



CIXI MIC

Steel Pipe



ZHEJIANG CIXI MIC STEEL PIPE CO.,LTD

Corporate Profile

Located in Cixi, Ningbo, Zhejiang, China, with Ningbo Port on the east and Hangzhou Bay Bridge on the north, Cixi **MiC** Steel Pipe Co., Ltd is enjoying both land and sea transportation convenience. Covering an area of 50,000 square meters, equipping 200 employees. 90% of production line staff are professional technical staff, testing personnel and operators of special work types. The registered capital is 50.88 million RMB and asset value is 150 million RMB.

MiC has 10 years of submerged arc welding for pressure steel pipe production experience, with a set of advanced JCOE production line for SAWL steel pipe, a set of special JCOE production line for ultra-thick wall SAWL steel pipe which fills the blank in manufacturing small diameter and ultra-thick wall welded steel pipe in China, a set of production line for six-meter-long rolling forming submerged arc welded steel pipe, three sets of conventional production lines for jointer welded steel pipe. The annual overall production capacity is 220,000 tons.

MiC is dedicated to the development and manufacture of high temperature alloy pipe, low temperature alloy pipe and high strength structural welded pipe. We can compile effective and eligible welding process. The factory is equipped with interlayer temperature control instrument for welding process and large heat treatment furnace. In addition, **MiC**'s self-developed trial product is proved eligible in type-examination by the Chinese authoritative testing organization. At present, Cr-Mo alloy steel pipe, high temperature alloy pipe, low temperature alloy pipe and high strength structural welded pipe produced by **MiC** have been widely used in petroleum, chemical industry, nuclear power and other plants.

MiC has advanced pipe processing equipments, complete control ability for process, heat treatment, product quality testing methods. Besides, we have got the API monogram. The products are widely used in petroleum, chemical, natural gas, power plant, city coal gas, bridge structural steel piles and large facilities, like large transportation machinery, windlass device of crane and hydraulic cylinder sleeve.

MiC insists on the corporate mission, „Dedicated to being the best in the development and manufacture of welded pressure steel pipe, making Chinese steel pipe outstanding in the world by the combination of **MiC**'s wisdom and labor” and business philosophy of integrity, professional and win-win. We constantly adhere to the value of customer first, quality first, persist in technology progress and continuous innovation, serve customers with scientific technology and establish an comprehensive company consisting of steel pipe manufacturing, logistics, import and export trade.



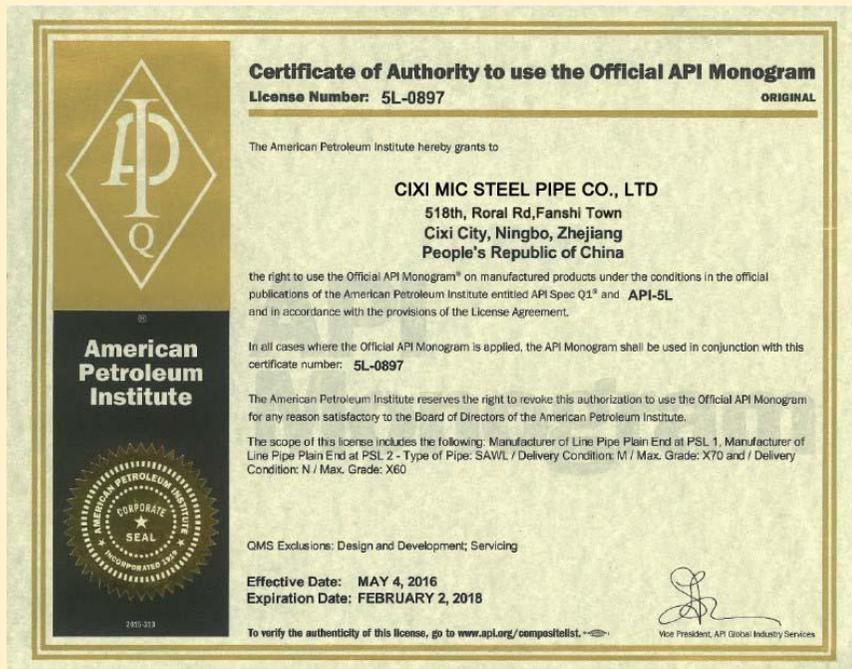
Company Commitment

Quality is the core and life of products, and the sole way for survival and development of the company is to pursue product quality. We promise that our products can meet the requirements of assigned standards or specifications. It has mandated a set of documents on quality system for welded steel pipe at medium and high temperature, pipe at medium and high pressure and pipe at low temperature, and the matching materials, compliant with ISO9001:2008, other domestic and foreign standards. We have established a scientific control method and work flow system from the raw material procurement and testing, determination and valuation of welding procedure, product process control, heat treatment control and testing, final inspection and after-sale service. In the meantime, workers do their jobs strictly according to the manufacture standards and product control procedures, while the QA will do product inspection strictly in accordance with the required standards. All the pressure pipes are tested by Ningbo Special Equipment Inspection Center which is authorized to issue final quality report. We will devote to providing our customers with the high quality products.



