

Custom Tube Bending Services

Specialized Products and Services Meeting Your Diverse Custom Needs

Products

























Supply Range and Parameters

Instrumentation and High Purity Tube Bending

Fractional									
Material	Straight Tubing Series	O.D. (in.)	Wall Thickness (in.)	Standard Bend Radius (in.)	Minimal Bend Radius (in.)	Maximum Bend Angle	Maximum Straight Tubing Length (Prior to Bending) (ft)	Packaging and Cleaning Standard	
316/316L SS, Enhanced 316/316L SS, Super Duplex SS, and Alloys	TMP, TBA	1/8	0.028, 0.035	0.38	1.5×O.D.	180°	9.1	FITOK Standard	
		3/16	0.028, 0.035, 0.049	0.56				Cleaning and	
		1/4	0.035, 0.049, 0.065	0.56				Packaging Process	
		3/8	0.049, 0.065, 0.083	0.81				(FC-01), Special	
		1/2	0.049, 0.065, 0.083	1.00				Cleaning and	
		5/8	0.065, 0.083, 0.095	1.25				Packaging	
		3/4	0.065, 0.083, 0.095, 0.109	1.50				Process (FC-02)	
		1	0.083, 0.095, 0.109, 0.12	2.00				options	

Material	Straight Tubing Series	O.D. (mm)		Standard Bend Radius (mm)	Minimal Bend Radius (mm)	Maximum Bend Angle	Maximum Straight Tubing Length (Prior to Bending) (m)	Packaging and Cleaning Standard
316/316L SS, Enhanced 316/316L SS, Super Duplex SS, and Alloys	TMP, TBA	3	0.8, 1	10	1.5×O.D.	180°	2.8	FITOK Standard Cleaning and Packaging Process (FC-01), Special Cleaning and Packaging Process (FC-02) options
		6	1, 1.2, 1.5	15				
		8	1, 1.2, 1.5	20				
		10	1.2, 1.5, 2	20				
		12	1.5, 2, 2.5	25				
		14	1.5, 2, 2.5, 3	30				
		16	1.5, 2, 2.5, 3	30				
		18	1.5, 2, 2.5, 3	35				
		20	2, 2.5, 3	40				
		22	2, 2.5, 3, 4	45				
		25	2, 2.5, 3, 4	50				

Medium and High Pressure Tube Bending

Fractional								
Material	Straight Tubing Series	O.D. (in.)	I.D. (in.)	Standard Bend Radius (in.)	Max Working Pressure psig (bar)	Maximum Bend Angle	Maximum Straight Tubing Length (Prior to Bending) (ft)	Packaging and Cleaning Standard
316/316L SS, Enhanced 316/316L SS	T20D	1/4	0.120	1.25	19100 (1317)	180°	9.1	FITOK Standard Cleaning and Packaging Process (FC-01), Special Cleaning and Packaging Process (FC-02) options
		3/8	0.209	1.75	18750 (1293)			
		1/2	0.282	2.63	18750 (1293)			
		3/4	0.420	3.50	18750 (1293)			
		1	0.656	4.63	18700 (1290)			
	T20M	1/4	0.109	1.25	19100 (1317)			
		3/8	0.203	1.75	18750 (1293)			
		9/16	0.312	2.63	18750 (1293)			
		3/4	0.438	3.50	18750 (1293)			
		1	0.562	4.63	18700 (1290)			
	т60Н	1/4	0.083	1.25	58400 (4028)			
		3/8	0.125	1.75	57750 (3983)			
		9/16	0.188	2.63	57750 (3983)			

Bend Radius

Standard Bend Radius is recommended. For products with other bend radii, please consult FITOK.

Working Pressure

For Instrumentation and High Purity tube bending products with bend radii greater than 1.5 times the tube O.D., the working pressure is the same as for straight tubing.

For Medium and High Pressure tube bending products with standard bend radii, find the working pressure from above table. Working pressure of the tube bending products with other bend radii, please consult FITOK.

Test Report Available Upon Request





EN 10204: 2004-3.1 Material Certificate

3D Dimensional Inspection Report

Our Superiority

1. High quality, comprehensive range and fast delivery.

- Extensive experience of tubing manufacturing guarantees the best quality.
- Offering tubing in a variety of materials and sizes for diverse industries and applications.
- Maintaining more than 500,000 meters of tubing in stock for fast delivery.



2. Efficient communication and enhanced customer experience.

© Expert team with extensive product and business knowledge can accurately understand customer needs and concerns, providing efficient communication and effective solutions.

3. Automated bending machines ensure efficient production and excellent consistency.

- Bidirectional bending and continuous bending are available, ensuring high-quality production.
- ③ 3D simulation identifies potential interference between tubing and machines, helping optimize production efficiency.
- One tubing supports six different bend radii and 50 bends in total.





4. High accuracy measuring machines ensure product quality.

- Parameters such as profile, position, angle, roundness, cylindricity, verticality, length and bend radius can be measured.
- Measurement accuracy reaches 0.02 mm, with certified metrologicalgrade accuracy.
- Measurement speed reaches 2.1 million measurements per second, report can be generated automatically.



Step 1. Scanning of the Product

Step 2. 3D Model Generating

Step 3. Measuring Result Output



5. Economic and reliable packaging and shipping.

- O Delivering over 1 million meters of tubing annually has provided us with extensive packaging experience.
- Standard short-length tubing helps reduce costs significantly by lowering both packaging and transportation expenses.
- Optimized packaging methods ensure product quality during transit while minimizing costs.



6. FITOK fittings and valves available for quick one-stop procurement.

- © 20+ years of experience in valve and fitting manufacturing, with products used globally and widely in diverse industries.
- © Stringent validation testing ensures reliable connections among FITOK tubing, fittings and valves, eliminating mismatches or leaks when using components from different manufacturers.



Other Services

Custom length straight tubing with well treated ends (including deburring, beveling, and flaring), as well as cone and thread processing and ferrule presetting, are available.

O Custom-Length Straight Tubing with Well Treated Ends



○ Cone and Thread Processing



O Ferrule Presetting



Welded Assemblies

