



Stainless Steel Wires



BHANSALI
STAINLESS LIMITED



Drawing Machines

Stainless Steel Wires

BHANSALI produces excellent quality of **Stainless Steel Wire** by using finest raw materials, state-of-the-art manufacturing facilities and highly skilled manpower.

Thick and Medium Size Wires are produced in various grades, finish, tempers for a wide range of applications.

Size	0.70 mm to 6 mm (0.027" to 0.236")
Grades	201, 201Cu, 202, 204Cu, 302, 302HQ, 303, 304, 304L, 308LER, 316, 316L, 316Ti, 316LER, 430L and others.
Finish	Bright Drawn, Bright Shiny, Matt Drawn, Coated, De-coated
Temper	Soft, 1/8 Hard, 1/4 Hard, 1/2 Hard, 3/4 Hard, Full Hard.
Tolerance	As per ASTM / EN standards.



Stainless Steel Fine Wires

Fine Wires are available in different size, finish and tempers for various applications.

Size	0.10 mm to 0.70 mm (0.004" to 0.027")
Grades	302, 304, 304H, 304L, 316, 316L, 430L and others
Finish	Bright, Matt
Temper	Soft, 1/4 Hard, Full Hard
Tolerance	As per ASTM / EN standards.





Drawing Machines

Applications - Stainless Steel Wires

Stainless Steel Spring Wires

Bhansali produces Spring Wires with characteristics like smooth surface, high corrosion resistance, high fatigue strength. Wires are produced with controlled Cast and Helix for uniformity in Spring forming. Spring Wires are suitable for producing various types of Springs like Compression Springs, Extension Springs, Torsion Springs and Wire Forms.

Size	0.60 mm to 6mm (0.023" to 0.236")
Grades	302, 304, 304H, 316, 1.4310
Finish	Matt, Bright, Stearate Coated, Decoated
Temper	Half Hard, 3/4 Hard, Full Hard
Tolerance	As per ASTM A313 / EN 10270-3
Packing	Coils, Wooden Spool, Plastic Spool, Compact Coil



Stainless Steel Cold Heading Wires

Cold Heading wires are suitable for applications like Screw, Bolts, Nuts, Rivets for industries such as Automotive, Household, Aviation & Construction. For Cold Heading Quality wires Bhansali uses Condat or equivalent surface coating and Stearate lubricant.

Sizes	1mm to 20mm (0.040" to 0.787")
Grades	304L, 304HC, 302HQ, 316, 204Cu, 201Cu, 430L
Finish	Annealed or Soap Drawn (Skin Pass)
Temper	Soft, 55kg/mm ² to 75kg/mm ² (depending on Grades, Size and finish)
Tolerance	As per ASTM / EN Standard
Packing	Coil of 250-500kgs, 2-3 coils on carriers





Furnace Take-Ups



EPQ Wires : EPQ Wires are suitable for making Kitchenwares, Basket, Cable Trays and Trolleys with final process as electropolishing. Clean, Degreased & Defect free surface results in very lustrous appearance when electropolished.

Sizes	1.0 mm to 8.0 mm (0.040" to 0.315")
Grades	304, 304L, 316, 316L and others
Finish	Bright , Degreased finish suitable for Electropolishing
Temper	Soft, 1/4 Hard
Packing	Coils of 100-500 kgs, Coils on Carriers, Cheese Coils of 500-800 kgs



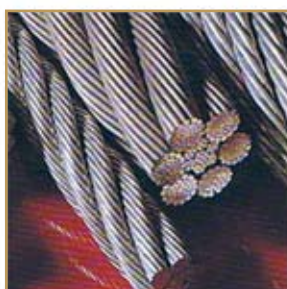
Spoke Wires : Spoke Wire is used for manufacturing of spokes for Bicycles, Motorbikes, Car Wheels and Umbrella. Defect free surface, correct mechanical properties and tight size tolerance provide optimum fatigue properties in finished wire.

Sizes	1.50 mm to 5.0 mm (0.060" to 0.196")
Grades	302, 304
Finish	Bright
Temper	1/2 hard, 90-120 Kg/ mm sq
Packing	Coils of 200-500 kgs, 2-3 Coils on Carriers



Filter Cage Wire : Filter cage are used in filtration plants for dust collection and thus they prevent of air-pollution. Wires for filter cage are produced with bright, clean finish.

Sizes	2.0 mm to 5.0 mm (0.078" to 0.196")
Grades	304, 304L, 316,316L
Finish	Bright, Clean
Temper	Soft, 1/4 hard
Packing	Coils of 200-500 kgs, Cheese Coils of 500-800 kgs



Rope Wire : Bhansali produces rope wires with close tolerances and excellent surface finish for manufacturing wire ropes for various applications like suspension bridges, cranes, elevators and others.

