



# Hydraulic & Offshore Supplies

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## Seamless Coiled Tube



# TUBE PRODUCTS

## LARGE COIL

**H**OS Ltd has specialized in the manufacture of long length seamless coil tubing of outer diameter sizes smaller than 1" (25.4mm) for over 26 years. Our seamless coil tubing is available in a number of high performance corrosion resistant stainless steel and high nickel alloys, capable of withstanding a variety of environmental conditions. Our specific advantage is being able to make long lengths of tube which are free of welds up to and exceeding 5,000 feet long. This reduces installation efforts and the need for excess fittings as well as minimizes the risk of leaks.



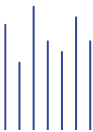
## SMALL COIL

**T**o further our market applications and manufacturing capability, we have expanded manufacturing equipment to include even smaller diameter tubing. We are able to offer tubes with outer diameter sizes as small as 0.020" (0.508mm) and inner diameter sizes as small as 0.005" (0.127mm). For reference, a human hair is approximately 0.003" in size. Applying the same technology that we use to manufacture large coils, and with precision equipment specifically designed in house, we are able to bring a more complete tubing solution to our customers.



## STRAIGHT LENGTHS

**H**OS Ltd manufactures straight length tube, produced according to ASTM, MIL-T, SCI, and AMS specifications. Our straight length tube is ideal for ultra high purity, military, aircraft, semiconductor, medical, and general instrumentation applications. Through our unique processing, we manufacture straight length tube suitable for all assembly methods including flared and compression fittings, also with superior weldability.



## ALLOYS

304 / 304L	446	Hastelloy C276
310	EB26	Monel 400
316 / 316L	Inconel 600	MP35N
317L	Inconel 625	Nickel 200
321	Incoloy 825	Nitronic 50
347	Hastelloy C22	

### OIL & GAS: SUBSEA



LARGE COIL



### OIL & GAS: DOWNHOLE



LARGE COIL



### GEOHERMAL



LARGE COIL



Sub-Surface Safety Valves (SSSV) / Umbilicals: Tubes filled with Hydraulic Fluid which run from floating platform or FPSO to the well head on the sea floor.

Downhole Control Lines: Tubes running from above ground surface controls into a downhole well to the location of the well's safety valve.

Calcite Inhibition System: Carries chemicals into earth's crust to flash point of water in a geothermal well; injected to break down calcite deposits and extend life of the well.

### PETROCHEMICAL



LARGE COIL & STRAIGHT



### CHROMATOGRAPHY



SMALL COIL & STRAIGHT



### FLOW MEASUREMENT & SENSING



SMALL COIL & STRAIGHT



### MEDICAL



SMALL COIL & STRAIGHT



Tubes used in the transportation of liquid or gaseous material between processes or locations within a production facility.

Gas Chromatography (GC) & High Performance Liquid Chromatography (HPLC): Method of analyzing a solution in a chromatographic column by adsorbing and separating the solution into its constituent elements.

Process Management Instruments: Used to measure pressure, temperature and flow to maintain optimum performance within a safe working system.

Medical Implants: Cardiac Pacemaker leads and lead sheathing. Dental Instrumentation: Dental pick handles.

### STEAM & HEAT TRACE



LARGE COIL



Tubing Bundles: Encapsulated small diameter tubing with steam or electric tracer lines used to keep a substance at a controlled temperature.

### SHIP BUILDING



LARGE COIL



Tubing Bundles: Encapsulated remote hydraulic control, level gauge, draft gauge, gas detection & sampling, and fire damper open / shut lines.

### HYDROGEN



LARGE COIL



Hydrogen Gas Refueling Station: Seamless connection lines which span the distance between a remote storage tank and a hydrogen gas refueling pump.

### MILITARY / AEROSPACE

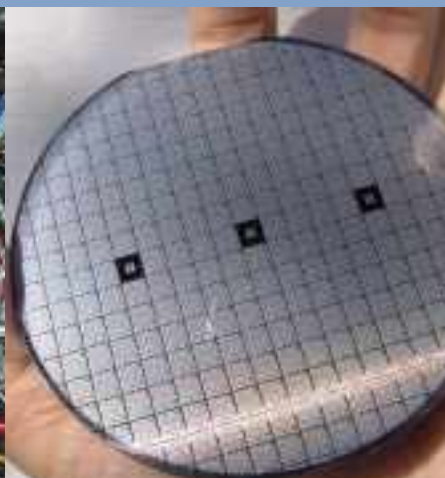


STRAIGHT



Military: Humvee brake lines & gas return tube for M16. Aircraft Engine Lines: With no weakened areas due to welding, seamless tube is preferred for airframe, hydraulic, and fuel lines applications.

