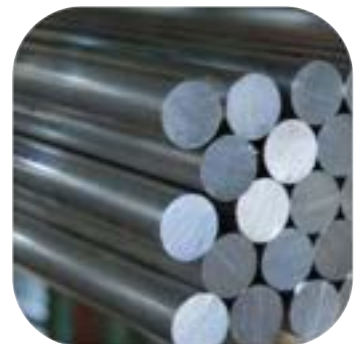




ISHWAR METALS & ALLOYS



We Believe in Quality.
Customers care
If the Quality is fair
Pure Quality, Pure Satisfaction



ISHWAR METALS & ALLOYS



Quality Policy

QUALITY POLICY

We are committed to continuously upgrade our knowledge and skills to improve the efficiency of our organisation and strive for outstanding quality of our products.

We assure quality of our products by satisfying the customer's requirement and by perfecting our systems and procedures through involvement of our employees.

We promise to deliver : Quality service at the most reasonable price, at the right time, at the right place and with right documents.





ISHWAR METALS & ALLOYS



COMPANY PROFILE

Welcome to the world of steel Welcome to Ishwar Metals & alloys, one of India's leading Exporters, Importers and Distributors maintaining a full line of size and specifications of steel pipes, plate, and related fitting thus providing a one stop retailing and whole selling shop for leaders in a wide range of industries. Ishwar Metals & Alloys combines it's time resource for creating solutions to all your steel pipe requirements.

Our miss statement :

To supply quality material on time.

Our range of products

Hot Finished & Cold Drawn Seamless Pipes

Alloy steel & Seamless Steel Pipes

MS, CS, GI, ERW, SAW, LASW, HSAW, DSAW PIPES ETC

MS, CS, GI PLATES

STRUCTURAL STEEL PIPE FITTINGS ETC

We stock the entire range of steel pipe manufactured by Tata Steel, Maharashtra Seamless Limited, Tube Investment of India Limited, ISMT Ltd., Jindal Pipes Limited etc. both in IBR and Non-IBR quality and for Plates SAIL, JSW Ltd., Essar Steel, JSPL, etc., We also maintain good stock of imported pipes from countries like Japan, Ukraine, Germany and for plates Romania, Italy, Slovenia, Korea, Etc.

OUR CUSTOMERS - OUR LIFELINE

Over the years we have acquired extensive experience in serving many domestic clients, such as Reliance Industries Ltd. Larson & Toubro Ltd., ALSTOM Projects India Ltd., Hindustan Shipyard Ltd., BHEL, NTPC, NPCIL, HPCL, IOCL Etc.

OUR PEDIGREE

We have several years of proven experience in providing paramount quality products and customer service through transparent business practices and procedures. We have effectively integrated both forwards and backwards to offer customer a single point of purchase to fulfill heterogeneous requirements We have a good reputation by supplying quality materials at an attractive price tag backed up by firm delivery schedule.

OUR PHILOSOPHY

Our philosophy is all about what we commit is what you get. No false assurance, because we strongly feel our clients are very precious and they deserve the fairest deal. We will deliver what we say ; we can without the fuss, ensuring your business objectives are central to everything we do.

You must be knowing us already, if not give us a try.

Company Profile





ISHWAR METALS & ALLOYS

MANUFACTURING

BUTT WELD / SOCKET WELD / THREADED FITTINGS / FLANGES & FASTENERS

This is to introduce ourselves as the most reliable outsourcing partners for manufacturing of buttwelding pipe fittings, socket weld, pipe fittings, flanges & tubular components in all kinds of steel. Our panel of experienced manufacturers ensures excellent quality fittings meeting exacting standards of National & International quality.

These Pipe Fitting are manufactured from ferrous metals such as Carbon Steel, Alloy Steel, Low Temperature Carbon Steel & Stainless Steel. Both Seamless and E.R.W. Pipe Fittings are Produced by our special manufacturing process involving either hot or cold forming. We are fully capable of manufacturing Pipe fittings made to customer's specifications in terms of type, dimensions, material & quantity under any third party inspection.

These Pipe Fittings are perfectly round, rugged, leak proof, corrosion resistant (Where ever required), meeting all the requirements to ASA / ASTM / BS / DIN / ISI codes. These quality fittings extend the life of piping systems, facilitate direct pipe welding, permit compact installations & reduce the space necessary for installing a piping network.

FACILITIES



- Hydraulic Press
- Oil Fired Furnace with Temp. Recorder
- Universal Testing Machine
- Hardness Tester
- Chemical laboratory
- Hacksaw cutting Machines
- Lathe Machines
- Plate Rolling Machines
- Grinding Machines
- Drilling Machines
- Motor Generator Welding Sets (Advani)
- AC Welding Sets (Advani)
- DC Rectifier Welding Sets (Advani)
- Computer & Software