Sizes	0.70 mm to 3.0 mm (0.027" to 0.118")
Grades	302, 304, 316
Finish	Matt, Bright
Temper	3/4 Hard, Full Hard
Packing	Coils, Spools



Strand Annealing Furnace



Nail Wires : Bhansali produces nail wires for manufacturing stainless steel nails and collated nails for automotive, household and construction industry.

Sizes	0.8 mm to 6.0 mm (0.031" to 0.236")
Grades	304, 316, 304HC, 302HQ
Finish	Matt, Soap Coated
Temper	Soft, 1/4 Hard
Packing	Coils 200-500 kgs, 2-3 Coils on Carriers



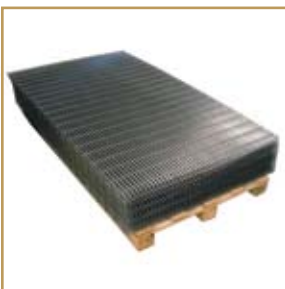
Electrode Core Wires : Bhansali produces Electrode wires with controlled chemical composition for achieving high corrosion resistance and excellent welding characteristics.

Sizes	0.8 mm to 6.0 mm (0.031" to 0.236")
Grades	304LER, 308LER, 316LER and others
Finish	Matt, Soap Coated
Temper	1/4 Hard, 750-900 N/mm sq
Packing	Coils, 2-3 Coils on Carriers, Cut Length in Wooden Boxes



Wall Tie Wires : Stainless Steel Wire find application in building and construction industry due to its high corrosion resistance and strength. Wall ties are produced from SS wires for restraining brickwork, blockwork and stonework.

Sizes	2.0mm to 5.0mm (0.078" to 0.196")
Grades	302, 304, 316, 316Ti
Finish	Bright, Degreased
Temper	1/4 Hard
Packing	Coils of 500-1000 kgs on Carriers.



Mesh Wire / Conveyor Belt Wire : Stainless Steel Wire is extensively used in producing wire mesh, welded wire mesh and Conveyor Belts.

Sizes	0.8mm to 5.0mm (0.031" to 0.196")
Grades	302, 304, 314, 316, 316Ti
Finish	Bright, Matt
Temper	Soft, 1/4 Hard
Packing	Coils of 50-500 kgs, Coils on Carriers, Coils on Drums of 200-250 kgs



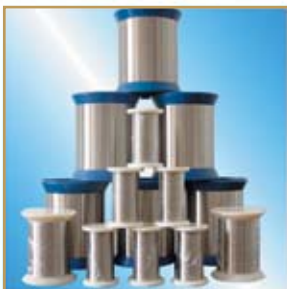
Free Cutting Wire : Bhansali manufactures free cutting stainless steel wires for improved machinability. High sulphur content and calcium silica treatment are key features of free cutting stainless steel grades.

Sizes	2.0 mm to 6.0mm (0.078" to 0.236")
Grades	303, 304, 316, 416, 430F, 1.4104
Finish	Bright, Matt
Temper	Soft, 1/4 Hard
Packing	Coils of 50-500 kgs, Coils on Carriers



Scrubber Wires : We produce stainless steel redraw wire for scrubbers. The wires have excellent drawability.

Sizes	0.8mm (0.031")
Grades	304, 430L
Finish	Matt
Temper	Soft Annealed
Packing	Coils, Cores or Drums of 200-250 kgs



Re-Draw Wires : We produce stainless steel Re-draw wires for manufacturing Fine Wires for various applications. Good die life and high speed drawing are key benefits of our redraw wire.

Sizes	0.8 mm to 2.0mm (0.031" to 0.078")
Grades	304, 304L, 316, 316L, 430L
Finish	Bright, Matt
Temper	Soft Annealed
Packing	Coils, Core or Drums of 200-250 kgs

Other Applications

➤ Staples

➤ Screens

➤ Lashing Wires

➤ Steel Balls

➤ Needles

➤ Wire Brushes

➤ Music Wires

➤ Steel Shots



Packaging

Stainless steel wires are packaged in various forms.

