



Ferrous & Nonferrous
Seamless Tubes



PRODUKSI DALAM NEGERI

*Maksimalisasi penggunaan **Produksi Dalam Negeri** mendukung program transfer teknologi sekaligus mempercepat industrialisasi dan kemandirian bangsa*



PT. AREZDA PURNAMA LOKA

SEAMLESS TUBE Manufacturing Division

Welcome to the SEAMLESS TUBE MANUFACTURING DIVISION of PT. Arezda Purnama Loka

Arezda is one of the few truly Indonesia national companies pioneering and leading in the local manufacture of equipment and parts for industrial use. Our scope of production includes *Pressure Vessels, Finned Tubes & Studded Tubes, Sealing Technology Products, and Compressed Fiber Jointing Sheets.*

Since its establishment in 1983 Arezda has been servicing the *Petroleum / Oil & Gas, Petrochemical, Chemical, Power,* and other process industries throughout the country.

For over 30 years of its operation, with creative innovation, and investment in people, equipment, and technology, Arezda has the experience and the professional expertise in this special field of business.



5 Hectares of factory complex in Citeureup, Bogor, West Java, Indonesia

We are expanding our business ever since and are now proud to introduce our new manufacturing division :

Ferrous & Nonferrous
SEAMLESS TUBE
Manufacturing Division

which is established at the same venue with other manufacturing divisions, and being operated under the same Flag of PT. Arezda Purnama Loka. We also export quite a few of our products to buyers overseas. We thank all of our national and international customers for their continuous trust and loyal support in using our **<INGI> Products** from year to year.

Specifications

PT. Arezda Purnama Loka, under **STI** Brand produces the following specifications of tubes:

Tube OD	0.5" to 3"
Tube Thickness	0.8 - 4.5 mm (or as per customer's request)
Tube Length	up to 16 m (or as per customer's request)

