SHAPING THE AVTAR OF TOMORROW

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scan to know more

AVTAR STEEL LIMITED

AVTAR STEEL LIMITED

BLOCKS AND BLOOMS

BILLETS/BLOOMS
FORGING QUALITY INGOTS/BLOCKS

HOT ROLLED BARS

ROUND BARS
FLAT BARS
SQUARE BARS
CHANNELS
HEXAGONAL BARS
ANGLE BARS
ROUND CORNER SQUARE BARS

COLD DRAWN BARS

BRIGHT BARS
FLAT BARS
SQUARE BARS
HEXAGONAL BARS

WIRES AND WIRE RODS

WIRES
WIRE RODS

PUMP SHAFT QUALITY BARS

72,000 MTPA

MELTING SHOP CAPACITY

30+ YEARS OF TRUST

MELTING & REFINING SHOP

HEAT TREATMENT

COLD FINISHING

TESTING FACILITY

CHEMICAL & MECHANICAL TESTING

PACKAGING FACILITIES

HOT ROLLING MILLS

CONTROL OVER EVERYTHING

STAINLESS STEEL

150+ GRADES

ISO 9001-2015

SCRAP TO READY-TO-USE

3 UNITS IN SONIPAT, HARYANA

EVERY STEP OF STEEL

INTEGRATED AT AVTAR

RAW MATERIAL

Every batch of stainless scrap and ferro alloys is checked with Niton Analyzer testing.

MELTING & REFINING SHOP

Scrap melts at 1650°C. The molten metal moves to AOD refining for chemistry correction and purity. Through continuous casting and bottom pouring, it becomes billets, slabs and ingots.

HOT ROLLING MILLS

Our concast billets are rolled here. We produce round, hex, square, angle, and flat bars and wire rods. Dimensions, surfaces and composition are checked through visual, ultrasonic and PMI tests.

HEAT TREATMENT

Our heat treatment facility is used for annealing, solution annealing and quenching and tempering.

COLD FINISHING

Our ultra advanced cold finishing unit lets us process 2000 tons of bars and profiles each month.

PACKAGING FACILITIES

Quality check is done during packaging to avoid damage and rust. We make bundles of 500-1000 kgs, marked with product specific details.

ONE CORE,

INFINITE AVTARS

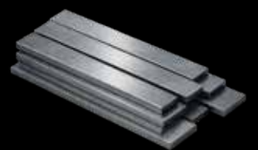
INGOTS AND BILLETS

Forging Quality Ingots

Billets/Blooms

HOT ROLLED BARS

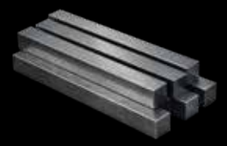
Angle Bars



Flat Bars

Round Bars

RCS Bars

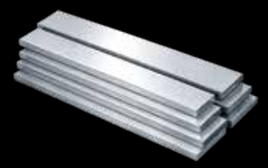


Square Bars

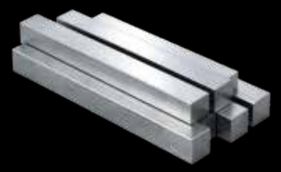
Hexagonal Bars

U-Channels

COLD DRAWN BARS

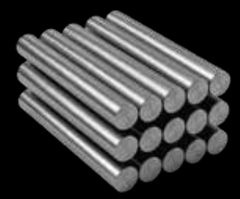


Flat Bars



Square Bars

Hexagonal Bars



Bright Bars

Cold Drawn Angles

PUMP SHAFT QUALITY BAR

Pump Shaft Quality Bar

WIRES AND WIRE RODS

Wire Rods

Wires

INSPIRED BY STEEL,

BUILT WITH PRECISION

Scraps are tested for radiation before going to the melting and refining shop where they are melted at 1650-degree celsius.

At every step of the process, steel is tested at the most minute level to ensure that the quality and the compositions do not deviate from the set standards.

Molten metal is checked at our Spectro lab to make sure the chemistry is 100% accurate to the requirement. Precise melting data is monitored here.

Once blocks and blooms are casted, their chemical composition is checked by an in-house spectrometer.

Precision rolling is done according to required sizing. After hot rolling, ultrasonic testing is done.

For Cold finishing, our facility houses a American, Taiwanese and Indian Fully Automatic CNC Bar Finishing Line catering sizes from 10 mm to 100 mm.

