Report of major achievements of bidders in recent years

2026/05/22

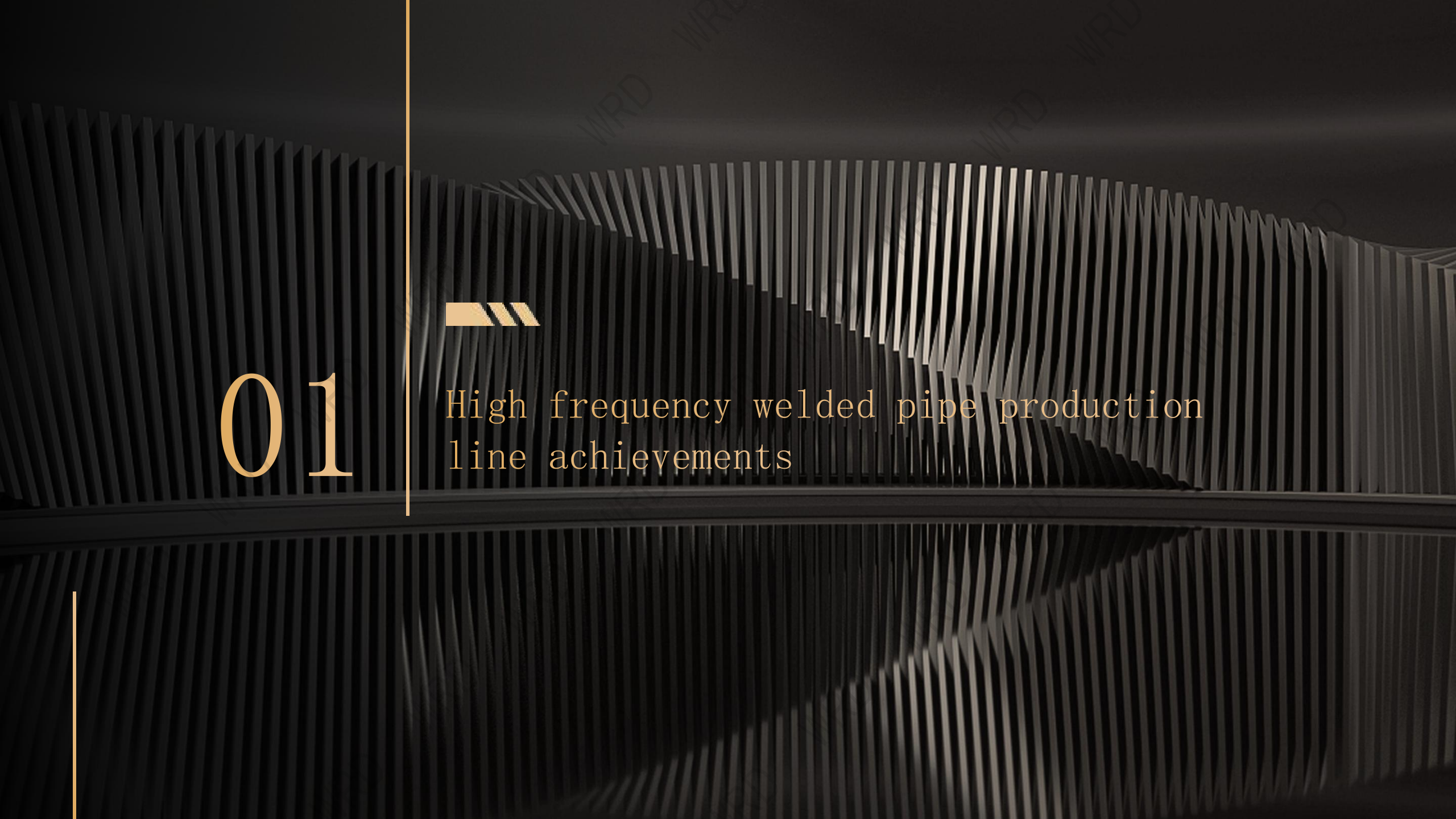
WRD

CONTENTS

Contents

CONTENTS

Contents



01

High frequency welded pipe production line achievements

API series High Frequency Welded pipe production line

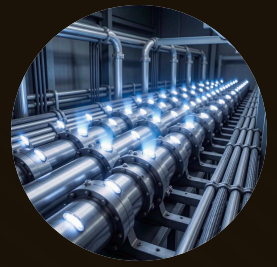
Summary of API Series High-frequency Welded Pipe Production Lines

The API series high-frequency welded pipe production line in the document covers a variety of specifications. The following is a summary of the main results.

Details of the API series high-frequency welded pipe production line

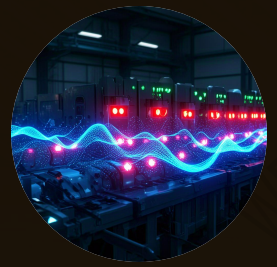
1 API 76×5.0mm high-frequency welded pipe production line in March 2005; 1 production line of API 219×8.0mm high-frequency welded pipe in July 2006; 1 production line of API 165×8.0mm high-frequency welded pipe in January 2007; In April 2007, API 50×4.5mm high-frequency welded pipe production line, API 355×14.0mm high-frequency welded pipe production line; 1 production line of API 610×20.0mm high-frequency welded pipe in August 2009.

