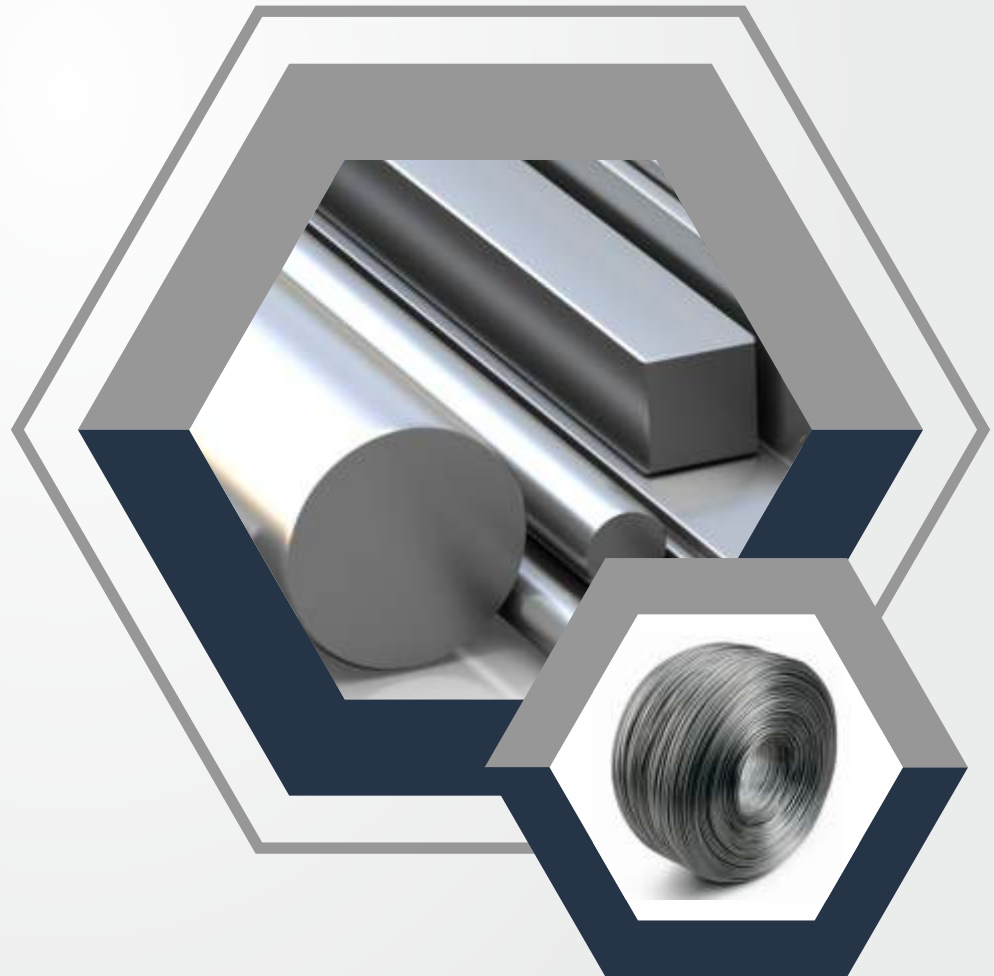




GUNRATNA METALS



MANUFACTURER, TRADER, AND SUPPLIER OF

STAINLESS STEEL

ROUND BAR | HEX BAR

SQUARE BAR | RODS | WIRES

ABOUT US

Gunratna Metals is equipped with a state-of-the-art, continuous hardening and tempering furnace for the heat treatment of Ferritic and Martensitic stainless steel this fulfilling the requirements of the most discerning and quality conscious customers.

Apart from Austenitic, Martensitic and Ferritic, we have also developed Duplex, Precipitation Hardening and High Sulphur – super machine ability grades.*

On the value addition and quality enhancement front, Gunratna Metals is now offering Pump Shaft Quality (PSQ) Bright bars from ½” to 2” diameter and will further increase it up to 150 mm. The PSQ quality will be achieved with precision equipment required for the manufacture of the same.

Forged bars are produced in size ranges from 6 ½” to 23” (160 mm to 600 mm) Gunratna Metals has commissioned an automatic storage and retrieval system for improving the service level to customers.

GRADES

AISI:

201, 202, 301, 303, 304, 304H, 304/304L, 316, 316H, 316/316L, 309, 309S, 310, 310S, 316Ti, 317, 317L, 347, 321, 321H, 410, 416, 420, 430, 430F, 431, 630, 17-4PH, F51, F60.

