

HEAVY METAL & TUBES LTD.®

www.heavytubes.com



Line Pipes | Boiler Tubes | OCTG | Mechanical Tubes | Hydraulic Tubes

Infrastructure

We Fulfill Customer Aspirations Worldwide
with Exceptional Quality Products since 1978.



Products

- Line Pipes
- Boiler Tubes
- OCTG
- Mechanical Tubes
- Hydraulic Tubes
- Structural Tubes
- Tubular Products for Defense & Aero Space
- Cylindrical Tubes

Certificates

- ISO 9001 : 2015
- ISO 14001 : 2015
- OHSAS 18001:2007
- ADW / AD 2000 W0
- PED
- CPD
- API 5L / 5CT
- Well Known Tube / Pipe Maker under the Indian Boiler Regulations' 1950



About Us

HMTL HFS Unit has been commenced and commissioned with state-of-the-art manufacturing process of Cross Roll Piercing, Accu Rolling, SRM technology in Dec 2011 and produces various Carbon & Alloy Steel Grades of Seamless Tubular products. Cross Roll Piercing process begins with piercing of a hot round bar cut piece on the piercer, followed by Accu Roll for precision dimensional control of intermediate product, hollow cylindrical shell. Finally, the dimensions are controlled within specified variations on the Stretch Reducing Mill(SRM). This process minimizes longitudinal and transverse defects in pipes and tubes. It also ensures better control over wall thickness variations as compared to other manufacturing process.

HMTL manufactures a variety of OCTG products such as Casings, Tubing, PUP Joints, Coupling Stock, Finished coupling (API) and specialized tubes for various mechanical applications in Boilers and Boiler components, Economizers, Heat Exchangers and pipes used for cryogenic applications. These items can be customized to the requirement of individual customers in term of heat treatment and end finishes.

HMTL has introduced Pilger Mill with annual production capacity of 12000MT p.a. to manufacture mechanical, hydraulic, boiler tubes, etc. This multistep forming process guarantees high quality seamless tubes. This process greatly improves materials grain structure & due to multi step reduction process from larger diameter of preexisting tube into smaller diameter tube yields excellent outside & inside surface and closed eccentricity quality tubes.

Totals Quality Management (TQM)-Total Quality Management is the key to HMTL'S phenomenal success. All the stages of manufacturing are thoroughly planned, closely monitored, and professionally executed involving QC INSPECTION & TESTING PARAMETERS by our qualified, experienced & skilled QC personnel with ETHOS of NO COMPROMISE WITH QUALITY STANDARD.

The company gives immense importance to high ethical values in business & believes in healthy long term business relationship with customers, suppliers & vendors. On time, anytime & every time, consistent delivery of good quality products is now taken as guarantee from HMTL by its customer. Ensuring 100% customer satisfaction is always at the heart of everything that company does and nothing less will be accepted by the Management.



Growth through Innovation

API 5L / Line Pipes / Boiler Tubes / Hollow Pipes

The Hot finish Seamless Carbon Steel & Alloy Steel Division is equipped with latest machineries and all processes are fully automatic with on line ultrasonic & Eddy current testing & latest testing facilities for Chemical & Mechanical testing to meet the customer requirements.

CROSS-ROLL PIERCING-ACCU ROLLING -SRM TECHNOLOGY FOR HFS-HMTL UNIT-III

This is the State-of-the-art manufacturing process for high quality seamless pipes and tubes. All the operational points of manufacturing involves through closely monitored and professionally executed, to meet the requirements of clients and various third party inspection agencies. The Raw Material steel round Bars selected for HFS tubular products are ensured within the framework of our internal stringent HMTL TDC & Manufacturing Design package encompassing the specific requirement mentioned in P.O. conforming to the highest quality standard.

This process begins with heating of round bars steel between Temperature range 1150-1250°C in a rotary Hearth Furnace



which passes through a Cross- roll piercing Mill where solid round bar steel is converted into cylindrical elongated hollow shells. These hollow shells are passed through Accu roll mill governed two guided disk monitored by power pack system where high precision mandrel inside the hollow moves along with pipe during rolling, which ensures of maintaining precision dimensional variation smooth inside surface finish of elongated shells. These hollow shells are re heated in WBF AT 900 to 950°C prior to passing through 24 stand SRM (Stretch Reducing Mill) where Final size, dimension and surface finish of HFS TUBULAR PRODUCT is achieved.

The process minimizes longitudinal & transverse defects in pipes & tube. It also ensures better control over wall thickness variation as compared to other manufacturing process.

MANUFACTURING RANGE

OD : 26.67mm to 168.3 mm

THK : 3.2 mm to 25 mm

Length : Upto 27 Meters depending upon size

GRADE & SPECIFICATIONS

ASTM/ASME A/SA 192, 106/53 (Gr. A/B/C/), 210 (Gr. A1/C) , A213 (Gr. T2, T5, T9, T91, T11, T12, T22), 335 (Gr. P1, P2, P5, P9, P91, P11, P12, P22), 335 (Gr. 1 & 6) DIN 17175 (st35.8, st45.8, st52, 16Mo3, 13CrMo44, 10CrMo44, 10CrMo910), BS 3059, BS 6323, BS 3602, API5L, 5CT, 5DP, 4130, 1008-1060 etc....

28 Mn 6, S235JRH, S275JOH, S275J2H, S355J2H, S355K2H, S275NH, S275NLH, S355NLH, S420NH, S420NLH, S460NH, S460NLH, St52 etc...

CAPACITY

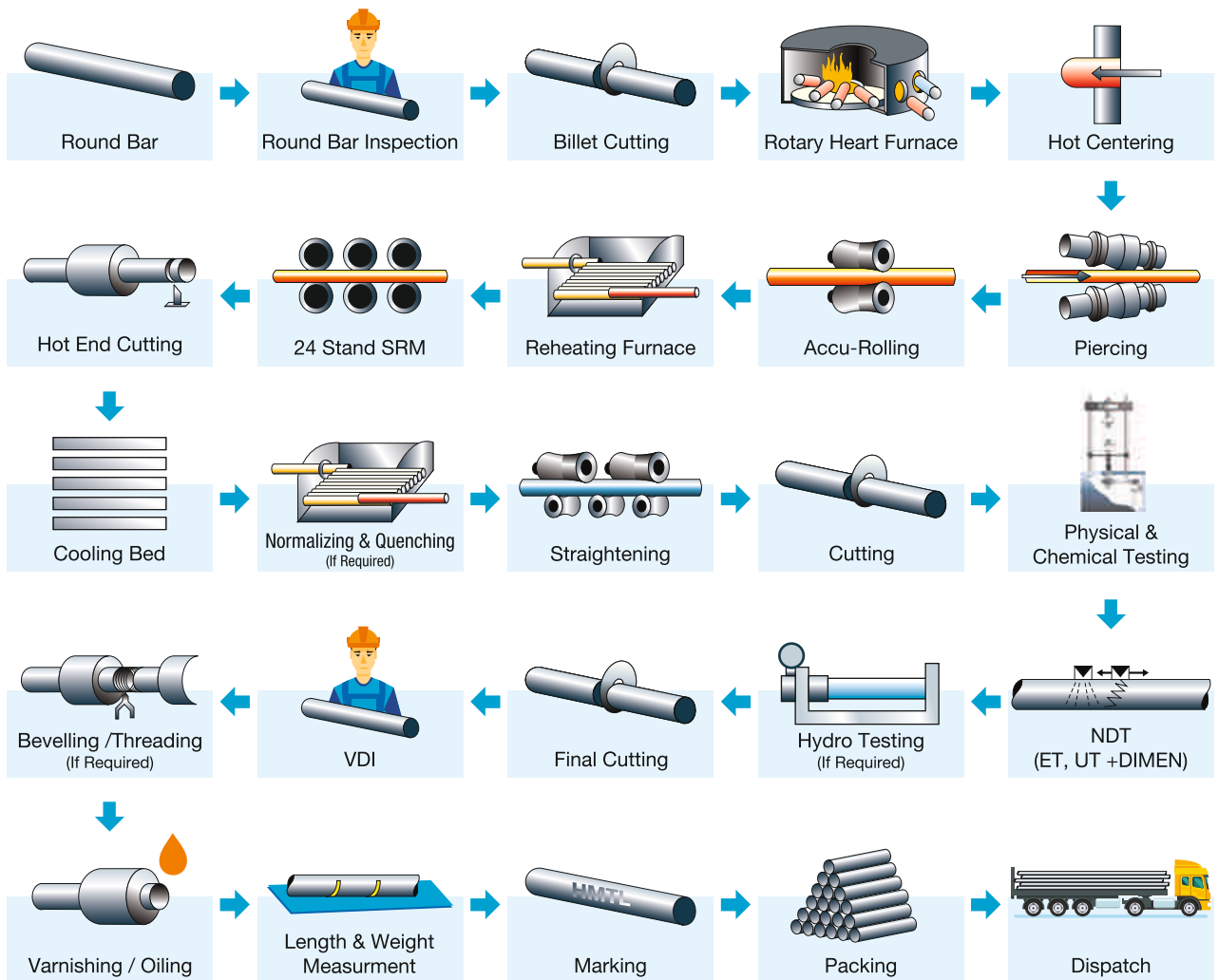
75,000 MTPA

Other Specification / Grades can be supplied as per customer's requirements



API 5L / Line Pipes / Boiler Tubes / Hollow Pipes

FLOW CHART



Cold Pilgering

Cold pilgering is a longitudinal cold-rolling process that reduces the diameter and wall thickness of metal tube in one process step. Depending on the material, the cold pilger process achieves cross-section reductions of more than 80 percent in a single working cycle.