INTEGRATED AT AVTAR
EVERY STEP OF STEEL

STEEL MELTING SHOP

- Electric Melting Furnace Capacity of 22 Metric Tons of Liquid Metal
- A 35 Metric Ton AOD (Argon Oxygen Decarburization) for refining of molten metal
- Mini-slab/Bloom/Billet/Round Twin Strand Continuous Casting Machine with a radius of 7/14 Meters. Specially designed by CONCAST (India) for Casting Mini Slab up to 350 MM wide Equipped with Automatic Mould Level Controller (AMLC) & Electro Magnetic Stirrer (EMS) designed for superior Surface & internal Quality
- Dual Strand Cored Wire Injector System
- Online PLC Operated Hot Billet Shearing Machine for Cut to Length Sizes & better edges on ends of blooms

BRIGHT BAR DIVISION

- LANDGRAF Grinding machines for high-speed production of Super Precise Bars
- SHENG CHYEAN Fully Automatic CNC Bar Peeling Line with Finishing facility upto 80mm.
- HETRAN Fully Automatic CNC Bar Peeling Line with Finishing Facility Upto 50MM
- Semi-Automatic Peeling Machines for size from 80MM to 250MM
- Combined Drawing Line Machines
- Fully Automatic CNC Chamfering Machines for Round Bars
- Black Bar Pre-Straightening Machines
- Cincinnati Centreless Grinding Machines
- Band Saw Machines for Sharp Edges
- Automatic Abrasive Belt Polishing Machines for Mirror Finish
- Section Straightening Machines for Profiles
- Bar to Bar Drawing Machine for Profile and Rounds
- Strapping & Bundling Machines

HOT ROLLING DIVISION

- 510MM (20 Inches) 5 Stands Cross Country Mill with Fully Automatic Conveyors Equipped with Automatic Shearing & Hot Saw Cutting for sharp edges
- 360MM (14 Inches) 7 Stands Semi-Automatic Cross Country Mill with Roughing Mill Equipped with four PLC Operated Online Hat Saw Blades for precise sizes & sharp ends
- 260MM (10 Inches) 5 Stands Semi-Automatic Cross Country Mill designed for producing thin & narrow Flat Bars, Angles & Small Hexagonal Bars.
- Dual Fired Oil & Gas (PNG) Fired Billet/Bloom Reheating Furnace designed with Auto Pushing and Auto Ejecting of Red Hot Billets.

PROFILE DIVISION

- Pickling Tanks
- Shot Blasting Machines
- Heat Treatment Facility
- Straightening Machines

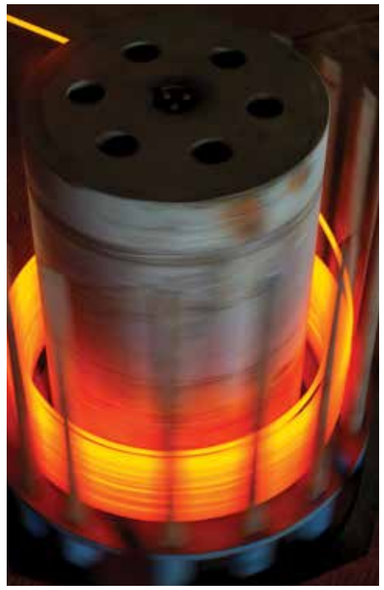
HEAT TREATMENT DIVISION

- Solution Annealing
- Soft Annealing
- Water Annealing
- Oil Quenching

WIRE ROD DIVISION

A fully automatic tandem rolling mill with 20 strands, advanced finishing blocks having a capacity of 1,20,000 MTPA. The mill having 3 diversions is capable of producing wire rods, bars and coils.

STEEL FORGED IN
THE HALLS OF EXCELLENCE



QUALITY THAT SUSTAINS
THE STRENGTH OF AVTAR

Our stainless steel products are produced through a series of controlled processes, offering a uniform structure, consistent surface quality, and defined Metallurgical properties. They serve as raw materials for manufacturing end products accepted by OSMs and stockist in various industries like Defence, Aerospace, Engineered goods, Oil and gas, Automobiles, etc.

If strength and experience have gotten us to the top, quality checks make sure we stay there. Every rod, bar and ingot is tested mechanically, chemically and structurally. From the procurement of raw materials to the packaged product leaving the facility, quality checks are done at every step.

MECHANICAL TEST PARAMETERS

- Reduction
- Elongation
- Proof strength
- Notched bar impact testing
- Tensile strength
- Hardness (HRC, HV & HB)

METALLURGICAL TESTS

- Non- metallic intrusion ratings to DIN & ASTM standards
- Macro and micro structure examination
- Delta ferrite measurements and IGC testing
- Internal structure, external structure and defect depths

