



Hiren Metal & Tools

Since 1990



Click to Connect Us :



"WE DO IT FOR PASSION, NOT FOR COMPETITION"

HIREN METAL & TOOLS established in the Year 1990 by the visionary Shri Ramesh V. Shah, whose steely determination has proliferated the company's strength by excelling in Manufacturing, Export, Stock and Trade in Piping & Piping related products for Industrial application. He laid the foundation of this futuristic venture with the aim to reduce the stress of client by providing A Total Piping Packages to All Parts of India in One Shot.

Since then HIREN METAL & TOOLS has acquired a vast knowledge in production technologies and distribution strategies which has also helped to strengthen the relationship with the clients.

Our presence in this industry for more than 30 years has helped us to provide the expertise solutions to each requirement with the aim to give complete customer satisfaction. Our aim is to take it further by building partnerships fostered by trust and mutual understanding, providing genuine and best quality products to our customers.

The next generation Mr.Hiren R. Shah & Mr.Hissan R. Shah is even into the business and with their new ideas and strategies they had widespread the business to All Parts Of India & Overseas.

Why Us :

Some of our specialties, which make us a preferred business partner for our clients are:

- ✓ Quality and Innovation & Customization
- ✓ Timely Deliveries or Earliest Deliveries
- ✓ Unending Pursuit of Product, Process and Performance Optimization
- ✓ Strategic Location
- ✓ Competitive Prices
- ✓ Third Party Inspection
- ✓ Excellent Customer Responsiveness
- ✓ Single Point Solution

More Than 30 Years Of Experience

INDUSTRY WE SERVE

Over these years of our inception, we have grown into a highly established brand and serve a long list of customers from domestic & overseas. Today majority of our revenues come from Our clients come from different industrial backgrounds, which include Oil & Gas, Power Plants, Chemicals, Refineries, Mining, Distilleries Petrochemical, Pharma, Pulp & Paper, Fertilizer, Nuclear Plants, Food Processing, Water Treatment Plant, EPC Contractor, Process Equipment Industry. We can provide for the third party inspection of our products from reputed agencies such as LLOYDS, EIL, TUV, Bureau Veritas, etc.

Our quality assurance program is documented in an approved quality assurance manual, which covers all manufacturing, sales and services procedures. We exercise stringent quality control measures for ensuring the accurate dimensions and mechanical properties of our products. Our quality assurance system assures each product to pass through following processes and quality systems.

VALUABLE CLIENTS



INTERNATIONAL CLIENTS



More Than 30 Years Of Experience

A TOTAL PIPING SOLUTION COMPANY



PIPES & TUBES

Electric Resistance/Fusion
Welded (ERW/EFW)
Seamless(SMLS)
Submerged Arc Welded
(SAW/LSAW/HSAW)



PIPE FITTINGS

Elbow, Tee, Reducer (Concentric/
Eccentric), Cap, Stubend, Coupling,
Union, Cross, Bush, Plug, Swage Nipple,
Adapter, Weldolet, Sockolet, Thredolets.
(Butt-weld/Socket weld/Screwed End)



FLANGES

Weldneck, Slipon, Blind, Plate,
Socket Weld, Lap Joint,
Spectacles, Ring Joint, Orifice,
Long Weldneck, Tongue &
Groove Flange, etc.



FASTENERS & STUDS

Types : Hex Head Bolt, Stud Bolt,
Allen Cap, CSK, Grub Screw, Eye
Bolts, Nuts & Washer, Anchor
Fasteners (Pin&Wedge), U-Bolts
Clamps, & Foundation Bolt, Shoe
clamp.

Grade: 4.6, 5.6, 8.8, 10.9, 12.9
(Mild Steel & High Tensile)

Stud Bolt of A193 Gr. B7, L7, B8, B8M &
Nut of A194 Gr. 2H, Gr.7, Gr.8 & Gr.8M.



GASKETS

All Types of Gasket Sheet, Ring Type
Joint Gaskets (RTJ), Spiral wound
Gaskets, Kammprofile Gaskets, Heat
Exchanger Gaskets, Double Jacketed
Gaskets, Insulating Kit Gaskets,
Insulating Joint (Monolithic Insulation
Joints).



VALVES

Gate/ Globe/ Ball/ Butterfly/
Check/ Needle/ Manifold, NRV,
PRV, Sluice Valves, Knife Gate
Valves, Safety Valves Pneumatic
Valves, Air Valves, Steam Trap
(TDS), Strainers ("Y" & "T"),
Actuator Valves & Sight Glass.

