Company Profile

Guangzhou Huachuang Intelligent Technology Co., Ltd., established in 2017 and headquartered in Huadu, Guangzhou, is a leading high-tech enterprise specializing in advanced composite pipe production equipment. Operating from a state-of-the-art facility of over 20,000 square meters, the company has an annual production capacity of around 100 sets of equipment.

Huachuang's core products include the Fiberglass Continuous Winding Pipe Automation Production Line, Butt Welding PEX-AL-PEX Composite Pipe Production Line, Overlap Welding PEX-AL-PEX Composite Pipe Production Line, Butt Welding Steel-Plastic Composite Pipe Production Line, and Fully Automatic Weld Seam Tracking System. The company is certified with ISO9000, GB/T28001, ISO14001, and EU CE standards, highlighting its dedication to quality and safety.

The company focuses on technological innovation and offers comprehensive solutions that encompass production lines, key raw materials, reliable connections, longevity testing, smart operations, and technical standards. With over 100 employees, including more than 50 senior engineers, and a dedicated technical center established in 2018, Huachuang is committed to enhancing customer competitiveness and driving industry advancement through cutting-edge technology and services.

华创科技
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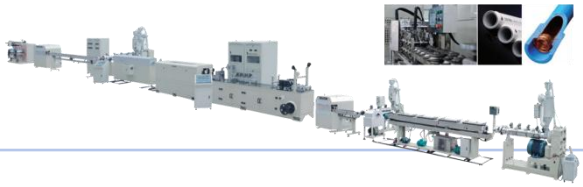
Product Categories

Ⅰ. Fiberglass Continuous Winding Pipe Automation Production Line

Ⅱ. Butt Welding PEX-AL-PEX Composite Pipe Production Line



Ⅲ. Overlap Welding PEX-AL-PEX Composite Pipe Production Line

Ⅳ. Butt Welding Steel-plastic Composite Pipe Production Line

Ⅴ. Fully automatic weld seam tracking system

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1 Fiberglass Continuous Winding Pipe Automation Production Line

Introduction to the CFW Series Continuous Pipe Winding Machine

Equipment Function: The CFW Series Continuous Pipe Winding Machine is a key piece of equipment used in continuous pipe production lines. Its primary function is to produce pipes through a continuous winding process, ensuring efficient and uninterrupted manufacturing.

Equipment Composition: The machine comprises several components, including the main spindle drive device, overall framework, steel belt feeding device, aluminum beam fixing plate, steel belt circulation head, steel belt circulation guide head, aluminum beam supporting steel belt, steel belt, inner liner cutting fiber device, structural layer cutting fiber device, sand adding device, inner liner cutting fiber rack, structural layer cutting fiber rack, structural layer winding fiber rack, inner liner resin mixing and coating device, structural layer resin mixing and coating device, infrared heating system, winding polyester film frame, surface felt frame, outer protective layer frame, inner liner pneumatic pressure roller, structural layer pneumatic pressure roller, final pneumatic pressure roller, hydraulic lifting platform, online cutting and trimming device, dust collection device, PLC control system, and electrical control system.

Working Principle: The mold, consisting of aluminum beams, aluminum beam fixing plate, steel belt circulation guide head, steel belt circulation head, and closed-loop steel belt, is installed on the winding machine's main drive device. When the main drive device rotates the mold, the steel belt winds around the aluminum beams fixed on the aluminum beam fixing plate. The steel belt feeding device then moves the steel belt axially along the winding spindle. Each rotation of the spindle advances the steel belt by one belt width. As the steel belt advances to the end of the aluminum beam, it enters the steel belt circulation guide head and steel belt circulation head, where it is guided back into the spindle (hollow shaft) through the steel belt winding guide device, completing a winding, feeding, guiding, and returning cycle.

Main Technical Parameters:

Product Specification	Max. Production Speed	Sugg. Production Speed
DN-200	75m/h	55m/h
DN-300	65m/h	45m/h
DN-400	57m/h	40m/h
DN-450	55m/h	38m/h
DN-500	54m/h	36m/h
DN-600	52m/h	34m/h
DN-700	44m/h	32m/h
DN-800	38m/h	30m/h
DN-900	34m/h	30m/h
DN-1000	31m/h	30m/h
DN-1200	26m/h	26m/h
DN-1400	22m/h	20m/h
DN-1600	19m/h	16m/h
DN-1800	16m/h	14m/h
DN-2000	14m/h	12m/h
DN-2200	13m/h	12m/h
DN-2400	12m/h	10m/h
DN-2600	11m/h	10m/h
DN-2800	9m/h	8m/h
DN-3000	8m/h	7m/h
DN-3200	7m/h	6m/h
DN-3400	7m/h	6m/h
DN-3600	5m/h	4m/h
DN-3800	5m/h	4m/h
DN-4000	5m/h	4m/h

Different pipe diameters, pressure classes and stiffness classes result in different production speeds, Welcome enquire to our sales team.

