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湖州中锐洁净科技有限公司

HUZHOU ZHONGRUI CLEANING
TECHNOLOGY CO.,LTD

ZR 中锐钢管
ZhongRuiTube

No 99 Zhenxing Road, Shuanglin Township, Huzhou,Zhejiang, China



Size Range

- O.D : 3.175mm ~ 60.5mm
- Thickness: 0.71mm~ 3.18mm
- Length : 2000mm ~ 9000mm

Capacity

- Tube Capacity: 7 million Meter /year
- Sales Volume: USD 18.9 Million (2022)

About ZhongRui

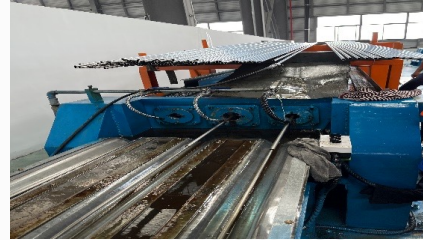
Huzhou Zhongrui is professional manufacturer specialized in bright annealing stainless steel tube. The size of tube is from OD 3.175mm-60.5mm with bright annealing or electropolishing finished. Tubes have been widely used in various industries such as automobile, food and beverage and other hydraulic systems. There are more than 100,000 meters of tubes available from our stock.

History

- 2013 Established Seamless Tube factory
- 2017 Established Zhongrui Brand
- 2020 Capacity mor than 4 million meters
- 2022 Second Plant

Product Items

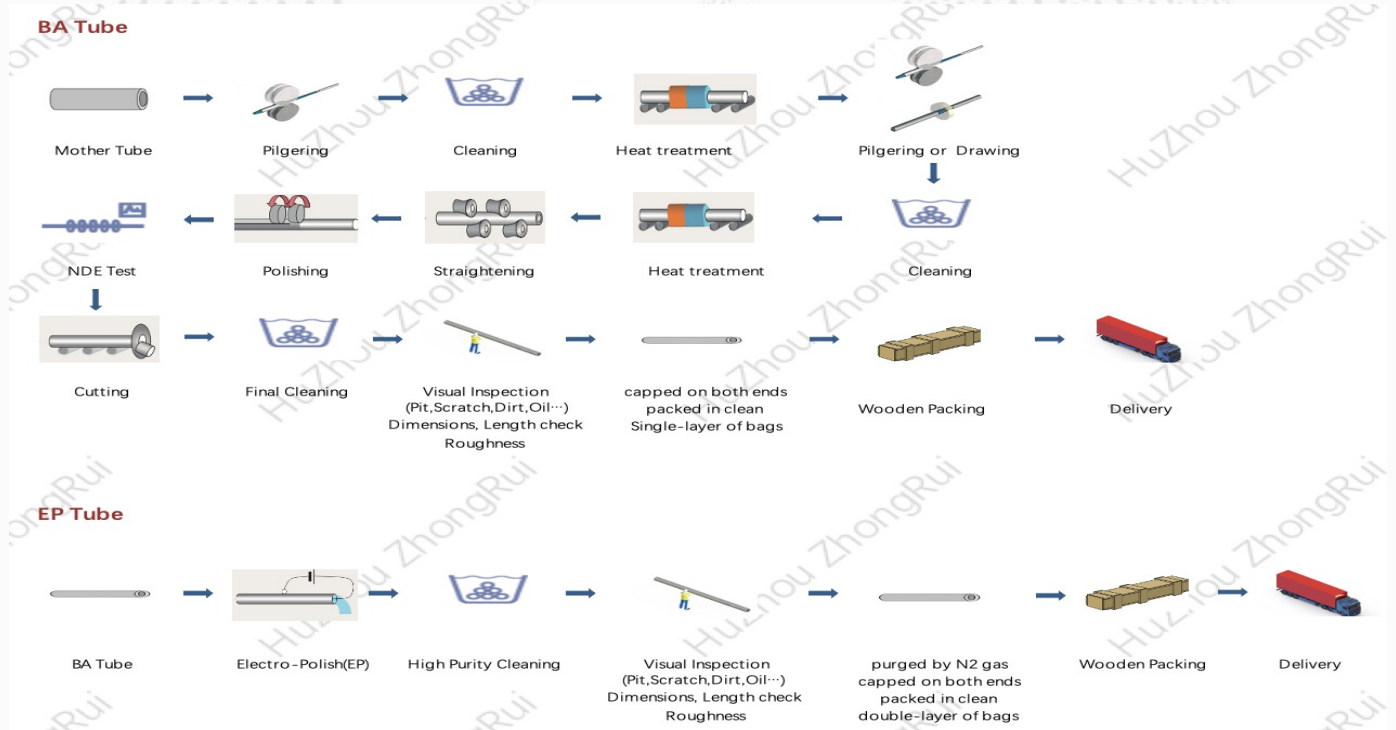
- Stainless Seamless EP (Electropolished) Tube
- Stainless Seamless High-Cleaning BA(Bright annealed) tube
- Ultra High Pressure Tube(HR31603)
- Stainless Seamless Instrumentation BA Tube