ERW series high-frequency welded pipe production line (Part 1)



Early ERW series high-frequency welded pipe production lines (2005-2007)

In March 2005, Tianjin Lida Steel Pipe Company had two ERW 42×2.75mm high-frequency welded pipe production lines; In December 2006, one ERW 114×6mm high-frequency welded pipe production line; In October 2007, one ERW 114×8.0mm high-frequency welded pipe production line; In November 2007, one ERW 180×10.0mm high-frequency welded pipe production line.



2008 ERW series high-frequency welded pipe production line

In August 2008, one ERW 50 unit and one ERW 76 unit were retrofitted; November 2008 ERW 219×7mm high-frequency welded pipe production line 1; In December 2008, one ERW 219×7mm straightening machine.

ERW series high-frequency welded pipe production line in 2009

May 2009 ERW 114×10mm unit 1; In December 2009, one ERW 133×10mm high-frequency welded pipe production line.

ERW series high-frequency Welded pipe production line (Part 2)

01

ERW series high-frequency welded pipe production line 2013-2015

In December 2013, one ERW 60×4.5mm high-frequency welded pipe production line and one ERW 50×3.75mm high-frequency welded pipe production line; 3 March 2014 ERW 273 unit welding unit 1; October 2015, Φ21-Φ219 flat end chamfering machine; December 2015 mechanical transmission section of Φ21-Φ168 spray painting line.

02

ERW series high-frequency welded pipe production line 2016-2021

March 2016 ERW 42×3.25mm high-frequency welded pipe production line 1; March 2017, 1 ERW 76×3.75mm high-frequency welded pipe production line; 1 ERW 89×4.25mm high-frequency welded pipe production line in December 2019; In April 2021, one ERW 76×4mm high-frequency welded pipe production line.

03

Other important ERW series high-frequency welded pipe production lines

One ERW 219×8.0mm high-frequency welded pipe production line (October 2005); 1 ERW 89×11.75mm high-frequency welded pipe production line (date not specified); One ERW 219×10mm high-frequency welded pipe production line (September 2009).

Other high-frequency welded pipe production lines

Square and rectangular tube production line

In December 2007, one production line for 200×200×8mm square and rectangular tubes was set up. December 2011, 200×200×10mm high-frequency welded pipe production line; 1 production line of 300×300×14mm high-frequency welded pipe in November 2013.

Slitting production line

In February 2006, one ZJ12000mm×14.0mm slitting production line was set up. July 2007:1 ZJ850×6mm slitting line, 1 ZJ900×7mm slitting line; 1 ZJ2000mm×16mm slitting line in April 2008.

Other special types of production lines

In August 2009, one 610 steel strip edge milling machine was set up. In December 2010, 1 production line for 1/2″-4″ galvanized pipes; May 2012, 200 square rectangular pipe galvanizing line; December 2014, Φ21-Φ89 rust remover.

02

Longitudinal shearing line achievement

ZJ Series Slitting Line (Part One)

ZJ850×6mm longitudinal shear line

In July 2007, Tianjin Baolai Industry & Trade Co., Ltd. introduced one ZJ850×6mm slitting line, initiating the early application of slitting equipment.

ZJ900×7mm longitudinal shear line

During the same period (July 2007), Tianjin Baolai Industry & Trade Co., Ltd. simultaneously configured one ZJ900×7mm slitting line to enhance the processing capacity of wide sheet materials.

ZJ12000mm×14.0mm longitudinal sheared wire

In February 2006, a company purchased one ZJ12000mm×14.0mm slitting line to achieve high-precision slitting of large-sized sheets.

ZJ series slitting line (Part 2)

ZJ1800 × 6mm longitudinal cut line

In April 2008, Tianjin Baolai Industry & Trade Co., Ltd. added one ZJ1800 × 6mm slitting line, expanding the processing width to 1800mm to meet the demand for large plates.

ZJ2000mm × 16mm slitting line

In April 2008, a company introduced a ZJ2000mm × 16mm slitting line with a thickness of 16mm, marking an upgrade of slitting equipment towards heavier and wider sizes.

ZJ1600 × 12.0mm slitting line

In July 2009, one ZJ1600 × 12.0mm slitting line was exported to the Philippines, demonstrating international competitiveness in technology export, with specifications covering 1600mm width and 12mm thickness.

Other slitting lines

01

610 Steel Strip Milling Machine

In August 2009, a company purchased one 610 Steel Strip Milling Machine for the finishing of steel strips to improve the precision of raw material processing.

02

ZJ750×8mm longitudinal cut line

In October 2007, Daqiuzhuang Quantong Steel Pipe Co., Ltd. was equipped with 1 ZJ750×8mm slitting line, focusing on the slitting of medium and small-sized plates, with a quantity of 1 unit.

03

ZJ400×4mm longitudinal cut line

In January 2009, Tangshan Jianlong Industrial Co., Ltd. introduced one ZJ400×4mm slitting line to meet the processing requirements of narrow strips and enrich the product line.

