

METAMORPHOSIS
ENGITECH INDIA PVT. LTD.

Precision Tubes & Beyond

About Us



Metamorphosis Engitech India Pvt. Ltd is one of the leading manufacturers of high-quality welded precision tubes and tubular products. Established in 2018, with the brand name Meta Engitech and it is emerged as a reputed brand in the precision welded tube industry. We are pioneer in manufacturing of precision welded tubes, value added tubes and tubular products.

Meta Engitech is led by Mr. Girish Kulkarni (Director) and Mr. Hemant Agarwal (CEO & Director) with rich experience of more than 30 years in various industries and comprising a team of exceptionally qualified and experienced experts from the industry. Meta Engitech is promoted by a group of investors committed to building up a long-term & strong financial base for the company.



Vision-

To emerge globally as the best value creator of tubes & tubular products.

Mission-

Innovation & Business Excellence at its core, we stand committed to deliver a quality product which ensures total customer satisfaction & value for money.

Company Overview -

We make a wide range of tubes and tubular products at our sprawling units based in Sanaswadi and Pimple Jagtap, Pune, India with total built-up area of 41,000 Sq. mtrs. We are strategically located at just 31 kms from Pune Airport, and 193 kms from Mumbai dock enhancing our ability to deliver products promptly all over the country and the world. Meta Engitech has 75000+ tonnes of installed capacity per annum (TPA) of ERW & CEW tubes and tubular products of which 40,000 + TPA is ERW tubes and 35,000+ TPA is CEW tubes.

Offerings -

Meta Engitech has a well-diversified product portfolio comprising.

Electric Resistance Welded (ERW) Tubes.
OD Range: 12.7mm-114.3mm
Thickness: 0.90mm – 8.50mm

Cold-drawn Electric Welded (CEW) / Drawn Over Mandrel (DOM) Tubes.
OD Range: 8 mm – 112 mm
Thickness: 0.90mm – 8.00mm

Value-added tubular components.

Market Segments-

Owing to our flawlessly engineered products and immaculate services & solutions, in just a few years, Meta Engitech has served over 200+ domestic and international customers from the Automobile, Power & Energy, Construction & Mining, and Agriculture & Farming Industry. Today, we are present in Europe and US market and expanding our footprints in other geographical areas.

Applications

Drive Shaft



High reliability & strength
Conformance to International manufacturing standards
Available in customized forms.

Air Preheater



Air Preheater tubes are essentially a type of heat exchanger tubes made of Corten Steel used for the purpose of heating air, which is further used in other applications like Boilers, Dryers etc. These tubes are dimensionally accurate, resistant to abrasion & conforms to BS 3059/6323, SA 423 & global manufacturing standards.

Gas Springs



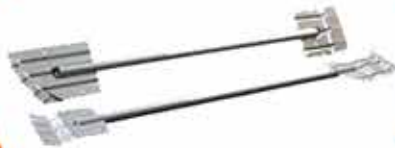
Application in Automobiles (especially in passenger cars/buses), Marine applications, Furniture & General Engineering Industries.

Bright Annealed Fluid Tubing / Feeder Pipe



Conformance to global manufacturing standards SAE J525, EN 10305-6

Door Intrusion Beam / Side Impact Beam



Available in HSLA (High Strength Low Alloy) and Medium Carbon Steel with better formability
& Strength with conformance to global manufacturing standards.

Self-Drilling Anchor Bolt



Made from high tensile steel (C- 45) to cater challenging applications in construction industry.

Applications

Engine Rocker Shaft



Made from C-45 material with a challenging Diameter to Thickness Ratio (up to 4) which is difficult to form. Bar to Tube Conversion a Value Analysis and Value Engineering Initiative.

Hydroformed Tubes



Tubes made from high strength steel to make intricate shapes through hydroforming at extremely high pressure.

Hollow Piston Rod



Made from E355/ST-52 with very low Diameter to Thickness Ratio (up to 3) for Automobile & General Engineering application. Bar to Tube Conversion a Value Analysis and Value Engineering Initiative.