Facility

No	Machine	Unit
1	Drawing Machine(oil)	9
2	Pilger Machine	20
3	BA Heat Treatment Furnace	4
4	Straightening Machine	9
5	Polishing Machine	8
6	Cutting Machine	7
7	ECT	3
8	UT	2
9	Cleaning Tank	7
10	Full-automatic electrolytic polishing line	5+14

Process



Description

ZhongRui specialist in the manufacture of clean BA tube and supply both in domestic and abroad for the use of High purity gas and liquid supply line, automobile parts, Cylinder tube, Instrumentation , bioprocessing equipment, etc.

BA Tube Size

No.	Size	
	O.D(mm)	Thk(mm)
1/8"	3.175	0.71
1/4"	6.35	0.89
	6.35	1.24
	6.35	1.65
3/8"	9.53	0.89
	9.53	1.24
	9.53	1.65
	9.53	2.11
	9.53	3.18
1/2"	12.70	0.89
	12.70	1.24
	12.70	1.65
	12.70	2.11
9/16"	14.30	3.18
5/8"	15.88	1.24
	15.88	1.65
	19.05	1.24
3/4"	19.05	1.65
	19.05	2.11
	19.05	3.96
	25.40	1.24
	25.40	1.65
1"	25.40	2.11
	25.40	2.11
1-1/4"	31.75	1.65
1-1/2"	38.10	1.65
2"	50.80	1.65
10A	17.30	1.20
15A	21.70	1.65
20A	27.20	1.65
25A	34.00	1.65
32A	42.70	1.65
40A	48.60	1.65
50A	60.50	1.65

No.	Size	
	O.D(mm)	Thk(mm)
1	6.00	1.00
2	8.00	1.00
3	8.00	1.50
4	10.00	1.00
5	10.00	1.50
6	10.00	2.00
7	12.00	1.00
8	12.00	1.50
9	12.00	2.00
10	12.70	1.00
11	14.00	1.00
12	14.00	1.50
13	14.00	2.00
14	15.00	1.00
15	15.00	1.50
16	15.00	2.00
17	16.00	1.00
18	16.00	1.50
19	16.00	2.00
20	18.00	1.00
21	18.00	1.50
22	18.00	2.00
23	19.00	1.50
24	19.00	2.00
25	20.00	1.50
26	20.00	2.00
27	22.00	1.50
28	22.00	2.00
29	25.00	2.00
30	28.00	1.50

Steel grade

316/316L 304/304L
 TP316L (Sulphur: 0.005% - 0.017%)
 Nickel Alloy



Specifications

JIS , ASTM A269 EN10216

Surface finish(Ra)

I.D surface: 0.35µm & 0.6µm

Size Tolerance:

- tube : 1/8 ~ 2"
- pipe : 2.5 ~ 20

Packing:

Each single tube capped on both ends, packed in clean single-layer of bags and final into wooden case.

Feature

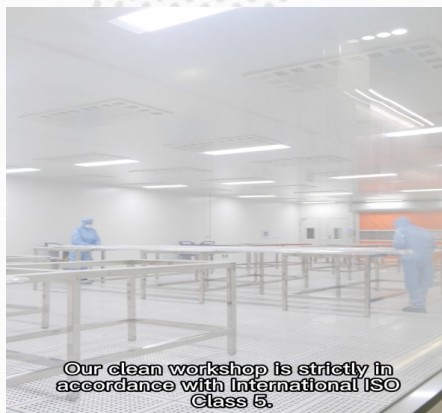
- Strict tolerance in the diameter and wall thickness
- Good corrosion resistance by the fully bright annealing
- A good Weldability
- Excellent internal roughness due to the advantage process technology and washing

Description

ZhongRui specialist in the manufacture of EP tube and supply both in domestic and abroad for the use of semiconductor manufacturing equipment, display, food · pharmaceutical · bio production equipment ,etc.