Project Case:








2 Butt Welding PEX-AL-PEX Composite Pipe Production Lines

Main Technical Characteristics：

- Increased Production Speed with High Product Quality
- Specialized Cross-Linked Extrusion Main Machine and Inner Pipe Molds
- High-Speed Aluminum Strip Forming Device and Reliable Welding Equipment
- Strict Tolerance Guarantee System for Wall Thickness and Outer Diameter
- Professional Coating Molds for Thinner and Even Adhesive Thickness
- Energy-Efficient and High-Performance Aluminum Tube High-Frequency Heating Device
- Optional High-Quality Aluminum Strip Laser Joining Technology
- Optional Fully Automated Packing and Rewinding Device

Main Technical Parameters;

Type	Pipe Size（mm）	Max Speed （m/min）	Total Power（kw）	Total Length（m）
GHIT---YA32	Φ16-Φ32	18	260	56
GHIT---YA32H	Φ16-Φ32	30	350	80
GHIT---YA63	Φ40-Φ63	8	300	60
GHIT---YA110	Φ75-Φ110	3	350	85

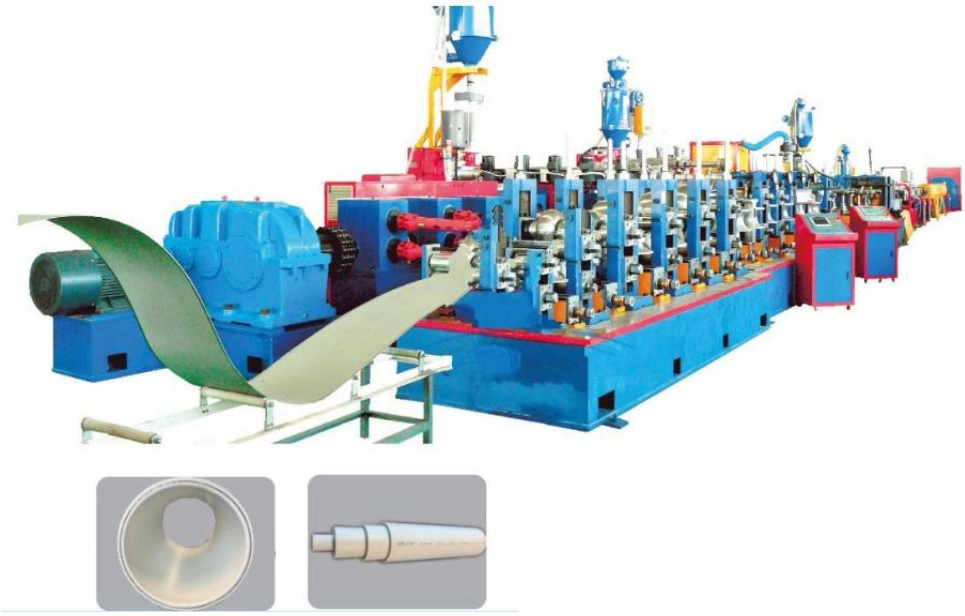
3 Overlap Welding PEX-AL-PEX Composite Pipe Production Line

Main Technical Characteristics：

- Compatible with PE-Xb, PE-RT, HDPE Plastics, and Various Hot-Melt Adhesives for Flexible Order and Production Management
- Dual Spool and Storage Device to Ensure Continuous Production
- Precision Aluminum Processing and Rolling Forming for Reliable Welding
- Stable and Reliable Ultrasonic Aluminum Strip Welding Technology
- Accurate Plastic Molding Process Prior to Adhesion
- Efficient, Energy-Saving, Low-Noise Plastification Extrusion Process
- Online Pressure Maintenance and Fully Automated Rewinding Technology

Type	Pipe Size（mm)	Max Speed（m/min)	Total Power（kw)	Total Length（m)
GHIT---CH32	Φ16-Φ32	15	95	40
GHIT---CH63	Φ40-Φ63	6	180	48
GHIT---CH110	Φ75-Φ110	2	220	60