FORGING QUALITY INGOTS

PRODUCT SPECIFICATIONS

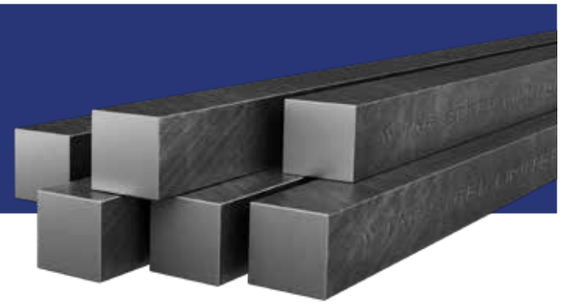
Ingots Shape	Ingots Shape (In mm)	Ingots Shape (In inch)	Ingots Weight (In kg)	Ingots Weight (In mt)	Hot Top Weight (kg) /(mt)
Square	254x305x1524	10"x12"x60"	900	0.9	57/0.057
Square	356x406x1854	14"x16"x73"	1950	1.95	115/0.115
Square	406x508x1854	16"x20"x73"	2950	2.95	83/0.083
Square	508x610x1854	20"x24"x73"	4000	4	185/0.185
Square	584x686x1778	23"x27"x70"	5000	5	220/0.220
Fluted	686x762x1575	27"x30"x62"	6000	6	417/0.417
Fluted	813x991x1854	32"x39"x73"	10000	10	803/0.803
Fluted	1041x1219x1854	41"x48"x73"	14000	14	1519/1.519
Fluted	1067x1321x2210	42"x52"x78"	21000	21	1890/1.890
Square	254x305x1321	10"x12"x52"	800	0.8	70/0.070
Square	279x330x1524	11"x13"x60"	1100	1.1	90/0.090
Square	330x381x1524	13"x15"x60"	1500	1.5	100/0.100
Square	356x406x1524	14"x16"x60"	1800	1.8	144/0.144
Round	406 x 2311	16"x91"	2200	2.2	200/0.200
Round	508 x 2311	20"x91"	3400	3.4	250/0.250
Round	350 x 2.3 mtr	14"x91"	1800	1.8	180/0.180

Avtar Steel is a leading producer of stainless steel ingots, catering to diverse industrial applications including Aerospace, R&D Labs, and Tool & Die Steel. Our products meet various international and national specifications and are used for direct upsetting forging and open die forging.

SUPPLY CONDITIONS

- Spot grinded and fully grinded condition
- Free from surface defects or cracks
- Cold sawable
- 100% tested through handheld spectrometer
- Free from radioactive elements & mercury, lead contamination
- Ingots are supplied with smooth ends
- Every piece is marked with heat number, grade, size & weight

BILLETS/BLOOMS



PRODUCT SPECIFICATIONS

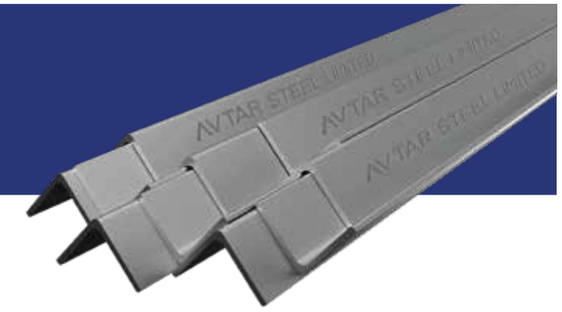
Size (in mm)	Shape	WT/MTR
80x80	Square	50
100x100	Square	78
120x120	Square	112
130x130	Square	132
140x140	Square	153
160x160	Square	200
200x200	Square	314
220x220	Square	379
220x250	Rectangle	431
130x190	Rectangle	192
100x300	Rectangle	234
130x350	Rectangle	357

Stainless steel billets are produced through a controlled casting process, offering a uniform structure and surface quality, and defined metallurgical properties. They serve as raw materials for manufacturing stainless steel products.

SUPPLY CONDITIONS

- Length up to 3 to 9 meters
- Saw end cuts
- Spot grind or fully grind condition (as per request)
- Marked with heat number, Grade, Colour code and Size
- Standard – ASTM/ASME, EN/DIN
- Free from radioactive elements and mercury, lead contamination

ANGLE BARS



PRODUCT SPECIFICATIONS

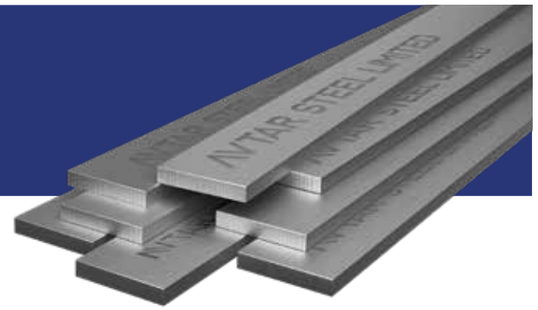
Dimension Tolerance EN 10056 & ASTM A484			
Width (in mm)	Width (in inch)	Thickness (in mm)	Thickness (in mm)
20 x 20	4/5"x4/5"	3	1/8"
25 x 25	1"x1"	3, 4, 5, 6	1/8",1/6",3/16",1/4"
30 x 30	1-1/6"x1-1/6"	3, 4, 5	1/8",1/6",3/16"
32 x 32	1-1/4" x1-1/4"	3, 4, 5, 6	1/8",1/6",3/16",1/4"
35 x 35	1-3/8" x 1-3/8"	3, 4, 5	1/8",1/6",3/16"
38.1 x 38.1	1-1/2" x 1-1/2"	3.17, 4.76, 6.35	1/8",3/16",1/4"
40 x 40	1-4/7" x 1-4/7"	3, 4, 5, 6	1/8",1/6",3/16",1/4"
45 x 45	1-7/9" x 1-7/9"	3, 4, 5, 6	1/8",1/6",3/16",1/4"
50 x 50	1" x 1"	3, 4, 5, 6, 9.52	1/8",1/6",3/16",1/4",3/8"
60 x 60	2-3/8" x 2-3/8"	5, 6, 7, 8	3/16",1/4"
63 × 63	2-1/2" x 2-1/2"	5, 6, 9.52	3/16",1/4",3/8"
63 × 63	2-1/2" x 2-1/2"	5, 6, 7, 8	3/16",1/4"

