



JW STEEL

manufacturing high-quality
Stainless Steel Tubing for over 20
years.

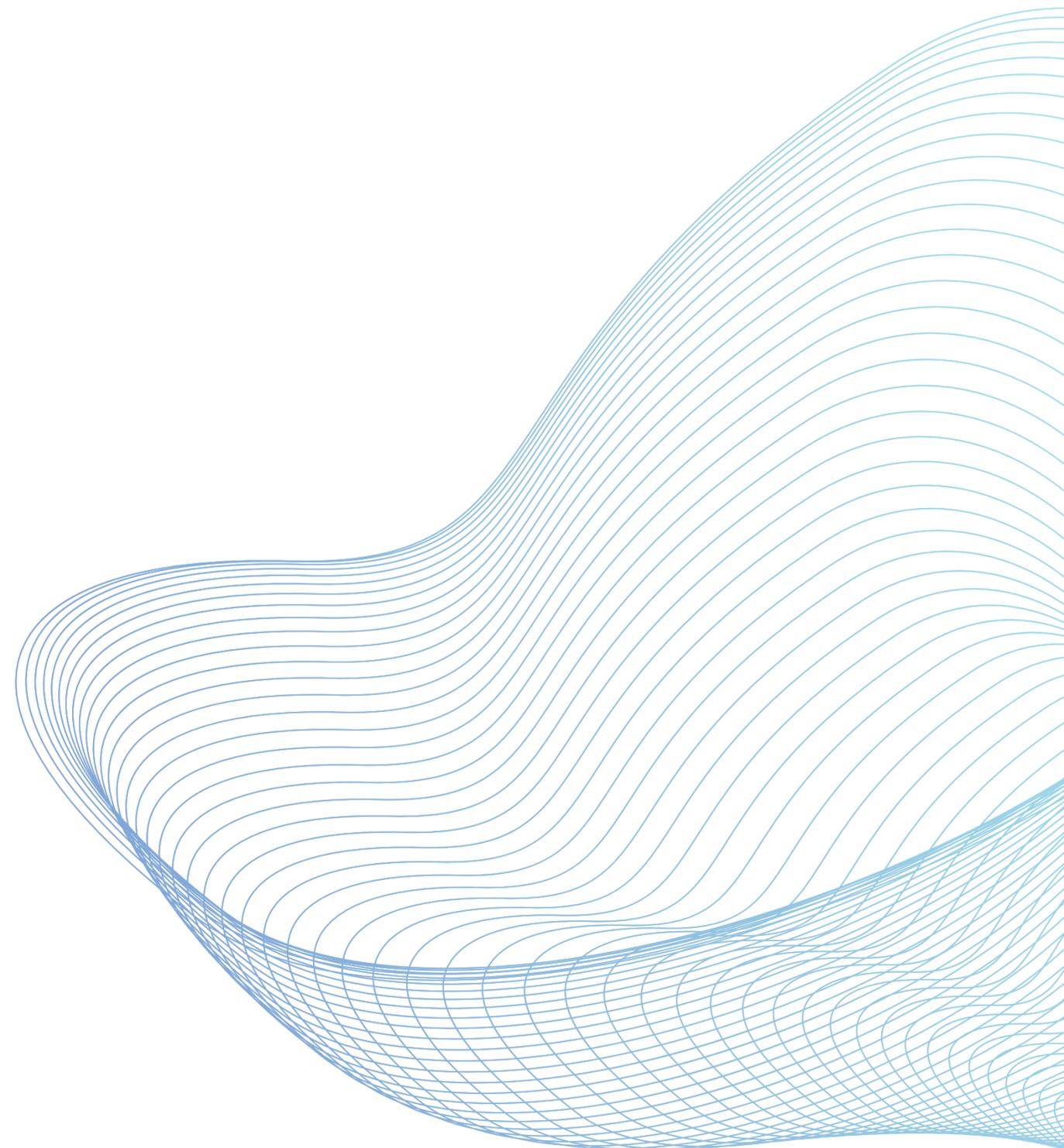


TABLE OF CONTENT

- About
- Factory
- Products
- Team



ABOUT

JW STEEL is a subsidiary of JW GROUP, established in 2002, and specializes in manufacturing high-quality Stainless Steel Tubing, Pipe, and Hydraulic Cylinder accessories like: Chrome Bars for Piston Rods, and Honed Tubes.