EP Tube Size

No.	Size	
	O.D(mm)	Thk(mm)
1/4"	6.35	0.89
3/8"	9.53	0.89
1/2"	12.70	1.24
3/4"	19.05	1.65
3/4"	19.05	2.11
1"	25.40	1.65
1"	25.40	2.11
1-1/4"	31.75	1.65
1-1/2"	38.10	1.65
2"	50.80	1.65
10A	17.30	1.20
15A	21.70	1.65
20A	27.20	1.65
25A	34.00	1.65
32A	42.70	1.65
40A	48.60	1.65

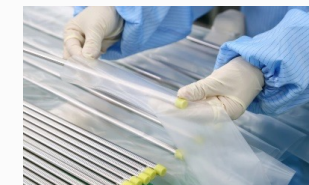


Packing:

Each single tube has been purged by N2 gas, capped on both ends, Packed in clean double-layer of bags and final into wooden case.

Steel grade

TP316/316L
SS316V+V



Specifications

JIS ASTM A269

Surface finish(Ra)

I.D surface: 0.25μm
O.D surface: 0.50μm

Size Tolerance:

- tube : 1/4 ~ 2"
- pipe : 2.5 ~ 20

Clean Room Standard:

ISO14644-1 Class 5

Feature

- Strict tolerance in the diameter and wall thickness
- Good corrosion resistance by the fully bright annealing
- A good Weldability
- Excellent internal roughness due to the advantage process technology and washing

Description

Hydrogen pipeline materials should be HR31603 or other materials that have been tested to confirm good hydrogen compatibility. When selecting austenitic stainless steel material, its nickel content should be greater than 12% and the Nickel equivalent should not be less than 28.5%.

Size & Press

Model	Press (psi)	Size	Size(mm)		W.T (mm)	Flow area (mm ²)	working pressure (bar)				
			O.D	I.D			-17.8~37.8°C 0~100°F	93°C 200°F	204°C 400°F	316°C 600°F	343°C 650°F
11-ZR02	11000psi	1/8	3.18	1.57	0.81	1.94	803.23	803.23	761.86	517.10	379.21
11-ZR04	11500psi	1/4	6.35	3.18	1.57	7.74	803.23	775.65	775.65	496.41	361.97
75-ZR06	7500psi	3/8	9.53	6.35	1.57	31.61	517.10	730.83	730.83	468.84	341.29
55-ZR08	5500psi	1/2	12.7	9.53	1.57	70.97	379.21	679.12	679.12	434.36	317.15
							-198~37.8°C -325~100°F	93°C 200°F	204°C 400°F	316°C 600°F	427°C 800°F
20-ZR04	20000psi	1/4	6.35	2.77	1.78	5.81	1378.93	1378.93	1327.22	1244.48	1158.30
20-ZR06		3/8	9.53	5.16	2.18	20.65	1378.93	1378.93	1327.22	1244.48	1158.30
20-ZR09		9/16	14.29	7.92	3.18	49.03	1378.93	1378.93	1327.22	1244.48	1158.30
20-ZR10		3/4	19.05	11.13	3.96	97.42	1378.93	1378.93	1327.22	1244.48	1158.30
20-ZR12		1	25.4	14.27	5.56	160.0	1378.93	1378.93	1327.22	1244.48	1158.30
30-ZR04	30000psi	1/8	3.18	1.02	1.08						
30-ZR06		1"	25.4	11.1	7.15						
60-ZR04	60000psi	1/4	6.35	2.11	2.11	3.23	4136.79	4136.79	3981.66	3740.35	3495.59
60-ZR06		3/8	9.53	3.18	3.18	7.74	4136.79	4136.79	3981.66	3740.35	3495.59
60-ZR09		9/16	14.29	4.78	4.75	18.06	4136.79	4136.79	3981.66	3740.35	3495.59
100-ZR04	100000psi	1/4	6.35	1.59	2.38	3.23	6894.64	6864.64	6633.24	6230.55	5820.46
100-ZR06	100000psi	3/8	9.53	1.90	3.81	7.74	6894.64	6864.64	6633.24	6230.55	5820.46
150-ZR04	150000psi	3/8	9.53	1.56	3.99	7.74	10341.97	10341.97	9955.87	9400.85	8738.97



Steel grade

HR31603

Specifications

QB/ZRJJ 001-2021

Size Tolerance:

- According to the GB/T 17395
- According to the customer's request

Packing:

Each single tube capped on both ends, packed in Clean single-layer of bags and final into wooden case.