### SEMICONDUCTOR



STRAIGHT



Ultra High Purity (UHP): Controlled inside surface roughness of the tube makes it suitable for gas transfer, solvents, and other chemicals with cleanliness requirements as well as further electropolish processing.

### INSTRUMENT



STRAIGHT



Common connection tubing for control panels, pneumatic equipment, and fluid lines.

# SIZECOMPATIBILITY

## WALL

OD & ID Tolerance	(in.) (mm.)		WALL																												
	(in.)	(mm.)	3.175	2.997	2.769	2.616	2.413	2.108	2.000	1.778	1.650	1.500	1.245	1.000	0.889	0.711	0.610	0.508	0.406	0.305	0.279	0.254	0.229	0.203	0.178	0.152	0.127	0.106	0.095		
+/-0.010	1.250"	31.750	●	●	●	●																									
+/-0.010"	1.000"	25.400	●	●	●	●	●	●	●	●																					
+/-0.010"	0.787"	20.000	●	●	●	●	●	●	●	●	●	●																			
+/-0.008"	0.750"	19.050	●	●	●	●	●	●	●	●	●	●	●																		
+/-0.008"	0.625"	15.875		●	●	●	●	●	●	●	●	●	●	●																	
+/-0.008"	0.563"	14.288		●	●	●	●	●	●	●	●	●	●	●	●																
+/-0.005"	0.500"	12.700			●	●	●	●	●	●	●	●	●	●	●	●															
+/-0.005"	0.473"	12.000			●	●	●	●	●	●	●	●	●	●	●	●	●														
+/-0.005"	0.394"	10.000				●	●	●	●	●	●	●	●	●	●	●	●														
+/-0.005"	0.375"	9.525					●	●	●	●	●	●	●	●	●	●	●	●													
+/-0.003"	0.315"	8.000						●	●	●	●	●	●	●	●	●	●	●	●												
+/-0.003"	0.250"	6.350							●	●	●	●	●	●	●	●	●	●	●	●											
+/-0.003"	0.236"	6.000								●	●	●	●	●	●	●	●	●	●	●	●										
+/-0.003"	0.188"	4.775									●	●	●	●	●	●	●	●	●	●	●	●									
+/-0.002"	0.125"	3.175										●	●	●	●	●	●	●	●	●	●	●									
+/-0.002"	0.110"	2.794											●	●	●	●	●	●	●	●	●	●	●								
+/-0.001"	0.095"	2.413												●	●	●	●	●	●	●	●	●	●	●	●	●					
+/-0.001"	0.086"	2.184													●	●	●	●	●	●	●	●	●	●	●	●	●				
+/-0.001"	0.076"	1.930														●	●	●	●	●	●	●	●	●	●	●	●				
+/-0.001"	0.062"	1.575															●	●	●	●	●	●	●	●	●	●	●	●	●		
+/-0.001"	0.059"	1.500																●	●	●	●	●	●	●	●	●	●	●	●	●	
+/-0.001"	0.040"	1.016																	●	●	●	●	●	●	●	●	●	●	●	●	
+/-0.001"	0.031"	0.787																		●	●	●	●	●	●	●	●	●	●	●	●
+/-0.001"	0.020"	0.508																			●	●	●	●	●	●	●	●	●	●	●

Contact us for custom orders or size availability not shown.

COILS	●
COILS & STRAIGHTS	●

## SERVICE

**SERVICE POLICY:** "To provide exceptional customer service is to meet the needs and expectations of the customer as defined by the customer - before, during and after service."

### COMMITMENT TO SERVICE EXCELLENCE

- 1. Identify Customer Expectations:**  
Open communication to realize where we can add value for the customer and exceed expectations.
- 2. Employee Ownership:**  
Set service standards which encourage employees to use their skill, ingenuity, and experience to best fulfill customer needs.
- 3. Continuous Improvement:**  
Constantly work to improve our products and processes, as well as learn from our strengths and weaknesses.
- 4. Promote Responsible Business:**  
Aim to resolve customer complaints and deal with any issues in a timely manner.