- **COILS**
Stainless Steel Wire in coils are wrapped in plastic film or HDPE.
- **COMPACT COILS**
Higher coil weights can be supplied in Compact coils with core inside.
- **WOODEN AND METAL SPOOLS**
Wire can be supplied on Wooden or Metal spools in DIN 760 and DIN 500 dimensions.
- **PLASTIC SPOOLS**
Fine Wires can be supplied on Plastic spools in DIN 80 to DIN 300 dimensions.
- **CORES / DRUMS**
Wire can be supplied on Cores or Drums made of Fibre.
- **TUBULAR CARRIERS**
Coils can also be shipped on MS tubular carriers with single or 2-3 coils together.
- **WOODEN PELLETS / WOODEN BOXES**
Coils, Compact Coils, Wooden and Metal Spools, Cores, Drums all can be supplied on wooden pellets for easy handling and unloading. Wooden Boxes with MS Support are also possible for extra protection.

Weights and Dimensions in various supply conditions for the Coils, Spools, Cores and Drums are available on request.



Quality Assurance

Bhansali assures that the customer is completely satisfied with the quality of our products and services. Quality is achieved by three-stage quality control in raw materials, in-process and finished goods.

Our quality control systems and procedures are well defined and thoroughly implemented. Our systems are ISO 9001:2000 certified

Quality Policy

We believe in long business relationship with the customers and ongoing customer satisfaction by supplying consistent quality product through effective involvement of all employees and continual improvement of processes.





Chemical Composition : Stainless Steel Grades

Bhansali produce Stainless Steel Wires in various grades for Stainless Steel Wire Drawing.

AISI ASTM	Equivalent EN/DIN	C % Max	Mn % Max	Si % Max	S % Max	P % Max	Cr % Max	Ni % Max	Mo % Max	Others %
201	-	0.150	5.50-7.50	1.00	0.030	0.060	16.00-18.00	3.50-5.50	-	-
201Cu	-	0.100	8.00-8.50	1.00	0.030	0.080	14.00-16.00	1.00-1.50	-	Cu : 1.50-2.00
202	-	0.150	7.50-10.00	1.00	0.030	0.060	17.00-19.00	4.00-6.00	-	-
204Cu	1.4597	0.100	7.00-8.50	1.00	0.030	0.060	16.00-18.00	1.25-2.00	-	Cu : 2.00-3.50
301	1.4310	0.150	2.00	1.00	0.030	0.045	16.00-18.00	6.00-8.00	-	-
302	-	0.150	2.00	1.00	0.030	0.045	17.00-19.00	8.00-10.00	-	-
302HQ	1.4567	0.030	0.60-2.00	0.75	0.030	0.045	17.00-19.00	9.00-10.50	0.50	Cu : 3.00-4.00
303	1.4305	0.150	2.00	1.00	0.15 Min.	0.045	17.00-19.00	8.00-10.00	-	-
304	1.4301	0.070	2.00	1.00	0.030	0.045	18.00-20.00	8.00-11.00	-	-
304L	1.4307	0.030	2.00	1.00	0.030	0.045	18.00-20.00	8.00-12.00	-	-
304LER	-	0.025	1.00-2.00	0.30-0.50	0.015	0.025	18.00-19.00	9.00-10.00	0.25	Cu : 0.25 max
304HC	-	0.050	1.50	1.00	0.015	0.045	16.00-19.00	8.00-9.50	-	Cu : 2.00-2.50
308LER	-	0.030	1.00-2.50	0.30-0.65	0.030	0.030	19.50-22.00	9.00-11.00	0.75	Cu : 0.75 max
310S	1.4845	0.080	2.00	1.50	0.030	0.045	24.00-26.00	19.00-22.00	-	-
314	1.4841	0.200	2.00	1.50-2.50	0.015	0.045	23.00-26.00	19.00-22.00	-	-
316	1.4401	0.070	2.00	1.00	0.030	0.045	16.50-18.00	10.00-14.00	2.00-3.00	-
316L	1.4404	0.030	2.00	1.00	0.030	0.045	16.50-18.00	10.00-14.00	2.00-3.00	-
316LER	-	0.030	1.00-2.50	0.30-0.65	0.030	0.030	18.00-20.00	11.00-14.00	2.00-3.00	0.75
316Ti	1.4571	0.080	2.00	1.00	0.030	0.045	16.50-18.00	10.00-14.00	2.00-3.00	Ti: Min (5xC% to 0.70)
321	1.4541	0.080	2.00	1.00	0.030	0.045	17.00-19.00	9.00-12.00	-	Ti: Min 5x (C+N) %
430	1.4016	0.120	1.00	1.00	0.030	0.040	16.00-18.00	-	-	-
430L	1.4016	0.030	1.00	1.00	0.030	0.040	16.00-18.00	-	-	-



Web : www.bhansalistainless.com
E-mail : wire@bhansalistainless.com