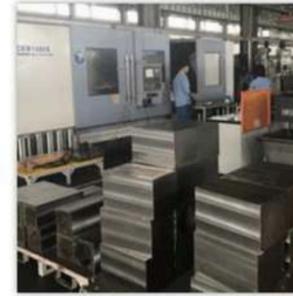
FACTORY

The factory has 110 employees with a standard factory building covering 20,000 square meters, Different machines are imported from Italy, Germany, the USA, Japan, Korea, etc.



MACHINES

Over 100 different machines, including DOSHAAN, NEWAY machine centers, CNC lathes, and TACCHI skiving roller burnishing machines.



turning machine center



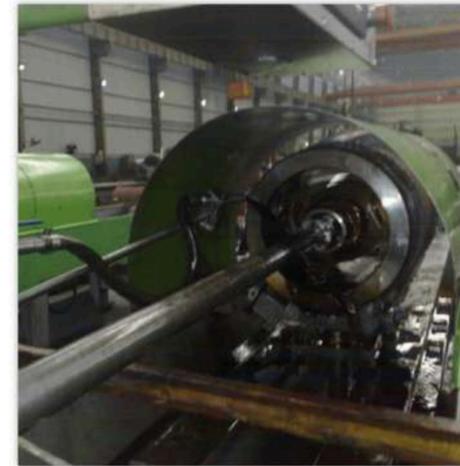
horizontal machine center



vertical machine center



welding robot



honoring machine



skiving machine



skiving machine



facility at glance



CNC machine center



auto painting line

“MONSTER” IN THE ROOM

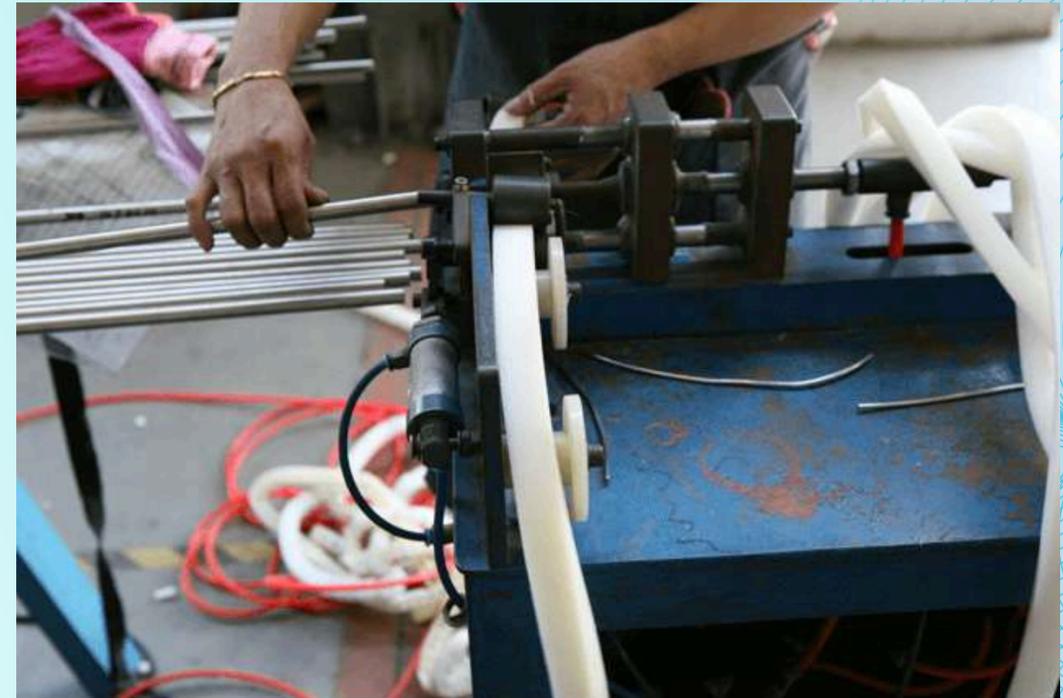
This monster-level annealing furnace is imported from Germany, and no other competitor factory in China possesses such advanced equipment.