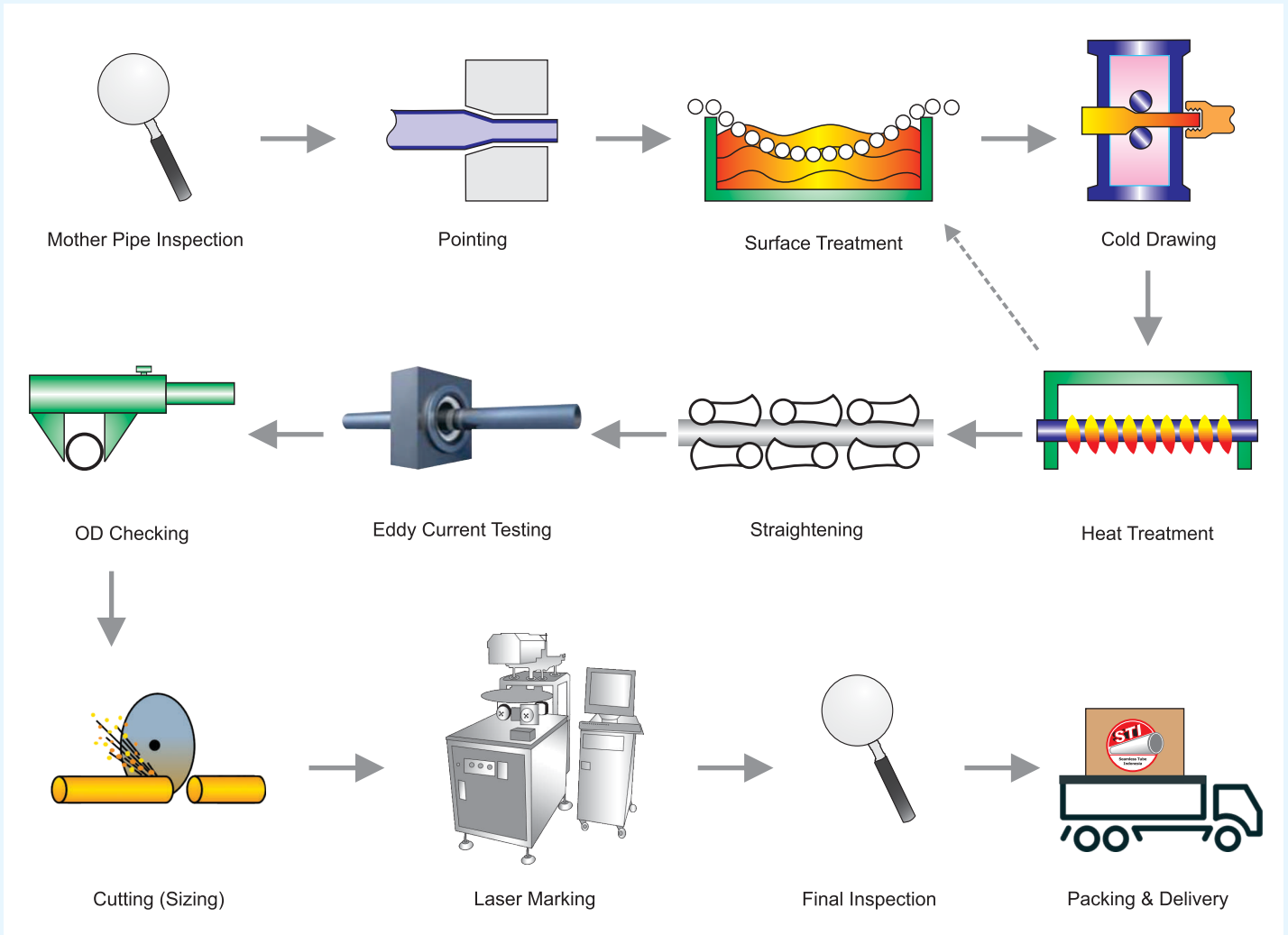
ASTM / ASME Material Grade Standards

Carbon Steel	SA-179 SA-192 SA-210
Ferritic / Austenitic Alloy Steel	SA-213 T5 / T9 / T11 / T12 / T22 TP304 / TP304L / TP316 / TP316L / TP321 / TP347 SA-268 TP410 / TP430
Copper / Copper Alloy	SB-111 C44300 / C61400 / C68700 / C70600 / C71500
Titanium	SB-338 Gr.2 / Gr.7
Aluminium	Various.

Advantages:

1. By drawing from a large inventory of first class raw materials from certified companies only, we can deliver high quality products to suit different customer's requirements.
2. **Arezda** has on-site facility to produce long tubes, "U-bent" tubes, and finned tubes according to client's requirements.
3. Items not listed in our present catalogue may be manufactured upon special request.

Cold-Drawn Production Flowchart



Quality Assurance

Excellent Quality makes *Arezda* a Great Achievement

Arezda has a wide variety of production facilities that allow greater flexibility in the production of tubes. To maintain continuous quality assurance and ensure prime quality products, **Arezda** adopts and pursues high standards of continuous quality management throughout the entire production processes. Tubes are verified for tolerances on size, thickness, surface quality, chemical & mechanical properties, and other metallographic inspections. Quality Certification is done at our own facility through various tests and inspections according to international standards and as per customer's requirements.

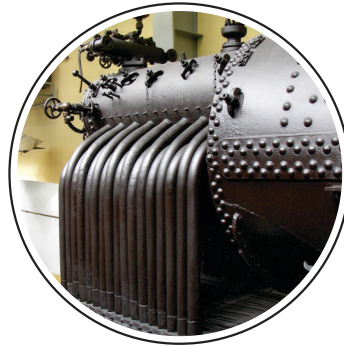
Facilities	Name	Facilities	Name
	LABORATORY NDT, Chemical and Mechanical Properties		Eddy Current Testing Machine
	Universal Testing Machine (UTM)		Surface Roughness Tester
	Hardness Testing Equipment		Metallographic Microscope
	Spectrometer		Positive Material Identification (PMI)

Other test facilities and treatment of materials are also available right at our workshop such as **Hydrostatic Test Facilities** covering Barton Chart and Pressure Gauge of various ranges including the temperature gauge, **Heat Treatment Facilities**, **Surface Treatment**, **Anti Corrosion**, etc.

Applications

Tubes for the Petroleum / Oil and Gas Industries

Refineries/Petroleum Cracking
Exploration & Production
Pressure Vessels
Furnace Tubes

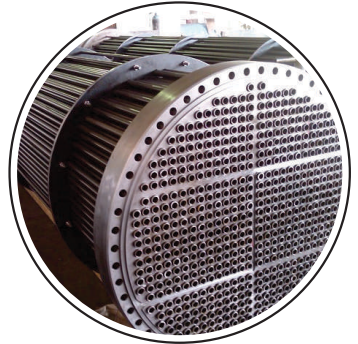


Tubes for Petrochemical / Chemical Industries



Tubes for Heat Recovery & Power Production

Super Heater Boilers
Economizers
Heat Exchangers
Reheaters



Automotive (Cars & Motorcycles)

Precision Steel Tubes
Cylinder Tubes
Hydraulic Tubes
High Pressure Oil Pipes /
Tubes for Diesel Engines



Seamless Tubes are widely used in various other industries such as textile, medical, food, machinery, and other industrial corrosion-resistant piping and structural construction.