HRAP stainless steel angle bars are available in a wide variety of lengths, sizes, and finishes. They go through high-tech processes like: hot rolling, annealing to release stress, and improve resistance to corrosion, and then pickling to remove marks and scale for a clean surface.

SUPPLY CONDITIONS

- High strength-to weight ratio
- Exceptional corrosion resistance
- Available in multiple widths and thicknesses to match diverse project needs
- Hot rolled (black) surface
- Long lasting performance and low maintenance

HRAP FLAT BARS



PRODUCT SPECIFICATIONS

Width (in mm)	Thickness (in mm)
25	4.76 to 12
27	10, 12
30	5 to 12
32	5 to 12
35	5 to 12
40	5 to 30
42	10, 12, 16.5, 21.5, 26.5
45	5 to 25
50	5 to 40
52	6.5, 10, 16.5, 21.5, 26.5
55	5 to 30
60	5 to 30
62	12, 14.5, 16.5, 21.5, 26.5, 31.5
65	5 to 30
66	30, 35

Width (in mm)	Thickness (in mm)
70	5 to 50
72	21.5
75	5 to 50
80	5 to 50
82	10, 14.5, 21.5, 31.5
90	5 to 50
92	14.5
100	5 to 50
102	12, 14.5, 16.5, 21.5, 26.5
170	6 & 8
200	5.7, 6, 7.7, 9.7, 10, 12, 16, 20, 25, 32, 40, 50
205	12
232	12
235	10, 12.7, 16

Stainless steel flat bars (HRAP) are produced through hot rolling, followed by annealing and pickling, ensuring high performance and durability. These bars are versatile and come in a wide range of dimensions, making them suited for a variety of structural and industrial applications.

SUPPLY CONDITIONS

- Spot grinded and fully grinded condition
- Cropped ends
- Cold sawable
- Free from surface defects or cracks
- 100% Tested through handheld spectrometer
- Marked with heat number, grade, size and weight
- Free from radioactive, mercury & lead contamination.
- Cropped and Uncropped ends on request

Dimension Tolerance EN 10058 & ASTM A484

Width (Inches)	Thickness (Inches)
1"	3/16", 1/4", 5/16", 3/8", 1/2"
1-1/16"	3/8", 1/2"
1-3/16"	3/16", 1/4", 5/16", 3/8", 1/2"
1-1/4"	3/16", 1/4", 5/16", 3/8", 1/2"
1-3/8"	3/16" to 1/2"
1-4/7"	3/16" to 1-1/4"
1-21/32"	3/16" to 1-1/4"
1-7/9"	3/16" to 1-1/4"
2"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"
2-3/64"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"
2-1/16"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"
2-3/8"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"
2-7/16"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"
2-5/9"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Width (Inches)	Thickness (Inches)
2-19/32"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
2-3/4"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
2-53/64"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
3"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
3-1/8"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
3-15/64"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
3-5/8"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
4"	3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

HOT ROLLED (AS ROLLED) ROUND BARS

Size	16 mm (5/8") –125mm (5.0")

SUPPLY CONDITIONS

- Hot rolled (black) surface
- Ultrasonically tested
- Spot grinded
- length 2000 – 8000 mm
- Heat treatment – soft annealing, solution annealing, water quenching, tempered & normalised
- Free from cracks & internal defects
- Material identity tested handheld spectrometer
- Free from radioactive elements and mercury, lead contamination
- Tolerance - +-/0.3 mm
- Straightness – minimum 1.00 mm per meter
- HDPE strips tied at 3 points of a 1000 kg bundle

Hot rolled stainless steel round bars are durable steel products manufactured through a controlled hot rolling process. They provide mechanical strength, corrosion resistance, and workability, making them suitable for applications in construction and infrastructure, automotive, forged components, oil and gas, and manufacturing and machinery.