Benefits from the Cold Tube Rolling Process

- High Range of Cross-Sections
- The large cross-section reductions help to limit process-related conversion costs, because cold pilgering eliminates additional processes such as cleaning, annealing, pickling, cutting, handling, and straightening between drawing operations.
- No Process-Related Material Losses
- Improved Product Eccentricity
- Close Diameter and Wall Thickness Tolerances
- Excellent Surface Condition
- Better Microstructure

PRODUCTS

- Mechanical Tubes
- Boiler Tubes
- Cylindrical Tubes
- Hydraulic Tubes
- Structural Tubes

MANUFACTURING RANGE

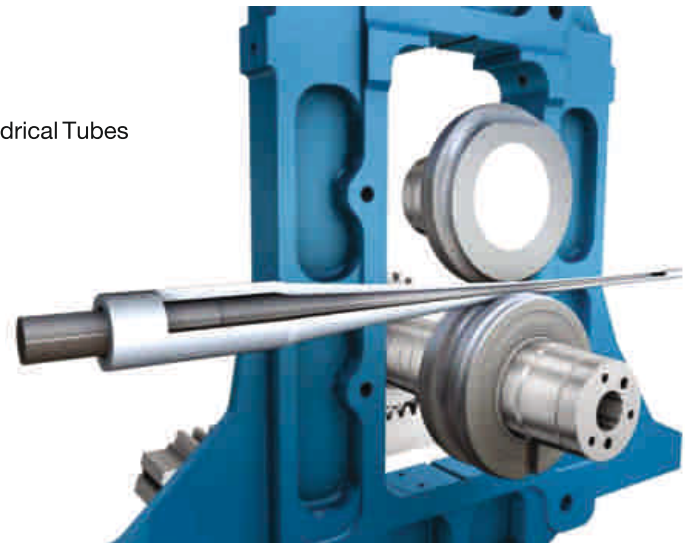
OD - 38.1 to 127 mm

Thickness - 3.00 to 20.00 mm

Length - 35 Mtrs. Max

CAPACITY

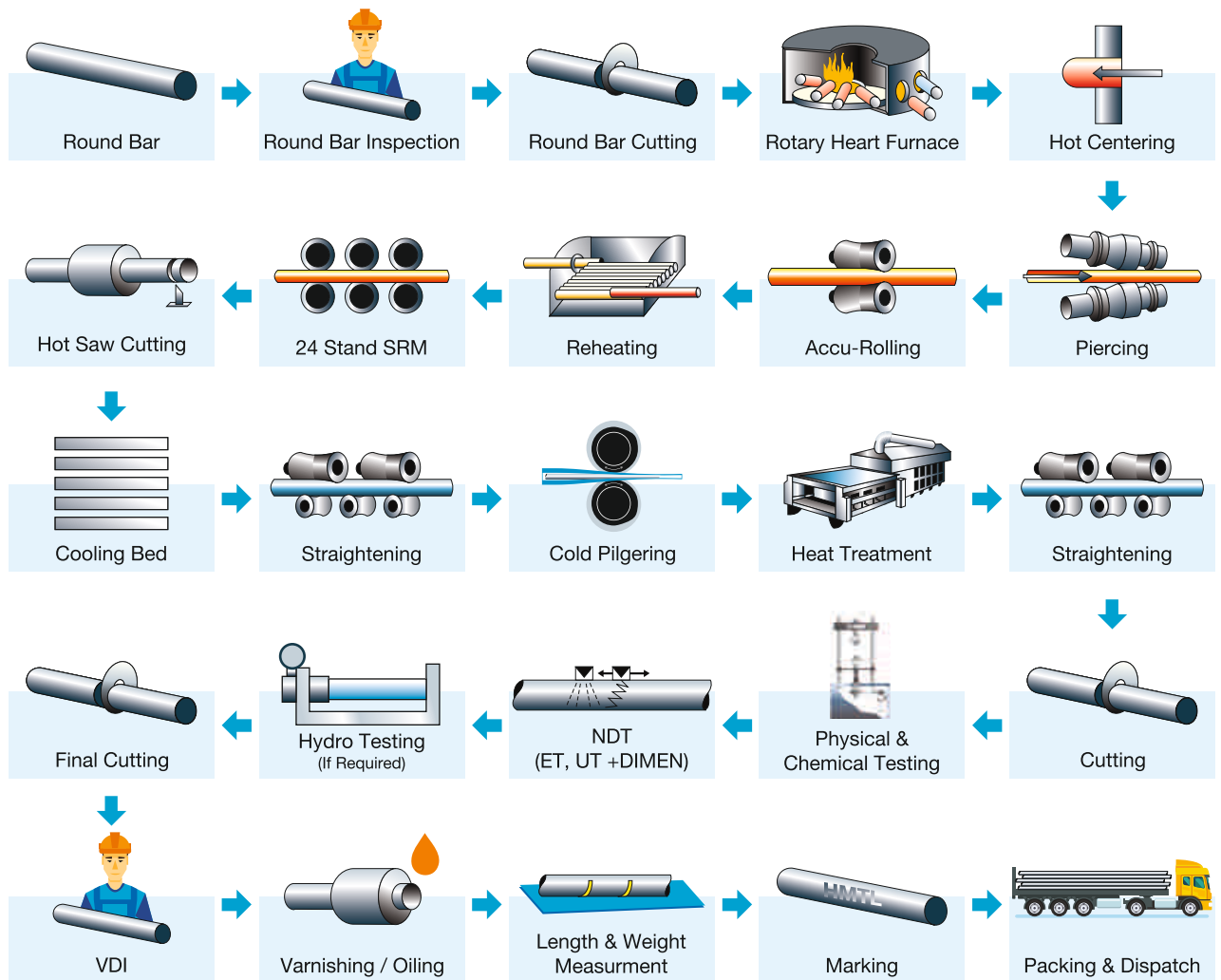
12000 MTPA





Cold Pilgering

FLOW CHART



API 5CT

Seamless Tubes and Tube Based Products for Application in the Oil & Gas Industries

HMTL manufactures a variety of OCTG products such as Line Pipes conforming to Spec. API 5L & Casings, Tubing's, Couplings Stock, Finished Coupling (API) & PUP Joints conforming to Spec. API 5 CT.

HMTL is accredited by License No. 5L-1079 & 5CT-1824 for our products & HMTL is authorized to use API MONOGRAM For specification API 5L & API 5 CT.



PRODUCTS

- Casing
- Tubing
- Coupling
- PUP Joints
- Cross Over



MANUFACTURING RANGE

HMTL manufactures and supplies PLAIN END LINE PIPES conforming to "Spec. API 5L" Highest Grade X70 Under PSL-1 and X60Q Under PSL-2 up to 4½"

CAPACITY

18,000 MTPA

Other Specification / Grades can be supplied as per customer's requirements.



API 5CT

CASING

HMTL Manufactures threaded and coupled API Casings upto 5” inches in J, K, L, N & P Grades . (both normal and high collapse requirements).

OD	PPF Range	API 5CT
4½"	10.5-15.1	Thread Type : BTC/LTC/STC
5"	13-24.1	



TUBING

HMTL Manufactures threaded and coupled API TUBING upto 41/2” inches in the grades of J, K, L, N and P.

OD (Inches)	END CONDITION	WEIGHT lb/ft (ppf)
1.050	PE/NUE/EU T&C	1.14-1.54
1.315	PE/NUE/EU T&C	1.70-2.24
1.900	PE/NUE/EU T&C	2.40-3.73
2.063	PE/NUE/EU T&C	3.24-4.50
2 3/8	PE/NUE/EU T&C	4.00-7.45
2 7/8	PE/NUE/EU T&C	6.40-9.45
3½	PE/NUE/EU T&C	7.70-12.95
4	PE/NUE/EU T&C	9.50-11.00
4½	PE/NUE/EU T&C	12.60-12.75



COUPLING

HMTL manufacture finished machined couplings for Casings, Tubings and LINE Pipes.

Specifications*	End Types	Application
5L		Line pipes
5CT, 5B	EUE,NUE	Tubing
5CT, 5B		Casing Pipes



PUP JOINTS

HMTL Manufactures threaded and coupled API PUP Joints up to 4 1/2” inches in the grades J, L, N & P within 1.8 meters length.