03

Equipment retrofit and upgrade achievements

ERW unit retrofit

Renovation of ERW 50 unit

In August 2008, the ERW 50 Unit Retrofit was completed to upgrade the existing 50 specification high-frequency welded pipe unit, enhancing the operational stability and production efficiency of the equipment.

Renovation of ERW 76 unit

In August 2008, the ERW 76 Unit Retrofit was implemented simultaneously to optimize the welding process and control system of the 76 specification unit and enhance product quality consistency.

Production line expansion and retrofit

The ERW 50/76/89 production line has been expanded to 127mm

The ERW 50/76/89 expanded to 127 high-frequency welded pipe was completed in December 2013, covering specifications from 50-89mm to 127mm and increasing annual production capacity by approximately 30%.

The ERW 76 has been expanded to the 114mm production line

In June 2009, ERW 76 was expanded to 114×3.75mm, expanding the production capacity of 114mm specification products to meet the market demand for large-diameter welded pipes.

ERW 89 extends to 114mm forming sizing unit

In March 2010, the ERW 89 Expanded to 114 Forming and Sizing Unit was implemented to improve the forming accuracy and production efficiency of 114mm specification products.

Other equipment modifications

ERW 140 unit straightening machine retrofit

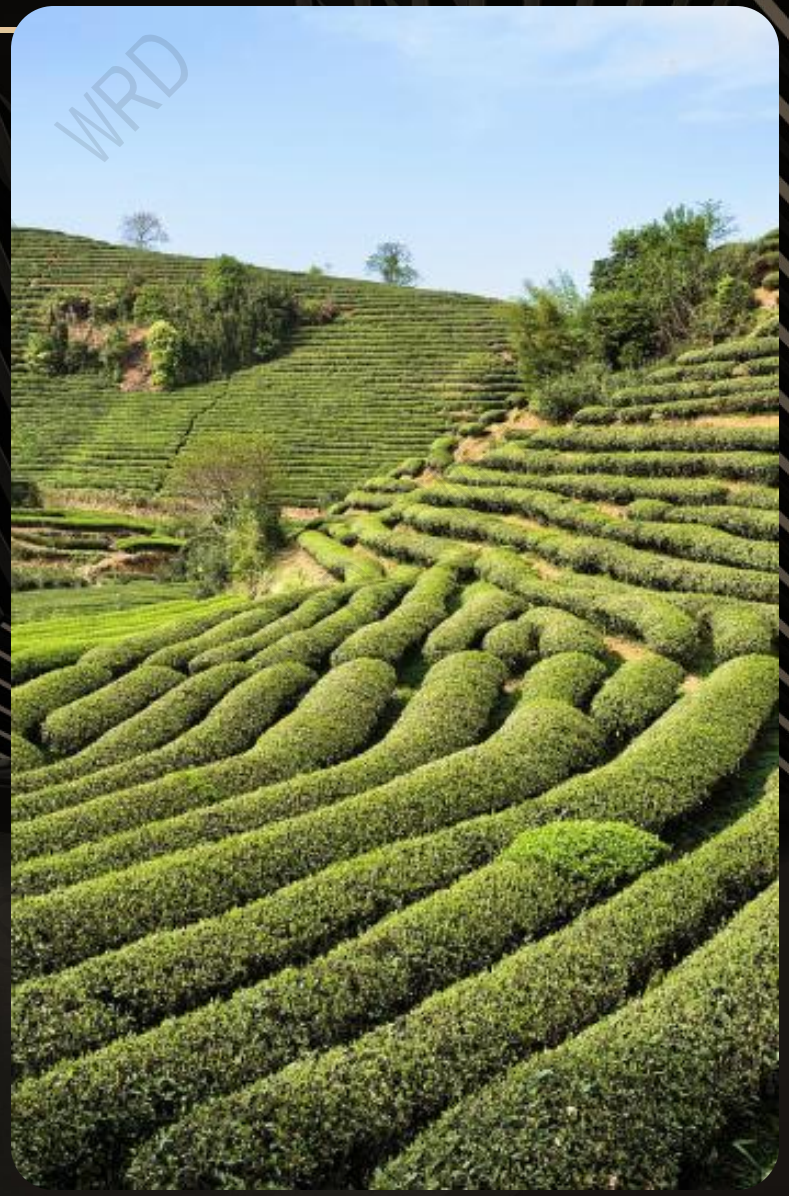
Completed the renovation of Straightening machine for ERW 140 unit in September 2016. Two Straightening machines were renovated to improve the straightness and surface quality of 140mm specification welded pipes.

ERW 219 × 7mm straightening machine configuration

In December 2008, an additional ERW 219 × 7mm Straightening Machine was added, specifically for Straightening 219mm specification welded pipes to optimize the straightening effect of large-diameter products.

ERW 50 × 3.5mm flying saw retrofit

The ERW 50 × 3.5mm Flying Saw retrofit was completed in April 2008, improving the fixed-length cutting accuracy of 50mm specification welded pipe, with the cutting error controlled within ± 1mm.



04

Achievements related to galvanizing equipment

Galvanized pipe production line

1/2″-4″ galvanized pipe production line

Specification 1/2″-4″, quantity 1, completed in December 2010, with standardized galvanized pipe production capacity.