RCS BARS
(ROUND CORNER SQUARE)

Size	38mm, 43mm, 45mm, 53mm, 55mm, 59mm, 63mm, 65mm, 75mm, 100mm

SUPPLY CONDITIONS

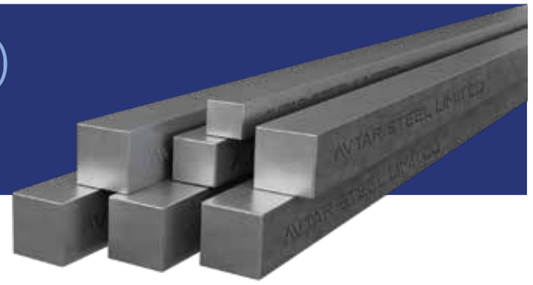
- Length up to 8 meters
- Hot rolled (black) surface
- Ultrasonically tested
- Spot grinder or fully grinded surface
- Free from surface defects or cracks
- Cold sawable
- Smooth ends without sharp edges
- Material identity tested handheld spectrometer
- Free from radioactive elements and mercury, lead contamination

Hot rolled stainless steel RCS (Round Corner Square) bars are semi-finished products manufactured through a controlled hot rolling process. They offer strength, corrosion resistance, and workability, making them suitable for forging, machining, and structural applications. These bars serve as raw materials for industries such as infrastructure, automotive, aerospace, and machine components.

END USE:

Suitable for forgings, re-rolling and up-setting

HOT ROLLED (AS ROLLED)
SQUARE BARS



PRODUCT SPECIFICATIONS

Size (in mm)	Size (in inches)
16	5/8"
18	45/64"
20	25/32"
22	55/64"
24	15/16"
25	63/64"
27	1 1/16”
30	1 3/16”
32	1 17/64"
34	1 11/32"
36	1 27/64"
40	1 37/64"
42	1 21/32"
50	1 31/32"
53	2 3/32"

Stainless steel hot rolled square bars have reduced internal stresses, making them malleable. They are primarily used in Construction, energy, petrochemical, marine engineering and transport industries.

HOT ROLLED (AS ROLLED)
HEXAGONAL BARS

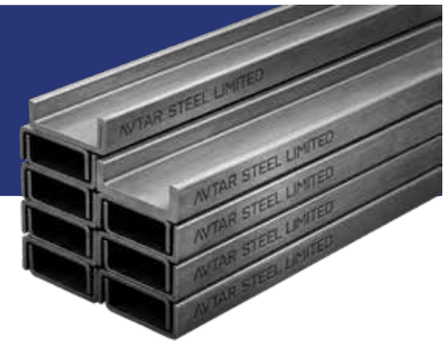
PRODUCT SPECIFICATIONS

Size (in mm)	Size (in inches)
16	5/8"
18	45/64"
20	25/32"
20.5	13/16"
21.5	27/32"
23	29/32"
23.5	59/64"
25.5	1"
27	1"1/16"
29	1*9/64"
30	1*3/16

Size (in mm)	Size (in inches)
32	1*17/64
34	1*11/32"
36	1*27/64"
38	1*1/2"
40	1*37/64"
43	1*11/16"
43	1*11/16"
48	1*57/64
50	1*31/32"
53	2*3/32"

Stainless steel hot rolled hex bars are known for their grip. They are used in torque-heavy applications and fasteners. They are an integral part of industries such as oil, gas, food processing, marine and fastener manufacturing.

U-CHANNEL BARS



PRODUCT SPECIFICATIONS

Size (in mm)
75x40x5x5 mm
75x40x6x6 mm
100x50x5x5 mm
100x50x6x6 mm
150x75X5X5 mm
150x75x6x6 mm

Steel channels are versatile components used in various industries, primarily for construction, framing, reinforcement, and vehicle manufacturing. They provide critical support in structures like buildings and bridges, ensuring stability and durability against wear and corrosion.

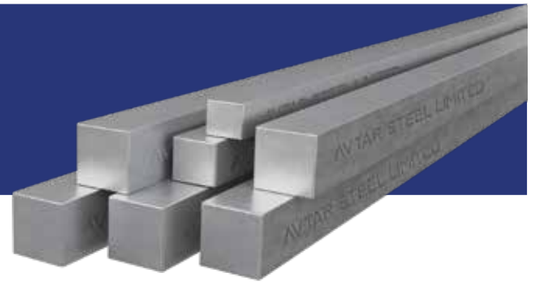
FLAT BARS
COLD DRAWN

PRODUCT SPECIFICATIONS

Width (mm & inch)	Thickness (mm & inch)	Width (mm & inch)	Thickness (mm & inch)
25	8, 10	70	20
30	5, 6, 8 & 10	80	8, 12, 20, & 30
40	8, 10, 15, 20 & 25	90	12
50	5, 8, 15, 20 & 25	100	10, 12, 15, 20, 25 & 30
60	10, 12, 15, 20, 25 & 30		

Cold drawn flat bars exhibit a bright and polished finish, improved machining characteristics, increased mechanical properties, precise and uniform tolerances.