 **Hitesh Shah**
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ISHWAR METALS & ALLOYS

PRODUCT RANGE

Pipe & Tubes



**Sheets /
Plates & Coils**



Round Bar



**Angle /
Channel / Flat Bar**



Buttweld Fittings



Forged Fittings



**Tube Fitting
& Fasteners**



**S S Instrument /
Ferrule Fittings**



Flanges

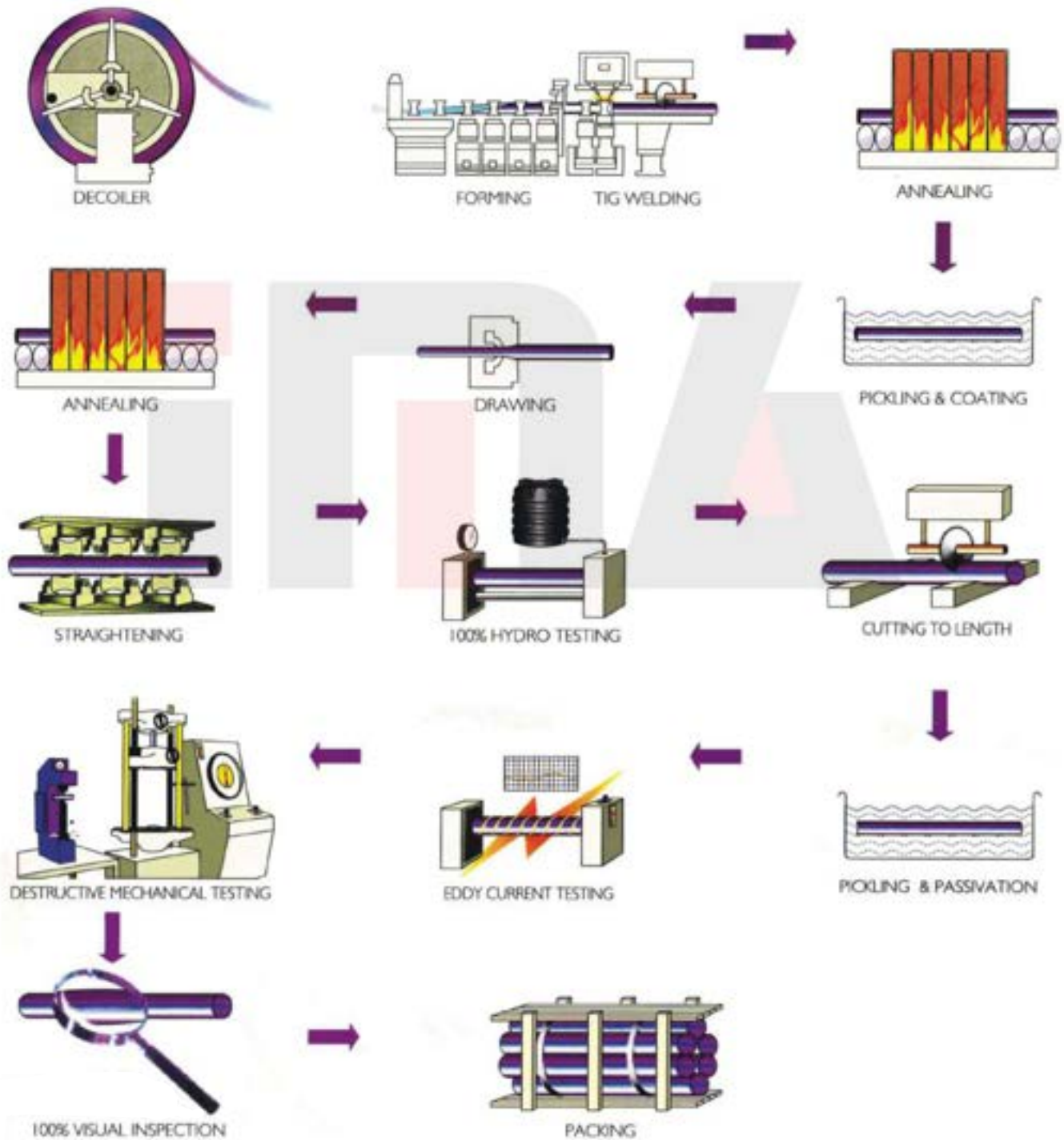




ISHWAR METALS & ALLOYS

PROCESS FLOW CHART

FOR AUTOMATIC WELDING STAINLESS STEEL PIPES & TUBES





ISHWAR METALS & ALLOYS

PIPES & TUBES

Pipes

Stainless Steel & Duplex Steel Pipe

Size	: ½" to 30"
Schedule	: Sch. 5 to Sch. XXS
Stainless Steel	: ASTM A312, A358 - TP 304/304H/304L/316/316H/ 316L/316Ti/309/310/317/317L/321/347/904L
Duplex Steel	: ASTM A790 - UNS S31803, S32750, S32760, S32205

Alloy Steel, Carbon Steel & LTCS Pipe

Size	: 1/2" to 36"
Schedule	: Sch. 5 to Sch. XXS
Alloy Steel Pipe	: ASTM A335 Gr. P5, P9, P11, P12, P22 & P91
Carbon Steel	: ASTM A 106 Gr. B ASTM A53
Low Temp. Pipe	: ASTM A 333 Gr. 6
Line Pipe	: API 5L, X 42, 46, 52, 56, 60, 70
Mild Steel &	: IS 1239, IS 3589
Galvanized Pipe	

Copper & Nickel Alloys pipe

Size	: ½" NB to 10" NB
Standard	: 10S/40S/80S
Copper Nickel	: C70600 (90:10), C71500 (70:30), C71640
Nickel	: UNS N02200, N02201
Monel	: UNS N04400, N05500, Alloy 20
Inconel	: UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	: UNS N10276, N06022, N10665, N06455

Tubes

Size	: 6 mm OD to 219.08 mm OD
Thickness	: 0.6mm-10mm-Gauge : 22 SWG/BWG to 10 SWG/BWG
Form	: Round, Square, Rectangle, Coil, 'U' Shap
Length	: Standard Length & Cut Length
Stainless Steel Tube	: ASTM A-213, A-249, A269-TP 304/304H/304L, 316/316H/316L/316Ti, TP 309, 310, 317L, 321, 347, 904 L etc.
Duplex Steel	: ASTM A790 - UNS S31803, S32750, S32760, S32205
Low Alloy Steel Tube	: ASTM A 213 - T-11, T-12, T-22, T-5, T-9 etc.
Carbon Steel Tube	: BS 3059 Gr. 360 / 440, SA 179, SA / ASTM A210 Gr. A1
Copper Nickel Tube	: ASTM B111 , C70600 (90.10), C71500 (70:30), C71640
Admiralty Brass Tube	: ASTM B 111 C44300, C44400, C44500, C68700
Copper & Brass Tube	: ASTM B 188 C11000, C12200, C26000, C27000, C28000
Nickel Alloy Tube	: Nickel, Monel, Inconel, Alloy 20 etc.
Specialize	: Capillary Tube, IBR Tubes, Copper Nickel Tube