Type : Gear Operated Valves
and Hand Wheel Operated
Valves

End : Flanged End/Butt-weld
Socket-weld/Forged &
Threaded.

More Than 30 Years Of Experience



PIPES & TUBES

Types:

- SEAMLESS, ERW – ELECTRIC RESISTANCE WELDED, SUBMERGED ARC WELDED (SAW)

CARBON STEEL PIPES:

- ASME/ASTM A 106 GR. A/B/C OR A 53 GR. B
- API 5L GR. B • API 5L X42, X46, X60, X65, X79, PSL1 & PSL2
- ASME/ASTM A333 CR. 6, GR. 1
- Makes – MSL/JSL/ISMT/UTSPL

ALLOY STEEL PIPES:

- ASTM A335 Cr. P5, P9, P11, P12, P21, P22 & P91.
- MS BLACK & GALVANIZED PIPES:
 - IS:1239 PART-1 LIGHT (A), MEDIUM (B), HEAVY (C) & IS:3589 GR. FE. 330/410
- SPIRAL WELDED PIPES (SAW)

STAINLESS STEEL PIPES & TUBES:

- ASME/ASTM A-312 TP-304, 304L, 316, 316L, 310, 317L, 321, 347, 904L

ENDS:

- Plain End, Beveled End, Threaded



**CARBON STEEL
SEAMLESS PIPES**



**ALLOY STEEL
PIPES & TUBES**



**STAINLESS STEEL
PIPES & TUBES**



**NICKLE BASED
PIPE & TUBES**



**MS ERW BLACK
PIPES**



**LARGE DIAMETER
SPIRAL WELDED PIPES**



GI PIPES



**SQUARE &
RECTANGULAR PIPES**

More Than 30 Years Of Experience



BUTT-WELD PIPE FITTINGS

- Welded Fittings
- Seamless Fittings
- 45D Elbow
- 90 Deg Elbow
- 180 Deg Elbow
- SR Elbow (Short Radius Elbow)
- LR Elbow (Long Radius Elbow)
- End Cap
- Equal Tee
- Reducing / Unequal Tee
- Eccentric Reducer
- Concentric Reducer
- Equal Cross
- Short Stub End
- Long Stub End
- Lap Joint Stub End

Type:

- BUTTWELD/ SOCKETWELD/ SCREWED-END

Process:

- Seamless (SMLS), Electric Resistance Welded (ERW), AND FABRICATED.

Size:

- Seamless - Upto 24"
- ERW - Upto 48"

Degree: 22.5', 45', 90', 180'.

Radius: 10, 150, 20, 30, 50, 100.

Carbon Steel :

- ASME / ASTM A234 Gr.WPB/WPC, ASTM A105/A105N ASME / ASTM A860 WPHY 42/46/52/56/60/65/70, A694 F42/46/52/56/60/65/70

ASME/ASTM A420 Gr.WPL6,Gr.1, A350 LF3/ A350 LF2.

MS Black & Galvanized :

- IS-1239 & IS-3589-LIGHT/ HEAVY/ MEDIUM

Stainless Steel :

- ASTM A403 WP 304 /304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L
- ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L

Alloy Steel:

- ASME/ ASTM A234 Gr. WP1, Gr. WP91, ASTM A182 F1/ F5/ F9/ F11/ F22/ F91

- Other Non Ferrous Metals & Nickel Based Alloys : Nickel, Monel, Inconel, Incoly, Hastalloy, Titanium, Tantalum, Duplex, Super-Duplex, Etc.



OUR SPECIALIZED PRODUCT ELBOW

Buttweld 90° Pipe Elbows is one of the highly demandable products that are available in a variety of metals, materials, and sizes.

