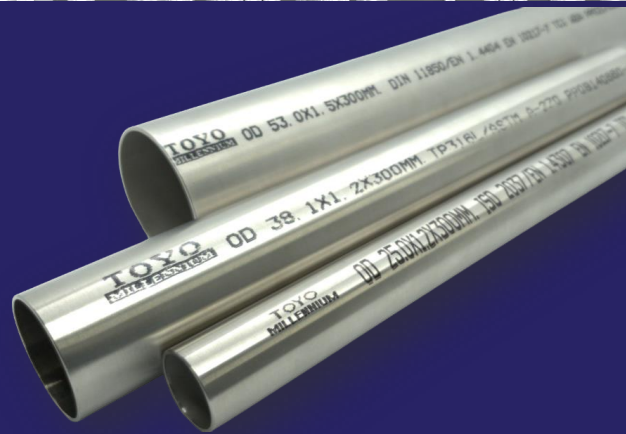


# TOYO MILLENNIUM

**INOX is the authorised distributor of TOYO MILLENNIUM.**

Toyo Millennium CO., Ltd. is one of the leading stainless steel tube production to international standards. Type 304, 304L and 316L grade semi-seamless advanced production technology. Cleanliness, sterilization and safety are mission-critical factors in order to maintain and deliver superior quality products to their consumers especially for the food or pharmaceutical industries. As sanitary tube is genuinely suitable for various industries, it is widely used as parts of production processes requiring hygienic conditions. Therefore, they are widely used in order to ensure the production process to be able to deliver good quality products. For instances, Milk and Wine producers, Milk can get rotten easily and if there are stains stuck inside, it can affect the product quality. For Wine, there might be fruit acids that cause corrosion to some metals.



ISO 9001  
BUREAU VERITAS  
Certification



## Component Chemical

Type	Standard Specifications			Chemical Composition (%)					Gravity	Mechanical Properties					
	AISI ASTM	JIS	DIN	Carbon	Chromium	Nickel	Molybdenum	Others		Tensile Tests		Elongation (%)		Hardness tests	
				C	Cr	Ni	Mo			Tensile Strength min ksi(Mpa)	Yield Strength min ksi(Mpa)	Longitudinal	Transverse	HR	HRB
Austenitic	AISI ASTM 304	SUS304	EN10217-7 1.4307	0.080	18.00 ~20.00	8.00 ~11.00			7.93	75(515)	30(305)	35	25	192	90
	AISI ASTM 304L	SUS304L	EN10217-7 1.4301	0.035	18.00 ~20.00	8.00 ~13.00			7.93	70(485)	25(170)	35	25	192	90
	AISI ASTM 316L	SUS316L	EN10217-7 1.4404	0.035	16.00 ~18.00	10.00 ~14.00	2.00 ~3.00		7.98	70(485)	25(170)	35	25	192	90

Product	Round Tubes
Specification	According to ASTM A-270, A-249, A-269, A-554, AS 1528, DIN 1850, ISO 2037, EN 10357, BS 4825, NF A 49-249, JIS G 3447
Material	AISI 304, 304L, 316L and upon request
Surface	Inside & outside polished grit 180-600
Length	6000mm , 6100mm, short length upon request
Design	Welded and Semi seamless type

### TOLERANCE OF ASTM A-270

Applicable Standard	Outside Diameter (mm.)	Tolerance (mm.)	
		Over	Under
Outside Diameter (mm.)	1/2" (12.7), 3/4" (19.1), 1" (25.4)	0.005 (0.13)	0.005 (0.13)
	1.5" (38.1), 2" (50.8)	0.008 (0.20)	0.008 (0.20)
	2.5" (63.5), 3" (76.2)	0.010 (0.25)	0.010 (0.25)
	4" (101.6)	0.015 (0.38)	0.015 (0.38)
	6" (152.4), 8" (203.2)	0.030 (0.75)	0.030 (0.75)
Wall Thickness (mm.)	All size 10%		
Length	12.7mm - 101.6mm	+ 3.00mm – 0 mm	
Special Length	Above 101.6mm	+ 5.00mm – 0 mm	
Length	USA	20'	
	EU	6000mm – 9000mm	
	ASIA	6000mm	

### ASTM A-270, AS 1528, DIN 11850, ISO 2037, SWG, EN10357

Size	Inch	OD Specifications				Wall Thickness (mm)							
		ASTM A-270, AS 1528, SWG	ISO2037	EN10357 DN11850		1.2	1.25	1.5	1.6	1.63	1.65	2.0	2.11
				Series B	Series A								
25	1"	25.40	25.00	28.00	29.00	○	○	○	○	○	○		
32	1 1/4"	31.80		34.00	35.00	○	○	○	○		○		
40	1 1/2"	38.10	38.00	40.00	41.00	○	○	○	○	○	○		
50	2"	50.80	51.00	52.00	53.00	○	○	○	○	○	○		
65	2 1/2"	63.50	63.50	-	70.00			○	○	○	○	○	
80	3"	76.20	76.10	-	85.00			○	○	○	○	○	
100	4"	101.60	101.60	-	104.00			○	○	○	○	○	○