Type :- Round | Square | Rectangle | Hydraulic

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ISHWAR METALS & ALLOYS

SHEETS, PLATES & COILS

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A240 304/304L/316/316L/316Ti/
309/310/317/317L/321/347/409/410/
430/904L/SMO 254 / AL6XN

Duplex & : Standard
Super Duplex ASTM A240 - UNS S31803/S32205 (2205)
Lean
ASTM A240 - UNS S32304 (2304)
Super Duplex
ASTM A240 - UNS S32750 (2507)
ASTM A240 - UNS S32760 (Zeron 100)

Quenched & Tempered

ASTM A537 CL.1 & 2

Boiler Quality

SA 516 Gr. 70

Hardox

Hardox 400 / 500

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B162 N02200, N02201
Inconel : ASTM B 168 N06600, N06601, N06617
ASTM B 670 N07718
ASTM B 443 N06625
Incoloy : ASTM B 409 N08800, N08810
ASTM B 424 N08825
ASTM B 462 N08020
Hastelloy : ASTM B 575 N10276, N06022
ASTM B 333 N10665

Titanium

Commercially : ASTM B 265
Pure Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)
Gr.7 R 52400 Gr.11 R 52250

Alloys : ASTM B 265
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI), Gr.12 R 53400

Alloy Steel, Carbon Steel / Mild Steel

Alloy Steel Pipe : ASTM A387 Gr. 11, 12, 22, 5, 91 (CL 1/2)
Carbon Steel : ASTM A 36
S275 JR
IS 2062 Gr. A/B

Aluminium

ASTM B 928
5083 (A95083), 5086 (A95086),
5052 (A95052) T6061 (A96061)

Spring Steel Coils

CR C55, C80, C62, C45

Cupro Nickel

ASTM B171 C70600 (90:10), C71500 (70:30)

Monel

ASTM B127 N04400, DIN N05500

Size

Sheets : 0.8mm to 4mm thk. in 1000 upto 2000 mm Width
& 2000 upto 6000 Length

Plates : 5mm to 100 mm thk. In 1000 upto 2000 mm Width
& 2000 upto 8000 Length

Coils : 0.1 mm thk. to 12mm thk. in 10mm upto 1500 Width

Foils : 0.01 mm thk. to 0.3 mm thk. in any width

Strips : 1mm thk. to 100 mm thk. in 10 mm upto 900 mm Width
& 1000 upto 6000 Length

Finish

HR No.1, 2B, BA, Matt, Matt+1 side PVC, BA + 1side PVC,
Chequered

Specializing in:

Stainless Steel Series, Hardox 400/500

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ISHWAR METALS & ALLOYS

ROUND BAR, HEX, SQUARE,

WELDING FILLER WIRE

Size :

Bright Bars	: from 5mm Dia upto 350mm Dia
Black Bars	: from 16mm Dia upto 350mm Dia
Square Bars	: from 5mm Dia upto 250mm Dia
Hex Bars	: from 5mm Dia upto 150mm Dia
Wires	: 0.1mm Dia to 5mm Dia

Specification :

Condition	: Rolled, Forged, Annealed, Picked, Hot Rolled, Cold Roll
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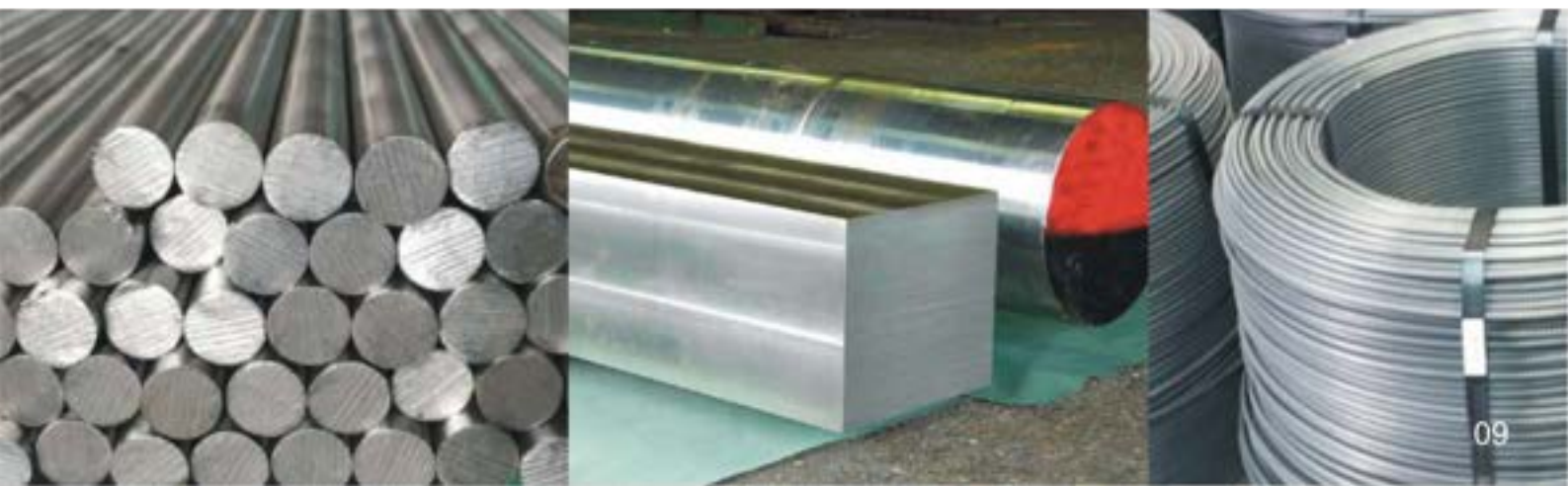
Grades :

Stainless Steel	: 304/304, 316/316L/316Ti, 321, 310/310S, 317/317L, 347, 17-4 Ph. 15-5Ph, 904L, 410, 420, 430, 431, 430F, 416, 440C etc. Copper, Brass, Aluminium, Hastalloy, Titanium, Monel, Inconel, Nickel, etc.
Duplex Steel	: UNS 31803, UNS 32205, UNS 32760
Alloy Steel	: F5, F9, F11, F22, F91 Carbon Steel, Mild Steel, Boiler Quality Plates
Specification	: ASTM, AISI, ASME, DIN, UNS etc.