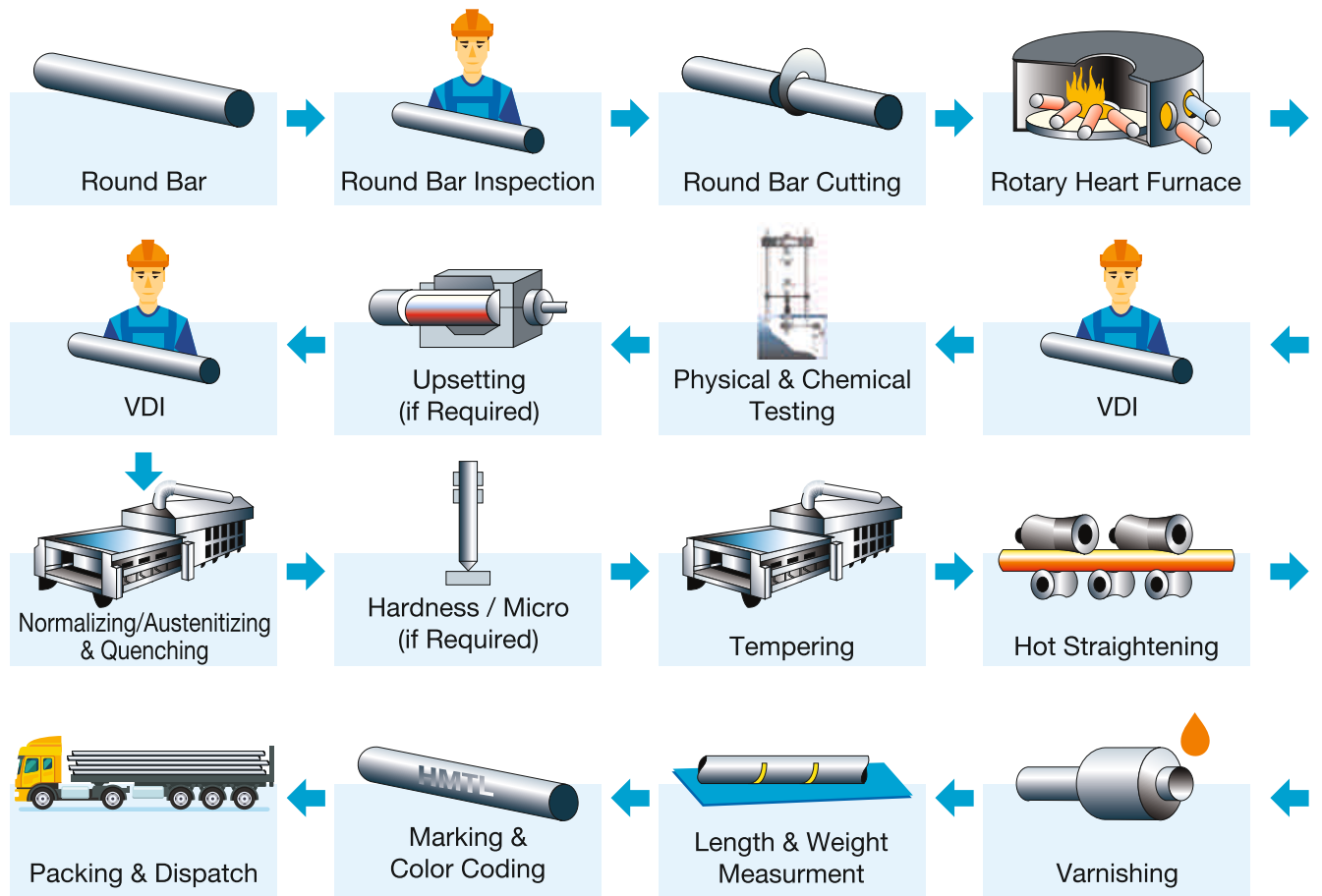
CROSS OVER

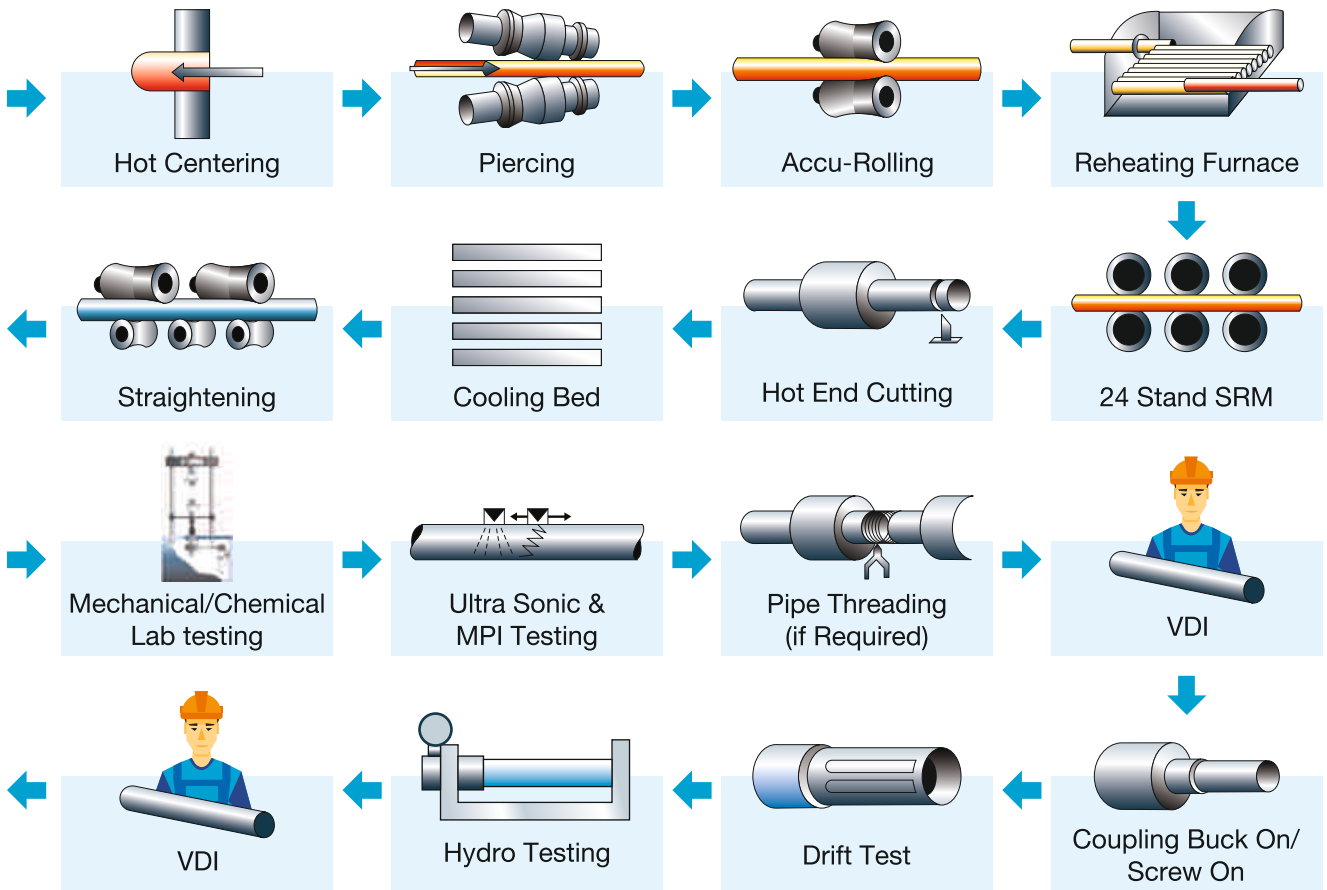
HMTL is accredited by API with License no. 5CT-1824 as a threaders thus making HMTL a Flagship company equipped with latest machineries (CNC) and facilities with the state of the art technology capable to manufacturer crossover to meet the demands of various oil sectors by manufacturing crossovers.



Line Pipes / Boiler Tubes / Hollows / APT 5CT Process

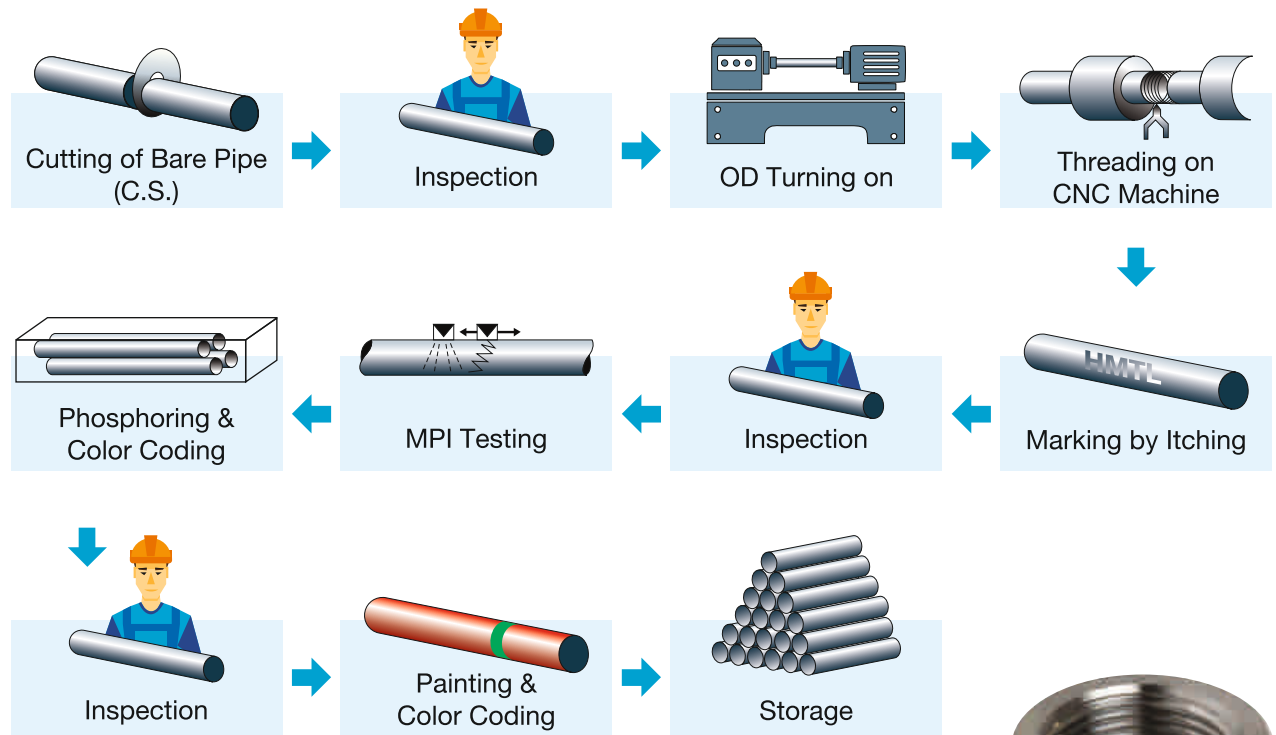
FLOW CHART





Coupling

FLOW CHART



Packing

Different types of packing methods are adopted by HMTL, depending on the customer's need and type of product. Some of them are given in attached photographs.

Standard Packing Chart

Sr.	Type of Packing	Applicability
1	Hessian / PVC Cloth Bundles with PVC Box Strap or Hexagonal Bundles Details not given in Customer's Order.	As Per Customer Requirement. Regular Packing when Packing
2	For OCTG Product Hexagonal Packing	With Metallic Thread Protector or Composite Type Plastic as described in Annexure I-5CT
3	Bare Tubes Bundles	For Big Diameter & Heavy Thickness Piping Material
4	Tubes Bundles with PVC Film and Plywood Sheets on the Bundles.	For Export Tubes Bundles.

Notes:

- (1) Selection of type of packing depends on customers need as specified in customer's purchase order. If nothing is specified in the customer purchase order, our standard packing style is followed.
- (2) All the tubes are supplied with standard end capes on both ends. Special types of end caps are supplied if required by customer.
- (3) Care is taken during handling & packing of thin tubes to prevent dent & scratches.
- (4) Shipping Marks are attached to each Wooden Crate, Wooden Box and Bundle packing.



Quality Assurance : Our Hallmark

Quality is the hallmark of the business strategy of HMTL, strict adherence to the policy of "No Comparison with quality" is reflected by its stringent control over procurement of raw material, process control, streamlined distribution network & fast delivery of finished products.

HMTL having Licensing & Certification to use API MONOGRAM for Casing, Tubing and Line pipes from American Petroleum Institute (API)-USA. HMTL having Certificate of Approval as Well Known Pipe and Tube Maker from Central Boiler Board. N Delhi.



Quality assurance system implemented at HMTL covers all production stages, right from raw material stage to final finish & dispatch stage covering inspection & testing (if required) at each and every intermediate operational stages. The elements of Quality Assurance System are adhered with the requirements of various National & International Standards, codes & specifications and customers own Quality Assurance Requirements as well.



Certificates



Inspections & Testing Facility : Our Benchmark

Our in-house Inspection and Testing facilities and adherence to the stringent quality standard using sophisticated inspection & testing devices which include Hydrostatic Testing, NDT-Ultrasonic, Eddy Current and Magnetic Particle Inspection (MPI), For OCTG Products Duly calibrated from NABL Agencies – Ring gauges, Plug Gauges & Dial Gauges for Thread inspection and other Laboratory Inspection/Testing facilities like Spectrometer, Metallurgical Microscope, UTM, CVN Impact Testing up to Sub Zero Temp. -100°C, TPP, Rockwell & BHN Hardness Testers, PMI and Muffle furnace helped HMTL to benchmark itself, amongst one of the best well known manufacture and supplier of seamless pipes & tubes world over.

Quality Control

NON DESTRUCTIVE TEST	DESTRUCTIVE TEST
Eddy Current Test	Flaring Test
Hydrostatic Test	Hardness Test
Ultrasonic Testing	Reverse Bend Test
Metalgraphy Test	Flattening Test
Visual Inspection	Corrosion Test
DP / MP / RF ECT Testing	Impact / Tensile Test

NON-DESTRUCTIVE Testing Machines :

Online testing of tubes/ pipes by Ultrasonic Testing & Eddy Current Method to check dimension, length and other defects.