Qualifications

Mic has got National Special Equipment A1 Grade License, and Passed Pressure Vessel Pipe Components L450MB, L485 Tests. Also. We have got American Petroleum Institute Monogram Using Rights, EU TUV Certificates, ASTM A671, A672 and A691 Special Equipment Type-examination Certificates. Also we have got Sira ISP9001:2008 Quality Management System Certificate, ISO 14001:2004 Environmental Management System Certificate and OHSAS 18001:2007 Occupational Health and Safety Management System Certificate. Moreover. We have got National Radiation Safety License and Safety production License.



API. 5L LSAW



TUV Certificates

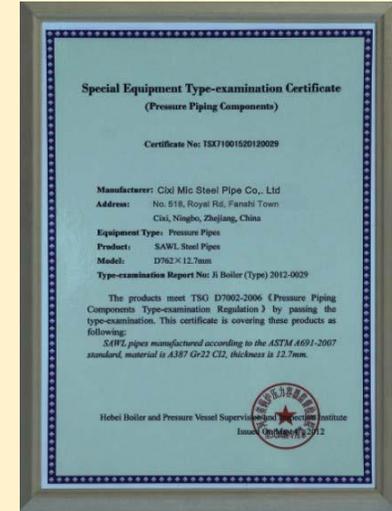
Qualifications



ASTM A671



ASTM A672



ASTM A691Z



ISO 9001:2008



ISO14001:2004



OHSAS 18001:2007

LSAW Steel Pipe Production Workshop



MC Steel Pipe Manufacturing Equipment

★ LSAW (JCOE) Production Machines



Steel plate automatic splicing for large diameter double longitudinal seams welded pipe. Positive welding - hydraulic rolling - gouging and grinding - reverse welding equipment.



CNC plate edge milling machine for both ends (German Technology). The process speed is 6-10min/12m, and the max. process size is 50 mm thickness



CNC Forming Machine (German Technology), using automatic Step Control method, so that the plate gradually formed from the shape of "J" to "C" and finally to "O" and pulled out by the lead-out device automatically. The process speed is 7-10min/12m, and the process size is 6-50 mm



Bilateral rolling post bending machine (German Technology), crimping the straight part of the open seam pipe to attain the required radius.

MC Steel Pipe Manufacturing Equipment

★ LSAW (JCOE) Production Machines



Commissure Pre-welding Machine



The United States Lincoln three-wire inside welding machine with laser automatic tracking system (MZ-TL7\N-Z-WS-80) for welding imported from Germany MEL.



Inside slag cleaning machine, using automatic inhalation device to automatic recover, select and re-use, so as to achieve the purpose of the cleaning inside slag.



CNC U type mechanical milling groove machine unit (German technology)fills the blank in equipment of pipe production process in China.



The United States Lincoln four- wire outside welding machine with laser automatic tracking system(MZ - TUN - Z - WS - 80) for welding imported from Germany MEL.