Welding Filler Wire :

Nickel Alloys	: 201/200
Monel Alloy	: 400/K-500
Inconel	: 600, 601, 625, 825, 800 / 800H / 800HT
Hastalloy	: C22, C276, B-2000
Titanium	: Gr. 1, 2, 5, 7, Tantalum SMO 254, Alloy - 904L, Alloy 20, Alloy 330, etc.
Types	: Elbow, Tee, Reducer, Cap, Return Bends, Stub-Ends, Collar, Cross, Insert etc.
Size	: 1/4" NB to 4" NB.
Class	: 3000#, 6000#, 9000#.

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ISHWAR METALS & ALLOYS

STRUCTURAL STEEL

We Can Offer You Wide Variety Of Structural Steel For Your Regular Needs For Maintenance, Construction As Well As Development Of New Projects. With Tie Ups With Majority Of Manufactures We Can Offer Steel From Prime Manufacturers Like Sail / Vizag / Jindal / Tisco As Well As From Secondary Rolling & Re Rolling Manufacturers. We Offer Following Product In Our Range Of Structural Steel: mild Steel Structural.

SS / MS Angles

Grade:- IS 2062

Product Range:- The following are the sizes available.

25 x 25 x 3/5, 35 x 35 x 5, 40 x 40 x 5/6, 45 x 45 x 4/5/6,
50 x 50 x 5/6, 60 x 60 x 6/8, 65 x 65 x 6/8/10, 75 x 75 x 6/8/10,
80 x 80 x 6/8, 90 x 90 x 6/8/10, 100 x 100 x 6/8/10/12,
110 x 110 x 8/10/12, 130 x 130 x 10/12, 150 x 150 x 10/12,
150 x 150 x 16/20 200 x 200 x 16/20

All the above mentioned sizes are in mm.

SS / MS Beam

Light, Medium, Standard

Grade:- IS 2062

Product Range:- The following are the sizes available.

100 x 50, 125 x 70, 150 x 75, 175 x 85, 200 x 100, 250 x 125,
300 x 140, 350 x 140, 400 x 150, 450 x 150, 500 x 180, 600 x 210.

All the above mentioned sizes are in mm

SS / MS Channel

Grade :- IS 2062

Product Range:- The following are the sizes available.

75 x 40, 100 x 50, 125 x 75, 150 x 75, 175 x 75, 200 x 75,
250 x 80, 300 x 90, 350 x 100, 400 x 100.

All the above mentioned sizes are in mm

SS / MS Rounds Bars

Product Name:- Wire Rods

Grade:- Low Carbon - 5WR-14 / IS:2062 Gr. A

Product Range :- Diameters available (unit mm),

5mm to 250mm

All the above mentioned sizes are in mm

These are available in straight lengths (as mutually agreed).

TMT Bars

We have a wide range of TMT Re Bars which are available in various types & from Various Primary & Secondary Manufacturers.

Above Material can be offered in Grades Like FE 415 / FE 500

With Manufacturing Test certificate.

SS / MS Flats

Available in size : 21 x 6 mm to 300 x 16 mm

SS / MS Square Bars

Available in size : 10 x 10 mm to 63 x 63 mm





ISHWAR METALS & ALLOYS

BUTTWELD FITTINGS

Stainless Steel & Duplex Steel

Stainless Steel	: ASTM A 403 WP - 304/304H/304L/316/316H 316/316Ti, 309, 310, 317L, 321, 347, 904L
Duplex & Super Duplex	: Standard ASTM A815 - UNS S31803, S32205 (2205) Lean ASTM A815, 790 - UNS S32304 (2304) Super Duplex ASTM A815, 790 - UNS S32750 (2507) UNS S32760 (Zeron 100)

Hi-Nickel & Titanium

Hi-Nickel

Cupro Nickel	: ASTM B 171 C70600 (90:10), ASTM B 171 C71500 (70:30)
Nickel	: ASTM B 366 N02200, N02201
Monel	: ASTM B 366 N04400, DIN N05500
Inconel	: ASTM B 366 N06600, N06601, N06617 ASTM B 366 N07718 ASTM B 366 N06625
Incoloy	: ASTM B 366 N08800, N08810 ASTM B 366 N08825 ASTM B 366 N08020
Hastelloy	: ASTM B 366 N10276, N06022 ASTM B 366 N10665 ASTM B 366 N06455

Types

Stubend - (Long & Short)	Elbow (45 DEG, 90 DEG, 180 DEG)
U Bend	Tee - (Barred, Equal, Reducing)
End Cap	Reducer - (Concentric & Eccentric)
Laterals	Nipple - (Swage & Barrel)

Alloy Steel & Carbon Steel

Alloy Steel	: ASTM A 234 WPB WP5, WP9, WP11, WP12, WP91
Carbon Steel	: ASTM A 234 WPB, IS 1239 PART II
Low Temp. CS	: ASTM A-420 WPL6
Other Service	: Hot Dip Galvanizing, Sand Blasting

Cupro Nickel

ASTM B 171 C70600 (90:10),
ASTM B 171 C71500 (70:30)

Titanium

Commercially Pure	: ASTM B 363 Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3) Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1) Gr.7 R 52400 Gr.11 R 52250
Alloys	: ASTM B 363 Gr.5 R 56400 (6Al-4V) Gr.23 R 56401 (6Al-4V-ELI) Gr12 R 53400

Monel

ASTM B 366 N04400
DIN N05500

Size

Pipes	: ½" to 30"
Schedule	: Sch. 5 to Sch. XXS

Specializing in:

Hi-Nickel & Stainless Steel Series

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 www.ishwarmetals.com

ISHWAR METALS & ALLOYS

FORGED FITTINGS

Size

Size : 15NB To 100NB (Socket Weld & Threaded)
Class : 3000#, 6000#, 9000#, In ANSI B 16.11

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 182F - 304/304H/304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L
Duplex & : ASTM A 182 - F51, F53, F55
Super Duplex

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201
Inconel : ASTM B 564 N06600, N06601, N06617
ASTM B 564 N07718
ASTM B 564 N06625
Incoloy : ASTM B 564 N08800, N08810
ASTM B 564 N08825
ASTM B 564 N08020
Hastelloy : ASTM B 564 N10276, N06022
ASTM B 564 N10665
ASTM B 564 N06455

Types

Elbow (45 & 90 Deg)	Coupling
Tee	Cap
Union	Plug
Cross	Bushing
Swage Nipple	Boss

Titanium

Commercially : ASTM B 381
Titanium Pure : Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)
Gr.7 R 52400 Gr.11 R 52250

Titanium Alloys : ASTM B 381
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Cupro Nickel

ASTM B 171 C70600 (90:10),
ASTM B 171 C71500 (70:30)

Monel

ASTM B 564 N04400
DIN N05500

Alloy Steel & Carbon Steel

Alloy Steel : ASTM A 234 WPB WP5, WP9, WP11,
WP12, WP91
Carbon Steel : ASTM A 234 WPB, IS 1239 PART II
Low Temp. CS : ASTM A-420 WPL6
Other Service : Hot Dip Galvanizing, Sand Blasting

Specializing in: **Hi-Nickel & Stainless Steel Series**

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ISHWAR METALS & ALLOYS

TUBE FITTING & FASTENERS

TUBE FITTING

Size	: 1/16" to 2"
Type	: Union tee, Female tee, Branch tee, Run tee, Male connector, Female connector, Elbow, 3 Bulk Head Union, Reducing Union, OD Cap, OD plug,.
SS Tube fittings	: Gr. 304, 304H, 309, 310, 316, 316L, 317L, 347, 321, 904L
Duplex S S Tube Fittings	: UNS N031803, N032750, N032760
CS Tube Fittings	: A105
AS Tube Fittings	: Gr. 5 , Gr.9, Gr.11, Gr.12, Gr.22, Gr.91
Cu Ni Tube Fittings	: C 70600 (90:10), C71500 (70:30)
Nickel	: UNS N02200, N02201
Monel	: UNS N04400, N05500, Alloy 20
Inconel	: UNS N06600, N06601, N08800 , N08810, N08825
Hastelloy	: UNS N10276, N06022, N10665, N06455
Other Services	: Silver Plating
Specialize	: Double compression fitting, Ball Valve, Needle, Check.

FASTENERS

Material	: Stainless Steel / Duplex / Super Duplex / Nickel Alloy / Carbon Steel / Alloy Steel
Standard	: ASTM / ASME / ANSI / AISI / DIN
Grade	: 202, 304L, 316L, 317L, 321, 347, 310, 410, 420, 904L, 2205, 2507, Monel, Inconel, Hastelloy, Titanium etc.
Types	: Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares etc.
Size	: M2 to M100

Types

Union tee	Elbow
Female tee	Bulk head union
Branch tee	Reducing union
Run tee	OD cap
Male Connector	OD plug
Female Connector	

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ISHWAR METALS & ALLOYS

S S INSTRUMENTAL

FERRULE FITTINGS



Union Elbow



Male Elbow



Female Elbow



Union Tee



Male Run Tee



Male Branch Tee



Female Run Tee



Female Branch Tee



Union Cross



45 Deg. Elbow



Tube end Closure



Bulk Head Elbow



Positionable Male Elbow



Nut Ferrule



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector



Male Adaptor

Syphon Tubes



- Type : Stainless Steel 304 & 316 Gr. in U type, Trumpet Type (Pigtail & Coil Type)
- Application : Connected between the pressure gauge & process in applications where high temperature above 65 Deg C for e.g., steam. These Syphon Tubes act as a cooling coil and protect the gauge from high temperature vapors.

S. S. Tee / Elbow Ferrule Fittings

- S.S. Union Tee
- S.S. Male Branch Tee
- S.S. Female Branch Tee
- S.S. Male Elbow
- S.S. Cross
- S.S. Valve Body
- S.S. Union

S. S. Forged Tee / Elbow / Cross



MANIFOLD VALVE



CONDENSATE POT



S.S. FORGED BLIND
HEX TEE



S.S. FORGED BLIND
HEX ELBOW



S.S. ELBOW 45°



S.S. CROSS





ISHWAR METALS & ALLOYS

FLANGES

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 182F - 304/304H/304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L

Duplex & : ASTM A 182 - F51, F53, F55
Super Duplex

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201
Inconel : ASTM B 564 N06600, N06601, N06617
ASTM B 564 N07718
ASTM B 564 N06625
Incoloy : ASTM B 564 N08800, N08810
ASTM B 564 N08825
ASTM B 564 N08020
Hastelloy : ASTM B 564 N10276, N06022
ASTM B 564 N10665
ASTM B 564 N06455

Titanium

Commercially Pure : ASTM B 381 Gr.1 R 56250 (CP4)
Gr.2 R 50400 (CP3) Gr.3 R 50550 (CP2)
Gr.4 R 50700 (CP1) Gr.7 R 52400
Gr.11 R 52250
Alloys : ASTM B 381 Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Alloy Steel, Carbon Steel & LTCS Pipe

Alloy Steel : ASTM A 234 WPB WP5, WP9, WP11,
WP12, WP91

Carbon Steel : ASTM A 234 WPB, IS 1239 PART II

Low Temp. CS : ASTM A-420 WPL6

Other Service : Hot Dip Galvanizing, Sand Blasting

Cupro Nickel & Monel

Copper Nickel : ASTM B171 C70600 (90:10),
ASTM B171 C71500 (70:30)