It is specifically designed for the bright annealing process of our stainless steel seamless coiled tubing.



HOW TO MAKE THE INSIDE OF THE TUBINGS CLEAN?

1. Insert a sponge into the tubing from one end.
2. Use the pressure of water current to move the sponge inside the tubing, effectively removing dust, residual acid, and fragments from the internal surface.
3. Repeat this cleaning process several times.
4. After cleaning, blow out the water from the tube using compressed air.
5. Place the tubing into a drying oven to ensure complete drying.
6. This method ensures thorough cleaning and prepares the tubing for further processing or use.



STAINLESS STEEL SEAMLESS BRIGHT ANNEALING TUBING

- **Production:** Cold drawing
- **Surface Treatment:** Bright annealing(BA)
- **Shape:** Straight/Coiled
- **Hardness:** Soft state (HRB≤90)
- **Material:** 304 / 304L / 316 / 316L
- **Standard:** ASTM (ASME) SA A213 /A269 and DIN, GB, JIS.
- **Size:** OD 6 to 25.4 mm, WT: 0.71 to 2.11 mm
- **Tolerance:** D4/T4, OD/WT ±0.1mm



CHEMICAL COMPOSITION and CHEMICAL COMPOSITION

	C	Mn	Mn	S	Si	Ni	Cr	Mo
Min.	-	-	-	-	-	10.00	16.00	2.00
Max.	0.035	2.00	0.040	0.030	1.00	14.00	18.00	3.00

CHEMICAL COMPOSITION(wt. %) for 316/316L

	C	Mn	Mn	S	Si	Ni	Cr	Mo
Min.	-	-	-	-	-	8.00	18.00	-
Max.	0.035	2.00	0.045	0.030	1.00	12.00	20.00	-

CHEMICAL COMPOSITION(wt. %) for 304/304L

Y.S.psi/(MPa)	T.S.psi/(MPa)	EL.	HRB	Flattening	Flaring	Grain Size	Hydrostatic	I.C.	E.T.	U.T.
0.2%Min.205	Min. 515	Min.35%	Max. 90	Test	Test	Test	Test	Test	Test	Test