SQUARE BARS
COLD DRAWN



PRODUCT SPECIFICATIONS

Square size range	14 mm to 50 mm
Length	3 to 6 meters
Tolerances	h11, h12, h13
Surface finish	Cold drawn, shot blast and drawn, 240 grit belt polished
Heat treatment	Annealed and solution annealed
Bars end	Free from burs, smooth saw cut, one end or both ends chamfered with 45 degrees
End use	Building supports, frames, and structural elements in construction, architecture, and engineering projects.

Cold drawn square bars are durable, heat resistant, low maintenance & impact resistant. These bars are used to make stainless steel products in the medical, architectural, & precision engineering spaces.

HEXAGONAL BARS
COLD DRAWN

PRODUCT SPECIFICATIONS

Square size range	16 mm to 53 mm
Length	3 to 6 meters
Tolerances	IS 3739
Surface finish	Cold drawn, shot blast and drawn, 240 grit belt polished
Heat treatment	Annealed and solution annealed
Bars end	Free from burs, smooth saw cut, one end or both end chamfered with 45 degrees
End use	Building supports, frames, and structural elements in construction, architecture, and engineering projects.

Stainless steel hex bars are designed for strength, durability, and corrosion resistance. They are used in infrastructure, automotive, aerospace and machine components. Their ‘agonal shapes make them suitable for structural and machining applications that require stability and precision.

BRIGHT BARS
COLD DRAWN

PRODUCT SPECIFICATIONS

Category	Specification / Details
Condition	Cold Drawn, Peeled, Centerless Ground, Polished & Buffed
Size	5–100mm (3/16” – 4.0”)
Tolerance	h7, h8, h9, h10, h11, k12, k13, ASTM-A484
Lengths	2000–6000mm
Straightness	Minimum 1 mm per meter
End Of Bars	Plain, smooth without burrs or sharp edges; chamfered on request to 30, 45, and 60 degrees
Surface Finish	Ra Value up to 0.2 um (or as per client's requirement)
Packaging	Packed in HDPE Bundles of 500 kgs, 1000 kgs, or Custom Specified
Drawn Bars	Also available in sizes 5 to 14mm
Heat Treatment	Soft Annealing, Solution Annealing, Oil & Water Quenching, Tempering & Aging
Specification	as per EN, DIN, JIS, ASTM, BS, ASME, GOST, AISI (NACE MR0175, MR0103)
Testing Facilities	Tensile testing machine, Impact testing machine, Hardness testing machine, Microscope with image analyzer and micro photo facilities
Grade confirmation through PMI testing with Handheld Spectrometers	

Bright Bars are stainless steel bars, manufactured through cold drawing, peeling, or centreless grinding processes to achieve tight tolerances and enhanced surface quality. They are precision-engineered to deliver superior mechanical properties and corrosion resistance in industries such as like automobile, electric motor, railways, defence, shaft making, agriculture, textile, hoses and fittings, bearings, hinges and gears, oil and petroleum sector, mining etc.

PUMP SHAFT QUALITY BAR

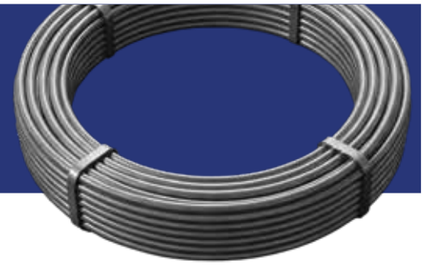
A pump shaft bar is a rotating or swing round straight bar, basically supported by a bearing and carries gears, that transmit motion, ideal for resulting in polished shafting actions used in rotation industries such as stainless steel bar manufacturers. PSQ bars are used by stainless steel bar manufacturers, petrochemical industry, automobile industry, and tools manufacturers.

FEATURES

- Defined diameter
- Uniform structure
- Ultimate strength
- Dynamic toughness
- High-Level straightness
- Polished surface finish

Dimensional Tolerance often within ±0.01 mm

WIRE RODS

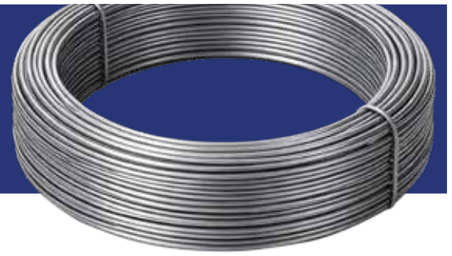


PRODUCT SPECIFICATIONS

Size/diameter	5.5mm to 16 mm (Block route) 17 mm to 34mm (Garret route)
Coil weight	1000 kgs / 1mt
Packing	HDPE wrapped coils 500 to 1,000 kgs
Heat treatment	Solution annealing for austenitic grades Normal annealing for Martensitic grades
Grades	AISI/ASTM 201/201 supper, 202,204Cu. 301,302, 303, 303Cu, 304, 304L, 304L10Ni, 304H, 304HC, 304Cu, 304LSi, 307Si, 309, 309S, 310, 310S, 314, 316, 316L, 316LN, 316Ti, 316Cu, 317,321, 321, 321H, 409, 410, 420, 430, 430L, 430F, 431, 904, 17-4PH, F51, F60, 2304.