Wall Thickness Standard

Wire Gauges

(1 inch = 25.4 mm)

Gauge	BWG		LSWG		BG		USG	
	No.	inch	mm	inch	mm	inch	mm	inch
3/0	0.425	10.80	0.372	9.449	0.500	12.70	0.375	9.525
2/0	0.380	9.652	0.348	8.839	0.445	11.30	0.344	8.731
0	0.340	8.636	0.324	8.230	0.396	10.06	0.313	7.938
1	0.300	7.620	0.300	7.620	0.353	8.966	0.281	7.144
2	0.284	7.214	0.276	7.010	0.315	8.001	0.266	6.747
3	0.259	6.579	0.262	6.041	0.280	7.112	0.250	6.350
4	0.238	6.045	0.232	5.893	0.250	6.350	0.234	5.953
5	0.220	5.588	0.212	5.385	0.223	5.664	0.219	5.556
6	0.203	5.156	0.192	4.877	0.198	5.029	0.203	5.159
7	0.180	4.672	0.176	4.470	0.176	4.470	0.188	4.763
8	0.165	4.191	0.160	4.064	0.157	3.988	0.172	4.366
9	0.148	3.759	0.144	3.658	0.140	3.556	0.156	3.969
10	0.134	3.404	0.128	3.251	0.125	3.175	0.141	3.572
11	0.120	3.048	0.116	2.946	0.111	2.827	0.125	3.175
12	0.109	2.769	0.104	2.642	0.099	2.517	0.109	2.778
13	0.095	2.413	0.092	2.337	0.088	2.240	0.094	2.381
14	0.083	2.108	0.080	2.032	0.079	1.994	0.078	1.984
15	0.072	1.829	0.072	1.829	0.070	1.775	0.070	1.786
16	0.065	1.651	0.064	1.626	0.063	1.588	0.063	1.583
17	0.058	1.473	0.056	1.422	0.056	1.412	0.056	1.429
18	0.049	1.245	0.048	1.219	0.050	1.257	0.050	1.270
19	0.042	1.067	0.040	1.016	0.044	1.118	0.044	1.111
20	0.035	0.889	0.036	0.914	0.039	0.996	0.038	0.953
21	0.032	0.813	0.032	0.813	0.035	0.887	0.034	0.873
22	0.028	0.711	0.028	0.711	0.031	0.795	0.031	0.794
23	0.025	0.635	0.024	0.610	0.028	0.706	0.028	0.714
24	0.022	0.559	0.022	0.559	0.025	0.630	0.025	0.635
25	0.020	0.508	0.020	0.508	0.022	0.559	0.022	0.556
26	0.018	0.457	0.018	0.457	0.020	0.498	0.010	0.476
27	0.016	0.406	0.016	0.417	0.018	0.445	0.017	0.437
28	0.014	0.356	0.015	0.376	0.016	0.396	0.016	0.397
29	0.013	0.330	0.014	0.345	0.014	0.353	0.014	0.357
30	0.012	0.305	0.012	0.315	0.012	0.312	0.013	0.318
31	0.010	0.254	0.012	0.295	0.011	0.279	0.011	0.278
32	0.009	0.229	0.011	0.274	0.010	0.249	0.010	0.258
33	0.008	0.203	0.010	0.254	0.009	0.227	0.009	0.238
34	0.007	0.178	0.009	0.234	0.008	0.196	0.009	0.218
35	0.005	0.127	0.008	0.213	0.007	0.175	0.008	0.198

BWG = Birmingham (or stubs iron) Wire Gauge
 SWG or LSWG = British Imperial Standard Wire Gauge or Legal Standard Wire Gauge
 BG = Birmingham Gauge
 USG = United States Standard Gauge



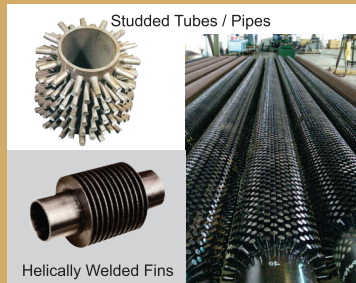
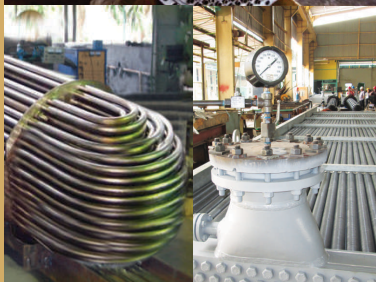
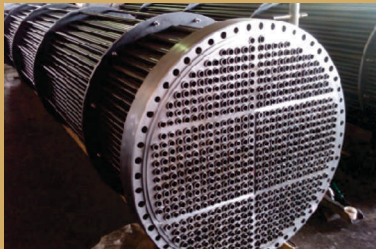
Arezda Manufacturing Divisions

Pressure Vessels

Finned Tubes
(Extended Surface Tubing)

Sealing Tech. Products
& Jointing Sheets

Ferrous & Nonferrous
Seamless Tubes



Studded Tubes / Pipes



Helically Applied & Extruded Fins



Produksi
Dalam Negeri

PT. AREZDA PURNAMA LOKA

Pressure Vessels **Fabrication**, Finned Tubes, Sealing Tech. Products,
Jointing Sheets, and Seamless Tubes **Manufacturing**

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