MIC Steel Pipe Manufacturing Equipment

★ LSAW (JCOE) Production Machines



3500 T of Steel Pipe Roundness Finishing Machine & Straightening Machine



Expanding Machine



2500T Hydrostatic Testing Machine



Beveling Machine for Pipe End

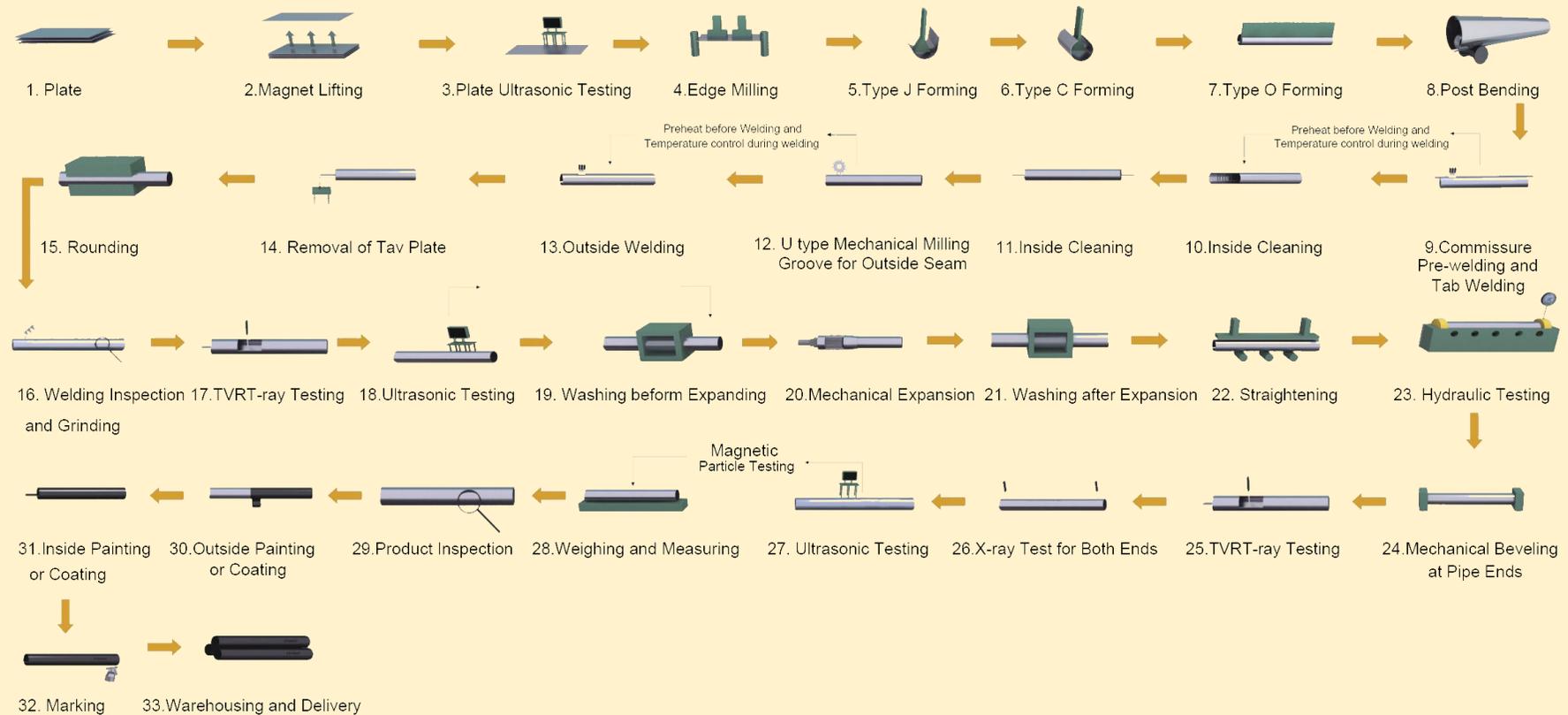


Gas Heat Treatment Furnace

MiC Steel Pipe Manufacturing Equipment

LSAW (JCOE) Production Process

MiC has 1 set of international advanced SAWL pipe production line. It is for 0400-01626mm OD and 6~50mm WT, with an annual production capacity of 150,000 tons. The products is used for the conveyance of oil, petrochemical industry, natural gas, power, town gas, water, as well as project fields, such as construction, bridge, wharf engineering and so on.