Ultrasonic	
Type Rotating Probe Method	20 Channels
Longitudal Defect	8 Probes
Transverse Defect	8 Probes
Wall Thickness	2 Probes
OD & ID	2 Probes
Speed of Testing	Upto 20 Meters per Minute
Notch Depth	5% of Wall Thickness

Eddy Current: Encircling coil type with variable frequency



Carbon & Alloy Steel Seamless Tubes/Pipes Product Specifications

GRADE	CHEMICAL ANALYSIS(%)																MECHANICAL PROPERTIES			
	C	Si	Mn	P Max	S Max	Nb	V	Al tot.	Ti	Cr	Ni	Mo	Cu	Zr	N	CEV	Min Y.S(ReH)Mpa	T.S (Rn)Mpa		
SA 106 Gr A	0.25max	0.10 min	0.27-0.93	0.035	0.035		0.08 max			0.40 max	0.40 max	0.15 max	0.40 max	-	-	-	-	-	-	-
SA 106 Gr B	0.30max	0.10 min	0.29-1.06	0.035	0.035		0.08 max			0.40 max	0.40 max	0.15 max	0.40 max	-	-	-	-	-	-	-
SA 106 Gr C	0.35 max	0.10 min	0.29-1.06	0.035	0.035		0.08 max			0.40 max	0.40 max	0.15 max	0.40 max	-	-	-	-	-	-	-
SA 179	0.06-0.18	-	0.27-0.63	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SA 192	0.06-0.18	0.25max	0.27-0.63	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SA 210 Gr A1	0.27max	0.10 min	0.93max	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	255	-	415
SA 210 Gr C	0.35max	0.10 min	0.29-1.06	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	275	-	485
SA 209																				
Gr T1	0.10-0.20	0.10-0.50	0.30-0.80	0.025	0.025	-	-	-	-	-	-	0.44-0.65	-	-	-	-	-	205	-	380
Gr T1a	0.15-0.25	0.10-0.50	0.30-0.80	0.025	0.025	-	-	-	-	-	-	0.44-0.65	-	-	-	-	-	220	-	415
Gr T1b	0.14max	0.10-0.50	0.30-0.80	0.025	0.025	-	-	-	-	-	-	0.44-0.65	-	-	-	-	-	195	-	365
SA 213																				
T2	0.10-0.20	0.10-0.30	0.30-0.61	0.025	0.025	-	-	-	-	0.50-0.81	-	0.44-0.65	-	-	-	-	-	205	-	415
T5	0.15max.	0.50 max	0.30-0.60	0.025	0.025	-	-	-	-	4.0-6.0	-	0.45-0.65	-	-	-	-	-	205	-	415
T5b	0.15max.	1.00-2.00	0.30-0.60	0.025	0.025	-	-	-	-	4.0-6.0	-	0.45-0.65	-	-	-	-	-	205	-	415
T5c	0.12max.	0.50 max	0.30-0.60	0.025	0.025	-	-	-	-	4.0-6.0	-	0.45-0.65	-	-	-	-	-	-	-	-
T9	0.15max.	0.25-1.0	0.30-0.60	0.025	0.025	-	-	-	-	8.0-10.0	-	0.90-1.10	-	-	-	-	-	205	-	415
T11	0.05-0.15	0.50-1.0	0.30-0.60	0.025	0.025	-	-	-	-	1.0-1.5	-	0.44-0.65	-	-	-	-	-	205	-	415
T12	0.05-0.15	0.50 max	0.30-0.61	0.025	0.025	-	-	-	-	0.80-1.25	-	0.44-0.65	-	-	-	-	-	220	-	415
T22	0.05-0.15	0.50 max	0.30-0.60	0.025	0.025	-	-	-	-	1.90-2.60	-	0.87-1.13	-	-	-	-	-	205	-	415
T91	0.07-0.14	0.20-0.50	0.30-0.60	0.020	0.010	0.06-0.10	0.18-0.25	0.02max.	0.01 max	8.0-9.5	0.40 max	0.85-1.05	-	0.01 max	0.030-0.070	-	-	415	-	585
SA 335																				
P1	0.10-0.20	0.10-0.50	0.30-0.80	0.025	0.025	-	-	-	-	-	-	0.44-0.65	-	-	-	-	-	205	-	380
P2	0.10-0.20	0.10-0.30	0.30-0.61	0.025	0.025	-	-	-	-	0.50-0.81	-	0.44-0.65	-	-	-	-	-	205	-	380
P5	0.15max.	0.50max.	0.30-0.60	0.025	0.025	-	-	-	-	4.0-6.0	-	0.45-0.65	-	-	-	-	-	205	-	415
P5b	0.15max.	1.0-2.0	0.30-0.60	0.025	0.025	-	-	-	-	4.0-6.0	-	0.45-0.65	-	-	-	-	-	205	-	415
P5c	0.12max.	0.50max.	0.30-0.60	0.025	0.025	-	-	-	-	4.0-6.0	-	0.45-0.65	-	-	-	-	-	205	-	415
P9	0.15max.	0.25-1.0	0.30-0.60	0.025	0.025	-	-	-	-	8.0-10.0	-	0.90-1.10	-	-	-	-	-	205	-	415
P11	0.05-0.15	0.50-1.0	0.30-0.60	0.025	0.025	-	-	-	-	1.0-1.5	-	0.44-0.65	-	-	-	-	-	205	-	415
P12	0.05-0.15	0.50max.	0.30-0.61	0.025	0.025	-	-	-	-	0.80-1.25	-	0.44-0.65	-	-	-	-	-	220	-	415
P22	0.05-0.15	0.50max.	0.30-0.60	0.025	0.025	-	-	-	-	1.90-2.60	-	0.87-1.13	-	-	-	-	-	205	-	415
P91	0.08-0.12	0.20-0.50	0.30-0.60	0.020	0.010	0.06-0.10	0.18-0.25	0.02max.	0.01 max	8.0-9.5	0.40 max	0.85-1.05	-	0.01 max	0.030-0.070	-	-	415	-	585
SA 53 A	0.25max	-	0.95max	0.050	0.045	-	0.08max	-	-	0.40 max	0.40 max	0.15max	0.40 max	-	-	-	-	205	-	330
SA 53 B	0.30max	-	1.2max	0.050	0.045	-	0.08max	-	-	0.40 max	0.40 max	0.15max	0.40 max	-	-	-	-	240	-	415

Continued...

Carbon & Alloy Steel Seamless Tubes/Pipes Product Specifications

GRADE	CHEMICAL ANALYSIS(%)																MECHANICAL PROPERTIES			
	C	Si	Mn	P Max	S Max	Nb	V	Al tot.	Ti	Cr	Ni	Mo	Cu	Zr	N	CEV	Min Y.S(ReH)Mpa	T.S (Rn)Mpa		
SA 333																				
Gr 1	0.30max	-	0.40-1.06	0.025	0.025	-	-	-	-	-	-	-	-	-	-	-	205	-	380	-
Gr 3	0.19max	0.18-0.37	0.31-.64	0.025	0.025	-	-	-	-	-	3.18-3.82	-	-	-	-	-	240	-	450	-
Gr 4	0.12max	0.08-0.37	0.50-1.05	0.025	0.025	-	-	0.04-0.30	-	0.44-1.01	0.47-0.98	-	0.40-0.75	-	-	-	240	-	415	-
Gr 6	0.30max	0.10 min	0.29-1.06	0.025	0.025	-	-	-	-	-	-	-	-	-	-	-	240	-	415	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A519																				
1008	0.10max.	-	0.30-0.50	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1010	0.08-0.13	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1012	0.10-0.15	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1015	0.13-0.18	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1016	0.13-0.18	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1017	0.15-0.20	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1018	0.15-0.20	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1019	0.15-0.20	-	0.70-1.0	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1020	0.18-0.23	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1021	0.18-0.23	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1022	0.18-0.23	-	0.70-1.0	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1025	0.22-0.28	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1026	0.22-0.28	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1030	0.28-0.34	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1040	0.37-0.44	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1518	0.15-0.21	-	1.10-1.40	0.040	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4130	0.28-0.33	0.15-0.35	0.40-0.60	0.040	0.040	-	-	-	-	0.80-1.10	-	0.15-0.25	-	-	-	-	-	-	-	-
4135	0.32-0.39	0.15-0.35	0.65-0.95	0.040	0.040	-	-	-	-	0.80-1.10	-	0.15-0.25	-	-	-	-	-	-	-	-
4140	0.38-0.43	0.15-0.35	0.75-1.00	0.040	0.040	-	-	-	-	0.80-1.10	-	0.15-0.25	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 556 (Grade A2)																				
Grade A	0.18max	-	0.27-0.63	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	180	-	320	-
Grade B	0.27max	0.10min.	0.29-0.93	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	260	-	410	-
Grade C	0.30max	0.10min.	0.29-1.06	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	280	-	480	-
BS 3059/1																				
320	0.16max	0.10min	0.30-0.70	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	195	-	320	400
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BS 3059/2																				
243	0.12-0.20	0.10-0.35	0.40-0.80	0.035	0.035	-	-	0.12max	-	-	-	0.25-0.35	-	-	-	-	-	-	-	-
360	0.17max	0.10-0.35	0.40-0.80	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	235	-	360	500
440	0.12-0.18	0.10-0.35	0.90-1.20	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	245	-	440	580
620-460	0.10-0.15	0.10-0.35	0.40-0.70	0.030	0.030	-	-	-	-	0.70-1.10	-	0.45-0.65	-	-	-	-	275	-	480	630

Continued...

Carbon & Alloy Steel Seamless Tubes/Pipes Product Specifications

GRADE	CHEMICAL ANALYSIS(%)																	MECHANICAL PROPERTIES			
	C	Si	Mn	P Max	S Max	Nb	V	Al tot.	Ti	Cr	Ni	Mo	Cu	Zr	N	CEV	Min Y.S(ReH)Mpa	T.S (Rn)Mpa			
DIN 1615																					
St 33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	-	290	540
DIN 1626																					
St 37.0	0.17			0.040	0.040	-	-	-	-	-	-	-	-	-	0.009	-	-	235	-	350	480
St 44.0	0.21			0.040	0.040	-	-	-	-	-	-	-	-	-	0.009	-	-	275	-	420	550
St 52.0	0.22			0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	355	-	500	650
DIN 1628																					
St 37.4	0.17	0.35	≥ 0.35	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	235	-	350	480
St 44.4	0.20	0.35	≥ 0.40	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	275	-	420	550
St 52.4	0.22	0.55	≤ 1.60	0.040	0.035	-	-	-	-	-	-	-	-	-	-	-	-	355	-	550	650
DIN 1629																					
St 37.0	0.17	-	-	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	235	-	350	480
St 37.0	0.17	-	-	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	235	-	350	480
St 44.0	0.21	-	-	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	275	-	420	550
St 52.0	0.22	0.55	1.60	0.040	0.035	-	-	-	-	-	-	-	-	-	-	-	-	355	-	500	650
DIN 1630																					
St 37.4	0.17	0.35	≥ 0.35	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	235	-	350	480
St 44.4	0.20	0.35	≥ 0.40	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	275	-	420	550
St 52.4	0.22	0.55	≤ 1.60	0.040	0.035	-	-	-	-	-	-	-	-	-	-	-	-	355	-	500	650
DIN 17175																					
10CrMo9 10	0.08-0.015	0.50	0.40-0.70	0.035	0.035	-	-	-	-	2.0-2.5	-	0.90-1.20	-	-	-	-	-	280	-	450	600
13CrMo44	0.10-0.18	0.10-0.35	0.40-0.70	0.035	0.035	-	-	-	-	0.70-1.10	-	0.45-0.65	-	-	-	-	-	305	-	440	590
14MoV 6 3	0.10-0.18	0.10-0.35	0.40-0.70	0.035	0.035	-	0.22-0.32	-	-	0.30-0.60	-	0.50-0.70	-	-	-	-	-	320	-	460	610
15Mo3	0.17	0.10-0.35	0.40-0.80	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	235	-	360	480
17Mn4	0.14-0.20	0.20-0.40	0.90-1.20	0.040	0.040	-	-	-	-	≤ 0.30	-	-	-	-	-	-	-	270	-	660	580
19Mn5	0.17-0.22	0.30-0.60	1.0-1.30	0.040	0.040	-	-	-	-	≤ 0.30	-	-	-	-	-	-	-	310	-	510	610
St 35.8	0.17	0.10-0.35	0.40-0.80	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	235	-	360	480
St 45.8	0.21	0.10-0.35	0.40-1.20	0.040	0.040	-	-	-	-	-	-	-	-	-	-	-	-	255	-	410	530
DIN 2391-2																					
St 35	0.17	0.35	≥ 0.40	0.025	0.025	-	-	-	-	-	-	-	-	-	-	-	-	235	-	340	470
St 45	0.21	0.35	≥ 0.40	0.025	0.025	-	-	-	-	-	-	-	-	-	-	-	-	255	-	440	570
St 52	0.22	0.55	≤ 1.60	0.025	0.025	-	-	-	-	-	-	-	-	-	-	-	-	355	-	490	630

Continued...