150mm galvanized wire

Specification 150mm, quantity 1 piece, put into use in December 2014, expanded the size range of galvanized products.

250mm galvanized wire

Specification 250mm, quantity 1, completed in December 2014, further enhancing the production capacity of large-sized galvanized pipes.

Renovation of galvanizing equipment and production lines

4-6 inch hot-dip galvanized double pipe production line

Put into operation in November 2008, 1 unit, achieving simultaneous galvanizing of two tubes and improving production efficiency.

2.5-8 inch hot-dip galvanized pipe production line

Completed in November 2009, 1 unit, covering the production of multiple specifications of galvanized pipes, enhancing product adaptability.

Retrofit of the four-pipe galvanizing line

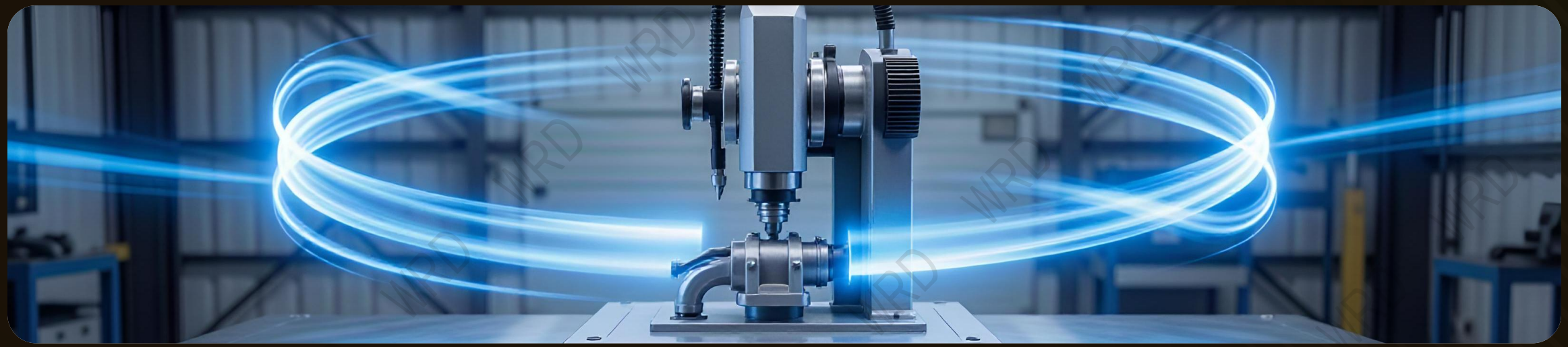
Completed in May 2017, 2 lines, enhancing the continuity and stability of galvanized lines through technological transformation.

2- 6-inch galvanizing machines

Put into use in August 2018, 1 unit, optimize galvanizing process, improve product quality.

05

Other equipment achievements



Chamfering machines and spray lines

Φ121-Φ219 flat end chamfering machine

The specification covers Φ121-Φ219mm, 1 unit, put into use in October 2015, mainly for processing the ends of high-frequency welded pipes to improve the connection accuracy of pipes.

Mechanical transmission section of Φ21-Φ168 spraying line

Specification: Φ21-Φ168mm, quantity: 1 unit, configuration completed in December 2015 to achieve automated transmission of surface spraying on welded pipes, ensuring uniform coating.

Rust remover and baling machine

Φ21-Φ89 rust remover

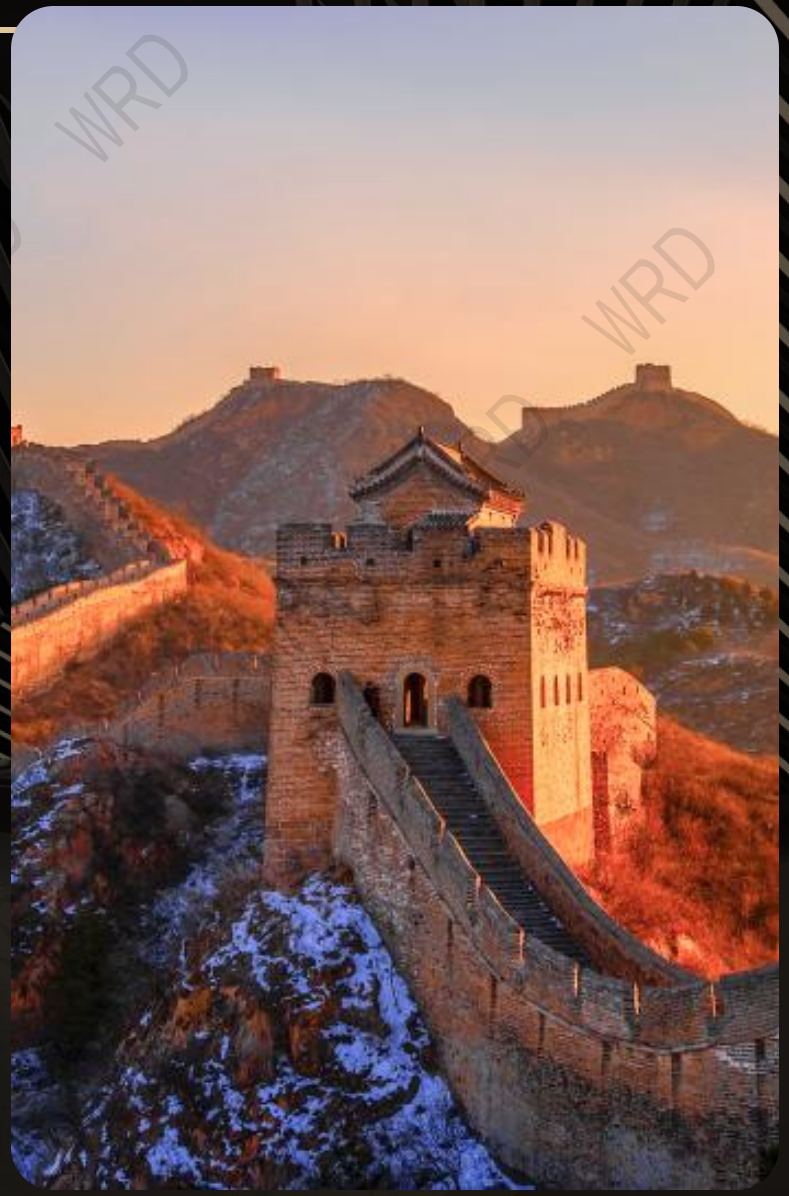
The specifications cover Φ21-Φ89mm, 1 unit, put into use in October 2015, effectively removes the oxide layer on the surface of welded pipes and improves the appearance quality of the products.