Stainless steel HRAP (Hot Rolled, Annealed, and Pickled) wire rods are semi-finished products manufactured through hot rolling, followed by annealing and pickling to remove scale and enhance surface quality.
They offer corrosion resistance and specific mechanical properties for various industrial applications like shafts, fasteners, fitting, nuts, bolts, screws and pins. These are available in Austenitic, Martensitic, Ferritic, Duplex & Low Nickel form.

WIRES



PRODUCT SPECIFICATIONS

Size/ diameter	2.5mm to 6 mm
Finish	Bright, Matte Finish, Soap Coated or Electro Polish Quality
Packing	Customized
Condition	Soft, 1/4 Hard, 1/2 Hard, Full Hard, HRP & Solution Annealled
Heat treatment	Online heating
Heat treatment	Online heating
Grades	AISI/ASTM/AWS 201/201, 202,204Cu. 301,302, 303, 303Cu, 304, 304L, 304H, 304HC, 304Cu, 304LSi, 307Si, 309, 309S, 310, 310S, 314, 316, 316L, 316LN, 316Ti, 316Cu, ER316L, ER316LSi, ER309L, ER308LSi, ER308L, ER347,ER347Si etc.
End use	Automotive Products, Braiding Hoses, Brushes, Chains, Conveyor Belts, Filters, Free Cutting Wires, Fasteners, Nails, Flexible Connectors, Kitchen Ware and Gadgets, MIG & TIG Welding, Needles, Shots, Pins, Sieves, Spokes, Springs, Auto Cables, Fencing Surgical Equipments, Screens, Scrubber/Scouring Pads, Steel Wool, Utensils, Woven & Knitted Wire Cloth, Wall Ties & Tying Wire, Wire Ropes, Welding Electrodes, Filters, Hinges and Handles etc.

Stainless steel cold heading wires ensure high formability and cold extrusion properties. These wires are free from surface imperfections like seams, cracks, pitting and or scratch/ die marks
Stainless steel wires for steel springs are high tensile strength wires for precisions springs, compression springs, tension springs, wire form, pins and wire ropes. These wires have smooth surface, high corrosion resistance, high fatigue strength, and excellent heat resistance and are free from lateral / longitudinal cracks, pits and marks etc.
We supply these wires as per customer's specifications.

GRADES

With clarity and experience, Avtar produces more than 150 grades in stainless steel, like austenitic, martensitic, ferritic, and duplex, as given below. Any other chemistry not included in the tables can be easily supplied after a discussion with our quality department.

Grade Group	200 Series		300 Series		400 Series		Duplex		Electrode		Precipitation Hardening		Super Alloy	
Sub-grades	ASTM	DIN	ASTM	DIN	ASTM	DIN	ASTM	DIN	ASTM	DIN	ASTM	DIN	ASTM	DIN
	201 (Cu0.7)	-	301	1.4310	409L	1.4512	F51	1.4462	ER2209	-	138 MO	-	Incoloy 825	-
	201 (Cu0.9)	-	302	1.4319	409LNB	1.4512	F53	1.4410	ER304L	-	155 PH	1.4545	SMO254	-
	201 (Cu1, Ni1)	-	303	1.4305	409Ni	1.4512	F55	1.4501	ER307	-	157 PH	-	904L	-
	201 (Cu1.5)	-	304	1.4301	409Ti	1.4512 X2CrTi12	F60	-	ER307LSI	1.4370	174 PH	1.4542		
	201 (Cu1.5, Ni1)	-	304Cu	1.4567 X3CrNi Cu18-9-4	409NB		F6A	-	ER307Su	-	177 PH	-		
	201 Ni 3%	-				1.4512 X3CrTiNb12	F6NM	1.4313	ER308H	1.4948				
	201 Mn13.50	-	304H	1.4948	409TiLNB	-	2304	1.4362	ER308L	-				
	201>>CU 1.50NI 1.50	-	304L	1.4307	410	1.4006			ER308LNC	-				
	201>>CU 2.00NI 2.00	-	304LCU	-	410L	1.4003 X2CrNi12			ER308LSI	-				
	20 Mn10.25	-	304LER	-					ER308LW	-				
	201 Mn10.50	-	304LHS	-	410NIMO	-			ER309H	-				
	201 Mn11.10	-	304LNI 9%	-	416	-			ER309L	1.4332				
	201 Mn13.30	-	304LP	-	420	1.4021			ER309LMO	1.4459				
	201>>NI 1.00	-	304TL	-	420A	-			ER309LSI	-				
	201-3Ni	-	305	1.4312	420B	-			ER310	-				
	201CU 1.80NI 1.50	-	307Si	-	420B|LP	-			ER310L	1.4842				
	202 4% Ni LP	-	308H	-	430	1.4016			ER310LP	-				
	202 Ni3.5%	-	308	-	430F	1.4104 X14CrMoS17			ER312	-				
	202 Ni4%	-	308L	-	430L	1.4016			ER316L	1.4430				
	204 (Cu1.5, Ni1.5)	-	308LN	-	430LNB	1.4511			ER316LHMO	-				
	204 (Cu2, Ni1.8)	-	308LWAS	-	431	1.4057			ER316LSI	-				
	204 (Cu2, Ni2)	-	309/1.4828	-	434MO	-			ER316LSIMO	-				
	204CuLP	-	309LMO	-	436MO	-			ER316LWSI	-				
			309LN	-	439	-			ER316LWSM	-				
			309LSI	-	441	1.4509			ER317L	-				
			309LWSM	-	444	-			ER318L	1.4316				
			310/310S	1.4845/ 1.4842	446	1.4762			ER318LSI	-				
			312L	1.4547	1.4713/X10 CRAL7	-			ER321	-				
			314L	1.4841	X39CR MO171	1.4122			ER347H	-				
			316	1.4401					ER347L	-				
			316L	1.4404					ER347LSI	-				
			316H	1.4919					ER347NB1.2	-				
			316LCu	1.4404					ER347SI	-				
			316LMO	-					ER347SM	-				
			316LP	1.4430					ER385	-				
			316Ti	1.4571					ER385SZ	-				
			317ER	-					ER410NiMo	1.4351				
			317L	1.4438					ER420LP	-				
			318LSI	-					ER430LNB	-				
			321H	1.4878					ER904L	-				
			321	-										
			321L	1.4541										
			347H	-										
			347	1.4550										
			XM19	-										