Carbon & Alloy Steel Seamless Tubes/Pipes Product Specifications

GRADE	CHEMICAL ANALYSIS(%)																	MECHANICAL PROPERTIES			
	C	Si	Mn	P Max	S Max	Nb	V	Al tot.	Ti	Cr	Ni	Mo	Cu	Zr	N	CEV	Min Y.S(ReH)Mpa	T.S (Rn)Mpa			
API 5CT C-95	0.45	0.45	1.90	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	655	758	724	-	
API 5CT H-40	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	276	552	414	-	
API 5CT J-55	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	379	552	517	-	
API 5CT K-55	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	379	552	655	-	
API 5CT L-80	0.43	0.45	1.90	0.030	0.030	-	-	-	-	-	0.250	-	0.350	-	-	-	552	655	655	-	
API 5CT N-80	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	552	758	689	-	
API 5CT N/L-80	0.43	0.45	1.90	0.030	0.030	-	-	-	-	-	0.250	-	0.350	-	-	-	552	655	655	-	
API 5CT P-110	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	758	965	862	-	
API 5CT P-110 (HC)	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	758	965	862	-	
API 5CT Q-125	0.35	-	1.35	0.020	0.010	-	-	-	-	1.50	0.990	0.850	-	-	-	-	862	1034	931	-	
API 5D E-75	-	-	-	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	517	724	689	-	
API 5L GR.A	0.22	-	0.90	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	210	-	335	-	
API 5L GR.B (PSL-1)	0.28	-	1.20	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	245	-	415	-	
API 5L GR.B (PSL-2)	0.24	0.40	1.20	0.025	0.015	-	-	-	0.04	-	-	-	-	-	-	0.43	0.25	245	450	415	760
API 5L X-42 (PSL-1)	0.28	-	1.30	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	290	-	415	-	
API 5L X-42 (PSL-2)	0.24	0.40	1.20	0.025	0.015	0.05	0.060	-	0.04	-	-	-	-	-	-	0.43	0.25	290	495	415	760
API 5L X-46 (PSL-1)	0.28	-	1.40	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	320	-	435	-	
API 5L X-46 (PSL-2)	0.24	0.40	1.40	0.025	0.015	0.05	0.07	-	0.04	-	-	-	-	-	-	0.43	0.25	320	525	435	760
API 5L X-52 (PSL-1)	0.28	-	1.40	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	360	-	460	-	
API 5L X-52 (PSL-2)	0.24	0.45	1.40	0.025	0.015	0.05	0.10	-	0.04	-	-	-	-	-	-	0.43	0.25	360	530	460	760
API 5L X-56 (PSL-1)	0.26	-	1.40	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	390	-	490	-	
API 5L X-56 (PSL-2)	0.24	0.45	1.40	0.025	0.015	0.05	0.10	-	0.04	-	-	-	-	-	-	0.43	0.25	390	545	490	760
API 5L X-60 (PSL-1)	0.26	-	1.40	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	415	-	490	-	
API 5L X-60 (PSL-2)	0.24	0.45	1.40	0.025	0.015	0.05	0.10	-	0.04	-	-	-	-	-	-	0.43	0.25	415	565	520	760
API 5L X-65 (PSL-1)	0.28	-	1.40	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	450	-	535	-	
API 5L X-65 (PSL-2)	0.18	0.45	1.70	0.025	0.015	-	-	-	-	-	-	-	-	-	-	0.43	0.25	450	600	535	760
API 5L X-70 (PSL-1)	0.26	-	1.65	0.030	0.030	-	-	-	-	-	-	-	-	-	-	-	485	-	570	-	
API 5L X-70 (PSL-2)	0.18	0.45	1.80	0.025	0.015	-	-	-	-	-	-	-	-	-	-	0.43	0.25	485	635	570	760

Above data are only for reference and HMTL don't take any liability for the same.

Standard Drift Size

Product and Label 1	Dimensions in millimeters				Dimensions in inches					
	Standard Drift Mandrel Size Min				Standard Drift Mandrel Size Min					
	Length		Diameter		Length		Diameter			
Casing	<9-5/8		152		d-3.18		6		d-1/8	
Tubing	u 2- 7/8		1067		d-2.38		42		d- 3/32	
Tubing	> 2- 7/8 to u 8-5/8		1067		d-3.18		42		d- 1/8	

Above data are only for reference and HMTL don't take any liability for the same.

API Casing List Sizes, Masses, Wall Thickness, Grade and Application End-Finish

Lables		Outside Diameter	Nominal Linear mass T&C	Wall thickness	Outside Diameter	Nominal Linear mass T&C	Wall thickness	Types of End-Finish							
1	2	D mm	kg/m	t mm	D in	lb/ft	t in	H40	J55 K55	M65	L80 R95	N80 Type 1,Q	C90 T95	C110	P110
4 -1/2	9.50	114.30	14.14	5.21	4.500	9.50	0.205	PS	PS	PS	-	-	-	-	-
4 -1/2	10.50	114.30	15.63	5.69	4.500	10.50	0.224	-	PSB	PSB	-	-	-	-	-
4 -1/2	11.60	114.30	17.26	6.35	4.500	11.60	0.250	-	PSLB	PLB	PLB	PLB	PLB	P	PLB
4 -1/2	13.50	114.30	20.09	7.37	4.500	13.50	0.290	-	-	PLB	PLB	PLB	PLB	P	PLB
4 -1/2	15.10	114.30	22.47	8.56	4.500	15.10	0.337	-	-	-	-	-	-	-	-
5	11.50	127.00	17.11	5.59	5.000	11.50	0.220	-	PS	PS	-	-	-	-	-
5	13.00	127.00	19.35	6.43	5.000	13.00	0.253	-	PSLB	PSLB	-	-	-	-	-
5	15.00	127.00	22.32	7.52	5.000	15.00	0.296	-	PSLB	PLB	PLB	PLB	PLB	P	PLB
5	18.00	127.00	26.79	9.19	5.000	18.00	0.362	-	-	PLB	PLB	PLB	PLB	P	PLB
5	21.40	127.00	31.85	11.10	5.000	21.40	0.437	-	-	PLB	PLB	PLB	PLB	P	PLB
5	23.20	127.00	34.53	12.14	5.000	23.20	0.478	-	-	-	PLB	PLB	PLB	P	PLB
5	24.10	127.00	35.86	12.70	5.000	24.10	0.500	-	-	-	PLB	PLB	PLB	P	PLB

P = Plain End, S = Short Round Thread, L = Long Round Thread, B = Buttress Thread

Above data are only for reference and HMTL don't take any liability for the same.

Dimensions and Masses for Standard Casing and for Casing Threaded with API Round Thread and Buttress Thread

Lables		Outside Diameter	Nominal Linear Masses		Wall thickness		Inside diameter		Drift Diameter		Calculated mass									
1	2	D mm	kg/m	lb/ft	t mm	t in	d mm	d in	D mm	D in	Plain end	Mass Gain or Lost Due to End Finishing kg				Plain end	Mass Gain or Lost Due to End Finishing lb			
											kg/m	Round Thread		Buttress Thread		lb/ft	Round Thread		Buttress Thread	
												Short	Long	RC	SCC		Short	Long	RC	SCC
4 -1/2	9.50	114.30	14.14	9.50	5.21	0.205	103.88	4.090	100.70	3.965	14.02	1.91	-	-	-	9.41	4.20	-	-	-
4 -1/2	10.50	114.30	15.63	10.50	5.69	0.224	102.92	4.052	99.74	3.927	15.24	1.72	-	2.27	1.16	10.24	3.80	-	5.00	2.56
4 -1/2	11.60	114.30	17.26	11.60	6.35	0.250	101.60	4.000	98.42	3.875	16.91	1.54	1.72	2.09	0.98	11.36	3.40	3.80	4.60	2.16
4 -1/2	13.50	114.30	20.09	13.50	7.37	0.290	99.56	3.920	96.38	3.795	19.44	-	1.45	1.81	0.71	13.05	-	3.20	4.00	1.56
4 -1/2	15.10	114.30	22.47	15.10	8.56	0.337	97.18	3.826	94.00	3.701	22.32	-	1.27	1.45	0.34	15.00	-	2.80	3.20	0.76
5	11.50	127.00	17.11	11.50	5.59	0.220	115.82	4.560	112.64	4.435	16.74	2.45	-	-	-	11.24	5.40	-	-	-
5	13.00	127.00	19.35	13.00	6.43	0.253	114.14	4.494	110.96	4.369	19.12	2.18	2.63	2.99	1.10	12.84	4.80	5.80	6.60	2.42
5	15.00	127.00	22.32	15.00	7.52	0.296	111.96	4.408	108.78	4.283	22.16	1.91	2.36	2.63	0.73	14.88	4.20	5.20	5.80	1.62
5	18.00	127.00	26.79	18.00	9.19	0.362	108.62	4.276	105.44	4.151	26.70	-	1.91	2.00	0.10	17.95	-	4.20	4.40	0.22
5	21.40	127.00	31.85	21.40	11.10	0.437	104.80	4.126	101.62	4.001	31.73	-	1.34	1.12	-0.78	21.32	-	2.95	2.46	-1.72
5	23.20	127.00	34.53	23.20	12.14	0.478	102.72	4.044	99.54	3.919	34.39	-	1.04	0.93	-0.95	23.11	-	2.30	2.05	-2.09
5	24.10	127.00	35.86	24.10	12.70	0.500	101.60	4.000	98.42	3.875	35.80	-	0.88	0.56	-1.33	24.05	-	1.95	1.24	-2.94

Above data are only for reference and HMTL don't take any liability for the same.