F25 × 25-F100 × 100 rust remover

For square and rectangular pipe specifications F25 × 25-F100 × 100mm, 1 unit, equipped in December 2015 to meet the rust removal requirements of special-shaped pipes.

Automatic weighing and strapping machine

10 units, put into use in April 2014, achieving integrated automatic weighing and packaging of welded pipe finished products, improving the efficiency at the end of production.



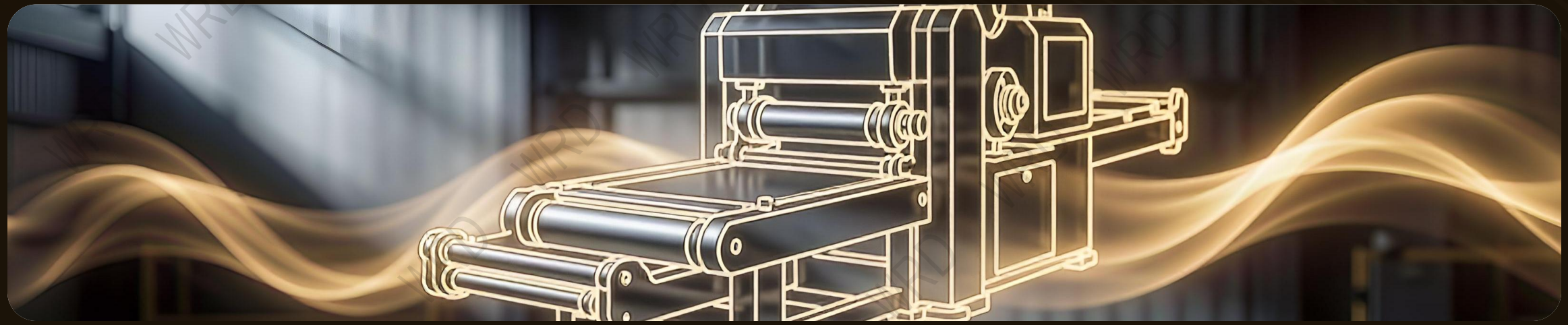
Cold rolling mill with other equipment

LZ450mm four-stand cold rolling mill

Specification LZ450mm, quantity 1 unit, put into operation in March 2006, used for cold rolling of steel strips, providing high-quality raw materials for welded pipe production.
F450 double stand cold rolling mill, 1 unit, configured in December 2007, enhances the precision and efficiency of steel strip rolling to meet the demands of high-frequency welded pipe production.

1200 Longitudinal shearing modification equipment

Quantity 1 unit, completed in December 2013, optimize the slitting process to meet the slitting requirements of steel strips of different specifications and enhance production flexibility.



