



VITAL STEEL BARS LLP

An ISO 9001 : 2015 & 14001 Certified Co.

a wide range of high quality products by VSB

company portfolio

www.vsbsteel.in

IS : 2062



CML-9700135613

IS : 2830



CML-9700131815

IS : 7887



CML-9700132211

Group of Companies :

JAI JAWALA STEELS PVT. LTD.

SHREE SIDDI VINAYAK FORGING PVT. LTD.

VSB WIRE ROD MILL

IS : 2062



CML-9700135613

IS : 2830



CML-9700131815

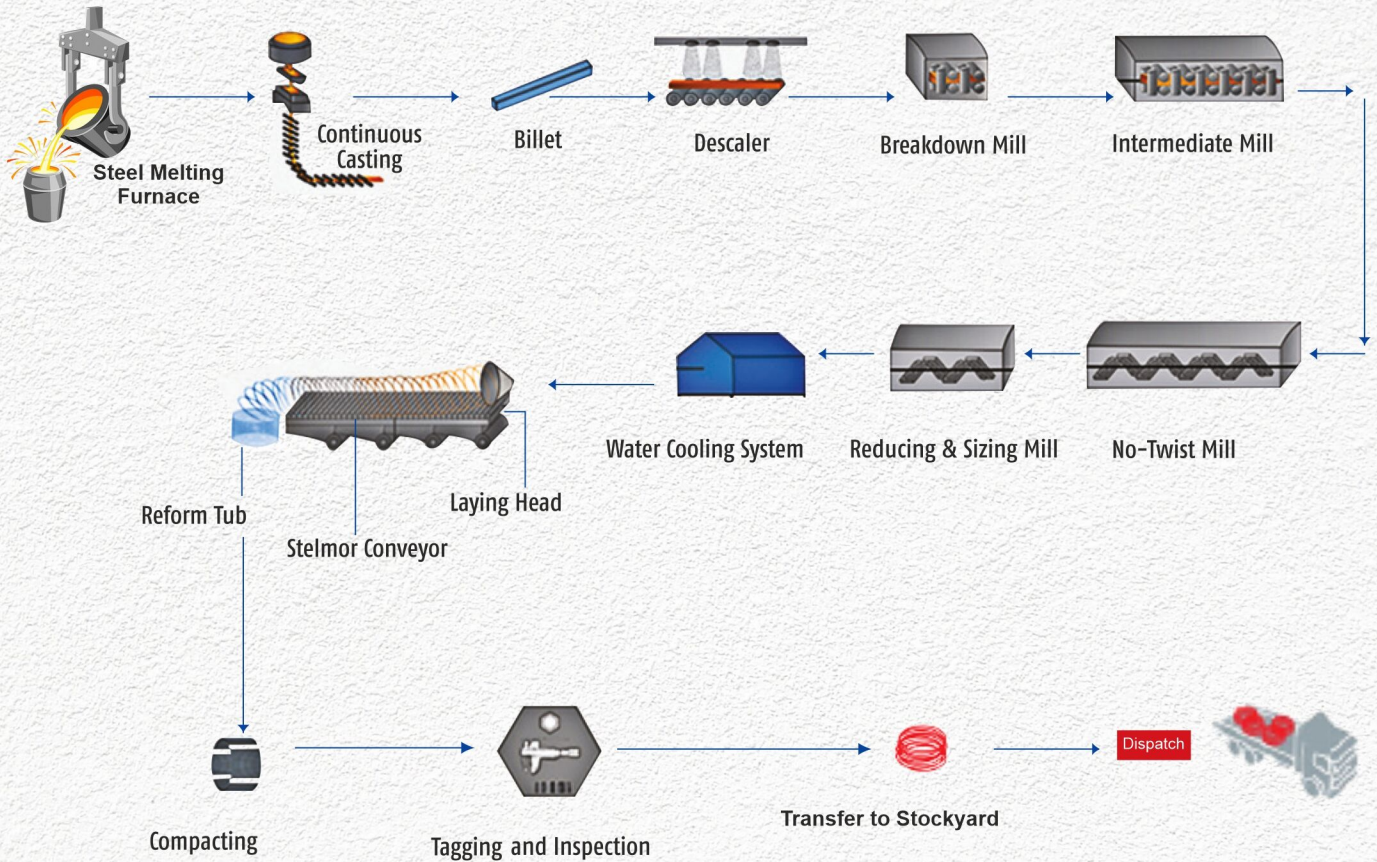
IS : 7887



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PROCESS FLOW CHART





WIRE RODS

VITAL STEEL BARS LLP

An ISO 9001 : 2015 Certified Co.