API Tubing List Sizes, Masses, Wall Thickness, Grade and Application End-Finish

Labels				Outside Diameter	Nominal Linear Masses			Wall thickness	Outside diameter	Nominal Linear Masses			Wall thickness	Types of end-Finish II						
1	2				Non Upset T&C	Ext. Upset T&C	Integ. Joint			t mm	D in	Non Upset T&C		Ext. Upset T&C	Integ. Joint	t in	H40	J55	L80 R95	N80 Type 1, Q
	NU T&C	EU T&C	IJ	D mm	kg/m	kg/m	kg/m			lb/ft	lb/ft	lb/ft								
1.050	1.14	1.20	-	26.67	1.70	1.79	-	2.87	1.050	1.14	1.20	-	0.113	PNU	PNU	PNU	PNU	PNU	PNU	-
1.050	1.48	1.54	-	26.67	2.20	2.29	-	3.91	1.050	1.48	1.54	-	0.154	PU	PU	PU	PU	PU	PU	PU
1.315	1.70	1.80	1.72	33.40	2.53	2.68	2.56	3.38	1.315	1.70	1.80	1.72	0.133	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.315	2.19	2.24	-	33.40	3.26	3.33	-	4.55	1.315	2.19	2.24	-	0.179	PU	PU	PU	PU	PU	PU	PU
1.660	2.09	-	2.10	42.16	-	-	3.13	3.18	1.660	-	-	2.10	0.125	PI	PI	-	-	-	-	-
1.660	2.30	2.40	2.33	42.16	3.42	3.57	3.47	3.56	1.660	2.30	2.40	2.33	0.140	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.660	3.03	3.07	-	42.16	4.51	4.57	-	4.85	1.660	3.03	3.07	-	0.191	PU	PU	PU	PU	PU	PU	PU
1.900	2.40	-	2.40	48.26	-	-	3.57	3.18	1.900	-	-	2.40	0.125	PI	PI	-	-	-	-	-
1.900	2.75	2.90	2.76	48.26	4.09	4.32	4.11	3.68	1.900	2.75	2.90	2.76	0.145	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.900	3.65	3.73	-	48.26	5.43	5.55	-	5.08	1.900	3.65	3.73	-	0.200	PU	PU	PU	PU	PU	PU	PU
1.900	4.42	-	-	48.26	6.58	-	-	6.35	1.900	4.42	-	-	0.250	-	-	P	-	P	P	-
1.900	5.15	-	-	48.26	7.66	-	-	7.62	1.900	5.15	-	-	0.300	-	-	P	-	P	P	-
2.063	3.24	-	3.25	52.40	-	-	4.84	3.96	2.063	-	-	3.25	0.156	PI	PI	PI	PI	PI	PI	-
2.063	4.50	-	-	52.40	-	-	-	5.72	2.063	4.50	-	-	0.225	P	P	P	P	P	P	P
2-3/8	4.00	-	-	60.32	5.95	-	-	4.24	2.375	4.00	-	-	0.167	PN	PN	PN	PN	PN	PN	-
2-3/8	4.60	4.70	-	60.32	6.85	6.99	-	4.83	2.375	4.60	4.70	-	0.190	PNU	PNU	PNU	PNU	PNU	PNU	PNU
2-3/8	5.80	5.95	-	60.32	8.63	8.85	-	6.45	2.375	5.80	5.95	-	0.254	-	-	PNU	PNU	PNU	PNU	PNU
2-3/8	6.60	-	-	60.32	9.82	-	-	7.49	2.375	6.60	-	-	0.295	-	-	P	-	P	P	-
2-3/8	7.35	7.45	-	60.32	10.94	11.09	-	8.53	2.375	7.35	7.45	-	0.336	-	-	PU	-	PU	PU	-
2-7/8	6.40	6.50	-	73.02	9.52	9.67	-	5.51	2.875	6.40	6.50	-	0.217	PNU	PNU	PNU	PNU	PNU	PNU	PNU
2-7/8	7.80	7.90	-	73.02	11.61	11.76	-	7.01	2.875	7.80	7.90	-	0.276	-	-	PNU	PNU	PNU	PNU	PNU
2-7/8	8.60	8.70	-	73.02	12.80	12.95	-	7.82	2.875	8.60	8.70	-	0.308	-	-	PNU	PNU	PNU	PNU	PNU
2-7/8	9.35	9.45	-	73.02	13.91	14.06	-	8.64	2.875	9.35	9.45	-	0.340	-	-	PU	-	PU	PU	-
2-7/8	10.50	-	-	73.02	15.63	-	-	9.96	2.875	10.50	-	-	0.392	-	-	P	-	P	P	-
2-7/8	11.50	-	-	73.02	17.11	-	-	11.18	2.875	11.50	-	-	0.440	-	-	P	-	P	P	-
3-1/2	7.70	-	-	88.90	11.46	-	-	5.49	3.500	7.70	-	-	0.216	PN	PN	PN	PN	PN	PN	-
3-1/2	9.20	9.30	-	88.90	13.69	13.84	-	6.45	3.500	9.20	9.30	-	0.254	PNU	PNU	PNU	PNU	PNU	PNU	PNU
3-1/2	10.20	-	-	88.90	15.18	-	-	7.34	3.500	10.20	-	-	0.289	PN	PN	PN	PN	PN	PN	-
3-1/2	12.70	12.95	-	88.90	18.90	19.27	-	9.52	3.500	12.70	12.95	-	0.375	-	-	PNU	PNU	PNU	PNU	PNU
3-1/2	14.30	-	-	88.90	21.88	-	-	10.92	3.500	14.30	-	-	0.430	-	-	P	-	P	P	-
3-1/2	15.50	-	-	88.90	23.07	-	-	12.09	3.500	15.50	-	-	0.476	-	-	P	-	P	P	-
3-1/2	17.00	-	-	88.90	25.30	-	-	13.46	3.500	17.00	-	-	0.530	-	-	P	-	P	P	-
4	9.50	-	-	101.60	14.14	-	-	5.74	4.000	9.50	-	-	0.226	PN	PN	PN	PN	PN	PN	-
4	10.70	11.00	-	101.60	-	16.37	-	6.65	4.000	-	11.00	-	0.262	PU	PU	PU	PU	PU	PU	-
4	13.20	-	-	101.60	19.64	-	-	8.38	4.000	13.20	-	-	0.330	-	-	P	-	P	P	-
4	16.10	-	-	101.60	23.96	-	-	10.54	4.000	16.10	-	-	0.415	-	-	P	-	P	P	-
4	18.90	-	-	101.60	28.13	-	-	12.70	4.000	18.90	-	-	0.500	-	-	P	-	P	P	-
4	22.20	-	-	101.60	33.04	-	-	15.49	4.000	22.20	-	-	0.610	-	-	P	-	P	P	-
4-1/2	12.60	12.75	-	114.30	18.75	18.97	-	6.88	4.500	12.60	12.75	-	0.271	PNU	PNU	PNU	PNU	PNU	PNU	-
4-1/2	15.20	-	-	114.30	22.62	-	-	8.56	4.500	15.20	-	-	0.337	-	-	P	-	P	P	-
4-1/2	17.00	-	-	114.30	25.30	-	-	9.65	4.500	17.00	-	-	0.380	-	-	P	-	P	P	-
4-1/2	18.90	-	-	114.30	28.13	-	-	10.92	4.500	18.90	-	-	0.430	-	-	P	-	P	P	-
4-1/2	21.50	-	-	114.30	32.00	-	-	12.70	4.500	21.50	-	-	0.500	-	-	P	-	P	P	-
4-1/2	23.70	-	-	114.30	35.27	-	-	14.22	4.500	23.70	-	-	0.560	-	-	P	-	P	P	-
4-1/2	26.10	-	-	114.30	38.84	-	-	16.00	4.500	26.10	-	-	0.630	-	-	P	-	P	P	-

P = Plain end, N = Non-upset threaded and coupled, U = External upset threaded and coupled, I = Integral joint.
 Above data are only for reference and HMTL don't take any liability for the same.

Dimensions & Masses for Standard Tubing & Tubing Threaded with API Non-Upset, External Upset & Integral Tubing Connections

Lables				Outside Diameter	Nominal Linear Masses			Wall thickness	Inside diameter	Calculated mass					
1	2				Non Upset T&C	Ext Upset T&C	Integ. Joint			Plain End	Mass gain or lost due to end finishing			kg	
	NU T&C	EU T&C	IJ		D mm	kg/m	kg/m				kg/m	pe	kg/m		Non Upset
								t mm	d mm				Regular	Special Clear	
1.050	1.14	1.20	-	26.67	1.70	1.79	-	2.87	20.93	1.68	0.09	0.64	-	-	-
1.050	1.48	1.54	-	26.67	2.20	2.29	-	3.91	18.85	2.19	-	0.60	-	-	-
1.315	1.70	1.80	1.72	33.40	2.53	2.68	2.56	3.38	26.64	2.50	0.18	0.64	-	-	0.09
1.315	2.19	2.24	-	33.40	3.26	3.33	-	4.55	24.30	3.24	-	0.61	-	-	-
1.660	2.09	-	2.10	42.16	-	-	3.13	3.18	35.80	3.06	-	-	-	-	0.09
1.660	2.30	2.40	2.33	42.16	3.42	3.57	3.47	3.56	35.04	3.39	0.36	0.73	-	-	0.09
1.660	3.03	3.07	-	42.16	4.51	4.57	-	4.85	32.46	4.46	-	0.68	-	-	-
1.900	2.40	-	2.40	48.26	-	-	3.57	3.18	41.90	3.54	-	-	-	-	0.09
1.900	2.75	2.90	2.76	48.26	4.09	4.32	4.11	3.68	40.90	4.05	0.27	0.91	-	-	0.09
1.900	3.65	3.73	-	48.26	5.43	5.55	-	5.08	38.10	5.41	-	0.92	-	-	-
1.900	4.42	-	-	48.26	6.58	-	-	6.35	35.56	6.56	-	-	-	-	-
1.900	5.15	-	-	48.26	7.66	-	-	7.62	33.02	7.64	-	-	-	-	-
2.063	3.24	-	3.25	52.40	-	-	4.84	3.96	44.48	4.73	-	-	-	-	0.09
2.063	4.50	-	-	52.40	-	-	-	5.72	40.96	6.58	-	-	-	-	-
2-3/8	4.00	-	-	60.32	5.95	-	-	4.24	51.84	5.86	0.73	-	-	-	-
2-3/8	4.60	4.70	-	60.32	6.85	6.99	-	4.83	50.66	6.61	0.73	1.81	1.34	-	-
2-3/8	5.80	5.95	-	60.32	8.63	8.85	-	6.45	47.42	8.57	0.64	1.63	1.16	-	-
2-3/8	6.60	-	-	60.32	9.82	-	-	7.49	45.34	9.76	-	-	-	-	-
2-3/8	7.35	7.45	-	60.32	10.94	11.09	-	8.53	43.26	10.89	-	-	-	-	-
2-7/8	6.40	6.50	-	73.02	9.52	9.67	-	5.51	62.00	9.17	1.45	2.54	1.71	-	-
2-7/8	7.80	7.90	-	73.02	11.61	11.76	-	7.01	59.00	11.41	1.27	2.63	1.78	-	-
2-7/8	8.60	8.70	-	73.02	12.80	12.95	-	7.82	57.38	12.57	1.18	2.27	1.43	-	-
2-7/8	9.35	9.45	-	73.02	13.91	14.06	-	8.64	54.74	13.72	-	-	-	-	-
2-7/8	10.50	-	-	73.02	15.63	-	-	9.96	53.10	15.49	-	-	-	-	-
2-7/8	11.50	-	-	73.02	17.11	-	-	11.18	50.66	17.05	-	-	-	-	-
3-1/2	7.70	-	-	88.90	11.46	-	-	5.49	77.92	11.29	2.45	-	-	-	-
3-1/2	9.20	9.30	-	88.90	13.69	13.84	-	6.45	76.00	13.12	2.27	4.17	2.45	-	-
3-1/2	10.20	-	-	88.90	15.18	-	-	7.34	74.22	14.76	2.18	-	-	-	-
3-1/2	12.70	12.95	-	88.90	18.90	19.27	-	9.52	69.86	18.64	1.81	3.72	2.00	-	-
3-1/2	14.30	-	-	88.90	21.88	-	-	10.92	67.06	21.00	-	-	-	-	-
3-1/2	15.50	-	-	88.90	23.07	-	-	12.09	64.72	22.90	-	-	-	-	-
3-1/2	17.00	-	-	88.90	25.30	-	-	13.46	61.98	25.04	-	-	-	-	-
4	9.50	-	-	101.60	14.14	-	-	5.74	90.12	13.57	2.81	-	-	-	-
4	10.70	11.00	-	101.60	-	16.37	-	6.65	88.30	15.57	-	4.81	-	-	-
4	13.20	-	-	101.60	19.64	-	-	8.38	84.84	19.27	-	-	-	-	-
4	16.10	-	-	101.60	23.96	-	-	10.54	80.52	23.67	-	-	-	-	-
4	18.90	-	-	101.60	28.13	-	-	12.70	76.20	27.84	-	-	-	-	-
4	22.20	-	-	101.60	33.04	-	-	15.49	70.62	32.89	-	-	-	-	-
4-1/2	12.60	12.75	-	114.30	18.75	18.97	-	6.88	100.54	18.23	2.72	-	-	-	-
4-1/2	15.20	-	-	114.30	22.62	-	-	8.56	97.18	22.32	-	-	-	-	-
4-1/2	17.00	-	-	114.30	25.30	-	-	9.65	95.00	24.90	-	-	-	-	-
4-1/2	18.90	-	-	114.30	28.13	-	-	10.92	92.46	27.84	-	-	-	-	-
4-1/2	21.50	-	-	114.30	32.00	-	-	12.70	88.90	31.82	-	-	-	-	-
4-1/2	23.70	-	-	114.30	35.27	-	-	14.22	85.86	35.10	-	-	-	-	-
4-1/2	26.10	-	-	114.30	38.84	-	-	16.00	82.30	38.79	-	-	-	-	-

