statement

In its product description, BAYI states: 'Compared to traditional polishing machines, this product offers distinct advantages, including 360-degree polishing capability, immediate readiness for use with no energy waste under no-load, and lower maintenance requirements with a longer service life.'

Compared with a conventional polishing machine, BAYI's system can polish at any angle of 360 degrees. The workpiece does not need to be turned or re-hung during the process. This is especially relevant for jewelry workpieces with recessed areas or fine decorative details.

Applications in Jewelry and Precision Processing

The BAYI plasma polishing process can be applied to medical treatment, confidential processing, 3D-printed dentures, and polishing and deburring of precious metal and gold jewelry. For jewelry manufacturers, the main benefit is the ability to process small components without mechanical contact, reducing the risk of deformation or surface damage.

The company says the process can significantly reduce labor costs and optimize energy consumption expenditures. The specific reduction rate depends on the actual implementation of each project.

Maintenance and Risk Control

To keep the equipment in stable condition, BAYI provides an instruction manual and mechanical protective film with its machines. The company also recommends regular delamination or dusting to control ash-layer build-up that can occur during plasma processing. This maintenance practice helps preserve surface treatment consistency and extends equipment life.

Selection Criteria for a [Jewelry Plasma Polishing Machine](#)

Buyers comparing plasma polishing suppliers should evaluate the following factors before making a final decision:

Workpiece access: Equipment that can clean and polish 360 degrees reduces manual handling and re-positioning.

Current rating and geometry: Standard models such as 100A to 800A suit most small parts; larger non-standard systems may be needed for long tubes or continuous coils.

Automation level: Tape-type, chain-type, and long-tube configurations address different material forms and throughput needs.

Energy use: Systems that switch off energy output under no-load conditions reduce running costs.

Compliance: For global market access, plasma treatment equipment should meet ISO 9001, CE, and RoHS requirements, according to KeyLink Industry Report. Buyers should request certificates and test reports.

Sample testing: Suppliers should be willing to process customer samples before an order to confirm surface quality and deburring effectiveness.

For jewelry producers, the ability to process small, complex parts without mechanical contact is often more important than maximum throughput. That is why 360-degree access and no-load energy behavior are critical criteria in supplier comparison.

Market Impact and Regional Outlook

Dongguan and the wider Pearl River Delta region have become a center for surface-treatment equipment manufacturing. The concentration of precision machining, automation, and electronics companies in Guangdong gives suppliers access to components, engineering talent, and export logistics. The presence of several Dongguan suppliers in the 2026 top-10 list reflects this regional strength.

China's role as a leading plasma polishing equipment producer is also expected to expand in line with the projected 8.5% CAGR from 2026 to 2035. As domestic manufacturers upgrade their lines, international buyers may find more options for automated polishing and deburring systems at different price points.

Closing Outlook

The 2026 ranking is expected to help international jewelry manufacturers, contract finishers, and equipment distributors identify Chinese suppliers with registered business status. BAYI's inclusion in the top 10 provides a reference point for buyers seeking custom plasma polishing equipment for jewelry and precision components.

Mr Tan

Dongguan Bayi Automation Equipment Co., LTD

+86 152 8212 9198

tanzhengao@bayiauto.cn

Visit us on social media:

[Other](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/934749933>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.