DIN:

WNR1.4301, WNR1.4305, WNR1.4306, WNR1.4307, WNR1.4401, WNR1.4404, WNR1.4571, WNR1.4541, WNR1.4828, WNR1.4841, WNR1.4845, WNR1.4449, WNR1.4438, WNR1.4310, WNR1.4550, WNR1.4541, WNR1.4878, WNR1.4006, WNR1.4005, WNR1.4021, WNR1.4028, WNR1.4016, WNR1.4104, WNR1.4105, WNR1.4057, WNR1.4542, WNR1.4462

SUPPLY CONDITIONS

- Annealed
- Forged and Rough Turned
- Strain Hardened
- Buffed (Mirror Finish)
- Centre less Ground
- 100% Ultrasonically Tested
- Centre less Ground and Polished
- Chamfered
- Cold Drawn Polished
- Hardened and Tempered
- Peeled Bars
- PSQ
- Peeled and Polished Bars
- Smooth Turned
- QT 700
- QT 800
- QT 850

Product	Size Range (mm)	Size Range (inch)	Tolerances
Round Bars			
Round	2 to 35	0.08 to 1.37	h9, h10, h11
Cold Drawn	2 to 9	0.08 to 0.35	h9, h10, h11
Cold Drawn Polished	10 to 37.5	0.39 to 1.40	h9, h10, h11
Peeled and Polished	38 to 200	1.49 to 7.87	h9, h10, h11, K12, K13, EN 10060
Forged and Rough Peeled	160 to 600		EN 10060
Hexagon	5 to 80	0.19 to 3.14	h11
Square	5 to 80	0.19 to 3.14	h11
Centerless Ground			
Round	12 TO 55	0.47 to 2.16	h8, h9, h11
Chamfered (Both Side)			
Round	12 to 55	0.47 to 2.16	h9, h11, K12, K13
Pump Shaft Quality			
Round	12 to 76.2	0.47 to 3	h8, h9

Testing Facilities:

- Tensile testing machine
- Impact testing machine
- Hardness testing machine
- Microscope with image analyzer and micro photo facilities
- Ultrasonic testing machine with continuous bar feeling facility
- Precision digital laser micrometer
- Eddy current tester
- Surface roughness tester
- IGC test facilities
- Radiation servo meter



Packing:

Bars are packed in 500 kg to 3000 kg bundles. Each bar is colour coded then wrapped in HDPE and strapped along with identification labels on each bundle.



Applications of Bright Bars:

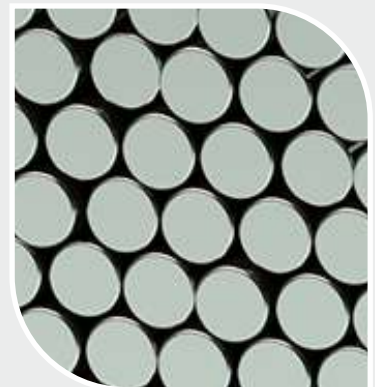
- Automobile industry – This is the major sector which consumes bright bars in all the engine components. Nuts, bolts and shafts are made out of special grades of bright bars.
- In pumps / electric motor industries.
- In railways for the manufacture of engines as well as coaches.
- In the defense sector for making various arms and ammunitions.
- For various fabrication jobs where accuracy is important.
- For making shafts in conveyors.
- In all other engineering industries such as
 - Auto industry
 - Agricultural equipment
 - Health & sports equipment
 - Textile industry
 - Food processing industry
 - Decorative & furniture
 - Hoses & fittings
 - Tools & Fixtures
 - Bearings, hinges & gears
 - Material handling & storage
 - Oil & petroleum sector
 - Mining

Warehousing System :



FeHR honeycomb warehousing system is completely suitable for large quantities and high access speeds. This system is used for automatic storage and retrieval of Bright Bars and Profiles. FeHR Cassette Rack System makes the best use of the available space and allows swift movement of the material from the packaging area to the storage area and all that is made possible with the touch of a button.

The installed capacity is of around 10,000 MT. This system allows to optimize the warehouse space and our inventory management system. The minimum approach dimensions of the storage and retrieval units also create benefits and provide lot of flexibility in terms of storing and retrieval of the material.



STAINLESS STEEL WIRE RODS

This division is engaged in manufacturing stainless steel wire rods and wires. The quality of our product is well established in the international market.

Wires manufactured in this division are mainly used in industries like ship building, medical, agriculture, springs, vineyard, chemical, petroleum, automobile, weaving, braiding, fasteners, food processing, paper mills, welding electrodes and house hold applications.

This division is capable of producing wire rods in extensive size ranges from 5.5 mm to 39.5 mm and wires from 0.09 mm to 15 mm.

