



▪ *Stainless Steel
Cold Heading Wires*



Raajratna[®] Metal Industries Limited



Green Power

We Use
100%
GREEN POWER

HARNESSING THE POWER OF NATURE

THE ONLY COMPANY

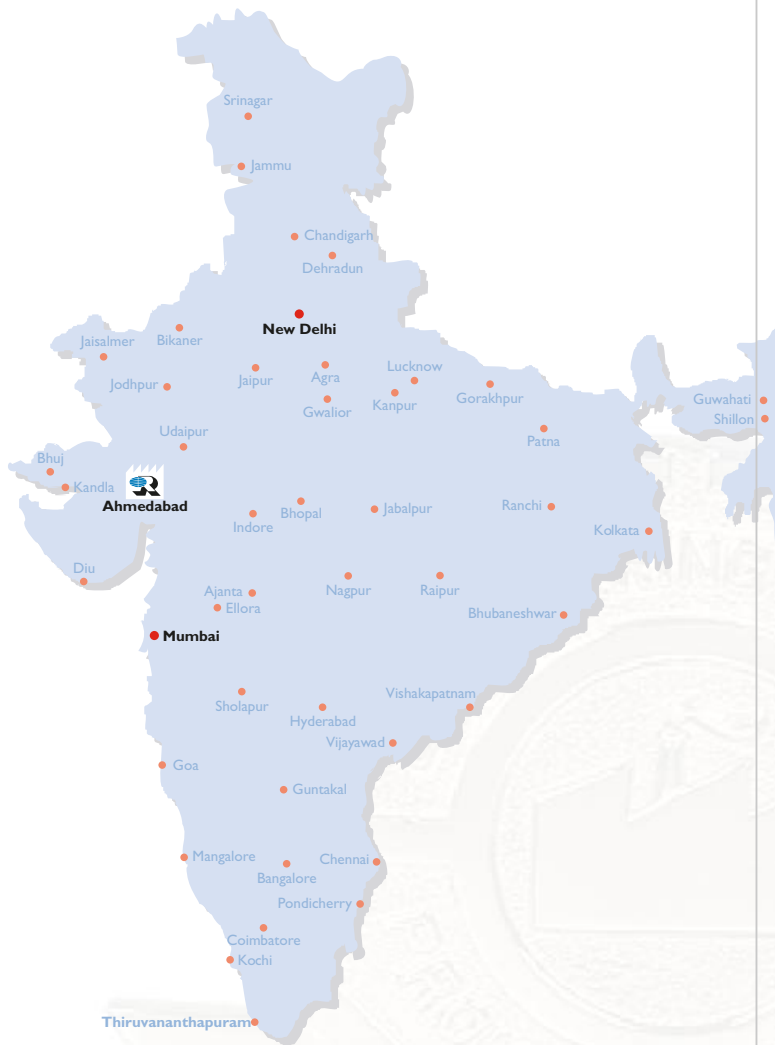
using 100% green power

for manufacturing stainless steel wires & bars





Company Profile



Raajratna Metal Industries Limited an "ISO 9001-2008" accredited company, started production of stainless steel wires in 1990 and subsequently diversified to bright bars. Since its beginning Raajratna has used state-of-the-art technology with strong emphasis on product quality and customer satisfaction.

As a result of continuous improvement in every aspect of business, within a short span, today Raajratna has become one of the most reliable source of quality product both in domestic as well as in international market with annual production capacity of 30,000 tonnes. Because of its large manufacturing capacity and continuous product innovation with regular upgradation of production process. Raajratna has achieved economy of scale and is able to serve customers having highly diversified requirements.

Raajratna exports more than 80% of its production to 50 countries across the globe. Raajratna is being awarded every year since 1991 for excellence in exports. It has been possible due to Raajratna's ability to meet exact market requirements and strict adherence to delivery schedule with an individual attention to every customer.



Product Range

Stainless Steel Cold Heading Wires

Raajratna manufactures high quality stainless steel cold heading wire from 1.00 - 20.00 mm with soap drawn skin pass uniform coating as well as from 1.00 - 10.00 mm in annealed condition in various grades.

The cold heading wires are manufactured as per ASTM A 493 & JIS G 4315 standard as well as other equivalent international standards.

The wires are free from surface imperfections like seam / crack and wire drawing defects such as scratches, die marks, heavy pitting, etc. The selection of grade depends on the final application and type of products to be manufactured. We can also provide technical assistance to customers, in case of any difficulty.