MIC Steel Pipe Manufacturing Equipment

★ Ultra-thick Wall LSAW (JCOE) Production Machines



1. JCOE Cold Forming Machine



2. Commissure Pre-welding Machine



3. Four-wire Welding Machine



4. U Type Mechanical Milling Groove Machine



5. Five Wire Welding Machine



6. Roundness Finishing Machine



7. Hot State Roundness and Diameter Sizing



8. Large Heat Treatment Furnace



9. X-ray Testing



10. UT or MT



11. Electric Saw Segmented Cutting

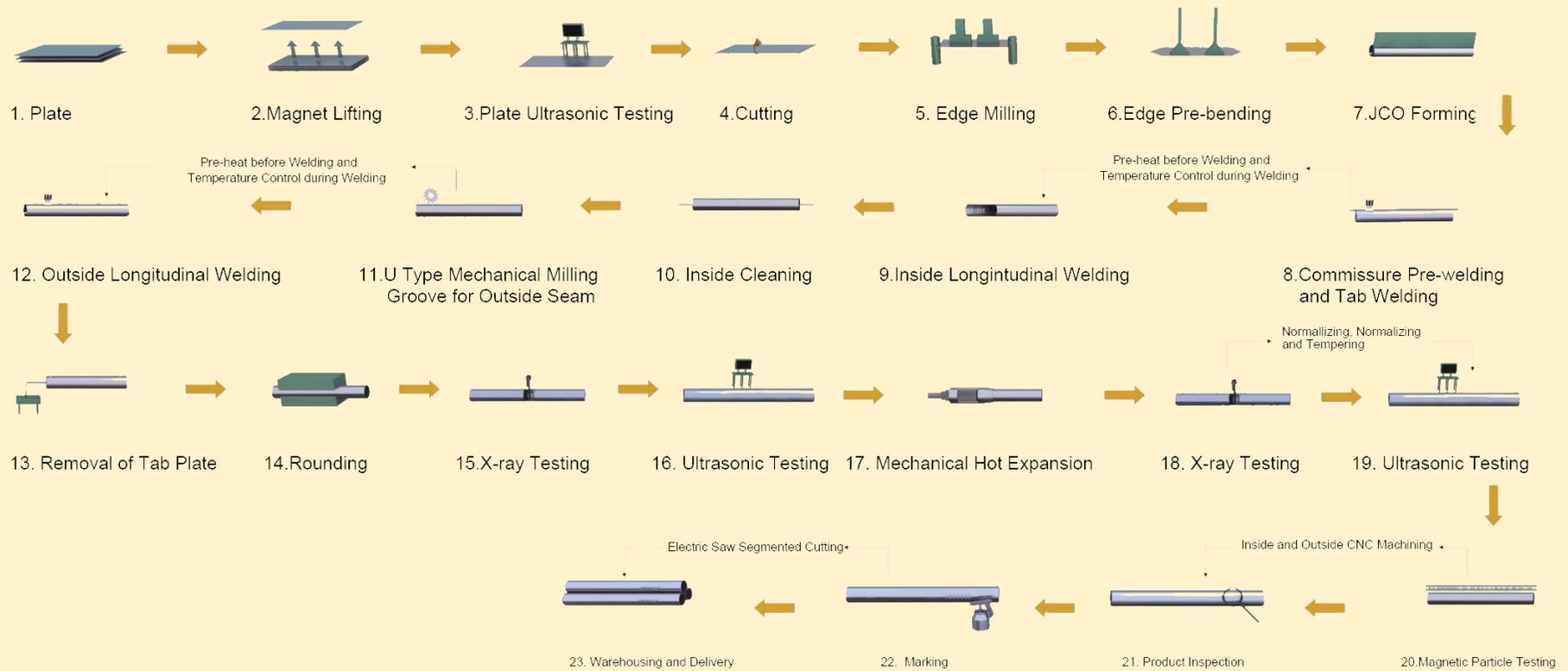


12. Inside and Outside CNC Machine

MiC Steel Pipe Manufacturing Equipment

★ Ultra-thick Wall LSAW (JCOE) Production Process

MiC has 1 set of special designed JCOE ultra-thick wall cold forming machine with large pressing pressure for single seam or double seams longitudinal welded pipe. The process size is 6250mm length, 0400~02000mm OD, 40~100mm WT They can produce small diameter ultra-thick wall cold forming and medium-large diameter ultra-thick wall longitudinal welded pipe that can not be produced by normal JCOE forming machine, UOE forming machine, roll forming machine. The products are widely used for petrochemical industry, power industry and industrial equipment devices such as large transportation machinery, hydraulic cylinder sleeve, motor casing, windlass device of crane, etc. And it overcomes material waste caused by traditional steel castings and forged parts, so that it can satisfy the requirements of client who wants cost saving and variable designs of products.