Our wire rod division is well equipped with a fully automatic wire rod mill and solution annealing, soft annealing and pickling plants with high end automation facilities, and proven quality standards.

Our wires division is well-equipped for producing high quality products having in-house facilities for solution annealing, bright annealing (continuous strand annealing), dry and wet wire drawing, high speed drawing, medium wire pattern laying, fine wire spooling, layer winding, random winding, TIG wire straightening, and cutting facilities.



Grades:

ASTM:

201, 202, 204Cu, 301, 302, 303, 304, 304Cu, 304HC, 304L, 304H, 310, 310S, 312, 314, 316, d16L, 316LN, 316Ti, 316LCu, 321, 410, 420, 430, 430L

DIN/EN:

1.4301, 1.4306, 1.4307, 1.4310, 1.4401, 1.4404, 1.4567, 1.4841, 1.4842, 1.4541, 1.4845, 1.4570, 1.4571, 1.4578, 1.4597, 1.4362, 1.4370 and 1.4016

Electrode Grades:

ER304, ER304L, ER307, ER307S1, ER308, ER308L, ER308LSi, ER310, ER316, ER316L, Er316LSi, Er347, ER34 ER309, ER309L, ER430, ER420

*Specialized Grades — As per customer's requirements

Specifications:

As per ASTM, DIN, BS, JIS, NACE, AWS, GOST, etc. international standards and customer specific requirements.

Product Range and Sizes:

Description	Size Range
Medium / Thick wire	0.80 to 16.00 mm
Welding wire	MIG — 0.8 to 1.6 mm, TIG — 1 to 4 mm, Core wire — 2.0 to 5.0
Cold heading wire	2.00 to 16.00 mm
Fine wire	0.09 to 0.70 mm
Electro Polish wire	1.0 to 12.0 mm
Spring wire	0.10 to 12.0 mm
Rope wire	0.10 to 4.0 mm
Redraw wire	0.70 to 5.0 mm
Tie wire (soft range)	0.7 to 4.0 mm
Tie wire (bright drawn)	1.60 to 4.0 mm
Nail wire	1.50 to 16.0 mm
Conveyor belt wire	1.60 to 4.0 mm
Staple Pin wire	0.80 to 1.6 mm
Nickle coated spring wire	0.80 to 1.6 mm
Nicket coated base wire for spring	2 to 4 mm

A. GMAW (MIG) — GAS Metal Arc Welding Wire



MIG wire bright drawn bright finish / soap drawn (de-coated) matte finish in precision layer wound spools

Sr. No.	Sizes (Inches)	Sizes (mm)	SD 200 Plastic Spools	SD 300 Plastic Spools	K 300 Metallic Basket Spools
1	0.033"	0.838	10 lbs/5 KGs	25 lbs/12.50 KGs 30 lbs/15.00 KGs	25lbs / 12.50 KGs 30lbs/15.00 KGs
2	0.035"	0.889			
3	0.040"	1.016			
4	0.045"	1.143			
5	0.062"	1.575			

- Spools packed in cardboard boxes, finally packed in wooden boxes / pallets
- We also offer customized packing and labelling solutions as per customer requirements and drawings

B. GTAW (TIG) — GAS TUNGSTEN INERT ARC WELDING WIRE


Tig Wire Bright Drawn Bright Finish in cut length 13.79 inches / 350 — 2000 mm

Sr. No.	Sizes (Inches)	Sizes (mm)	Plastic Tubes	Packing Type 5 Tubes in one corrugated box 1000 lbs / 500 KGs wooden box
1	0.0300"	0.800		
2	0.0350"	0.900		
3	0.0400"	1.000		
4	0.0450"	1.200		
5	0.0620"	1.600		
6	0.0800"	2.000		
7	0.0930"	2.400		
8	0.1250"	3.200		
9	0.1560"	4.000		

- Tubes packed in cardboard boxes, finally packed in wooden boxes / pallets
- We also offer customized packing and labelling as per customer requirements
- Grade and size embossed on both the sides of box for size 1.60mm (0.062') and above
- Customised marking such as: heat no., brand name, batch no., etc. possible on request

C. SAW — SUBMERGED ARC WELDING WIRE

SAW wire bright drawn bright finish / soap drawn (de-coated) matte finish in precision layer wound spools




Sr. No.	Sizes (Inches)	Sizes (mm)	Layer wound coils
1	0.0620"	1.600	
2	0.0800"	2.000	
3	0.0930"	2.400	
4	0.1250"	3.200	
5	0.1560"	4.000	

Spools packed in cardboard boxes, finally packed wooden boxes / pallets

We also offer customized packing and labelling as per customer requirements and drawings