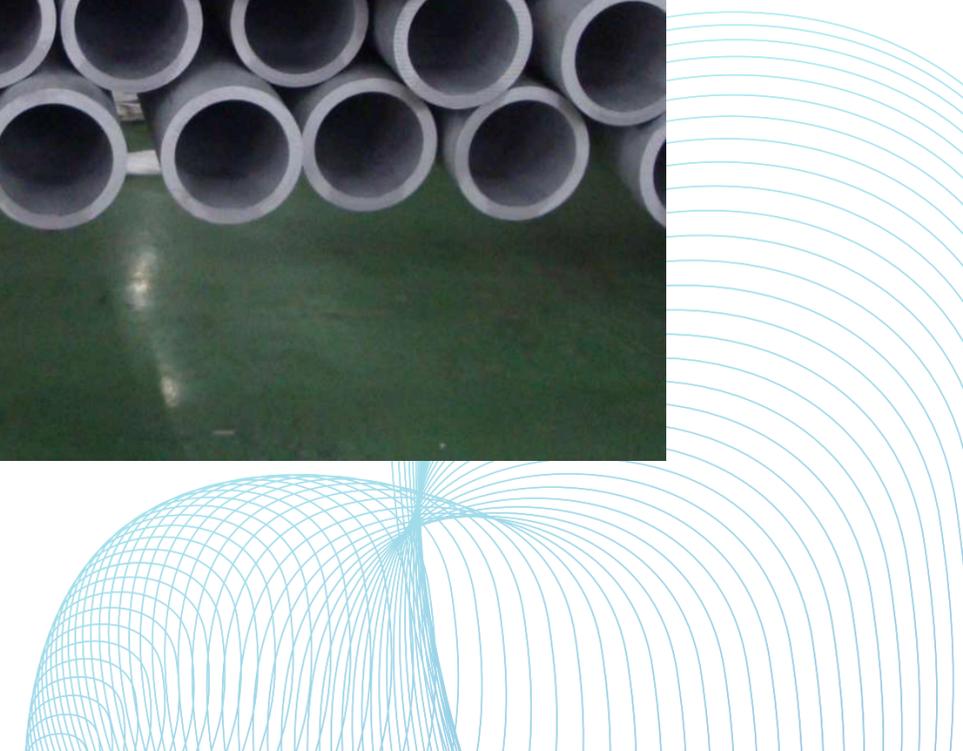
PROPERTIES for 316/316L

Y.S.psi/(MPa)	T.S.psi/(MPa)	EL.	HRB	Flattening	Flaring	Grain Size	Hydrostatic	I.C.	E.T.	U.T.
0.2%Min.170	Min. 485	Min.35%	Max. 90	Test	Test	Test	Test	Test	Test	Test

PROPERTIES for 304/304L

STAINLESS STEEL SEAMLESS ANNEALING PICKLED PIPE

- **Production:** Cold drawing
- **Surface treatment:** Annealing and Pickled(AP)
- **Material:** 304/304L, 316/316L, 321, 347, 309S, 310S, 31803, 32750, 904L
- **Standard:** ASTM A269, A312, A213, EN10216-5, DIN 17458, ISO 1127, NACE MR0175, ASTM B163, B165, etc.
- **Size:** OD 6 to 325 mm, WT: 1 to 20 mm



CHEMICAL COMPOSITION and CHEMICAL COMPOSITION

	C	Mn	Mn	S	Si	Ni	Cr	Mo
Min.	-	-	-	-	-	10.00	16.00	2.00
Max.	0.035	2.00	0.040	0.030	1.00	14.00	18.00	3.00

CHEMICAL COMPOSITION(wt. %) for 316/316L

	C	Mn	Mn	S	Si	Ni	Cr	Mo
Min.	-	-	-	-	-	8.00	18.00	-
Max.	0.035	2.00	0.045	0.030	1.00	12.00	20.00	-

CHEMICAL COMPOSITION(wt. %) for 304/304L

Y.S.psi/(MPa)	T.S.psi/(MPa)	EL.	HRB	Flattening	Flaring	Grain Size	Hydrostatic	I.C.	E.T.	U.T.
0.2%Min.205	Min. 515	Min.35%	Max. 90	Test	Test	Test	Test	Test	Test	Test

PROPERTIES for 316/316L

Y.S.psi/(MPa)	T.S.psi/(MPa)	EL.	HRB	Flattening	Flaring	Grain Size	Hydrostatic	I.C.	E.T.	U.T.
0.2%Min.170	Min. 485	Min.35%	Max. 90	Test	Test	Test	Test	Test	Test	Test

PROPERTIES for 304/304L

CHROME PLATED ROD

- **Material grade:** ST52, ST52.3, AISI 1020, AISI 1045, 4140 (42CrMo), 40Cr, Q460, Q500, 27SiMn, SS304, SS316 etc
- **Diameter:** from 10mm to 560mm, 16 meters max length
- **Chrome Thickness:** min 20 μ m
- **OD tolerance:** ISO f7
- **Available treatment:** Quenching and Tempering, Induction and Hardened, Nitriding, etc
- **Salt spray test:** ASTM B 117, 36 hours



