STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

PIPES & TUBES:

Stainless Steel: ASTM A 312, A 213, A 213, A 249, A 269, A 358, A 240, A 276

Carbon Steel: ASTM A 106, A 53, API A 5L Gr. A, B, C, ASTM A 333, Gr. 1 to 6 (IBR & NON IBR)

Alloy Steel: ASTM A 335, GR P1, P2, P5, P9, P11, P22, P91

Nickel Alloys: Monel 400 & 500, Inconel 600 & 625, Incolloy 800, 825, Hastelloy 904, Titanium, Tungston, Silver Nickel, Zirconium, Palladium, Vanadium etc.

Copper Alloys: Aluminium, Copper, Brass & Gunmetal

Types: Round, Square Rectangular.

Size: Up to 24"NB (Seamless & Welded) Wall thickness: Sch. 5S to Sch. XXS
Seamless & Welded Butt Weld Fittings:

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<td>Duplex</td>
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Screwed & Socket Weld Forged Steel Fittings

Product Range
45° and 90° Elbows, Equal and Reducing Tees, Couplings, Hexagon and Reducing Nipples, Crosses, Street Elbows, Caps, Plugs, Hexagon Bushes, Unions, Concentric and Eccentric Swage Nipples, Pipe Nipples and Forged Outlet Fittings

Socket Weld Range
45° and 90° Elbows, Equal and Reducing Tees, Couplings, Crosses, Caps, Unions and Forged Outlet Fittings

Dimensional Standards
ANSI B16.11, BS3799, MSS SP79 and MSS SP97

Pressure Ratings
3000#, 6000# and 9000#

Size Range
¼” to 4” NB

Material Grades
Carbon: ASTM A105N
Low Temp: ASTM A350 LF2 & LF3
Chrome/Moly: ASTM A182 F5, F9, F11, F12 & F22
Stainless: ASTM A182 F304/L & F316/L
SHEETS, PLATES & COILS:

Stainless Steel: ASTM A 312, A 213, A 213, A 249, A 269, A 358, A 240, A 276

Carbon Steel: ASTM A 106, A 53, API A 5L Gr A, B, C, ASTM A 333, Gr 1 to 6 (IBR & NON IBR)

Alloy Steel: ASTM A 335, GR P1, P2, P5, P9, P11, P22, P91

Nickel Alloys: Monel 400 & 500, Inconel 600 & 625, Incolloy 800, 825, Hastelloy 904, Titanium, Tungsten, Silver Nickel, Zirconium, Palladium, Vanadium etc.

Copper Alloys: Aluminium, Copper, Brass & Gunmetal
FLANGES:

Stainless Steel: ASTM A 312, A 213, A 213, A 249, A 269, A 358, A 240, A 276

Carbon Steel: ASTM A 106, A 53, API A 5L Gr A, B, C, ASTM A 333, Gr 1 to 6 (IBR & NON IBR)

Alloy Steel: ASTM A 335, GR P1, P2, P5, P9, P11, P22, P91

Nickel Alloys: Monel 400 & 500, Inconel 600 & 625, Incolloy 800, 825, Hastelloy 904, Titanium, Tungston, Silver Nickel, Zirconium, Palladium, Vanadium etc.

Copper Alloys: Aluminium, Copper, Brass & Gunmetal

Types: Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ringjoint, Orifcase, Long Weldneck, Deck Flange, etc.

Size: 1/8" NB TO 48"NB.

Class: 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

FASTNERS:


Materials: Stainless Steel, Mild Steel, Alloy Steel & Non Ferrous

Standards: ASTM, DIN, BS, JIS

Size Range: Dia 3/8" to 4", M-10 to M-100

Coating: Bichromate, Cadmium Plating, Hot Dip Galvanizing, Teflon Coating, Electro Galvanizing, Cadmium Plating, Nickel Plating

Packing: Superior Quality Polythin Bag and Standard Wooden Box
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

OTHER NON FERROUS METALS:

ALUMINIUM:
Aluminium, Aluminium Bronze, Manganeese Bronze.

FORMS:
Round Hexagonal, Squares, Rods, Tubes, Sheets, Strips, Foils, Busbars, Plate, Flats, Wire, Tubings, Sections & Bushes.

BRASS:
Free Cutting Brass, Leading Brass, Foreign Brass, Reviting Brass, Lead Free Brass, Neval Brass.

FORMS:
Round Hexagonals, Squares, Rods, Tubes, Sheets, Strips, Foils, Busbars, Plate, Flats, Wire, Tubings, Sections & Bushes.