Above data are only for reference and HMTL don't take any liability for the same.

Dimensions & Masses for Standard Tubing & Tubing Threaded with API Non-Upset, External Upset & Integral Tubing Connections

Labels				Outside Diameter	Nominal Linear Masses			Wall thickness	Inside diameter	Calculated mass					
1	2				Non Upset T&C	Ext Upset T&C	Integ. Joint			Plain End	Mass gain or lost due to end finishing			Integral Joint	
	NU T&C	EU T&C	IJ								lb	External Upset	lb		
				D in	lb/ft	lb/ft	lb/ft	t in	d in	pe lb/ft	Non Upset	Regular	Special Clear		
1.050	1.14	1.20	-	1.050	1.14	1.20	-	0.113	0.824	1.13	0.20	1.40	-	-	
1.050	1.48	1.54	-	1.050	1.48	1.54	-	0.154	0.742	1.48	-	1.32	-	-	
1.315	1.70	1.80	1.72	1.315	1.70	1.80	1.72	0.133	1.049	1.68	0.40	1.40	-	0.20	
1.315	2.19	2.24	-	1.315	2.19	2.24	-	0.179	0.957	2.17	-	1.35	-	-	
1.660	2.09	-	2.10	1.660	-	-	2.10	0.125	1.410	2.05	-	-	-	0.20	
1.660	2.30	2.40	2.33	1.660	2.30	2.40	2.33	0.140	1.380	2.27	0.80	1.60	-	0.20	
1.660	3.03	3.07	-	1.660	3.03	3.07	-	0.191	1.278	3.00	-	1.50	0.20	-	
1.900	2.40	-	2.40	1.900	-	-	2.40	0.125	1.650	2.37	-	-	-	0.20	
1.900	2.75	2.90	2.76	1.900	2.75	2.90	2.76	0.145	1.610	2.72	0.60	2.00	-	0.20	
1.900	3.65	3.73	-	1.900	3.65	3.73	-	0.200	1.500	3.63	-	2.03	-	-	
1.900	4.42	-	-	1.900	4.42	-	-	0.250	1.400	4.41	-	-	-	-	
1.900	5.15	-	-	1.900	5.15	-	-	0.300	1.300	5.13	-	-	-	-	
2.063	3.24	-	3.25	2.063	-	-	3.25	0.156	1.751	3.18	-	-	-	0.20	
2.063	4.50	-	-	2.063	-	-	-	0.225	1.613	4.42	-	-	-	-	
2-3/8	4.00	-	-	2.375	4.00	-	-	0.167	2.041	3.94	1.60	-	-	-	
2-3/8	4.60	4.70	-	2.375	4.60	4.70	-	0.190	1.995	4.44	1.60	4.00	2.96	-	
2-3/8	5.80	5.95	-	2.375	5.80	5.95	-	0.254	1.867	5.76	1.40	3.60	2.56	-	
2-3/8	6.60	-	-	2.375	6.60	-	-	0.295	1.785	7.56	-	-	-	-	
2-3/8	7.35	7.45	-	2.375	7.35	7.45	-	0.336	1.703	7.32	-	-	-	-	
2-7/8	6.40	6.50	-	2.875	6.40	6.50	-	0.217	2.441	6.17	3.20	5.60	3.76	-	
2-7/8	7.80	7.90	-	2.875	7.80	7.90	-	0.276	2.323	7.67	2.80	5.80	3.92	-	
2-7/8	8.60	8.70	-	2.875	8.60	8.70	-	0.308	2.259	8.45	2.60	5.00	3.16	-	
2-7/8	9.35	9.45	-	2.875	9.35	9.45	-	0.340	2.195	9.21	-	-	-	-	
2-7/8	10.50	-	-	2.875	10.50	-	-	0.392	2.091	10.40	-	-	-	-	
2-7/8	11.50	-	-	2.875	11.50	-	-	0.440	1.995	11.45	-	-	-	-	
3-1/2	7.70	-	-	3.500	7.70	-	-	0.216	3.068	7.58	5.40	-	-	-	
3-1/2	9.20	9.30	-	3.500	9.20	9.30	-	0.254	2.992	8.81	5.00	9.20	4.40	-	
3-1/2	10.20	-	-	3.500	10.20	-	-	0.289	2.922	9.92	4.80	-	-	-	
3-1/2	12.70	12.95	-	3.500	12.70	12.95	-	0.375	2.750	12.53	4.00	8.20	4.40	-	
3-1/2	14.30	-	-	3.500	14.30	-	-	0.430	2.640	14.11	-	-	-	-	
3-1/2	15.50	-	-	3.500	15.50	-	-	0.476	2.548	15.39	-	-	-	-	
3-1/2	17.00	-	-	3.500	17.00	-	-	0.530	2.440	16.83	-	-	-	-	
4	9.50	-	-	4.000	9.50	-	-	0.226	3.548	9.12	6.20	-	-	-	
4	10.70	11.00	-	4.000	-	11.00	-	0.262	3.476	10.47	-	10.60	-	-	
4	13.20	-	-	4.000	13.20	-	-	0.330	3.340	10.95	-	-	-	-	
4	16.10	-	-	4.000	16.10	-	-	0.415	3.170	15.90	-	-	-	-	
4	18.90	-	-	4.000	18.90	-	-	0.500	3.000	18.71	-	-	-	-	
4	22.20	-	-	4.000	22.20	-	-	0.610	2.780	22.11	-	-	-	-	
4-1/2	12.60	12.75	-	4.500	12.60	12.75	-	0.271	3.958	12.25	6.00	13.2	-	-	
4-1/2	15.20	-	-	4.500	15.20	-	-	0.337	3.826	15.00	-	-	-	-	
4-1/2	17.00	-	-	4.500	17.00	-	-	0.380	3.740	16.77	-	-	-	-	
4-1/2	18.90	-	-	4.500	18.90	-	-	0.430	3.640	18.71	-	-	-	-	
4-1/2	21.50	-	-	4.500	21.50	-	-	0.500	3.500	21.38	-	-	-	-	
4-1/2	23.70	-	-	4.500	23.70	-	-	0.560	3.380	23.59	-	-	-	-	
4-1/2	26.10	-	-	4.500	26.10	-	-	0.630	3.240	26.06	-	-	-	-	

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External upset Tubing Dimensions for API Connections, Groups 1, 2 and 3

Lables		Outside Diameter	Nominal Linear mass threaded and coupled		Upset							
					Outside Diameter D4		Length from end of pipe to start of taper (Leu)		Length from end of pipe to end of taper (La)		Length from end of pipe to start of body (Lb)	
1	2	D mm	lb/ft	kg/m	in +0.0625/0	mm +1.59/0	in 0 / -1	mm +0 /-25.4	in	mm	in max	mm max
1.050	1.20	26.67	1.200	1.79	1.315	33.40	2 3/8	60.320	-	-	-	-
1.050	1.54	26.67	1.540	2.29	1.315	33.40	2 3/8	60.320	-	-	-	-
1.315	1.80	33.40	1.800	2.68	1.469	37.31	2 1/2	63.500	-	-	-	-
1.315	2.24	33.40	2.240	3.33	1.469	37.31	2 1/2	63.500	-	-	-	-
1.660	2.40	42.16	2.400	3.57	1.812	46.02	2 5/8	66.680	-	-	-	-
1.660	3.07	42.16	3.070	4.57	1.812	46.02	2 5/8	66.680	-	-	-	-
1.900	2.90	48.26	2.900	4.32	2.094	53.19	2 11/16	68.260	-	-	-	-
1.900	3.70	48.26	3.730	5.55	2.094	53.19	2 11/16	68.260	-	-	-	-
2 - 3/8	4.70	60.32	4.700	6.99	2.594	65.89	4.000	101.600	6.000	152.40	10.000	254.00
2 - 3/8	5.95	60.32	5.950	8.85	2.594	65.89	4.000	101.600	6.000	152.40	10.000	254.00
2 - 3/8	7.45	60.32	7.450	11.09	2.594	65.89	4.000	101.600	6.000	152.40	10.000	254.00
2- 7/8	6.50	73.02	6.500	9.67	3.094	78.59	4 1/4	107.950	6 1/4	158.75	10 1/4	260.35
2- 7/8	7.90	73.02	7.900	11.76	3.094	78.59	4 1/4	107.950	6 1/4	158.75	10 1/4	260.35
2- 7/8	8.70	73.02	8.700	12.95	3.094	78.59	4 1/4	107.950	6 1/4	158.75	10 1/4	260.35
2- 7/8	9.45	73.02	9.450	14.06	3.094	78.59	4 1/4	107.950	6 1/4	158.75	10 1/4	260.35
3-1/2	9.30	88.90	9.300	13.84	3.750	95.25	4 1/2	114.3	6 1/2	165.10	10 1/2	266.70
3-1/2	12.95	88.90	12.950	19.27	3.750	95.25	4 1/2	114.3	6 1/2	165.10	10 1/2	266.70
4	11.00	101.60	11.000	16.37	4.250	107.95	4 1/2	114.3	6 1/2	165.10	10 1/2	266.70
4 - 1/2	12.75	114.30	12.750	18.97	4.750	120.65	4 3/4	120.65	6 3/4	171.45	10 3/4	273.05

Above data are only for reference and HMTL don't take any liability for the same.