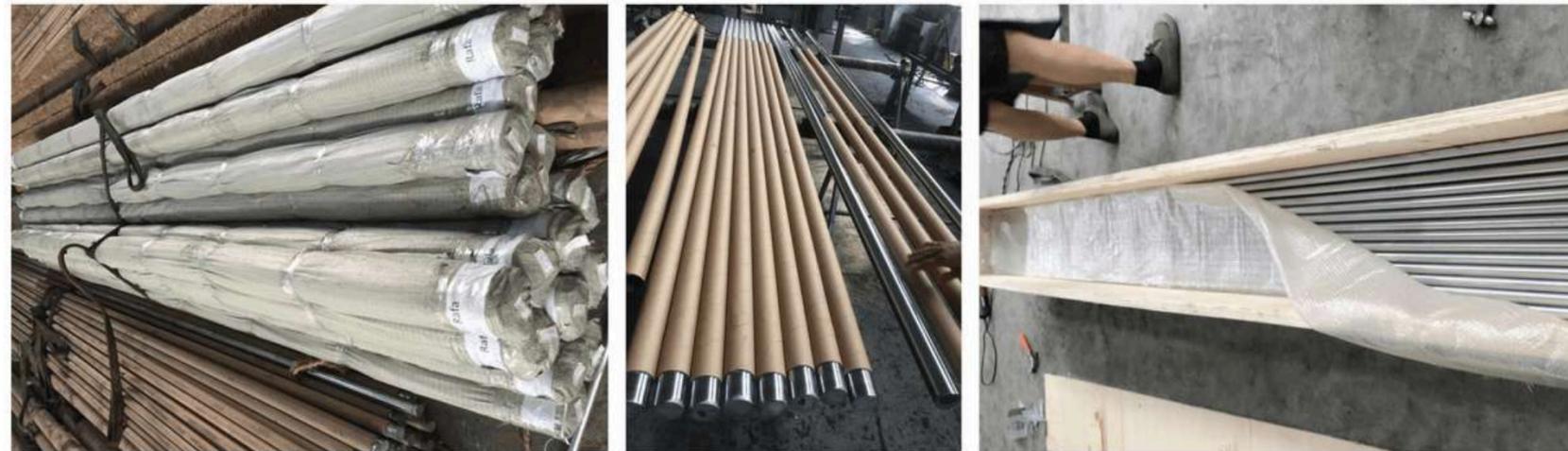
CHEMICAL COMPOSITION and CHEMICAL COMPOSITION

	C	Mn	S	Si	P
Max.	0.40-0.50	0.60-0.90	0.035	0.035	0.035

CK45 CHEMICAL COMPOSITION (%)

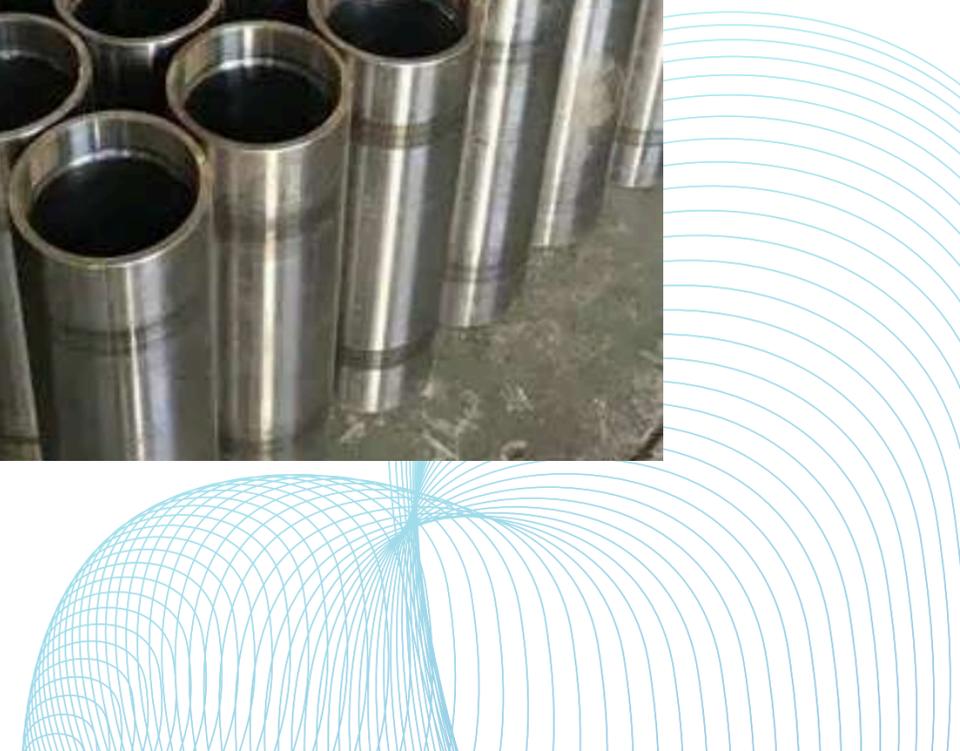
	UTS	Y.S	E %	CHARPY	CONDITION
min	630 N/mm ²	340 N/mm ²	16		NORMALISED
min	600 N/mm ²	400 N/mm ²	16	41J	HARDENED AND TEMPERED