COPPER:
Electrolytic Copper, Electrolytic Tough Pitch Copper, Deoxidised Copper, General Purpose Commercial Copper.
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

FORMS:
Round Hexagonals, Squares, Rods, Tubes, Sheets, Strips, Foils, Busbars, Plate, Flats, Wire, Tubings, Sections & Bushes

GUNMETAL, PHOSPHER, BRONZE
85/5/5/5, 88/10/2, 90/10, Ingots, hollow, Bar, Bushes & Sheet, Strips, Wires etc. as per requirement.
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

MONEL BUTTWELD PIPE FITTINGS :

Range 1/2"NB TO 12"NB IN SCH: 10, 20, 40, STD, 60, 80, XS

Type SEAMLESS / WELDED/ FABRICATED

Form Elbows in Long & Short Radius in 45 deg, 90 deg, 180 deg.
Equal, Unequal Tee & Barred Tee.
Bend
Eccentric Reducer & Concentric Reducer.
Caps & Crosses.
Long & Short Stub End.
Swage Nipple & Barrel Nipple.
Monel Forged Pipefittings
1/4” NB to 4” NB in 3000 LBS, 6000 LBS, 9000 LBS available with NACE MR 01-75.

Type Socket Weld (S/W) & Screwed (SCRD)

MONEL PIPE FITTINGS :


Grade Monel 400 Pipefittings – UNS N04400
Monel K500 Pipefittings – UNS N05500
Other
Customised Fittings

Test Certificate Manufacturer Test Certificate as per EN 10204 / 3.1B
NON FERROUS METALS:

ALUMINIUM:
Aluminium, Aluminium Bronze, Manganese Bronze.

FORMS:
Round Hexagonal, Squares, Rods, Tubes, Sheets, Strips, Foils, Busbars, Plate, Flats, Wire, Tubings, Sections & Bushes.

BRASS:
Free Cutting Brass, Leading Brass, Foreign Brass, Reviting Brass, Lead Free Brass, Neval Brass.

FORMS:
Round Hexagonals, Squares, Rods, Tubes, Sheets, Strips, Foils, Busbars, Plate, Flats, Wire, Tubings, Sections & Bushes.

COPPER:
Electrolytic Copper, Electrolytic Tough Pitch Copper, Deoxidised Copper, General Purpose Commercial Copper.
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

FORMS:
Round Hexagonals, Squares, Rods, Tubes, Sheets, Strips, Foils, Busbars, Plate, Flats, Wire, Tubings, Sections & Bushes

GUNMETAL, PHOSPHER, BRONZE
85/5/5/5, 88/10/2, 90/10, Ingots, hollow, Bar, Bushes & Sheet, Strips, Wires etc. as per requirement.

ALUMINIUM:

Sheet and Plate
GRADES: 1100-0, H14; 3003-0, H14; 5052-0, -H32, -H34 Tempers - Bare 2014-0, -T3, -T6; Bare and Alclad 2024-0, -T3, -T4, -T8; Bare and Alclad 2219-0, -T31, -T87 Tempers-Bare and Alclad 2124-T851 Bare 6061-0, -T4, -T6 Tempers-Bare 7075-0, -T6, -T73, 7050-T741, T7651 7475 -T61, T761, T7651. Special Aluminum Alloys and Sizes are available on request.

Rod and Bar
GRADES: 2011-T3; 2014-T4, -T6; 2017-4 2024-T3, -T351, -T3511; 2219-T31, -T8511; 5052, 5083, 5086 - All Tempers. 6061-T6, T651,
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW, PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.

- T6511; 7075-T6, -T651, -T6511,
- T7351 Tempers
Special Aluminum Alloys and Sizes are available on request.

Tubing and Pipe
**GRADES:** 2024-0, -T3; 5052-0; 6061-T6, T4 and Tubing

Extrusions
**GRADES:** 2014-0, T6, -T6511, 2024-0, -T4, T3511, 6061-0, -T4, -T6, -T6511, 6063-T5, -T6, 7075-0, -T6, -T6511, 7178, 7178-0, -T6 and -T6511 Tempers.

**ALLOY STEELS:**
Sheet, Plate, Rod, Bar and Tubing:
4130, 4140, 4150, 4330 and 4340
Available in Annealed, Normalized and Modified Conditions

**BRASS ALLOYS:**
Aluminum Bronze Phosphorus Bronze
Silicon Bronze and Free Cutting Brass

**TITANIUM:**
Sheet, Plate, Bar, Coil:
Commercially Pure Titanium
Alloy -6AL/4V, 6AL/6V/2Sn,
5AL/2.5n,8AL/1MO/1V
Special Titanium available on request.