Surface Finish & Application

Grade	Diameter in mm	Surface Finish	Application
302HQ	1.00 - 20.00	Soft / Coated	Wood Screws, Bolts, Rivets, Nuts, Automotive Industries, House Hold Appliances, Aeronautics, Building & Construction, etc.
XM7			
304HC, 305			
304, 316, 316L			
304			
410, 430			
316Cu			

Coating

We are using coating salts and drawing lubricants from CONDAT and also japanese origin (There is no hazardous coating or lubricant used)

Physical Properties

Grade	Diameter in mm	Tensile Strength N / mm ²	Elongation (%)	R / A (%)
302HQ	1.00 - 20.00	520 - 620	35 - 45	65 - 75
XM7		520 - 620	35 - 45	65 - 75
304HC, 305		550 - 650	35 - 45	60 - 70
304 / 316 / 316L	1.00 - 10.00	650 - 750	30 - 40	60 - 70
316Cu		520 - 600	35 - 45	65 - 75
410		600 - 700	10 - 25	60 - 70
430		450 - 550	10 - 25	60 - 70



Packaging & Chemical Composition

Packaging



Coil

Type : Coated
Weight : 250 - 500 kgs

Type : Annealed
Weight : 200 - 300 kgs



Carrier

2 to 3 Coils on one carrier
Weight : 500 - 1500 kgs

* Customised packing available on request.

Diameter in mm	Weight in kg	Type of Packing
1.00 - 1.50	30 - 50	Coils
1.60 - 4.00	100 - 200	Coils / Euro Coil
4.00 - 8.00	250 - 500	Coils / Euro Coil
8.00 - 12.00	500 - 1000	Coils / Euro Coil
12.00 - 20.00	500 - 1000	Coils

Chemical Composition

TYPE	C	Mn	P	S	Si	Cr	Ni	Cu	Mo
AISI	Max	Max	Max	Max	Max				
	%	%	%	%	%	%	%	%	%
304	0.08	2.00	0.045	0.030	1.00	18.0 / 20.0	8.0 / 10.0	---	---
304 HC	0.08	2.00	0.045	0.030	1.00	18.0 / 20.0	8.0 / 10.0	2.0/3.0	---
305	0.06	2.00	0.045	0.030	1.00	17.0 / 19.0	11.0 / 13.0	---	---
302 HQ	0.03	2.00	0.040	0.015	1.00	17.0 / 19.0	9.0 / 11.0	3.0/4.0	---
XM - 7	0.03	2.00	0.040	0.015	1.00	17.0 / 19.0	8.0 / 10.0	3.0/4.0	---
316	0.08	2.00	0.045	0.030	1.00	16.0 / 18.0	10.0 / 14.0	---	2.0 / 3.0
316L	0.03	2.00	0.045	0.030	1.00	16.0 / 18.0	10.0 / 14.0	---	2.0 / 3.0
316Cu	0.03	2.00	0.030	0.015	1.00	16.0 / 18.0	10.0 / 14.0	3.0/4.0	2.0 / 3.0
410	0.15	1.00	0.040	0.030	1.00	11.5 / 13.5	---	---	---
430	0.03	1.00	0.040	0.030	0.75	16.0 / 18.0	0.60	---	---



Quality Assurance System

Quality Policy

We at Raajratna are committed to satisfy the needs and expectation of the customers by manufacturing and supplying stainless steel wires, stainless steel bright bars and heat resistance wires of stated quality, timely delivery and reliable services at all times.

This is achieved by

Encouraging participation of employees.

Supplying reliable product assured by complying requirements and continuously improving the effectiveness of quality management system.



Tensile Testing



The company has modern production facilities manned by experienced and committed personnel to produce wires and bright bars conforming to various international standards.

The quality is built into the product as a result of inspection and testing at various stages of production starting from raw material stage to finish product. We have also installed spectrometer for chemical analysis of incoming raw material.



Chemical Lab



Mechanical Lab



Metallurgical Lab / Conoptica



Spectrometer



Raajratna's Global Presence

Raajratna exports it's 80% of production to more than 50 countries across the globe



Enquiries & Orders

Please provide following information while forwarding your enquires and orders :

- ▶ Size
- ▶ Grade (as per international standards) with any change from standard composition.
- ▶ Finish condition, tensile strength and surface finish
- ▶ End application
- ▶ Quantity for each size and each grade
- ▶ Delivery Schedule
- ▶ Packaging requirements - coil, spool etc. with specific dimensions
- ▶ Port of shipment / Destination

For more information please visit our [website : www.raajratna.com](http://www.raajratna.com)

"Raajratna" Quality so outstanding...
...we are proud it's Indian



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