06

International business achievements

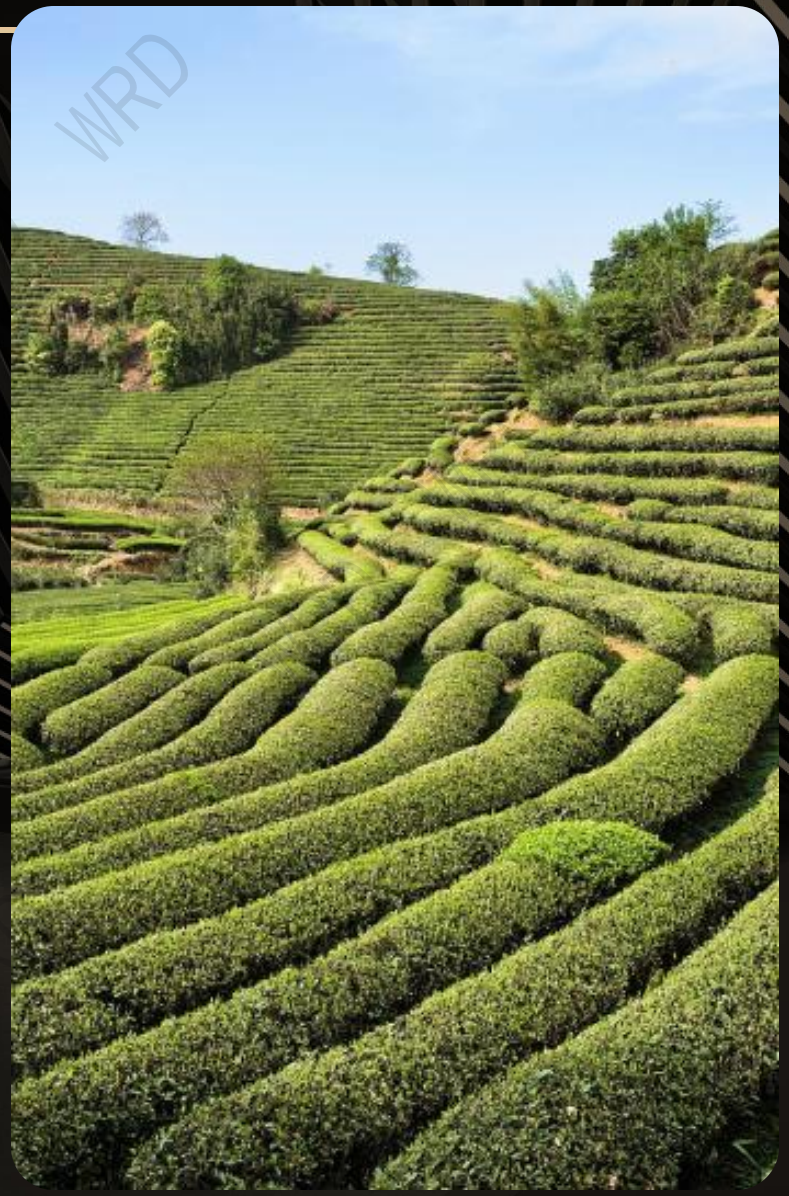
Equipment exported to the Philippines

API 406 × 14.0mm welded pipe production line

Exported in October 2010, API 406 × 14.0mm, this equipment is an important achievement of the company's expansion into the Philippine market, demonstrating its technical strength in the field of large-diameter welded pipe production equipment.

ZJ1600 × 12.0mm slitting line

The ZJ1600×12.0mm was exported to the Philippines in July 2009, providing efficient slitting processing equipment for the local area and further improving the production and processing chain for Filipino customers.



Export business to other countries

The ERW 76*3.5mm high-frequency welded pipe production line for export to Pakistan

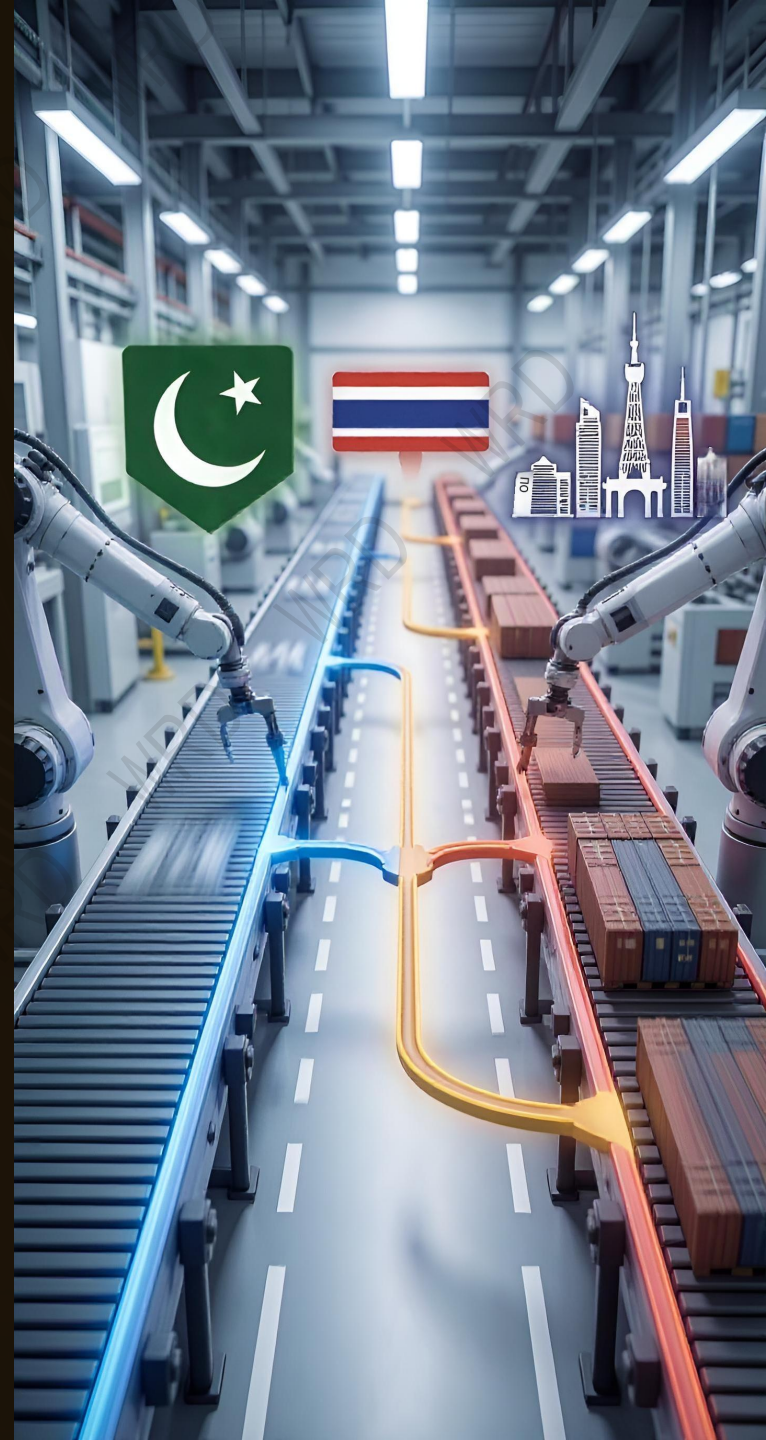
The ERW 76*3.5mm production line was exported on June 8, 2015 and March 15, 2016 respectively, contributing to the development of the welded pipe production industry in Pakistan and reflecting the company's business layout in the region.