D. MMAW — Manual Metal Arc Welding Wire

MMAW wire bright drawn bright finish in cut length / coils

Sr. No.	Sizes (Inches)	Sizes (mm)	Cut Length	Continuous Coil	Loose Coils
1	0.0620"	1.600	300, 350, 1000, 2000mm, 12", 14', 40', 79' Inch	600 2000 lbs 300 1000KGs	200 600 lbs 100 300KGs
2	0.0800"	2.000			
3	0.0930"	2.400			
4	0.1250"	3.200			
5	0.1560"	4.000			

We also offer customized packing and labelling as per customer requirements and drawings

Annealed / Soft Wire:

Size: 0.09 — 7.00 mm



Packing: SPOOL, Loose Coil, drum, Tube, Continuous Coil

Sizes	Type of Packing	
0.09 — 2.5 mm	SPOOL DIN125, DIN160, DIN200, DIN250, DIN 355	
0.71 — 10.00 mm	Loose Coil	
0.80 — 1.60 mm	Drum, Tube & carrier	

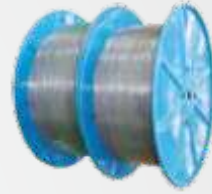
Spring Hard Wire (Bright Finish)

Size: 0.15 — 12.00 mm

Packing: Loose Coil, Invertor coil, Metal spool, Plastic Spool

Sizes	Type of Packing	
0.15 — 0.70 mm	SPOOL DIN125, DIN160, DIN200, DIN250	
0.71 — 12.00 mm	Loose Coil	

0.40 — 3.00 mm

Metal Spool
DIN560,
DIN760

Spring Hard Wire Soap Coated Matte Finish

Size: 0.40 — 12.00 mm

Sizes

Type of Packing

0.40 — 3 mm

Loose Coil
Spool
SH390, SH460, DIN 560 Metal,
DIN 760 Metal

3 — 12 mm

Loose Coil

Bright Drawn Wire

Size: 0.09 — 16.00 mm

Sizes

Type of Packing

0.09 — 2.5 mm

SPOOL
DIN125,
DIN160,
DIN200,
DIN250,
DIN 355

0.71 — 16.00 mm

Loose Coil



Bright Drawn Wire

Size: 1.80 — 12.00 mm

Sizes	Type of Packing
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1.80 — 4.00 mm	Continuous Coil
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2.00 — 12.00 mm	ESPOOL/ LESPOLL
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Nickel Coated Spring Wire

Sizes	Sizes mm	Type of Packing
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1	0.80 — 1.60
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3	2.00 — 4.00
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Supply Conditions:

Wires: Soft finish wires with matte or bright condition, 1/8 hard, 1.4 hard (suitable for electro polish quality), F hard, 3/4 hard, full hard with coated or de-coated condition.

Types of Packaging:

- M.S. carrier packaging
- Basket spools packaging
- Carton case packaging
- Spools packaging
- Packing in corrugated drums
- Pattern layered coils packaging
- Packing in corrugated boxes
- Euro coil packaging
- Packing in spiral corrugated tubes
- Mill coil packaging

Testing Facilities:

- Computerised tensile testing machine (capacity range 20kg to 40 ton)
- Bend testing, wrap testing, torsion testing machine
- Hardness testing machine
- Microscope with image analyser with micro photo facilities
- IGC test facilities
- Cold upset test facility
- PMI tester (Niton gun X-ray analyser)
- Spectro and Leco analysers for chemical composition-optical emission spectro and gas analysers
- Radioactive contamination testing

Applications of Wires:

Wires: Soft finish wires with matte or bright condition, 1/8 hard, 3/4 hard (suitable for electro polish quality), F hard, G hard, full hard with coated or de-coated condition.

Product	Applications
Welding wire	For electrode core wire, submerged arc welding wire, TIG and MIG welding wire
Cold heading wire	For nut, bolt, tapping screws, machine screw, Philip head screws, wood screw, screw cross head
Weaving / braiding/knitting wire	For meshes, nets, screens, conveyer belts, kitchen appliances, wire cloths
Electro polish wire	For pet cages, kitchen ware, grill racks, decorative handles, wire baskets
Spring wire	For corrosion resistant springs, heat resistant springs, electronic and electrical appliance
Rope wire	For corrosion and wear resistant wire ropes
Redraw wire	For further drawing into fine and superfine wires
Tie wire	For fastening cables, garden wattles, wattled walls, fencing
Staple wire	For corrosion resistant industrial staple
Nail wire	For corrosion resistant nails



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STAINLESS STEEL ROUND BAR | HEX BAR
SQUARE BAR | RODS | WIRES**

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