PREMIUM STEEL QUALITY

CERTIFIED FOR ALL CUSTOMISATIONS

BUREAU OF INDIAN STANDARDS

Our units 2, 3 and 4 are certified to use the standard mark by the Bureau of Indian Standards

TÜV RHEINLAND

Avtar Steel has PED Certification from TUV Rheinland that confirms usage of a quality management system

TÜV SÜD SOUTH ASIA PRIVATE LIMITED

Avtar Steel has received certifications from TÜV SÜD South Asia Private Limited for implementing:

- Occupational Health and Safety Management System in accordance with ISO 45001:2018
- Environmental Management System in accordance with ISO 14001:2015
- Quality Management System in accordance with ISO 9001:2015

HIGH QUALITY PACKAGING

After carefully processing materials, the last thing you want is your product getting damaged in transit. Therefore, we have developed a special packaging material and adopt an exclusive packaging process for bundling our bars, which gives complete security to our products during far-off transportation.

Packaging is a very important part of the shipping process and is done to protect material/products from being damaged during transport, handling and storage. We have varieties of packaging types available.

In addition, we have built the capability to individually tube, individually collar, paper wrap the bars, use a wooden box or any combination of these options depending upon our customer's preferences.

BEFORE OUR SUPER-FINISHED BARS ARE TAKEN FOR PACKAGING, EACH BAR PASSES THROUGH THE FOLLOWING PROCESSES:

COLOUR CODING

One end of each bar is colour-coded to meet the relevant order's identification requirement.

LDPE PACKAGING

The bundles are then wrapped in LDPE (low density) plastic sheets and tied up with the tape.

SIZE LABEL

The second end of each bar (above 25 mm) is labelled with the sticker highlighting the Heat Number, Grade and the Inspector's Seal.

STEEL STRAPS

These bars are then tied strongly with the "Steel Straps".

SURFACE CLEANING

Each bar is thoroughly cleaned to remove the oil from the surface (in the case of Austenitic steels) before packaging.

FINAL HDPE PACKAGING

These bundles are then re-wrapped in the HDPE (high-density polyethylene) plastic sheets and secured with tape, ensuring complete security for our materials during high-speed transportation in vessels.

The various types of packaging material which we are providing

Standard Packaging-LDPE & HDPE • Cardboard Tube Packaging • Wooden Box Packaging
Steel Straps & Seals • Bubble Packing • Plastic Film Packaging • Pump & Valves

COMMITTING TO
GREEN STEEL

Avtar Steel's commitment to sustainability is not confined to scrap recycling but extends to all our facilities, reflecting our vision for a clean and green future. Being a known and reliable name in producing high-quality steel, we see it as our responsibility to reduce our carbon impact on the environment.

We are in process of installing a 12.5 MWp/9 MWac solar project through open access.

A rainwater harvesting system supports the water requirements of all our units.

We try to maintain green space around our facilities.

We regularly take measures to review and reduce our carbon footprint.

We have also installed an Effluent Treatment Plant (ETP) to treat waste water.