Monel : ASTM B127 N04400
DIN N05500

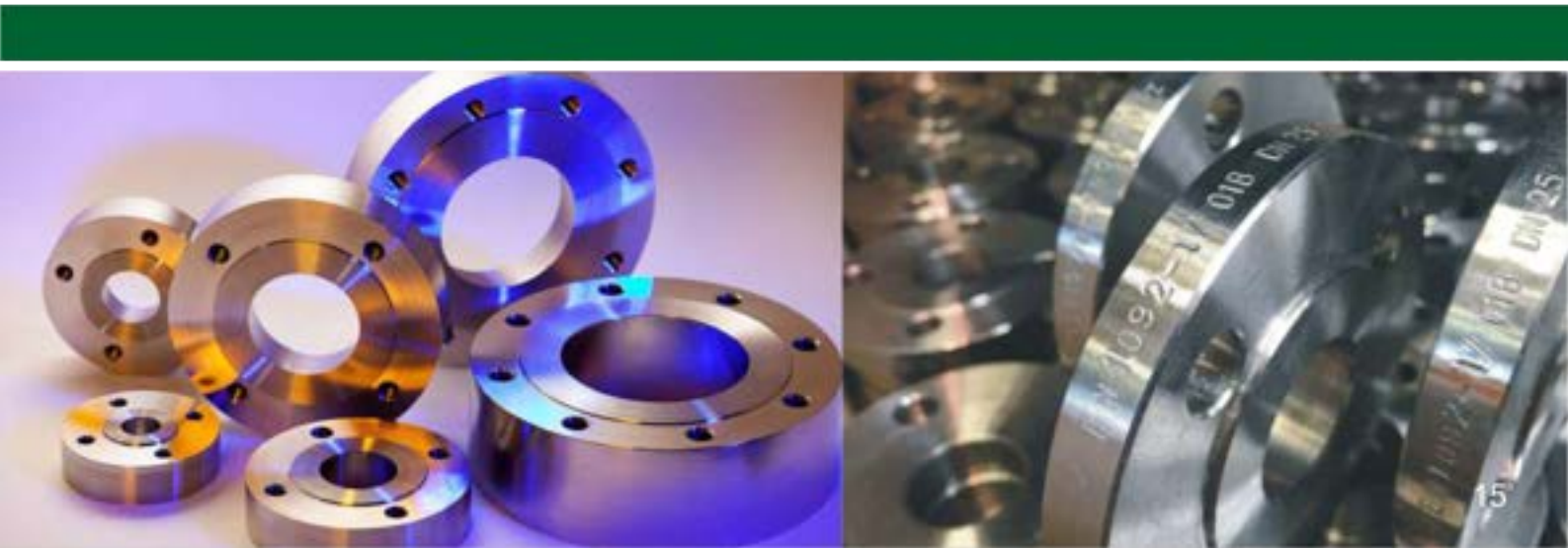
Size : 1/2"NB to 48"NB, ANSI B 16.5

Class : 150#, 300#, 600#, 900#, 1500#, 2500#,
in ASA 150 & ASA 300

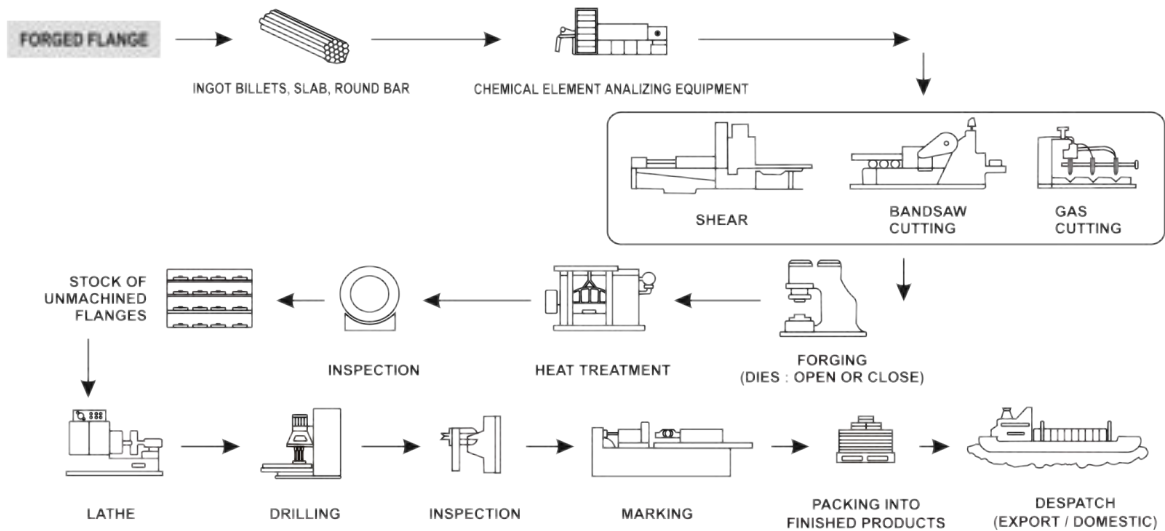
Types

Weldneck	Screwed / Threaded
Socketweld	Long Weldneck
Slip on	Lapped Joint
Blind	Spectacle Blind