2″ - 6″ galvanized wire for export to Thailand

The export date was April 9, 2018, with specifications ranging from 2″ to 6″. Advanced galvanizing production equipment was provided for Thailand, expanding the company's business scope in the Southeast Asian market.

API series welded pipe production lines for export to Brunei

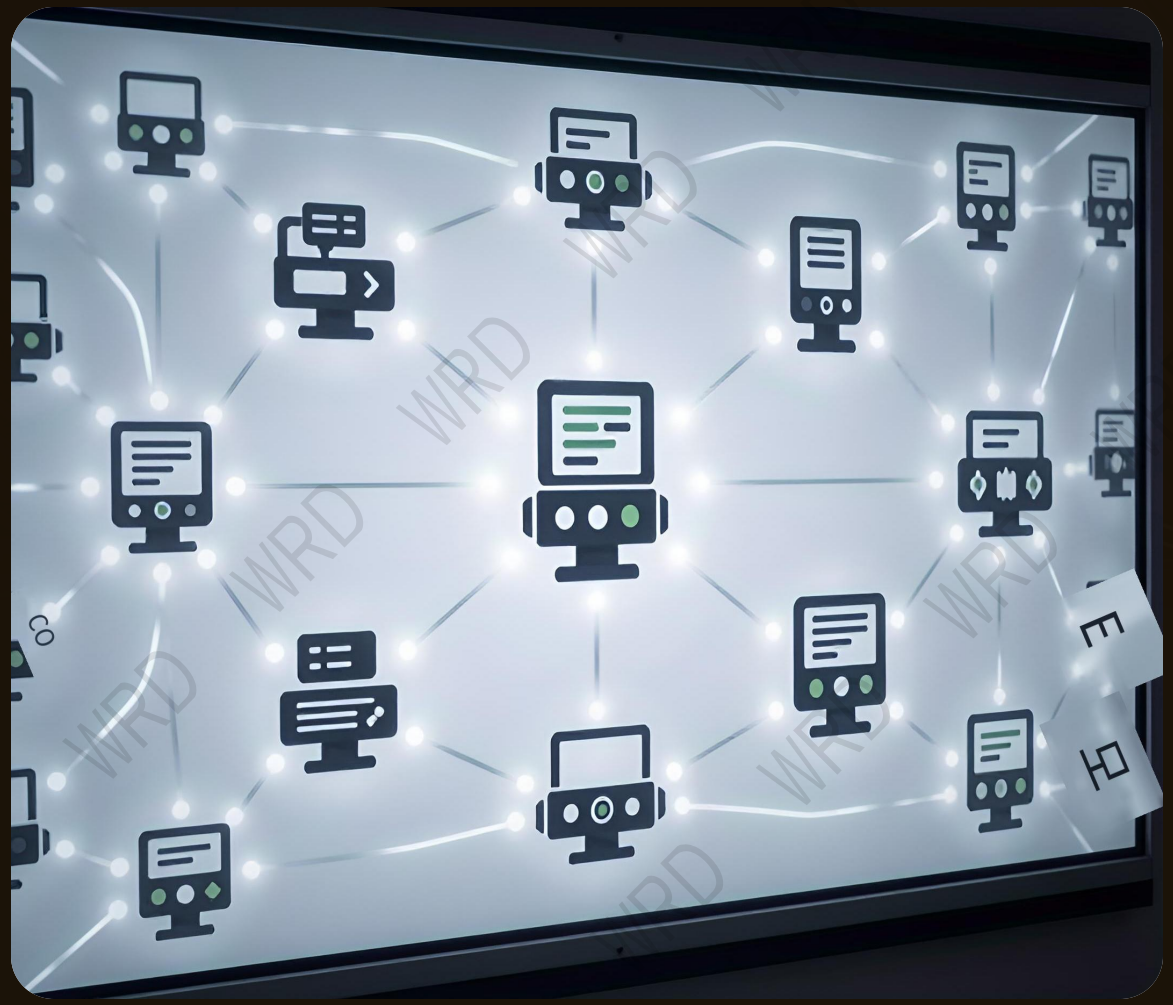
In March 2014, one API 273*12.7mm and one API 114*7.0mm high-frequency welded pipe production line were exported, and in February 2017, one ZJ1600*12.7mm longitudinal shear production line was exported, which enhanced the technical level of welded pipe production in Brunei and demonstrated the extensive layout of international business.