Stabilizer Bar (Also called as Sway Bar/Anti-Roll Bar)



Material Grade: Boron Steel (26MnB5, 34MnB5)
Conformance to European Standard
Suitable for intricate forming & for further hardening.
Available in wide range of sizes.

Hydraulic Cylinder (H8, H9 & SRB)



Manufactured with conformance to global standards (BKS - E355 + C/ SR, EN 10305 – 2, ASTM A 513 S.S.I.D)
First in Precision Welded Tube Industry Hydraulic Cylinder tube with H8 tolerance with $Ra \leq 0.3$ microns
Also, in offer Hydraulic Cylinder Tube with H9 tolerance with $Ra \leq 0.6$ microns
Ready to use tubes which saves expensive honing cost.

Telescopic Front Fork



Made from medium carbon steel SAE 1541 for critical 2-wheeler application with high tensile strength and impact/shock resistance properties

Size Matrix ERW Tube

		Thickness in Inch/MM																					
	INCH	0.049	0.058	0.065	0.072	0.083	0.095	0.102	0.109	0.120	0.128	0.134	0.156	0.172	0.188	0.203	0.219	0.236	0.250	0.282	0.313	0.335	
INCH	MM	1.24	1.47	1.65	1.83	2.11	2.41	2.59	2.77	3.05	3.25	3.40	3.96	4.37	4.78	5.16	5.56	5.99	6.35	7.16	8.00	8.50	
Outer Diameter in Inch/MM	0.500	12.70																					
	0.625	15.88																					
	0.750	19.05																					
	0.875	22.23																					
	1.000	25.40																					
	1.125	28.58																					
	1.250	31.75																					
	1.375	34.93																					
	1.500	38.10																					
	1.625	41.28																					
	1.750	44.45																					
	1.875	47.63																					
	1.913	48.59																					
	2.000	50.80																					
	2.250	57.15																					
	2.375	60.33																					
	2.500	63.50																					
	2.750	69.85																					
	3.000	76.20																					
	3.500	88.90																					
	4.000	101.60																					
	4.500	114.30																					

Specification

American Standard	ASTM A513, A 513
Steel Grades	SAE1010, 1020, 1026, 1045, 1541
Delivery Condition	A.W.H.R., A.W.P.O., A.W.C.R.
European Standard	EN10305-3,5
Steel Grades	E155, E195, E235, E275, E355, E190, E220, E260, E320, E370, E420
Delivery Condition	+CR1, CR2, +A, +N
Japanese Standard	JIS G 3445
Steel Grades	STKM11, 12, 13, 14, 15, 16, 17, 18, 19, 20
Delivery Condition	A, B, C
Indian Standard	IS 3074:2015, IS 1923:2017
Steel Grades	ERW1, ERW2, ERW3, YST210, YST310
Delivery Condition	+C, +SR, +N, +A

Size Matrix Section Tube

Size(mm) Square	Thickness (mm)										
	0.90	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50
19											
20											
25											
30											
34.8											
38											
40											
40.5											
50											
50.8											
60											
80											
Rectangle	0.90	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50
25.40 X 12.70											
30 X 16											
30 X 20											
31.75 X 19.05											
35 X 15											
40 X 15											
40 X 25											
40 X 30											
50 X 20											
50 X 25											
50 X 30											
50.8 X 25.4											
60 X 40											
76.20X50.80											
80X40											
84.30X76.20											
85X44											
90 X 50											
100 X 50											
115 X 60											
115 X 69											

Specification

Indian standard	IS 4923:2017
Steel Grades	YSt 210, YST 240, YST 310
Delivery Condition	+C, +SR, +A, +N
European Standard	EN10305-5
Steel Grades	E-195, 220, 235, 260, 275, 320, 355
Delivery Condition	+CR1, CR2, +A, +N