MIC Steel Pipe Manufacturing Equipment

★ Ultra-long Roll Forming LSAW Steel Pipe Production Machines



Edge Pre-bending Machine



Small Forming Machine for Pipe 6-meter-long



Medium Forming Machine for Pipe 6-meter-long



Large Forming Machine for Pipe 6-meter-long



Inside Welding Machine with Laser Tracking

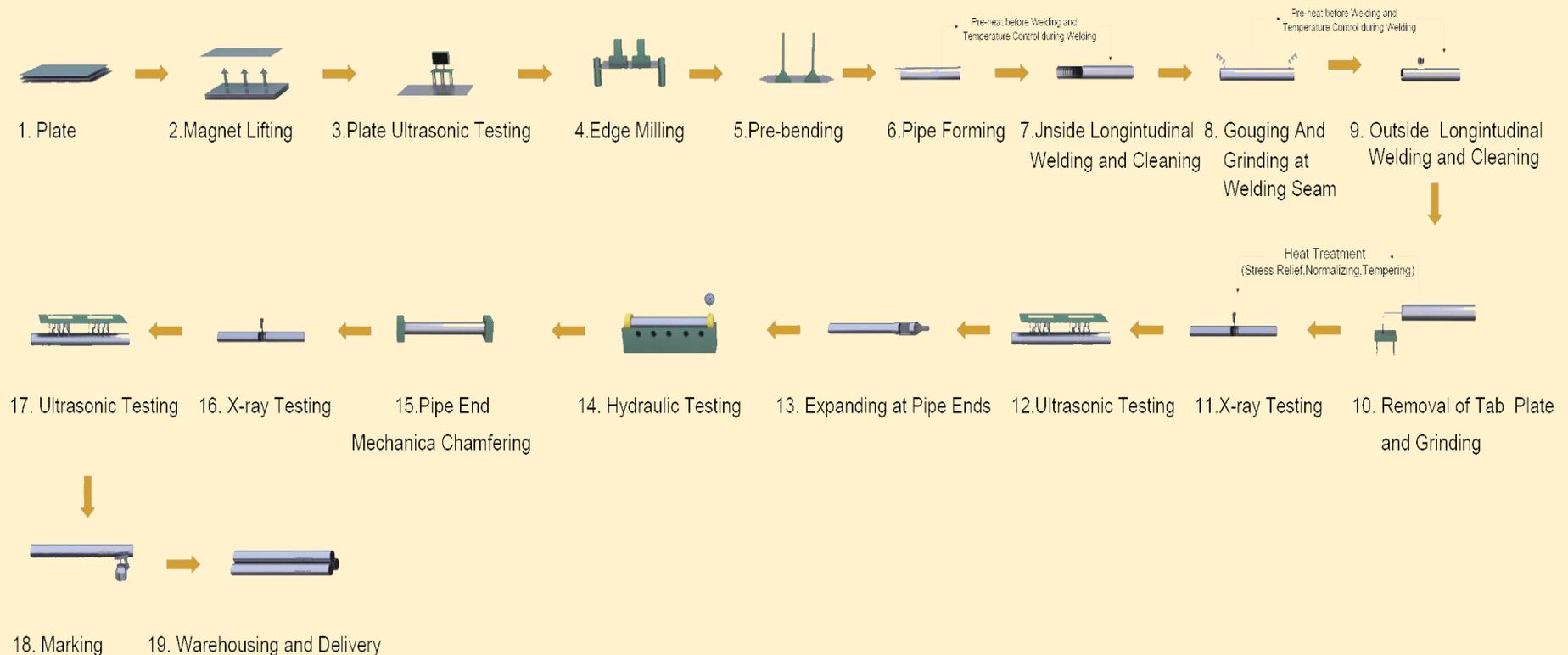


Outside Welding Machine with Laser Tracking

MiC Steel Pipe Manufacturing Equipment

★ Ultra-long Roll Forming Steel Pipe Production Process

MiC has 3 sets (large, medium and small) of machine units for six-meter-long single seam or double seams longitudinal welded pipe. The process size is 450~3251 mm OD (do plate splicing according to the plate size in China market), 6~25.4mm WT. It can produce large diameter double longitudinal seams welded pipes which can not be made by normal JCOE forming machine and UOE Forming Machine. It satisfies clients' requirement of requiring for more than 3 meters joint-er welded pipes.



MC Steel Pipe Manufacturing Equipment

★ Conventional Roll Forming Steel Pipe Production Machines



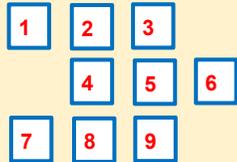
1. Small Forming Machine (3~30mm)

2. Medium Forming Machine (40~50mm)

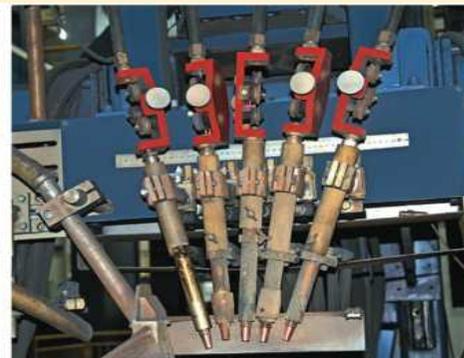
3. Large Forming Machine (10~100mm)

4. Small Pre-bending Machine (1000T)

5. Medium Pre-bending Machine (2500T)



6. Large Pre-bending Machine (2500T)



7. Thin wall small mono-filament welding machine with one wire

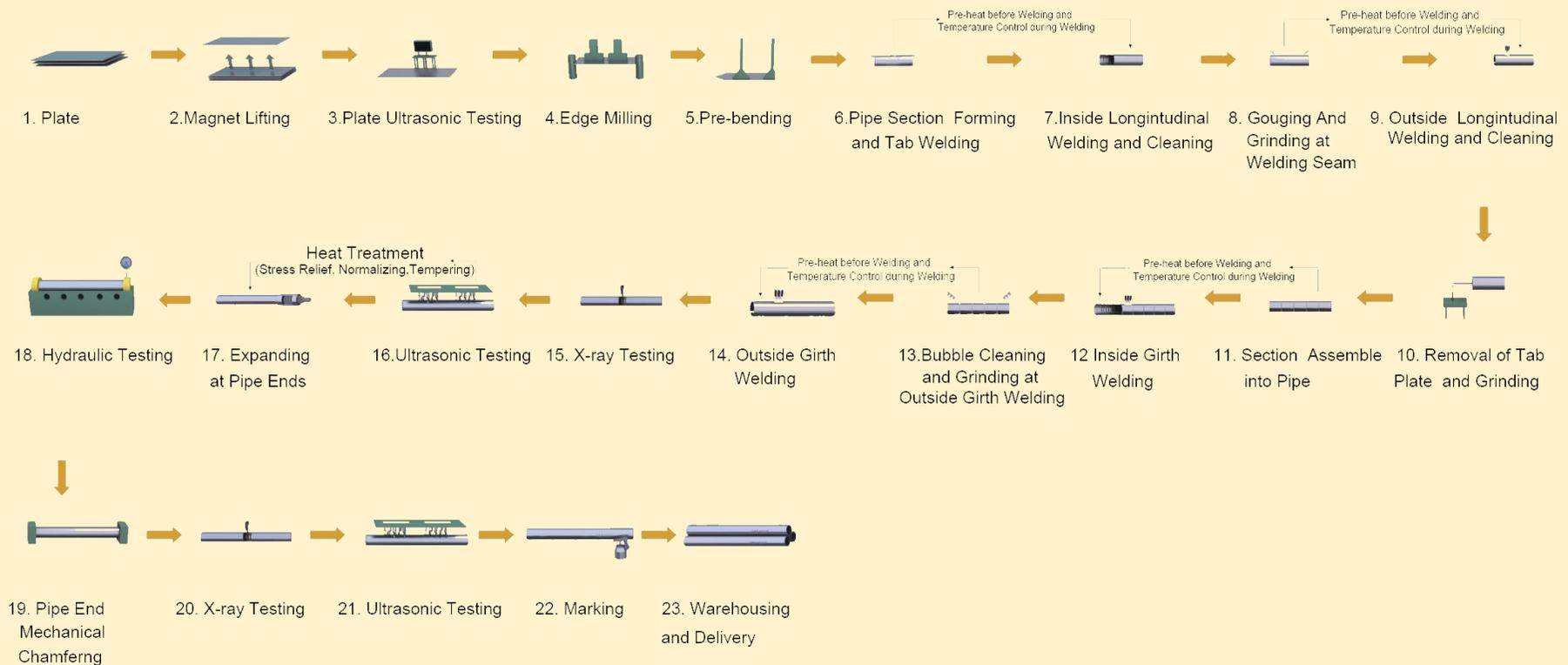
8. Medium wall thickness welding machine with two wires for inside welding and three wires for outside welding.