	SMALL SPOOLS	LARGE SPOOLS	PALETTES	COIL DRUMS	COIL BOXES	STRAIGHT BOXES
DIMENSIONS	12" circular x 2" thick	44" circular x 7" thick	45" x 45" x 5"	15-24" circular x 13-27" tall	46" x 46" x 46"	10" x 10.5" x 21' / 26' long
WEIGHT (EMPTY)	2 lbs.	35 lbs.	40 lbs.	7-20 lbs.	130 lbs.	26 / 265 lbs.
CAPACITY	1 Coil	1 Coil	6 Large Spools	6 Small Spools	5 Large Spools	150-500 Pieces

## GENERAL ASTM SPECIFICATION REFERENCE TABLE

SPEC. NO.	TITLE / SCOPE
ASTM A213	Seamless pressure tubes, made from ferritic (400 series) and austenitic (300 series) alloy for steel boiler, superheater, heat exchanger and condenser applications.
ASTM A269	Seamless austenitic stainless steel (300 series) tubing for general corrosion resisting and high-temperature service.
ASTM B161	Nickel alloy (Nickel 200) in the form of cold-worked seamless pipe and tube in annealed and stress-relieved condition.
ASTM B163	Seamless nickel alloy (Nickel 200 and Monel 400) condenser and heat exchanger tube.
ASTM B165	Nickel-copper alloy (Monel 400) seamless pipe and tube in annealed, half hard, and full hard condition.
ASTM B423	Nickel-iron-chromium-molybdenum-copper alloy (Incoloy 825) in the form of cold-worked and hot-finished seamless pipe and tube intended for general corrosive service.
ASTM B444	Nickel-chromium-molybdenum-columbium alloy (Inconel 625) in the form of cold-worked seamless pipe and tube in annealed or solution annealed condition.
ASTM B622	Seamless pipe and tube in nickel and nickel-cobalt alloys (C276).

## MATERIAL SPECIFICATION CROSS REFERENCE

COMMON NAME	Alloy 304 / 304L	Alloy 316 / 316L	Alloy 200	Alloy 400	Alloy 625	Alloy 825
TRADE NAME	Type 304 / 304L	Type 316 / 316L	Nickel 200	Monel 400	Inconel 625	Incoloy 825
UNS	S30400 / S30403	S31600 / S31603	N02200	N04400	N06625	N08825
ASTM	A213, A269	A213, A269	B161	B165	B444	B423
ASME	SA213, SA269	SA213, SA269	SB161	SB165	SB444	SB423
UK B.S. 3074	S15 / S11	S31 / S11	NA11	NA13	NA21	NA16
GERMAN DIN	17740	17740	17740	17742	17744	17744
WERKSTOFF	1.4301 / 1.4306	1.4401 / 1.4404	2.4066 / 2.4060	2.4360	2.4856	2.4858
RUSSIAN GOST	10498-63, 14162-69	10498-63, 14162-69	10498-63, 14162-69	10498-63, 14162-69	10498-63, 14162-69	10498-63, 14162-69
FRENCH AFNOR	Z 6CNI8.09 / Z 2CNI8.10	Z 6CNDI7.11 / Z 2CNDI7.12	-	NU30	NC22DNb	NC21FeDU
KOREAN KS	STS304TB D3577	STS316TB D3577	-	-	NCF625TP D3758	NCF825TP D3758
JAPAN JIS	SUS304TB G3463	SUS316TB G3463	NNCT H4552	NCUT H4552	NCF625TB G4904	NCF825TB G4904
SWEDEN SS	2333 / 2352	2343 / 2353	-	-	-	-

## UNIT CONVERSIONS

MASS				
	LB	kg	ton (short)	ton (metric)
LB	1	0.4536	0.0005	0.000454
kg	2.20462	1	0.0011	0.0010
ton (short)	2000	907.1847	1	0.90718
ton (metric)	2204.623	1000	1.1023	1

PRESSURE					
	psi	bar	Pa	atm	mHg
psi	1	0.06895	6.895E+03	0.06805	0.05171
bar	14.50	1	1.0E+05	0.9869	0.7501
Pa	1.45E-03	1.00E-05	1	9.8690E-06	7.50E-07
atm	14.70	1.01325	1.01325E+05	1	0.76
mHg	19.34	1.3332	1.33E+05	1.3158	1

DISTANCE				
	in	mm	ft	m
in	1	25.4	0.08333	0.0254
mm	0.03937	1	0.00328	0.001
ft	10	304.8	1	0.3048
m	39.37	1000	3.28	1

DENSITY	
1 LB/ft <sup>3</sup>	= 16.01846 kg/m <sup>3</sup>
1 kg/m <sup>3</sup>	= 0.062428 LB / ft <sup>3</sup>

TEMPERATURE	
F°	= 1.8C° + 32°
K°	= C° + 273°



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