More Than 30 Years Of Experience



FORGED FITTINGS

- Socket Weld 90 Deg Elbow
- Socket Weld 45 Deg Elbow
- Socket Weld Tee
- Socket Weld Unequal Tee
- Socket Weld Cross
- Socket Weld Unequal Cross
- Socket Weld Half Coupling
- Socket Weld Full Coupling
- Socket Weld Pipe Cap
- Socket Weld Union
- Threaded / Screwed Street Elbow
- Threaded / Screwed Union
- Threaded / Screwed Hex Plug
- Threaded / Screwed 90 Deg Elbow
- Threaded / Screwed 45 Deg Elbow
- Threaded / Screwed Tee
- Threaded / Screwed Cross
- Threaded / Screwed Pipe Nipple
- Threaded / Screwed Bushing
- Threaded / Screwed Hex Nipple

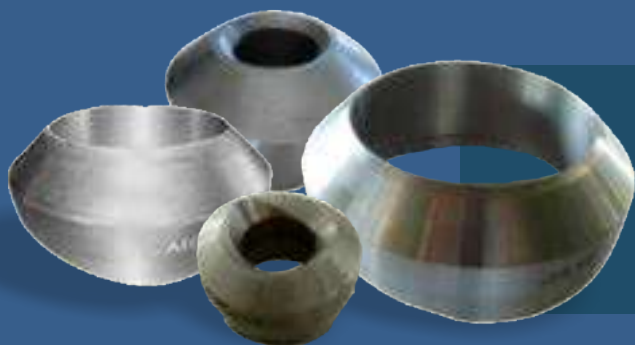
DIMENSIONS : ASME 16.11, MSS SP-79, MSS SP-95, 83, 95, 97, BS 3799

SIZE : 1/8" NB TO 4" NB

PRESSURE CLASS : 3000 LBS, 6000 LBS, 9000 LBS

FORM : Forged Socket Weld & Threaded / Screwed .

MATERIAL : Carbon Steel, Alloy Steel, Stainless Steel, Duplex & Super Duplex Steel, Cooper, Hast alloy, Nickel.



OLETS

OLET FITTINGS (also called Branch Connection Fittings or Outlet Fittings) are fittings which provide an outlet from a larger pipe to a smaller one (or one of the same size). The main pipe onto which the branch connection is welded is usually called the Run or Header size.

DIMENSIONS : ASME 16.11, MSS SP-97.

SIZE : 1/2" to 24"

PRESSURE CLASS : 3000 LBS, 6000 LBS, 9000 LBS

FORM : Welding Olets, Threaded Olets, Sockolets.

MATERIAL : Carbon Steel, Alloy Steel, Stainless Steel, Duplex & Super Duplex Steel, Cooper, Hast alloy, Nickel.



FLANGE

- Forged Flanges
- Weld Neck Flanges (WNRF)
- Long Weld Neck Flanges
- Slip On Flanges (SORF)
- Blind Flanges (BLRF)
- Socket Weld Flanges (SWRF)
- Threaded / Screwed Flanges
- Lap Joint Flanges
- Plate Flanges
- Reducing Flanges
- DIN Flanges
- BS 10 Flanges
- ANSI B16.47 Flanges
- ASME B16.5 Flanges
- Male & Female Flanges
- Tongue & Groove Flanges
- Raised Face Flanges
- Ring Type Joint Flanges (RTJ)

• FOUR TYPES OF COMMONLY USED FLANGES •



SLIP-ON FLANGES

USED TO CONNECT BIGGER PIPING COMPONENTS AND SUITABLE FOR LOW PRESSURE AND TEMPERATURE APPLICATION.



WELDING NECK FLANGES

USED FOR HIGH PRESSURE & TEMPERATURE APPLICATION IN PROCESS PIPINGS. WELD NECK FLANGE IS FLANGES THAT DESIGNED TO BE JOINED TO A PIPING SYSTEM BY BUTT WELDING.



BLIND FLANGES

USED FOR HIGH PRESSURE APPLICATION TO ISOLATE THE PIPING SYSTEM OR CLOSE THE END OF A PIPE.



SOCKET WELD FLANGES

USED TO CONNECT RELATIVELY SMALL DIMENSION SUITABLE FOR LOW PRESSURE AND TEMPERATURE APPLICATION.

FASTENERS



BOLTS & SCREWS



STUD BOLTS



NUTS



WASHERS

Types : Hex Head Bolt, Stud Bolt, Allen Cap, CSK, Grub Screw, Eye Bolts, Nuts & Washer

Mild Steel : Gr 4.6, 5.6

Carbon Steel & High Tensile : Gr 8.8, 10.9, 12.9, B7, L7, B8, B8M & Nut of A194 Gr. 2H, Gr. 7, Gr. 8 & Gr. 8M

Stainless Steel : SS 304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L.