9. Ultra-thick wall thickness welding machine with four wires for inside welding and five wires for outside welding.

MiC Steel Pipe Manufacturing Equipment

★ Coventional Roll Forming Steel Pipe Production Process

MiC has 10 sets of micro type, medium type, large type roll forming machine units. The process size is 1_5m, 2m, 2_5m, 3m (length), 0400mm~4500mm (○D) and 3mm~100mm (WT). With 20 years history in roll forming procedure, we are the unique, complete and innovative company for cold roll forming procedure in China. The roll forming machines are self-designed, adjusted and combined with JCOE ultra-thick wall forming machine, becoming a pioneer of small diameter, ultra- thick wall, cold forming pipes in China. The machines can reduce unnecessary allowance for machining caused by casting and forging, which greatly reduces cost for designing and producing products in industrial equipment manufacture, shipping industry, hydro-cylinder industry, conveying machinery industry and guide device of crane etc.



MIC Steel Pipe Physical and Chemical Testing Equipment



1. Optical Emission Spectrometer



2. Hardness Tester



3. Pendulum Impact Testing Machine



4. Drop Weight Tear Testing Machine



5. Metallographic Microscope



6. Low Temperature Tank



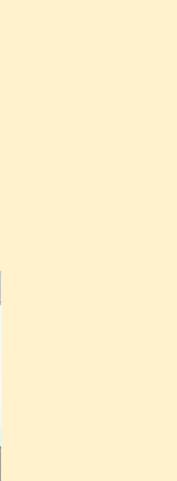
7. Gap Broaching Machine



8. Universal Testing Machine



9. TVRT Automatic Testing Device for Pipe Weld Seam



10. Offline Ultrasonic Automatic Testing Device for Pipe Weld Seam

MIC Manufacture Standards and Material Scope

Line Pipe						
Standards for pipe	API 5L			GB/T9711-2011		
Pipe grade	PSL1	PSL2		PSL1	PSL2	
Steel grade	B	BN	BM	L245	L245N	L245M
	X42	X42N	X42M	L290	L290N	L290M
	X46	X46N	X46M	L320	L320N	L320M
	X52	X52N	X52M	L360	L360N	L360M
	X56	X56N	X56M	L390	L390N	L390M
	X60	X60N	X60M	L415	L415N	L415M
	X65	X65N	X65M	L450	L450N	L450M
	X70	X70N	X70M	L485	L485N	L485M

Submerged Arc Welded Steel Pipe at High Temperature and High Pressure			
ASTM Standards			Chinese Standards
A691			GB/T9711
Pipe grade	Standards of plate	Type of manufacture	Steel grade
CM-65	A204/A204M GrA	10, 11, 12, 20, 21, 22, 23, 30, 31, 32, 33, 40, 41, 42, 43,	10
CM-70	A204/A204M GrB		20G
CM-75	A204/A204M GrC		16Mn
1/2Cr	A387/A387M Gr2		15MnV
1Cr	A387/A387M Gr12		10MnWVNb
1 1/4Cr	A387/A387M Gr11		12CrMo
2 1/4Cr	A387/A387M Gr22		15CrMo
3Cr	A387/A387M Gr21		1Cr5Mo
5Cr	A387/A387M Gr5		12Cr2Mo
9Cr	A387/A387M Gr9		