**PRE-PRODUCTION PROCESSING:**
Shearing, Grinding, Plate Burning, Abrasive Cutting and heat treating, Castings and forgings are available in request from customer.
Alloy & Carbon Steel Flat & Round Bars :-

Comprehensive stocks are held in a wide range of Alloy Tool steel specifications. British Standard and International specifications available. Our most popular grades are listed below; please contact our sales office.

**Carbon and Alloy steel specifications:-**

**EN8**
0.4% medium carbon steel. A general purpose steel for applications requiring added strength and superior tensile properties to mild steel specifications.

**EN9**
0.5% carbon steel giving higher tensile than EN8. Can be induction or flame hardened.

**EN19**
1% chromium molybdenum high tensile steel. Suitable for highly stressed applications where greater strength is required.

**EN24**
Nickel chromium molybdenum high tensile steel. Has good wear and shock resistance and is suitable for tensile ranges up to 1550 N/mm².

**EN30B**
41/4% nickel steel. Achieves a good through hardness with air or oil hardening. It is capable of taking a good polish and is widely used as a plastic mould steel.
EN31
High carbon alloy steel which achieves a high degree of hardness with compressive strength and abrasion resistance.

EN36
Nickel chromium case hardening steel. Give a very hard surface with a strong core and retaining a high degree of toughness.

EN45
Silicon manganese alloy spring steel.

EN47
Tough oil quenching spring steel which, when heat treated, offers good wear resistance.

SAE 8620
A low alloy case hardening steel.

AISI 4140
Chromium molybdenum high tensile steel. Supplied 18-22HRc (Hardness Rockwell)

AISI 4145
Chromium molybdenum high tensile steel similar to 4140. Supplied 30-36HRc

AISI 4130
Chromium molybdenum steel supplied 18-22HRc. Lower carbon content that AISI 4140.

AISI 6150
A chromium vanadium spring steel type steel.

Material Grades:
The term "Stainless Steel" is a generic one, covering various grades & categories, each with its own specific characteristics, and relevant benefits. Whilst all are released to the latest En & Din Standards, we have listed the grades in the more commonly used BS versions:

**Austenitic:**
- 201, 202, 203, 204Cu (For more details, please refer to the information page)
- 301, 302, 303, 303Cu, 304/L, 304Cu, 304S, 305, 310S, 314, 316/L, 316Cu
- 316Ti, 317L, 321
- 307Si, 308H, 308L/LSi, 309L/LSi, 309LMo, 310, 312, 316L/LSi, 318/Si, 347/Si

**Ferritic:**
- 409Cb, 409Ti, 430/F, 430LNb, 434

**Martensitic:**
- 410, 416, 420B/C, 420NiMo, 431

**Precipitation Hardening:**
- 17-4PH

**Duplex & High Alloy:**
- 253MA*, 254SMO*, 904L, SAF 2205, Duplex 2209, Duplex 2594
- A286
- LDX 2101*, SAF2304** (For more details, please refer to the information page)
- Alloy 82, Alloy 200, Alloy 400, Alloy 600, Alloy 601, Alloy 625
- Alloy 800, Alloy 825, Ni80/Cr20, C276, C22, X61, X60

*Registered trademark of Outokumpu/ Avesta
**Registered trademark of Sandvik

**Welding Consumables:**
STOCKIST SUPPLIERS & EXPORTERS:
STAINLESS STEEL, ALLOY STEEL, CARBON STEEL, MILD STEEL, FERRO ALLOYS, SEAMLESS & ERW PIPES, PIPE FITTINGS, FLANGES, BOILER TUBES, OTHER NON FERROUS METALS, ENGG. & ALL TYPES OF INDUSTRIAL RAW MATERIALS.


**Aluminium for Welding:**
EN AW 1050A, 1080A, 1100, 4043A, 4047, 5356, 5556, 5183, 5754

**Aluminium for General Purpose:**
Series 1000, 2000, 3000, 4000, 5000, 6000 & 7000

**Titanium Wire & Bar:**
A Full List of Sizes & Grades available will be added shortly

**Bright Carbon Steel Bar:**
SAE1008, SAE1010, SAE1012, SAE1015, SAE1018, SAE1020, SAE1026, SAE1035, SAE1045, EN8, EN9, EN3A, EN3B, C-15, C-35, C-40, C-45

**Free Cutting Steel:**
EN1A, EN1A (L), EN8M, EN15AM, SAE-1117, SAE-1140, SAE-1141, SAE1146, VS13113, SAE-12L14

**Alloy Steel:**
EN18, EN18C, EN19, EN19C, SAE-4140, 42CrMo4, 27C15, 16MnCr5, 20MnCr5, EN18B, SAE8620, SAE-4340