Feature

- Good resistant to hydrogen embrittlement
- Strict tolerance in the diameter and wall thickness
- Being used for High-Pressure applications
- Strict tolerance in the diameter and wall thickness

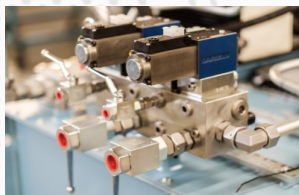
Automotive/Instrumentation

*Material: TP304/304L , TP316/316L

*Tube: BA

*Application:

Gasoline, CNG, hydrogen, electronic cars, High purity gas and liquid supply line, Automobile parts, Cylinder tube, BPE



Semiconductor

*Material: TP316/L,1.4404,1.4435

*Tube: BA & EP

*Application:

High purity gas transfer line, semiconductor Manufacturing equipment, Display, Food · pharmaceutical · bio production equipment



Oil & Gas / Petrochemical Plant

*Material:TP304/304L, TP316/L,1.4404,1.4435

*Tube: BA

*Application:

Instrumentation, Piping line, Heat exchanger, Nuclear Plant



Ultra High Pressure Tube

*Material: HR31603

*Tube: BA

*Application:

Hydrogen gas line , Hydrogen station, hydrogen storage device

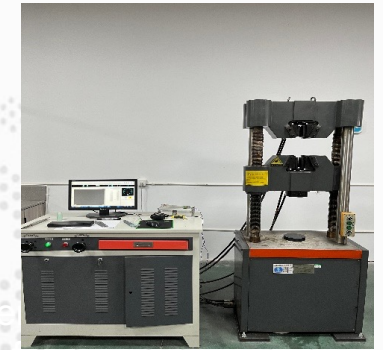


Test Item and Standard

Tensile Strength	Yield Strength	Elongation	Hardness(HRB)	Flaring	Flattening
ASTM A370	ASTM A370	ASTM A370	ASTM A370	ASTM A1016	ASTM A1016

NDT and Dimensional Inspection

Size	Appearance	Eddy Current	Ultrasonic Test	PMI	Roughness
ASTM A1016/1016M		E426,E309	E213	A751	ISO 3274



Certificate



ISO9001:2015



ISO45001:2018



PED

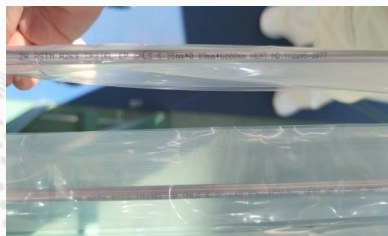


Hydrogen compatibility Certificate(TUV)

Tag

Case No: 1
 PO# NO :
 Material: TP316/316L
 Size : 9.53*0.89*6000mm
 Q'ty : 3000pcs
 To : destination of port
 Made in china

Marking



Stocks for quick delivery



* Tag and Marking Can be modified according to customer requirements

* Stock tube size: O.D 3.18mm-60.5mm ; Material: 304/L , 316/L

Packing

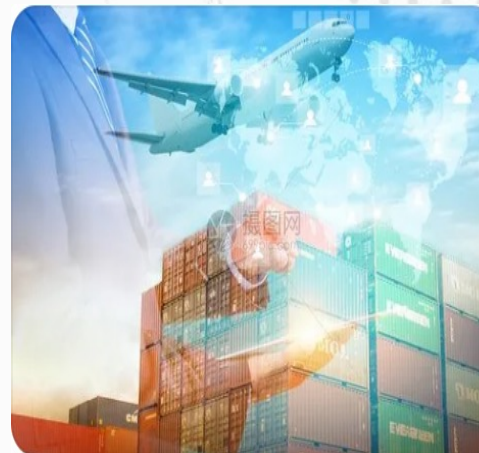


BA Tube Packing

EP Tube Packing

Wooden Box

Our abroad Market



South Korea
 Taiwan,
 Middle east
 Singapore
 Thailand
 India
 UK
 USA
 Italy
 Other Asian Country

Zhongrui Tube exists for the industrial development of mankind and the happiness of its members. As a stainless steel precision tube manufacturer, we have long and friendly business with various industries such as semiconductors, automobiles, energy, medical since 2013.

Nowadays, Zhongrui Tube starts expanding the global market with the best quality and most professional service. Zhongrui devotes to become an essential company for the high-techization of industry so that the better life of mankind and the development of civilization.

As a responsible company, Zhongrui keeps growing and is happy with our employees, shareholders, suppliers, and other members. Warmly welcome to join us in future.