OUR OTHER PRODUCTS

WIRE RODS

5, 5.5, 6.5, 8, 9, 10, 11, 12, 13, 14, 15, 16 mm

ROUNDS

16, 18, 20, 22, 25, 26.5, 27, 30, 32, 34, 36, 37, 38, 40, 42, 44, 45, 46.5, 48, 50, 53.5, 56, 58, 60, 63, 66 mm

REINFORCEMENT BARS

8, 10, 12 mm

in straightened or coil form

16, 18, 20, 22, 25, 28, 32 mm

in straight lengths



ROUNDS



BILLETS



TMT BARS

As **VSB** we are not just a name, it's a Thought.

Our vision to provide a complete solution for Steel / Metal Rolled Products under a single roof.

Our Group concerns are as bellow....who are manufacturing different type of products.

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products are rolled in a **WORLD** class rolling plant

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SALIENT FEATURES OF WIRE ROD PRODUCTS

SPECIAL FEATURES OF VSB WIRE RODS

- Uniformity across the length
- Excellent finish and low dimensional tolerance due to uses of tungsten carbide rings in rolls.
- Free from any surface defects
- Superior grain structure due to no stress and rolling temperature control.
- Controlled cooling system to ensure low scale formation over products
- Low sulphur and phosphorous content.

OUR SERVICES

- We will make available our rolling programme to our customers in advance. This will help them to schedule their production accordingly and this will allow them to reduce stock inventory at their plant.
- Modern handling facilities at our plant and stockyard to ensure delivery of wire rods with minimal surface damage.
- Quick Delivery to meet requirement of customers
- Prior information to customers about rolling schedules.
- Fully equipped laboratory for prompt testing.

WIRE ROD MILL FEATURES

ANNUAL PRODUCTION CAPACITY	0.4 MTPA
OUTER DIAMETER	1250
INNER DIAMETER	850
COIL WEIGHT	800-1000kg
SIZE RANGE	5.0~16.0 mm
MILL SPEED	80 meter per second
NO. OF STANDS	28

DIMENSIONAL TOLERANCE

DIAMETER (MM)	TOLERANCE OF DIAMETER (MM)	OVALITY (MM)
5.5~10.0	±0.15	≤0.24
10.5~15.0	±0.20	≤0.32
15.5~16.0	±0.25	≤0.40



APPLICATION OF WIRE RODS & ROUNDS

PRODUCT CATEGORY

APPLICATIONS

Low carbon wire rods

Cable armour wire, binding wire, nails, fencing wire, nut & bolt, screw, fasteners etc.



PRODUCT SPECIFICATIONS

LOW CARBON	GRADE	CARBON%	MANGANESE%	SULPHUR%	PHOSPHORUS%	SILICON%	Al%
	SAE 1008 (SWR 10)	0.10 max	0.30-0.60	0.025 MAX	0.025 MAX	0.10 MAX	0.020-0.040
	SAE 1010 (SWR 14)	0.08-0.13	0.30-0.60	0.025 MAX	0.025 MAX	0.10 MAX	0.020-0.040
	SAE 1020	0.18-0.23	0.30-0.60	0.025 MAX	0.025 MAX	0.10-0.35	0.020-0.040
	SAE 1025	0.22-0.28	0.30-0.60	0.025 MAX	0.025 MAX	0.10-0.35	0.020-0.040

APPLICATION OF WIRE RODS & ROUNDS

PRODUCT CATEGORY

APPLICATIONS

Medium carbon wire rods

High tensile fasteners for automobile and construction industries, wire for elevators, cableways & cranes, nut & bolt, screw, rivet, axle.

Cold heading quality steel wire rods

Automobile and machine parts like screw, high tensile fastners, bush, spline, socket, connecting rod, shaft, gear, quarter, nails, rivets etc.