MECHANICAL PROPERTIES



HONED TUBE

- **Material:** ST52, ST52.3, AISI 1020, AISI 1045, 4140 (42CrMo), SS304, SS316 etc
- **Size:** ID from 40mm to 1000mm
- **Max length:** 20 meters
- **Straightness:** 0.5/1000mm
- **Tolerance EXT:** DIN 2391
- **Tolerance INT:** ISO H8
- **Roughness(Ra):** 0.1 to 0.2 μ m
- **Impact test:** -20°C, 27 J
- **Types:** cold drawing, normalizing treatment, honing



CHEMICAL COMPOSITION and CHEMICAL COMPOSITION

	C	Mn	P	S	Si
Max.	0.22	1.6	0.025	0.025	0.55

ST52 CHEMICAL COMPOSITION (%)

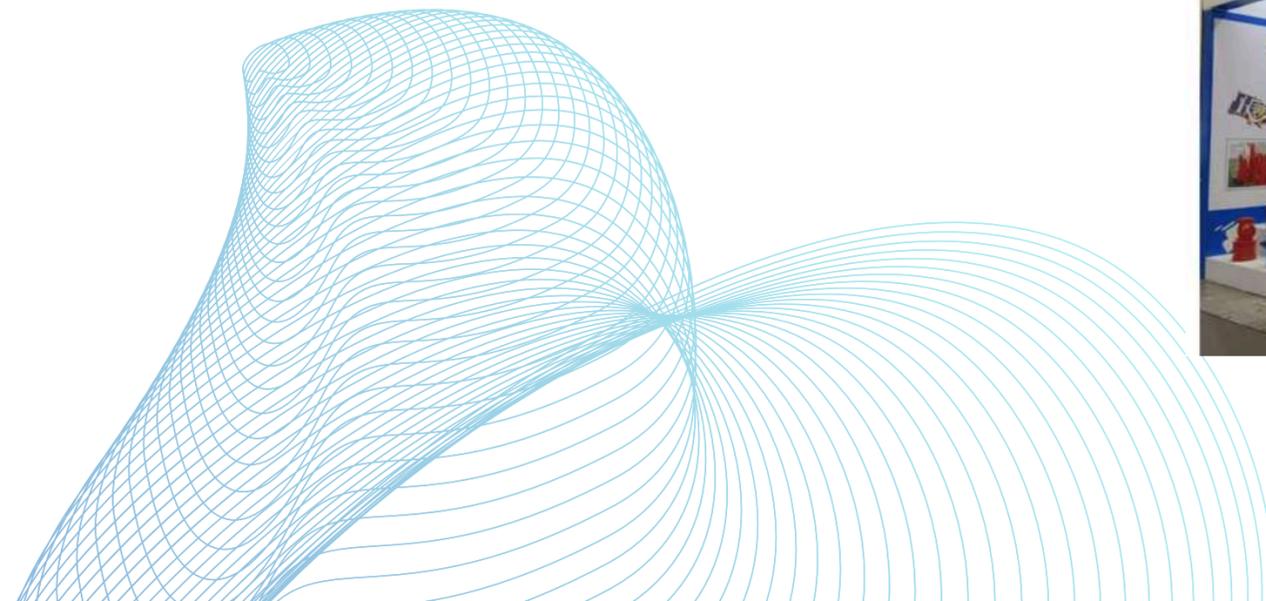