07

Summary and analysis of achievements

Analysis of device type distribution



High-frequency welded pipe production line: Core business accounts for more than 60%

The high-frequency welded pipe production line is the main equipment type, covering API standards and ERW series, including models such as API 219×8.0mm and ERW 114×5mm, with a cumulative number of over 100 pieces, accounting for 62% of the total equipment, and is the core business support of the company.

Slitting line: The proportion of supporting equipment is about 20%

Slitting line equipment includes ZJ series (such as ZJ1800×14mm, ZJ750×8mm) and slitting machines, totaling over 30 units, accounting for approximately 20%, mainly used for pre-treatment of steel plates and providing raw material processing support for welded pipe production.

Retrofit and auxiliary equipment: Technology upgrades account for 18%

Retrofitting equipment (such as the retrofitting of ERW 50/76/114 units), straightening machines, flying saws and other auxiliary equipment accumulated to more than 28 sets, accounting for 18%, reflecting the company's technical capabilities in equipment retrofitting and supporting services.

Trends in the time dimension

2003-2009: The period of basic capacity expansion

Focus on the construction of high-frequency welded pipe production lines, with an average of 10-15 new lines added each year, such as the API 76×5.0mm production line in 2005 and the API 610×20.0mm production line in 2009, to form a multi-specification product matrix and lay the industry foundation.

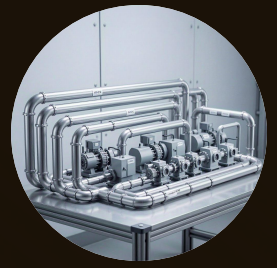
2010-2015: Period of Technological upgrading and diversification

The focus was on upgrading equipment (such as the ERW 114 unit upgrade) and supporting slitting lines. Customized production lines such as ERW 60×4.5mm were launched in 2013, and galvanizing line equipment was expanded, extending the business to the upstream and downstream of the industrial chain.

2016-2023: Transition period of Internationalization and intelligence

Equipment exported to countries such as the Philippines and Pakistan, API 406×14.0mm export production line delivered in 2017; After 2021, KUKA robotic arms and automated packaging systems were introduced to promote the intelligent upgrade of production.

Key customers and cooperative projects



Huludao Steel Pipe Industry Co., Ltd. : Multi-specification production line cooperation

Provided the company with high-frequency welded pipe production lines such as API 165×8.0mm (2007.1) and API 355×14.0mm (2007.4), and delivered a total of 5 sets of equipment to support it in becoming a large steel pipe production base in the northern region.

Tianjin Lida Steel Pipe Company: Customized unit supply

In collaboration with ERW 42×2.75mm (2005.3) and ERW 114×6mm (2006.12) production lines, the 114mm production line delivered in 2006 achieved a 30% increase in monthly production capacity and was awarded the title of Customer's Supplier of the Year.

Handan Zhengda Pipe Manufacturing Co., Ltd. : Full industrial chain equipment matching

Provided ERW 60×3.5mm production line, 14-inch hot-dip galvanizing unit (2009.6) and Φ60 - Φ114 chamfering machine (2010.12), covering the entire process of welded pipe production - galvanizing - deep processing, with a cooperation amount of over 100 million yuan.

08 Future Outlook

Directions for technological innovation

Intelligent upgrade of high-frequency welded pipe equipment

Relying on the technological accumulation of existing ERW series welded pipe production lines, in the future, the focus will be on promoting the intelligent transformation of equipment, such as introducing an AI visual inspection system to monitor welding quality in real time, developing an intelligent control system to achieve adaptive adjustment of production parameters, and improving product precision and stability.

Efficiency improvement of the slitting line

For the ZJ series of slitting equipment, it is planned to develop high-speed precision slitting technology, optimize the structure and material of the knife shaft, and increase the slitting speed by more than 20%; At the same time, a multi-specification rapid tool change system will be developed to shorten the model change time to within 30 minutes to meet the demand for small-batch and multi-variety production.

Integrated application of green energy-saving technologies

Explore energy consumption optimization in the production process of high-frequency welded pipes by using solid-state high-frequency power supplies instead of traditional equipment to reduce power consumption by 15%-20%; Develop post-weld heat recovery systems, combined with the slitting line emulsion recycling treatment technology, to achieve a water resource recycling rate of over 90%.

Breakthroughs in large-scale and customized technologies

Based on the existing API 610×20.0mm and other large-diameter welded pipe technologies, develop production lines for high-frequency welded pipes with diameters over Φ800mm; For special industry demands, develop the forming technology of welded pipes with irregular cross-sections (such as rectangular and polygonal) to expand the application fields of products.


THE END
thank you