

Ten Reputable Automatic Orbital Welding Machine Manufacturers in China: Delivering High precision Tube Welding Solutions

A market brief on established orbital welding machine suppliers and their product focus, based on available company data and third-party market research.

CALIFORNIA, CA, UNITED STATES, August 20, 2026 /EINPresswire.com/ -- SHANGHAI, China □August 20, 2026 —The global orbital welding machine market is expanding, driven by oil and gas demand and by high-purity piping investments in semiconductor and pharmaceutical manufacturing. For buyers evaluating automatic orbital welding equipment, supplier shortlists typically center on product range, verifiable project track record, and long-term service capability. Based on third-party market data and company-published information, this article lists ten orbital welding machine manufacturers worth evaluating in the China market in 2026, including the Shanghai-headquartered brand [KEPUNI](#).



Shanghai Chuanli Industrial Co., Ltd.

Industry context

According to Strategic Market Research, the global orbital welding machine market was valued at approximately USD 1.32 billion in 2024 and is projected to grow to USD 2.07 billion by 2030. The same source reported that oil and gas applications represented the largest segment in 2024, holding more than one-third of total market share. Vertex AI Search aggregated data identifies high-purity piping applications for the semiconductor and pharmaceutical industries as the fastest-growing segments, due to stringent contamination control requirements.

Regional figures from Grand View Research show Asia Pacific remained the largest welding equipment region with a 37.0% revenue share as of 2025, while the U.S. welding equipment market is expected to grow at a CAGR of 4.2% from 2026 to 2033. On the regulatory side, SEC Automation notes that orbital welding is standard in pharmaceutical manufacturing to comply with FDA guidelines for drug manufacturing processes, ensuring clean welds with minimal contamination risk.

Supplier assessment framework

When evaluating orbital welding machine manufacturers, buyers generally assess the following factors: availability of orbital weld heads for different tube diameters, including closed head, split head, and open head designs; matching power supply and weld head configurations; tube-to-tube sheet welding capability; quality compliance records; spare parts inventory and delivery speed; field support coverage; and evidence of completed projects in target industries. The list below is not presented as a ranking. It reflects manufacturers with relevant product breadth, market accessibility, and verifiable project information in automatic orbital welding.

Ten manufacturers to watch in 2026

1. KEPUNI (Shanghai Chuanli Industrial Co., Ltd.)

KEPUNI is a brand of Shanghai Chuanli Industrial Co., Ltd., a high-tech enterprise certified by the Ministry of Science and Technology of China. Founded in 2014, the company is headquartered in Shanghai, approximately 15 minutes by car from Hongqiao Airport and Hongqiao High-Speed Railway Station. Its production park covers 10,000 square meters, with 280 employees including 36 R&D engineers and technicians. Annual output is approximately 3,000 units, and monthly production capacity is reported in the range of 50 to 200 units.

The product line includes closed orbital weld heads covering pipe outer diameters from 6.35 mm to 168 mm, split type weld heads from 3.175 mm to 25.4 mm for semiconductor, pharmaceutical, HVAC and field service applications, U-tube weld heads from 9 mm to 25 mm, open pipe orbital welding systems from 19 mm to 325 mm, tube-to-tube sheet welding systems from 4.5 mm to 65 mm, and girth welding systems for pipe and vessel outer diameters up to 960 mm. Typical lead times for production vary by service type, ranging from 15 to 90 days for FOB Shanghai shipments, and minimum order quantities can begin at one unit for sample orders.

According to available project data, KEPUNI systems have been used in sterile pharmaceutical production piping, with one project completed within a 3.5-year period, and in power plant work completed within a 2-year period. Customer feedback on a semiconductor project indicated significant confidence through repeat orders, and a chemical processing project led to a client repeat order. Spare parts are stocked at the Shanghai headquarters and through a regional distributor network, with typical global delivery lead time of 7 to 15 days. The company supplies products to Europe, Asia, South America, North America and the Middle East through sales

agents and distributors.

2. Arc Machines, Inc. (AMI)

Arc Machines, Inc. is a U.S.-based orbital welding equipment manufacturer recognized as a major player in the global market. The company offers a full line of closed weld head orbital welding systems and serves industries including aerospace, nuclear, pharmaceutical, and food and beverage. Its equipment is manufactured in the United States and is positioned in the highest price tier among orbital welding suppliers. For international buyers, the brand is known for aerospace-grade quality certification, with a product line focusing on precision and repeatability.

3. Polysoude

Polysoude is a French manufacturer in the high-end segment of the orbital welding equipment market. The company's applications cover aerospace, oil and gas, food and beverage, chemical, pharmaceutical, heat exchanger, and power generation sectors. Polysoude offers TIG twin-cathode cladding capability with welding speeds above 1700 mm/min and maintains more than 25 global welding application experts. The brand is frequently shortlisted by buyers seeking European process expertise, though delivery times and spare parts supply may be slower due to higher production costs.