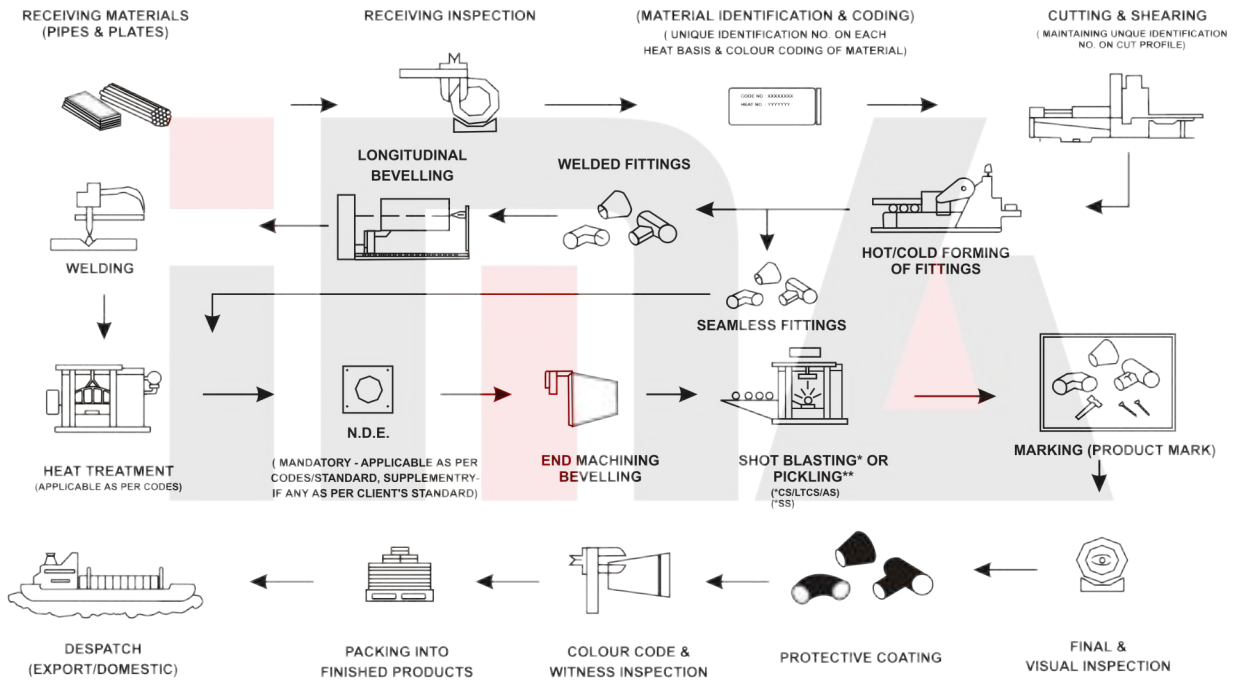
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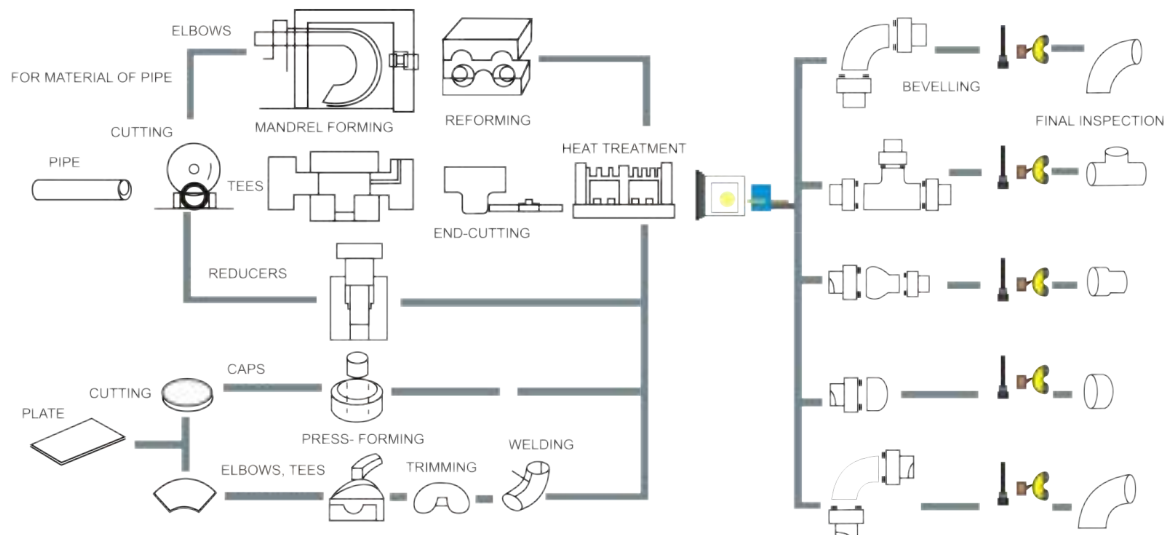
SCHEMATIC DETAILS OF PRODUCTION PROCESS FOR FLANGES



SCHEMATIC DETAILS OF MANUFACTURING PROCEDURE OF BW PIPE FITTINGS



SOCKETED MANUFACTURING FLOW CHART



NOTE : 1) STAGE WISE & ONLINE INSPECTION AT EVERY STAGE AND PROCESS BY 100%

2) UNIQUE IDENTIFICATION NO. MAINTAINED AT EACH & EVERY STAGE OF PROCESS FOR TRACEABILITY BACK TO THE STARTING RAW MATERIAL.



ISHWAR METALS & ALLOYS

S S PIPE CHART

CHEMICAL REQUIREMENTS OF STAINLESS STEEL PIPES AS PER ASTM A312.