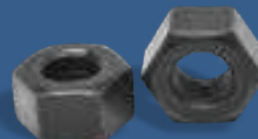
ASTM A193 Grade B7 + ASTM A194 Grade 2H

ASTM A193 Grade B7 is a standard specification for high tensile alloy steel bolting material for use in high temperature or high-pressure service and other special purpose applications. It covers material specification for bolting used in pressure vessel service, valves, flanges and fittings. ASTM A193 defines both SI (Metric) and inch-pound units.

Grade B7 is a heat-treated chromium-molybdenum (Cr-Mo) alloy steel with minimum tensile strength requirement of 125 ksi, yield 105 ksi, and maximum hardness of 35HRC. HMT uses Alloy Steel AISI 4140 bar stock or forging stock to produce B7 headed and non-headed bolts. A193 Grade B7 is the most commonly used Bolt specification coupled with A194 Grade 2H Nuts for Bolting Carbon Steel pipeline. A193 B7 bolting is available in metric sizes from M6 to M180 and imperial sizes from 1/4 to 7 inches, in diameter.



ASTM A193 GR.B7 STUD BOLT



ASTM A194 GR.2H HEX NUT

HMT is a manufacturer and supplier of A193 Grade B7 fasteners in form of Stud Bolts (Studs), Hex Bolts, Socket Head Cap Screws, Threaded Rods, Heavy Hex Bolts, Hex Screws, Double End Studs, Eye Bolts, Galvanized Hex Bolts, Anchor Bolts, etc.

Surface Coatings :

- PTFE Coated
- Zinc Plated
- Cadmium Plated
- Black Phosphate
- Hot Dip Galvanized

More Than 30 Years Of Experience

VALVES

**BALL
VALVES**



**BUTTERFLY
VALVES**



**GATE
VALVES**



**GLOBE
VALVES**



**CHECK
VALVES**



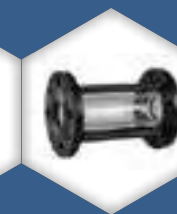
**STEAM
TRAP**



STRAINER



**SIGHT
GLASS**



A valve is a device or natural object that regulates, directs or controls the flow of a fluid (gases, liquids, fluidized solids, or slurries) by opening, closing, or partially obstructing various passageways.

GASKETS

All Types of Ring gaskets, RTJ Ring Joint Gasket, Spiral Wound Gaskets, Monolithic Insulation Joint & Gasket Sheets.

Cut Soft Gaskets manufactured as per the ANSI B 16.20 standard covering RF & FF type flanges (This includes the gaskets made out of Asbestos, Non Asbestos, PTFE, Graph oil/Graphite, Ceramic, Rubber etc.), Gland Packing Ropes, PTFE/ RUBBER/ GRAPHITE Sheets, Ropes, Tapes, Packing, Tubes, Rods, Bushes, 'O' rings, Pads, Gaskets.

SPIRAL WOUND GASKET

Spiral Wound Gaskets are ideal for applications that demand a gasket with the highest-quality flexibility and recovery to maintain a seal even in conditions characterized by fluctuating temperature and pressure.



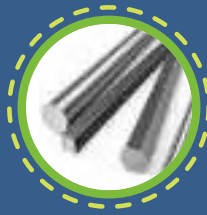
Composed of a steel centering (outer) ring, a spiral wound sealing strip (filler) and an inner ring made of special steel, spiral wound gaskets are created by winding alternating strips of metal and filler material. Depending on the chemical compatibility requirements, the filler and winding material can be changed.

The spiral wound gasket depends upon the mechanical characteristics of a formed metal spiral strip, rather than the compressive virtues of more traditional gasket materials. This makes it particularly suitable for low or fluctuating bolt loads. The sealing strips, or fillers, are usually graphite, although other materials such as PTFE, Non-Asbestos, ceramic, may be used, the windings are always steel.

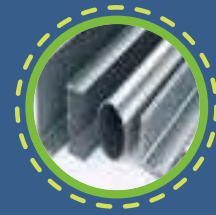
STRUCTURAL STEEL



PLATES/ SHEET/ COIL



BARs LIKE ROUND/FLAT/HEX-SQUARE



ANGLE/ CHANNEL/ BEAM-ROUND PIPES/SQUARE PIPES/ RECTANGULAR PIPES

MATERIAL : FERROUS MATERIAL LIKE MILD STEEL, CARBON STEEL, GALVANIZED STEEL, STAINLESS STEEL-ALL GRADE,

NON-FERROUS MATERIAL LIKE ALUMINIUM, COPPER, LEAD, NICKLE, TIN, TITANIUM, ZINC AS WELL AS COPPER ALLOYS LIKE BRASS AND BRONZE.