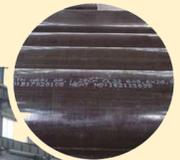
Steel Pipe for Piles											
Standards of plate	EN10025-04					EN10225-2009			GB/T700	GB/T1591	GB/T16270
Steel grade	S235JR	S275N	S275M	S235J0W	S460Q	S355G2+N	S355G5+M	S420G1+QT	Q195	Q295A	Q420C
	S235J0	S275NL	S275ML	S235J2W	S460QL	S355G3+N	S355G6+M	S420G2+QT	Q215A	Q295B	Q420D
	S235J2	S355N	S355M	S355J0WP	S460QL1	S355G7+N	S355G7+M	S460G1+QT	Q215B	Q345A	Q420E
	S275JR	S355NL	S355ML	S355J2WP	S500Q	S355G8+N	S355G8+M	S460G2+QT	Q235A	Q345B	Q460C
	S275J0	S420N	S420M	S355J0W	S500QL	S355G9+N	S355G9+M		Q235B	Q345C	Q460D
	S275J2	S420NL	S420ML	S355J2W	S500QL1	S355G10+N	S355G10+M		Q235C	Q345D	Q460E
	S355JR	S460N	S460M	S355K2W	S550Q		S420G1+M		Q235D	Q345E	Q500D
	S355J0	S460NL	S460ML		S550QL		S420G2+M		Q235A	Q390A	Q500E
	S355J2				S550QL1		S460G1+M		Q255B	Q390B	Q550D
	S355K2				S620Q		S460G2+M		Q275	Q390C	Q550E
					S620QL					Q390D	Q620D
					S620QL1					Q390E	Q620E
					S690Q					Q420A	Q690D
					S690QL					Q420B	Q690E
				S690QL1							

Submerged Arc Welded Steel Pipe at Medium Temperature and Low Temperature						
ASTM Standards				Chinese Standards		
A671		A672		A671/A672	GB/T9711	
Pipe grade	Standards of plate	Pipe grade	Standards of plate	Type of manufacture	Steel grade	Steel grade
		A45	A285/A285M GrA	10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33, 40, 41, 42, 43,	Q245R	16MnDR
		A50	A285/A285M GrB		Q345R	15MnNiDR
CA55	A285/A285M GrC	A55	A285/A285M GrC		15MnVNR	09Mn2VDR
		B55	A515/A515M Gr55		15MnVNR	09MnNiDR
CB60	A515/A515M Gr60	B60	A515/A515M Gr60		18MnMoNbR	
CB65	A515/A515M Gr65	B65	A515/A515M Gr65		13MnNiMoNbR	
CB70	A515/A515M Gr70	B70	A515/A515M Gr70		15CrMoR	
		C55	A516/A516M Gr55			
CC60	A516/A516M Gr60	C60	A516/A516M Gr60			
CC65	A516/A516M Gr65	C65	A516/A516M Gr65			
CC70	A516/A516M Gr70	C70	A516/A516M Gr70			

MIC Manufacture Standards and Key Quality Indicators

Index	OD Tolerance of Pipe Body(mm)	OD Tolerance of Pipe End(mm)	Wall Thickness Tolerance (mm)	Straightness	Ellipticity	Unfitness of Butt Joint (mm)	Weld Reinforcement (mm)
GB/T9711-2011	When $D \leq 610$: $\pm 0.75\%D$, but $\leq \pm 3.2$; when $610 < D \leq 1422$: $\pm 0.5\%D$, but $\leq \pm 4.0$ when $D > 1422$ specified on the order.	When $D \leq 610$: $\pm 0.5\%D$ but $\leq \pm 1.6$ when $610 < D \leq 1422$, ± 1.6 when $D > 1422$, specified on the order	When $5.0 < t < 15.0$, $\pm 0.1t$; when $t \geq 15.0$, ± 1.5	Straightness $\leq 0.2\%L$. Im at pipe end $\leq 4\text{mm/m}$	When $D \leq 610$: pipe body: $0.02D$ pipe end: $0.015D$; when $610 < D \leq 1422$ and $D/t \leq 75$: pipe body: $0.015D$ but ≤ 15 ; pipe end $0.01D$, but ≤ 13 ; when $610 < D \leq 1422$ and $D/t > 75$ or > 1422 : specified on the order	When $t \leq 15$, ≤ 1.5 When $15 < t \leq 25$; $\leq 0.1t$; When $t > 25$, ≤ 2.5	When $t \leq 13$: inside ≤ 3.5 outside ≤ 3.5 ; when $t > 13$: inside ≤ 3.5 , outside ≤ 4.5 ; within 100 distance from pipe end: inside $0 \sim 0.5\text{mm}$
API Spec5L (45th)	When $D \leq 610$: $\pm 0.75\%D$, but $\leq \pm 3.2$; when $610 < D \leq 1422$: $\pm 0.5\%D$, but $\leq \pm 4.0$ when $D > 1422$: specified on the order	When $D < 610$: $\pm 0.5\%D$, but $\leq \pm 1.6$; when $610 < D \leq 1422$: ± 1.6 when $D > 1422$: specified on the order	When $5.0 < t < 15.0$: $\pm 0.1t$ when $t \geq 15.0$: ± 1.5	Straightness $\leq 0.2\%L$. Im at pipe end $\leq 4\text{mm/m}$	When $D \leq 610$: pipe body: $0.02D$ pipe end: $0.015D$; when $610 < D \leq 422$ and $D/t \leq 75$: pipe body: $0.015D$ but ≤ 15 ; pipe end: $0.01D$, but ≤ 13 ; when $610 < D \leq 1422$ and $D/t > 75$ or > 1422 : specified on the order	When $t \leq 15$: ≤ 1.5 when $15 < t \leq 25$: $\leq 0.1t$; when $t > 25.0$: ≤ 2.5	When $t \leq 13$: inside ≤ 3.5 outside ≤ 3.5 ; when $t > 13$: inside ≤ 3.5 , outside ≤ 4.5 ; within 100 distance from pipe end: inside $0 \sim 0.5\text{mm}$
DNV-OS-F101	When $D \leq 610$: $\pm 0.75\%D$ or ± 0.5 (whichever is bigger), but max ± 3 ; when $D > 610$, $\pm 0.5\%D$, but max ± 4	When $D \leq 610$, $\pm 0.75\%D$ or ± 0.5 (whichever is bigger), but max ± 1.6 ; when $D > 610$, ± 1.6 The max diameter of pipe shall not differ by more than $12.5\%t$ from that of the other end	When $t \leq 15$, ± 0.75 when $15 < t < 20$, ± 1.0 when $t \geq 20$, $-1.0/+1.5$	$\leq 0.15\%L$	When $D/t \leq 75$ pipe end: $1.0\%D$, max 7.5 ; pipe body: $1.5\%D$, max 15 ; when $D/t > 75$: pipe end: $1.5\%D$, max 7.5 ; pipe body: $2.0\%D$, max 15 . Local $< 0.5\%D$, max 2.5	$0.1t$, max 2.0	≤ 3.0
ASTM A671	$\pm 0.5\%D$	$\pm 0.5\%D$	$D-0.25$	$\leq 3.2\text{mm}/3\text{m}$	$\leq 1\%D$		≤ 3.2
ASTM A672	$\pm 0.5\%D$	$\pm 0.5\%D$	$D-0.30$	$\leq 3.2\text{mm}/3\text{m}$	$\leq 1\%D$		≤ 3.2
ASTM A691	$\pm 0.5\%D$	$\pm 0.5\%D$	$D-0.30$	$\leq 3.2\text{mm}/3\text{m}$	$\leq 1\%D$		$\leq 3.2\text{mm}(1/8\text{in})$