API Non-Upset Tubing Coupling-Dimensions, Tolerances and Masses

Lables	Outside Diameter	Outsize Diameter W		Minimum Length NL		Diameter of Recess Q		Widht of Bearing Face b		Maximum Bearing Face Diameter, Special Bevel Bf		Mass	
		mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
1.050	26.67	33.35	1.313	80.96	3 3/16	28.27	1.113	1.59	1/16	30.00	1.181	0.23	0.51
1.315	33.40	42.16	1.660	82.55	3 1/4	35.00	1.378	2.38	3/32	37.80	1.488	0.38	0.84
1.660	42.16	52.17	2.054	88.90	3 1/2	43.76	1.723	3.18	1/8	47.17	1.857	0.59	1.29
1.900	48.26	55.88	2.200	95.25	3 3/4	49.86	1.963	1.59	1/16	52.07	2.050	0.56	1.23
2-3/8	60.32	73.02	2.875	107.95	4 1/4	61.93	2.438	4.76	3/16	66.68	2.626	1.28	2.82
2-7/8	70.02	88.90	3.500	130.18	5 1/8	74.63	2.938	4.76	3/16	80.98	3.188	2.34	5.15
3-1/2	88.90	107.95	4.250	142.88	5 5/8	90.50	3.563	4.76	3/16	98.42	3.875	3.71	5.17
4	101.60	120.65	4.750	146.05	5 3/4	103.20	4.063	4.76	3/16	111.12	4.375	4.35	9.58
4-1/2	114.30	132.08	5.200	155.58	6 1/8	115.90	4.563	4.76	3/16	123.19	4.850	4.89	10.77

Above data are only for reference and HMTL don't take any liability for the same.

API External-Upset Tubing Coupling-Dimensions,Tolerances and Masses

Lables	Outside Diameter D	Outside Diameter				Minimum Length NL		Diameter of Recess Q		Width of Bearing Face, Regular b		Maximum Beaing Face Diameter B				Mass			
		Regular W		Special Clearance WC								Regular with Special Bevel		Special Clearance		Regular		Special Clearance	
in	mm	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
1.050	26.67	42.16	1.660	-	-	82.55	3 1/4	35.00	1.378	2.38	3/32	37.80	1.488	-	-	0.38	0.84	-	-
1.315	33.40	48.26	1.900	-	-	88.90	3 1/2	38.89	1.531	2.38	3/32	42.77	1.684	-	-	0.57	1.26	-	-
1.660	42.16	55.88	2.200	-	-	95.25	3 3/4	47.63	1.875	3.18	1/8	50.95	2.006	-	-	0.68	1.49	-	-
1.900	48.26	63.50	2.500	-	-	98.42	3 7/8	54.76	2.156	3.18	1/8	58.34	2.297	-	-	0.84	1.85	-	-
2-3/8	60.32	77.80	3.063	73.91	2.910	123.82	4 7/8	67.46	2.656	3.97	5/32	71.83	2.888	69.90	2.752	1.55	3.43	1.07	2.35
2-7/8	70.02	93.17	3.668	87.88	3.460	133.35	5 1/4	80.16	3.156	5.56	7/32	85.88	3.381	83.24	3.277	2.40	5.30	1.55	3.42
3-1/2	88.90	114.30	4.500	106.70	4.180	146.05	5 3/4	96.85	3.813	6.35	1/4	104.78	4.125	100.71	3.965	4.10	9.03	2.38	5.24
4	101.60	127.00	5.000	-	-	152.40	6	109.55	4.313	6.35	1/4	117.48	4.625	-	-	4.82	10.63	-	-
4-1/2	114.30	141.30	5.563	-	-	158.75	6 1/4	122.25	4.813	6.35	1/4	130.96	5.156	-	-	6.05	13.33	-	-

Tolerance on out side diameter W : +/- 1%

Tolerance on out side diameter WC : +/- 0.015 inch

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Cold Drawn Seamless Carbon & Alloy Steel Manufacturing Range

Outside Diameter	in mm		38.10	44.45	50.80	57.15	63.50	69.85	76.20	82.55	88.90	95.25	101.60	107.95	114.30	120.65	127.00
	in inch		1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5
Wall Thickness			Weight is in kg/meter														
Gauge	mm	inch															
10 Swg	3.251	0.128	2.794	3.303	3.812	4.321	4.830	5.340	5.849	6.358	6.867	7.376	7.885	8.394	8.903	9.412	9.922
10 Bwg	3.404	0.134	2.913	3.446	3.979	4.512	5.045	5.578	6.111	6.644	7.177	7.710	8.243	8.776	9.309	9.843	10.376
9 Swg	3.658	0.144	3.107	3.680	4.253	4.826	5.398	5.971	6.544	7.117	7.690	8.263	8.836	9.408	9.981	10.554	11.127
9 Bwg	3.759	0.148	3.183	3.772	4.361	4.949	5.538	6.127	6.715	7.304	7.893	8.481	9.070	9.659	10.247	10.836	11.425
8 Swg	4.064	0.160	3.411	4.048	4.684	5.321	5.957	6.593	7.230	7.866	8.503	9.139	9.775	10.412	11.048	11.685	12.321
8 Bwg	4.191	0.165	3.505	4.161	4.817	5.474	6.130	6.786	7.443	8.099	8.755	9.412	10.068	10.724	11.380	12.037	12.693
7 Swg	4.470	0.176	3.707	4.407	5.107	5.807	6.507	7.207	7.907	8.607	9.307	10.007	10.707	11.407	12.107	12.807	13.507
7 Bwg	4.572	0.180	3.780	4.496	5.212	5.928	6.644	7.360	8.076	8.792	9.508	10.224	10.940	11.656	12.372	13.088	13.804
6 Swg	4.877	0.192	3.996	4.760	5.523	6.287	7.051	7.815	8.578	9.342	10.106	10.870	11.633	12.397	13.161	13.924	14.688
6 Bwg	5.156	0.202	4.189	4.996	5.804	6.611	7.419	8.226	9.034	9.841	10.648	11.456	12.263	13.071	13.878	14.686	15.493
5 Swg	5.385	0.212	4.345	5.188	6.031	6.875	7.718	8.561	9.404	10.248	11.091	11.934	12.778	13.621	14.464	15.307	16.151
5 Bwg	5.588	0.220	4.480	5.356	6.231	7.106	7.981	8.856	9.731	10.606	11.481	12.356	13.231	14.106	14.981	15.857	16.732
4 Swg	5.893	0.232	4.681	5.603	6.526	7.449	8.372	9.295	10.218	11.141	12.063	12.986	13.909	14.832	15.755	16.678	17.601
4 Bwg	6.045	0.238	4.779	5.725	6.672	7.619	8.565	9.512	10.459	11.405	12.352	13.299	14.245	15.192	16.139	17.085	18.032
3 Swg	6.401	0.252	5.004	6.006	7.009	8.011	9.014	10.016	11.018	12.021	13.023	14.026	15.028	16.030	17.033	18.035	19.038
3 Bwg	6.579	0.259	5.114	6.144	7.175	8.205	9.235	10.266	11.296	12.326	13.356	14.387	15.417	16.447	17.478	18.508	19.538
2 Swg	7.010	0.276	5.375	6.473	7.570	8.668	9.766	10.864	11.961	13.059	14.157	15.255	16.352	17.450	18.548	19.646	20.744
2 Bwg	7.214	0.284	5.495	6.625	7.754	8.884	10.014	11.143	12.273	13.403	14.533	15.662	16.792	17.922	19.051	20.181	21.311
1 Swg	7.620	0.300	5.728	6.921	8.114	9.308	10.501	11.694	12.888	14.081	15.274	16.467	17.661	18.854	20.047	21.241	22.434
1 Bwg	7.820	0.300	5.728	6.921	8.114	9.308	10.501	11.694	12.888	14.081	15.274	16.467	17.661	18.854	20.047	21.241	22.434
0 Swg	8.229	0.324	6.062	7.351	8.639	9.928	11.217	12.505	13.794	15.083	16.371	17.660	18.949	20.237	21.526	22.815	24.103
0 Bwg	8.636	0.340	6.275	7.628	8.980	10.332	11.685	13.037	14.390	15.742	17.094	18.447	19.799	21.152	22.504	23.856	25.209

Above Cross Section Kg/mtr is for Carbon and Alloy Steel Tubes)in mm. For Carbon and Alloy Steel Tubes Cross Section Kg/mtr Weight is : (in mm): (OD-Thk) x Thk x 0.0246615.

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Seamless Carbon and Alloy Steel Line Pipe Manufacturing Range

Nominal Pipe Size			Schedule Standard		Schedule 40		Schedule XS		Schedule 80		Schedule 120		Schedule 160		Schedule XXS	
Inch	MM	OD in MM	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.
3/4	20	26.70	2.87	1.69	2.87	1.69	3.91	2.20	3.91	2.20			5.56	2.90	7.82	3.64
1	25	33.40	3.38	2.50	3.38	2.50	4.55	3.24	4.55	3.24			6.35	4.24	9.09	5.45
1 1/4	32	42.20	3.56	3.39	3.56	3.39	4.85	4.47	4.85	4.47			6.35	5.61	9.70	7.77
1 1/2	40	48.30	3.68	4.05	3.68	4.05	5.08	5.41	5.08	5.41			7.14	7.25	10.16	9.56
2	50	60.30	3.91	5.44	3.91	5.44	5.54	7.48	5.54	7.48			8.74	11.11	11.07	13.44
2 1/2	65	73.00	5.16	8.63	5.16	8.63	7.01	11.41	7.01	11.41			9.52	14.90	14.02	20.39
3	80	88.90	5.49	11.29	5.49	11.29	7.62	15.27	7.62	15.27			11.13	21.35	15.34	27.83
3 1/2	90	101.60	5.74	13.57	5.74	13.57	8.08	18.64	8.08	18.64						
4	100	114.30	6.02	16.08	6.02	16.08	8.56	22.32	8.56	22.32	11.13	28.32	13.49	33.54	17.12	41.03
5	125	141.30	6.55	21.77	6.55	21.77	9.52	30.94	9.52	30.94	12.70	40.28	15.88	49.12	19.05	57.43
6	150	168.30	7.11	28.26	7.11	28.26	10.97	42.56	10.97	42.56	14.27	54.21	18.26	67.57	21.95	79.22

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Cold Drawn Seamless Carbon & Alloy Steel Hydraulic/Mechanical Tubes Manufacturing Range

WT in mm	min max	3.00	3.50	4.00	5.00	6.00	7.00	8.00	9.00	10.00	12.00	14.00	16.00	18.00
		3.50	4.00	5.00	6.00	7.00	8.00	9.00	10.00	12.00	14.00	16.00	18.00	20.00
OD in mm														
min	max													
35.00	40.00	✓	✓	✓	✓	✓	✓	✓	✓	✓				
40.00	50.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
50.00	60.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
60.00	75.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75.00	90.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
90.00	110.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
110.00	130.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

For Carbon and Alloy Steel Tubes Cross Section Kg/mtr Weight is : (in mm): (OD-Thk) x Thk x 0.0246615.

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