SURFACE FINISH : 2B , BA , MATT, MIRROR OR SILVER ,CR , HR AND COLOURED FINISH OR AS PER CUSTOMER REQUIREMENTS

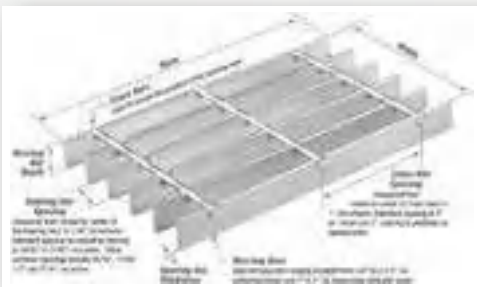
MANUFACTURING METHOD: HOT ROLLED AND COLD ROLLED

METAL GRATINGS & HAND-RAILING



- ELECTROFORGED
- GRATINGS
- MANUAL CUSTOMIZED GRATINGS
- PLATFORM GRATINGS
- DRAIN GRATINGS
- CIRCULAR THREADS
- STAIR THREADS
- WALKWAY GRATINGS
- GRATINGS FIXING CLAMPS
- LADDERS & PLATFORMS
- HAND- RAIL PIPES
- PIPE FITTINGS FOR HAND-RAILING
- TOE GUARD & FLAT GUARD

PRODUCT SPECIFICATIONS OF GRATINGS



VERIFY OF APPLICATION

- OIL & GAS
- MARINE & SHIP
- POWER PLANTS
- WASTE WATER TREATMENTS
- STAIR TREADS
- BRIDGE
- WALKWAY
- SPLATFORMS
- DRAIN COVERS
- INDUSTRIALS FLOORINGS
- TANK LANDINGS
- TRENCH GRATINGS

- **MATERIALS:** MILD STEEL, CARBON STEEL, STAINLESS STEEL & FRP.
- **TYPE OF GRATING:** PLAIN OR SERRATED (ELECTRO FORGED OR MANUAL)
- **SIZE OF BEARING BAR:** 25 X 3MM, 25 X 5MM, 25 X 6MM, 30 X 3MM, 30 X 5MM, 30 X 6MM, 40 X 5MM, 40 X 6MM, 50 X 6MM, 75 X 8MM, 75 X 10MM OR AS PER DESIGN REQUIREMENTS
- **SIZE OF CROSS BAR:** 6, 8, 10 MM SQUARE TWISTED BAR (ACROSS) 8, 10, 12MM TMT ROUND OR ROUND ROD BAR, FLAT BAR 12X3MM, 20X3MM, 20X 5/6MM, 25X5/6MM, 30X5/6MM, 40X5/6MM OR AS PER DESIGN REQUIREMENTS
- **SIZE OF FRAME BAR:** 25 X 5MM, 25 X 6MM, 30 X 5MM, 30 X 6MM, 40 X 5MM, 40 X 6MM, 50 X 6MM, 75 X 8MM 75 X 10MM OR AS PER DESIGN REQUIREMENTS
- **SIZE/DIMENSIONS:** STANDARD 1MTR X 1 MTR MANUAL, 1 MTR X 6MTR ELECTROFORGED OR AS PER DESIGN REQUIREMENTS
- **FINISHING:** HOT DIP GALVANIZING, REDOXIDE, PAINTED OR BLACK CONDITIONS

MANUFACTURER, EXPORTER, STOCKIST AND SUPPLIER



PIPING PACKAGES

• LONG PRODUCTS •



PIPE



TUBES



BARS



ANGEL, CHANEL

• FLAT PRODUCTS •



SHEET



PLATE



COIL



PROFILE

• WELDED PRODUCTS •



WELDED PIPES



PIPES SPOOL



WELDED CLAMP



WELDED FITTINGS

• FORGING & MACHINING PRODUCTS •



FLANGES & FITTINGS



CUSTOMIZED FLANGES
& FITTINGS



FORGED FITTING
& O-LETS



FASTENERS

• OTHER PRODUCTS •



FABRICATED PRODUCT



GRATINGS



GASKETS



VALVES

More Than 30 Years Of Experience



Hiren Metal & Tools

Since 1990

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More Than 30 Years Of Experience