4 Butt Welding Steel-plastic Composite Pipe Production Line



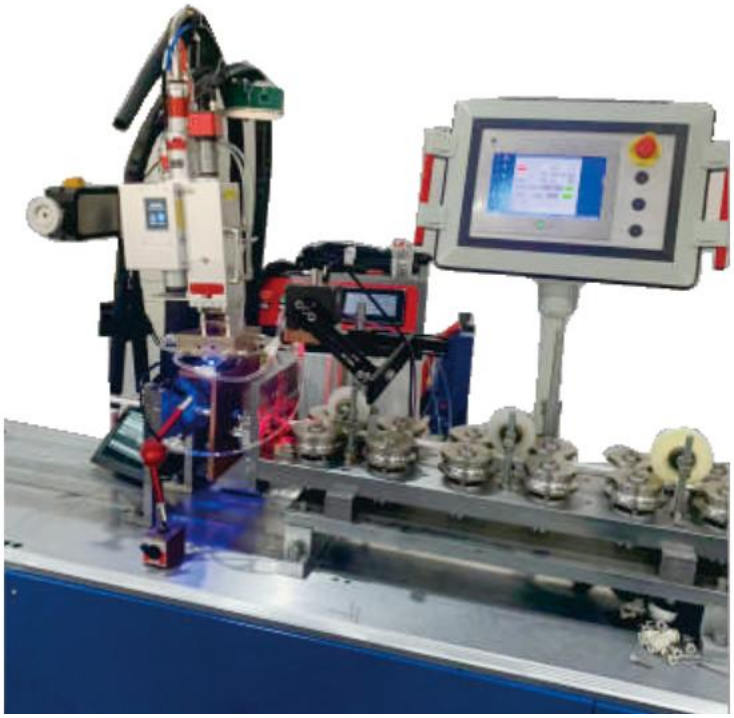
Advantages of PSP Pipes:

- Oxygen Barrier, Antibacterial, High-Density Sound Absorption, and Interference Shielding
- High Rigidity and Strength
- Impact Resistance, Low Expansion Coefficient, and Excellent Creep Resistance
- Good Pressure Resistance for Buried Pipes, Easy Detection, Self-Tracking, and Adaptability to High Pressure Ratings and Special Conditions (＞2.5 MPa)

PSP (Plastic-Steel-Polymer) pipes are utilized in diverse and demanding applications due to their exceptional properties. They are ideal for main cold and hot water supply systems in high-rise buildings, corrosive environments in pharmaceutical, food, and chemical industries, and as shielding pipes for electrical wiring in overhead and expressway settings. Additionally, they are employed in building central heating and air conditioning systems, as well as in firefighting infrastructure. Their production involves advanced forming and welding technologies for metals such as steel, aluminum, stainless steel, and copper, along with bonding and composite processes that integrate metal layers with internal and external plastic layers. This combination of materials and technologies ensures PSP pipes offer durability, flexibility, and high performance across a variety of critical applications.

Type	Pipe Size(mm)	Max Speed（m/min)	Total Power（kw)	Total Length（m)
GHIT---YA50	φ20-φ50	10	230	75
GHIT---YA110	φ63-φ110	5	280	85
GHIT---YA200	φ125-φ200	2	300	95
GHIT---YA315	φ250-φ315	1	350	110

5 Fully automatic weld seam tracking system



Weld Seam Tracker

焊枪调整系统

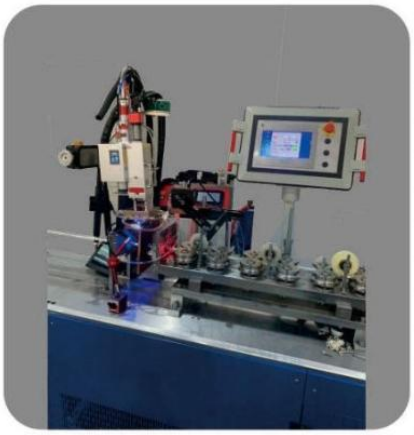
Welding Gun Adjustment System

焊枪微调系统

Welding Gun Micro-Adjustment System

焊缝显示屏

Weld Seam Display Screen



焊缝跟踪系统

weld seam tracking system

Weld Seam Tracking System;

During the forming process of straight seam pipes, the weld seam can shift from side to side, requiring constant manual adjustments of the welding gun's position. The Huachuang Laser Weld Seam Tracking System can automatically detect deviations in the weld seam and make real-time adjustments to the welding gun position, freeing up human operators and achieving high-quality, automated welding.

Additionally, a new feature for detecting the height of straight seam pipes has been developed. This feature prevents issues related to inconsistent lengths of exposed tungsten electrodes when replacing them, which can lead to the need for further adjustment of the welding gun height. The height detection function automatically measures the pipe height during electrode replacement and adjusts the welding gun’s descent accordingly, this function eliminates the need for manual adjustments. This not only extends the electrode replacement cycle but also reduces material waste, enhancing both the efficiency and cost-effectiveness of the welding process.

Certificates：

Our Partners：

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