MIC Steel Pipe Painting, Marking, Packaging and Storing



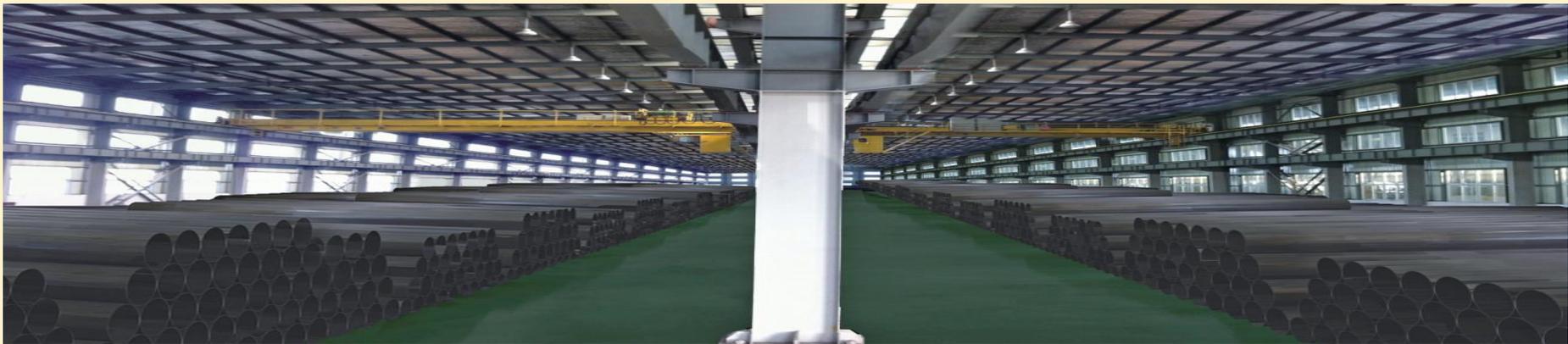
Painting, Color Coding and Marking in Indoor Warehouse



Plastic Cap Sealing Package



Painting, Marking and Packaging



9000m² Indoor Beam-based Warehouse, which can store 6000 tons steel plates and 5000 tons Steel Pipes. It effectively guaranteed the Original Surface Quality of the materials and products



Beveling End Metal Protective Ring+Support+Woven Cloth Sealing



Beveling End Metal Protective Ring+Woven Cloth Winding around the Full Length Pipe+Woven Cloth Sealing Package

MIC Steel Pipe Marketing Orientation



Qinshan Nuclear Power Plant



Zhenhai Refining & Chemical



Shanmen Nuclear Power Plant



Fujian Tenglong Aromatic Hydrocarbon



Ningbo Heyuan Chemical Industry



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