PRODUCT SPECIFICATIONS

MEDIUM CARBON

GRADE	CARBON%	MANGANESE%	SULPHUR%	PHOSPHORUS%	SILICON%	Al%
SAE 1030	0.28-0.34	0.60-0.90	0.025 MAX	0.025 MAX	0.15-0.35	0.020-0.050
SAE 1035	0.32-0.38	0.60-0.90	0.025 MAX	0.025 MAX	0.15-0.35	0.020-0.050
SAE 1038	0.35-0.42	0.60-0.90	0.025 MAX	0.025 MAX	0.15-0.35	0.020-0.050
SAE 1040	0.37-0.44	0.60-0.90	0.025 MAX	0.025 MAX	0.15-0.35	0.020-0.050
SAE 1541	0.36-0.44	1.35-1.65	0.025 MAX	0.025 MAX	0.10-0.30	0.020-0.050
EN 80	0.40-0.45	0.60-0.90	0.025 MAX	0.025 MAX	0.15-0.35	0.020-0.050

COLD HEADING QUALITY STEEL

GRADE	CARBON%	MANGANESE%	SULPHUR%	PHOSPHORUS%	SILICON%	Al%
SAE 1008	0.10 MAX	0.30-0.60	0.020 MAX	0.025 MAX	0.10 MAX	0.010-0.020
SAE 1010	0.08-0.13	0.30-0.60	0.020 MAX	0.025 MAX	0.10 MAX	0.010-0.020
SAE 1012	0.10-0.15	0.30-0.60	0.020 MAX	0.025 MAX	0.10 MAX	0.010-0.020
SAE 1015	0.13-0.18	0.30-0.60	0.020 MAX	0.025 MAX	0.10 MAX	0.010-0.020
SAE 1018	0.15-0.20	0.60-0.90	0.020 MAX	0.025 MAX	0.10-0.30	0.010-0.020
SAE 1020	0.18-0.23	0.60-0.90	0.020 MAX	0.025 MAX	0.10-0.30	0.010-0.020

APPLICATION OF WIRE RODS & ROUNDS

PRODUCT CATEGORY

APPLICATIONS

High carbon wire rods

Wire for concrete reinforcement for railway sleepers, tyre bead, umbrella ribs, cycle spoke, spring application, wire rope, needle wire, conveyor wire etc.

Alloy steel wire rods

Case hardening automobile and machine parts like gears, pinion, crown wheel, cam shaft etc.



PRODUCT SPECIFICATIONS

HIGH CARBON STEEL

GRADE	CARBON%	MANGANESE%	SULPHUR%	PHOSPHORUS%	SILICON%	Al%
HC 36/40	0.36-0.4	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX
HC 41/45	0.41-0.45	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX
HC 51/55	0.51-0.55	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX
HC 56/60	0.56-0.60	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX
HC 61/65	0.61-0.65	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX
HC 66/70	0.66-0.70	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX
HC 71/75	0.71-0.75	0.60-0.80	0.03 MAX	0.03 MAX	0.15-0.30	0.010 MAX

ALLOY STEEL

GRADE	CARBON%	MANGANESE%	SULPHUR%	PHOSPHORUS%	SILICON%	Al%	CR%	Mo%	Ni%	B%
16MnCr5	0.14-0.19	1.00-1.30	0.025 MAX	0.025 MAX	0.15-0.35	0.020-0.030	0.90-1.10	—	—	—
20MnCr5	0.17-0.22	1.10-1.40	0.025 MAX	0.030 MAX	0.15-0.35	0.020-0.030	1.10-1.30	—	—	—
SAE 8620	0.18-0.23	0.70-0.90	0.025 MAX	0.030 MAX	0.15-0.35	0.020-0.030	0.40-0.60	0.15-0.25	0.40-0.70	—
SAE 4140	0.38-0.43	0.75-1.00	0.030 MAX	0.030 MAX	0.20-0.30	0.020-0.030	0.80-1.10	0.15-0.25	—	—
SAE 1030Cr	0.28-0.34	0.60-0.90	0.030 MAX	0.030 MAX	0.15-0.30	0.020-0.030	0.25-0.35	—	—	—
15B 25	0.23-0.28	0.90-1.30	0.030 MAX	0.030 MAX	0.15-0.30	0.020-0.030	0.10-0.25	—	—	0.0008-0.003



VSB VITAL STEEL BARS LLP

a wide range of high quality products

Vill. Budhewal, Chandigarh Road, Ludhiana - 141 112 (Punjab) - INDIA

info@vsbsteel.in, www.vsbsteel.in

WE ARE JUST A CALL AWAY +91 84370 23702

Group of Companies :

- JAI JAWALA STEELS PVT. LTD.
- SHREE SIDDI VINAYAK FORGING PVT. LTD.

Auth. Stockist : _____