Grade	UNS Designation ^a	Composition, % ^a										Other Elements
		Carbon	Manganese	Phosphorus	Sulfur	Silicon	Chromium	Nickel	Molybdenum	Nitrogen ^c		
TP304	S30400	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	...	...	...	
TP304L	S30403	0.035 ^b	2.00	0.045	0.030	1.00	18.0-20.0	8.0-13.0	...	...	...	
TP304H	S30409	0.04-0.10	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	...	...	...	
TP304LN	S30453	0.035	2.00	0.045	0.030	1.00	18.0-20.0	8.0-12.0	...	0.10-0.16	...	
TP309S	S30908	0.08	2.00	0.045	0.030	1.00	22.0-24.0	12.0-15.0	0.75	...	...	
TP309H	S30909	0.04-0.10	2.00	0.045	0.030	1.00	22.0-24.0	12.0-15.0	...	...	...	
TP310S	S31008	0.08	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	0.75	...	...	
TP310H	S31009	0.04-0.10	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	...	...	...	
TP316	S31600	0.08	2.00	0.045	0.030	1.00	16.0-18.0	11.0-14.0 ^e	2.00-3.00	...	...	
TP316L	S31603	0.035 ^b	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00	...	...	
TP316H	S31609	0.04-0.10	2.00	0.045	0.030	1.00	16.0-18.0	11.0-14.0 ^e	2.00-3.00	...	...	
TP316LN	S31653	0.035	2.00	0.045	0.030	1.00	16.0-18.0	11.0-14.0 ^f	2.00-3.00	0.10-0.16	...	
TP317	S31700	0.08	2.00	0.045	0.030	1.00	18.0-20.0	11.0-14.0	3.0-4.0	...	...	
TP317L	S31703	0.035	2.00	0.045	0.030	1.00	18.0-20.0	11.0-15.0	3.0-4.0	...	...	
TP321	S32100	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	0.10	Ti (5 X C)-0.70	
TP321H	S32109	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	...	Ti (4 X C)-0.60	
TP347	S34700	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0	...	...	Cb (10 X C)-1.00	
TP347H	S34709	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0	...	...	Cb (8 x C)-1.00	

^a Maximum, unless otherwise indicated.

^b New designation established in accordance with Practice E 527 and SAE J 1086.

^c The method of analysis for nitrogen shall be a matter of agreement between the purchaser and manufacturer.

^d For small diameter or thin walls or both, where many drawing passes are required, a carbon maximum of 0.040 % is necessary in grades TP304L and TP316L. Small outside diameter tubes are defined as those less than 0.500 in. [12.7 mm] in outside diameter and light wall tubes as those less than 0.049 in. [1.20 mm] in average wall thickness (0.044 in. [1.10 mm] in minimum wall thickness).

^e For welded TP316, TP316LN, and TP316H pipe, the nickel range shall be 10.0-14.0 %.

* Although every care has been taken during the production of this brochure, we regret that we cannot accept any liability in respect of any incorrect information it may contain or any damages which may arise through the misinterpretation of its contents



ISHWAR METALS & ALLOYS

EXTRA SERVICES & FORMULA

THE FOLLOWING EXTRA SERVICES ARE AVAILABLE ON REQUEST

Extra Services

Standard Packing

In bundles with protective foil wrapping in wooden crates / cases. For smaller tubes on shelf fittings in carton boxes

Cutting to lengths

Cutting from 3.00 mm O.D. up to 406 mm. high volume tube cutting.

Polishing

We polish over a range of sizes from 6.00 mm O.D. up to 406 mm O.D. although sizes bigger than 168 mm are hand polished, not mechanical. Polishing standards are grit 180, 240, 320, 400 and mirror

On the inside we polish from 6.00 mm up to 168 mm. Other facilities are honing and electro polishing, which we can supply till 0.2 μ smoothness.

Cleaning

For normal degrease standard and also for the much higher standard of "Oxygen clean" treatment, where air, gas, powder or other substances of high purity require non-contaminated surface finish. Reannealing from 6.00 mm upto 323 mm. Special cleaning will be applied by customers request!

Extra testing

All chemical and mechanical testing. Hardness according to : Rockwell, Brinell, Vickers and NACE MR 01-75. X-ray, Magnetic Permeability and ultrasonic testing. Witnessing by independent authorities as Lloyds Register of shipping, Det Norske Veritas, TUV, Bureau Veritas, ABS, Germanischer Lloyd and EIL or any other certifying authority.



FORMULA OF CALCULATING WEIGHT

● WEIGHT OF STAINLESS STEEL / CARBON STEEL PIPES & TUBES

OD (mm) - W.T. (mm) X W.T. (mm) X 0.02466 = KG. / MTR.

● WEIGHT OF STAINLESS STEEL SHEETS

Length (mm) x Width (mm) x Thk. (mm) x 0.000008 = KG. / SHEET

● WEIGHT OF CARBON STEEL SHEETS

Length (mm) x Width (mm) x Thk. (mm) x 0.000008 = KG. / SHEET

● WEIGHT OF STAINLESS STEEL CIRCLE & BLANKS

O.D. (mm) x O.D. (mm) x Thk. (mm) x 0.0000063 = KG./PCS.

● WEIGHT OF STAINLESS STEEL ROUNDS

Dia. (mm) x Dia. (mm) x 0.00623 = KG. / MTR.

● WEIGHT OF STAINLESS STEEL HEXAGONAL RODS

Dia.(mm) x Dia. (mm) x 0.00679 = KG. / MTR.

● WEIGHT OF STAINLESS STEEL SQUARE RODS

Dia. (mm) x Dia. (mm) x 0.00787 = KG. / MTR.

● WEIGHT OF COPPER PIPES

O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.0285 = KG. / MTR.

● WEIGHT OF ALUMINUM PIPES

O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.0282 = KG. / MTR.

● WEIGHT OF ALUMINUM SHEETS

Length (mtr.) x Width (mtr.) x Thk. (mm) x 2.66 = KG. / SHEET

● WEIGHT OF LEAD SHEETS

Length (mtr.) x Width (mtr.) x Thk. (mm) x 11.2 = KG. / MTR.

● SHEET WIDTH REQD. FOR ROLLED & WELDED PIPES

O.D. (mm) - Thk. (mm) x 3.14 = SHEET WIDTH (mm)

● WEIGHT FOR SQUARE / RECTANGLE PIPES

Length from 4 Angle (OD) / 3.14 - Thk. (mm) x Thk. (mm) x 0.00756 = KG. / PER FEET

● WEIGHT FOR CONVERSION OF MTR. TO FEET

Weight of 1 Mtr. $\div$ 3.2808 = Feet

● FORMULA FOR HEALTHY BUSINESS

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+ Reasonable rate = Good Health of Business



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