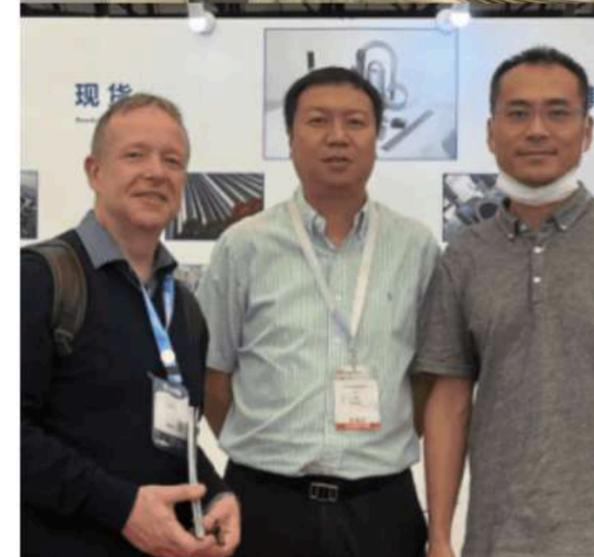
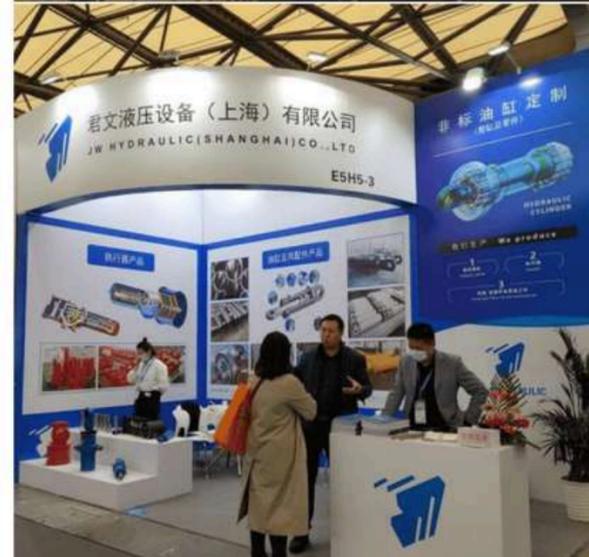
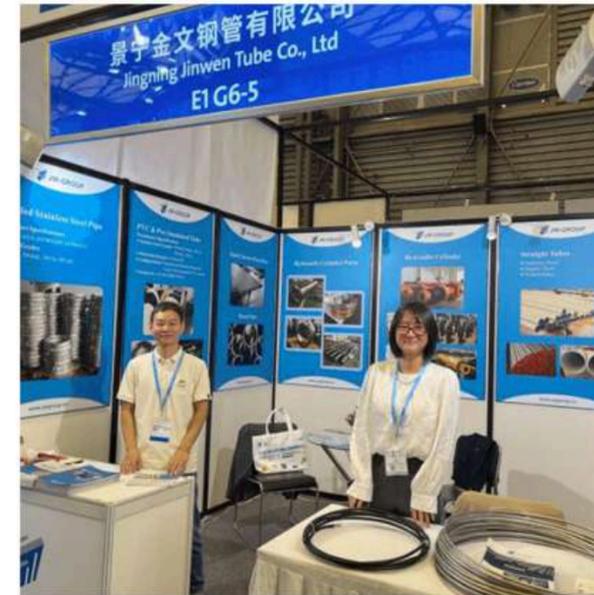
	Tensile strength	Yield Strength	Elongation %
min	580 N/mm ²	420 N/mm ²	10

MECHANICAL PROPERTIES



TEAM

JW Group takes part in different exhibitions



THANKS

- Stock: 200 tons of products in stock, covering 70% of the regular specifications.
- Available OEM and ODM service.

Email: link@jwgroup.cc

<https://sstubing.net>

Phone: +86-21-62666697

FAX: +86-21-62999145

ADD: No 2299, Xiangjiang Road, Shanghai, China