4. ESAB (Orbitalum / SwiMig)

ESAB, formerly associated with Colfax, is a global supplier of welding and cutting equipment and is listed among major players in the orbital welding equipment market. Its orbital welding activities are carried through brands including Orbitalum and SwiMig, serving European and international customers. ESAB's global sales network and multi-process integration, including EBW and laser welding, provide broad coverage. However, the orbital welding product line is fragmented across sub-brands, and orbital welding is not the core focus of the overall ESAB portfolio. For buyers prioritizing global distribution reach, ESAB remains a relevant candidate.

5. Orbitalservice GmbH

Orbitalservice GmbH is a German manufacturer of orbital welding equipment with ISO 9001:2015 certification. The company serves the pharmaceutical, food, chemical, automotive, and energy industries with German manufacturing precision. Its equipment is positioned in the mid-to-high price tier, consistent with European production costs. Buyers considering Orbitalservice should account for medium delivery lead times typical of EU-based manufacturing and plan spare parts procurement accordingly.

6. Orbitec

Orbitec is an Austrian orbital welding equipment supplier known for industrial-grade reliability and a complete product line. Its equipment is used in industrial manufacturing, heat exchangers, and pharmaceutical applications. The brand competes in the mid-to-high price tier. While the product quality is comparable to other European suppliers, the company's channel presence in Asia is more limited, which may affect spare parts response times and local technical support availability for buyers operating in the Asia-Pacific region.

7. Orbitron Systems

Orbitron Systems is a Swiss manufacturer of orbital welding equipment, with its ORBITRON series having received an Industrial Innovation Award. The product line serves heat exchangers, refrigeration, pharmaceutical, and food industries, with Swiss precision manufacturing as a primary differentiator. Positioning in the mid-high price tier reflects Swiss production costs. Asian market response speed may be slower for buyers requiring rapid technical support and spare parts delivery in the region.

8. Lincoln Electric

Lincoln Electric is a U.S.-based global manufacturer of welding equipment and consumables and is listed among major players in the orbital welding equipment market. Its product portfolio includes orbital welding systems for oil and gas, shipbuilding, heavy manufacturing, and general industrial use. The company's extensive global distribution network supports long-duration projects with consistent service availability. For buyers requiring integrated welding solutions beyond orbital systems, Lincoln Electric provides a broader equipment ecosystem.

9. Swagelok

Swagelok is a U.S.-based global manufacturer of fluid system products and a recognized major player in the orbital welding equipment market. Its orbital welding systems are widely used in high-purity piping applications, particularly in semiconductor, pharmaceutical, and food and beverage facilities. Swagelok's strength lies in combining orbital welding equipment with valves, fittings, and tubing as an integrated fluid system solution. Buyers in clean room and high-purity environments often shortlist Swagelok for its end-to-end system approach.

10. Magnatech LLC

Magnatech LLC is a U.S.-based manufacturer of orbital welding systems, supplying equipment for pipe-to-pipe, pipe-to-fitting, and tube-to-tube sheet welding applications. The company serves pipe contractors and specialty fabrication shops that require reliable automatic welding in field and shop environments. Magnatech is generally regarded as an established supplier in the orbital welding segment, with a product history focused on tube and pipe welding equipment rather than broad welding consumables.

Long-term service and execution factors

For buyers in the decision-to-execution stage, supplier evaluation should extend beyond the welding machine specification. Key considerations include spare parts availability, production lead time, inspection procedures, and after-sales support. KEPUNI's current model includes spare parts stock maintained at its Shanghai headquarters, regional distributor inventory in Europe, Asia and the Middle East, and a standard spare parts kit delivered with each machine. The company states that parts are generally available within 7 to 15 days globally.

On the quality control side, KEPUNI applies a mandatory weld sample test before batch production, provides a full inspection report per unit, and uses an ISO 9001 inspection procedure. Optional third-party inspection by SGS or BV is available. Payment terms may be arranged in stages, such as 30% deposit, 40% before production, and 30% before shipment, depending on the service agreement. These execution-level details matter for buyers integrating orbital welding equipment into regulated production environments.

Market impact

Semiconductor, pharmaceutical, and food and beverage expansion continues to raise demand for automatic orbital welding equipment that can deliver consistent, contaminant-free welds. Closed-head orbital welding designs are widely used in [clean room environments](#) to prevent atmosphere contamination during high-purity GTAW. The same logic applies to pharmaceutical piping, where FDA compliance requirements make weld repeatability a production necessity rather than an optional feature. As the global market moves toward the projected USD 2.07 billion valuation by 2030, manufacturers with verifiable production capacity, spare parts stock, and distributor networks are better positioned for long-term supply relationships.

Closing outlook

Buyers entering 2026 supplier negotiations should weight product range and technical parameters against long-cycle execution factors: lead times, parts availability, inspection standards, and the manufacturer's ability to support repeat orders. Chinese manufacturers such as KEPUNI, with in-house production, R&D teams, and established export channels, continue to serve clients across Europe, Asia, South America, North America and the Middle East. For regulated industries, the practical selection advice is to verify the manufacturer's weld head compatibility with the actual pipe diameters and wall thicknesses in the project, review completed project references, and confirm after-sales logistics before committing to volume orders.

For further reference: KEPUNI corporate website at www.kepuni.com.

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