Size Matrix CEW/CDW/DOM Tube

FINISHED WALL THICKNESS RANGE																					
Minimum	INCH	0.04	0.051	0.061	0.071	0.081	0.091	0.101	0.121	0.131	0.141	0.161	0.171	0.191	0.201	0.221	0.241	0.252	0.272	0.284	0.296
Maximum	INCH	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.130	0.130	0.160	0.170	0.190	0.200	0.220	0.240	0.250	0.270	0.283	0.295	0.315
Minimum	MM	1.02	1.30	1.55	1.80	2.06	2.31	2.57	3.07	3.33	3.58	4.09	4.34	4.85	5.11	5.61	6.12	6.40	6.90	7.21	7.51
Maximum	MM	1.27	1.52	1.78	2.03	2.29	2.54	2.79	3.30	3.30	4.06	4.32	4.83	5.08	5.59	6.10	6.35	6.85	7.20	7.50	8.00
OD RANGE																					
Min	Max	Min	Max																		
MM	MM	INCH	INCH																		
8.99	11.10	0.354	0.437																		
11.13	12.65	0.439	0.498																		
12.70	14.25	0.500	0.561																		
14.27	15.85	0.562	0.624																		
15.88	19.00	0.626	0.749																		
19.02	20.60	0.749	0.812																		
20.62	23.75	0.812	0.936																		
23.77	27.03	0.937	1.065																		
27.05	33.30	1.066	1.312																		
33.32	38.05	1.313	1.499																		
38.07	39.67	1.500	1.563																		
39.70	42.85	1.564	1.688																		
42.88	45.24	1.689	1.782																		
45.26	47.34	1.783	1.865																		
47.37	49.20	1.866	1.938																		
49.23	52.35	1.940	2.063																		
52.37	60.33	2.063	2.377																		
60.35	66.68	2.378	2.627																		
66.70	76.20	2.628	3.002																		
76.23	82.52	3.003	3.251																		
82.55	88.90	3.252	3.503																		
88.93	95.25	3.504	3.753																		
95.28	101.60	3.754	4.003																		
101.60	108.00	4.003	4.255																		

Specification

American Standard	ASTM A 513, Type 5,6
Steel Grades	SAE1008, 1010, 1020, 1026, 1040, 1541, 1045
Delivery Condition	S.D.H.R., S.D.C.R., D.O.M., S.S.I.D.
European Standard	EN10305-2,6, EN 10138, E155, E195, E235, E275, E355, 34MnB5, 26MnB5, 590DP, E190, E220, E260,
Steel Grades	E320, E370, E420
Delivery Condition	+CR1, CR2, +A, +N
Japanese Standard	JIS G 3445/ JIS G 3446
Steel Grades	STKM11, 12, 13, 14, 15, 16, 17, 18, 19, 20 A, B, C
Indian standard	IS 3074:2015 CEW1, CEW2, CEW3 AD, +SR, +N, +A

Quality Assurance

The nature of our products is guaranteed by stringent process control during all phases of manufacturing. It begins with slitting activity, forming of the tube, and Automated temperature control during the High- Frequency Induction Welding (HFIW), trailed by Online Eddy Current testing with Auto Sorting mechanism.

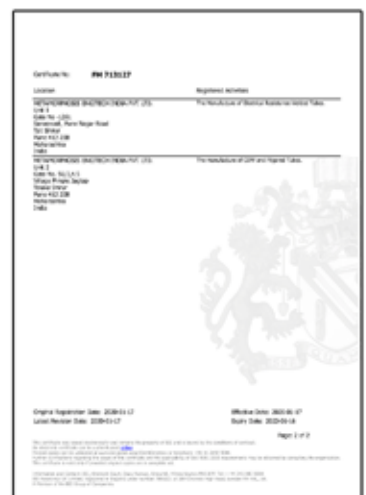
Quality control test includes the following:

- Micro examination of Weld
- Spectro test
- Flaring test
- Full Flattening
- Hydrostatic testing
- 100 % NDT (ECT)

Our in-house testing laboratory is equipped with modern facilities to carry out the various tests:

- Online and offline NDT.
- Borescope to inspect the ID of the tube.
- Well-equipped QA facilities to ensure conformation to quality for all our products.
- Coordinate Measuring Machine (CMM)

Certifications





CONTACT



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Website