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## R.S HEAVY ROLLS PRIVATE LIMITED

**Manufacturer & Exporter of:**

All Type of Metal Rolls & Machineries for Steel Rolling Mills

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A Professional  
Group Devotes  
To The Steel Industry

Professional and reliable manufacturer  
of rolling mill rolls & machineries



## Our Vision

Our commitment is also for continual improvement in the systems and processes along with the development of our human resources.



## Director's Message

*All our departments, Production, Sales, Quality and Human Resources are totally focused on their jobs to ensure that our Customers are Happy in terms of Quality & Price. Today we export to over 18 countries. We have created a strong bonding with our customers over the years. We have evolved from being a tiny unit almost 5 decades ago, to today catering over 350 plus smiling customers who TRUST our Brands for quality and price.*

*Today with onset of GST and demonetization, we are ready to take on the domestic and global markets with a renewed zeal, which will propel us into the big league very soon. We seek your support to give you the best!*



Mr. Sarvesh Kathuria  
(Director)

## Company Profile

**R.S. HEAVY ROLLS PRIVATE LIMITED** is a name of quality, durability & satisfaction. We have made tremendous development in manufacturing of Rolls and have achieved greatest glory in this field. Our technical staff is always endeavoring to achieve the superb quality. The Rolls are dispatched after tremendous quality checking.

The service after sales is our prime motto. We are supplying our Rolls to most reputed semi and fully automatic rolling mills in INDIA. **R.S. HEAVY ROLLS PRIVATE LIMITED** have an inexhaustible reputed company on the array of our customers.

As quality is becoming a decisive factor in the face of ever-harsher competition in national and international markets, our market success is closely linked with our uncompromised quality approach which has adopted high-end norms of roll making connected to our goal of meeting the constantly increasing quality requirements of our customers, resulting in our utterly satisfied customers from decades and this comes not only from quality approach & system, but it comes also from attitude and ethics which transmit our core values of credibility, commitment, agility, team spirit, honesty, integrity and excellence as our corporate culture. We are still committed to our customers for best values, low cost yet high quality product and services.

The quality is maintained not just in physical tolerance, but by using superior OE grade raw materials and better quality heat treatment oils, our team sees to it that the product we deliver in your hand is durable. By undertaking various exercises like time, Motion and Method Study, Preventive maintenance, Logistic Control, Inventory Planning, Demand and Forecasting, we also ensure that we provide our valued customer quality product at Right Price.

Today we have **leading manufacturer & exporter of DPIC Rolls, ICCI Rolls, SGI Rolls, Adamite Rolls, Rolling Mill Plant & Rolling Mill Machinery, Etc.** Our perseverance and dedication in establishing superior systems have led us to make our mark in many countries across the world and today we have more than 350 plus satisfied & smiling customers.

## Our Mission

To be a leading company, with high brand equity in manufacture & export business, offering sustainable, innovative and cost effective construction products and services contributing to National wealth, upholding responsibility for the environment, and promoting well-being of all stakeholders including employees, customers & society.



**Quality**  
is not  
expensive  
its  
**priceless!**























## Infrastructure & Manufacturing Facilities

We have established a state-of-the-art infrastructure in a sprawling area to manufacture a superior quality range of Industrial Castings. This facility enables us achieve an installation and urgent requirements in a timely manner. Our infrastructure consists of:

- \* Manufacturing unit
- \* Quality testing unit
- \* Research and development unit
- \* Warehouse and packaging unit

We have installed latest and advanced machinery in all these units to conduct a hassle free manufacturing process. Moreover, all these are units are handled by efficient personnel who manage our business operations in a professional manner. Owing to their skills, we have channelized each process at our infrastructure to suit clients preferences.

### In House Manufacturing Facilities

 Generator Sets	 Boring Machines	 Profile Cutter	 VTL
 Verniers, Compasses, Etc.	 Hobbing Machines	 Drill & Tapping Machines	 Slotter Machines
 Shaper Machines	 Press Machines	 Band Saw Machine	 Milling Machines
 Lathe Machines	 ARC Welding Sets	 Latest Micro Meters	 MIG Welding Machines
 Plano Miller	 CNC Machines	 E.O.T. Cranes up to 15 Tons	 Drill Radial



### Health, Safety & Environment Policy

We are committed to excellence in safety by ingraining a health, safety and environment (HSE) mindset into our culture and, above all, by always keeping safety as a top priority.

## Our Quality Policy

**R.S HEAVY ROLLS PRIVATE LIMITED** being in the international market are fully committed to **QUALITY** and are always **QUALITY CONSCIOUS** because :-

- We are fully equipped with modern infrastructure and in house testing facilities.
- Having a efficient, qualified team of professional.
- Ensure after sales services.
- Ensure door deliveries in shortest periods.
- Ensure trouble free services
- Ensure regular checks to get complete performance feed back.
- Ensure optimum performance at very moderate Prices.
- MELTING Good Quality melts, precise composition control, cleaner metal are the performance feature of the melting process.



A series of metallo graphic and mechanical tests monitor the structural homogeneity and ensure that Rolls are free from cracks, blow holes, gas holes, etc. The Rolls meeting all the stringent tests to our complete satisfaction are then sent to the rest of the machine-shop, comprising high precision lathes, radial drill machines, boring machines, wobbler milling & grinding machines, etc. With our skilled, experienced and professional engineers, we have developed a strong hold in the Indian & Overseas market. Our products possess high metallurgic properties. Besides, we use stringent control measures to deliver products that are of superior quality.

**HEAT TREATMENT** Several Heat Treatment Cycles are controlled through a series of most modern temperature controlling equipments.

**Machining** The machine shops are equipped with precision machine tools with dimensional accuracy to cover a vide range of products. For this purpose computer Numeric Control & a Digital feed out system is used with the existing set up.

**R.S HEAVY ROLLS PRIVATE LIMITED** are manufacturing rolls designed for Rolling of Steel, Stainless, Copper, Aluminum, Brass, Paper Mills and other precious metal sheet & Strips etc.

**R.S HEAVY ROLLS PRIVATE LIMITED** are fully quipped and are sound in advising the re-rollers about the type of Rolls to be used to achieve maximum gains.





## Our Manufacturing Range

### ROUGHING STAND ROLLS

We manufacture roughing mill rolls from diameter 300 mm to 600 mm and length from 600mm to 1200mm. The hardness of these rolls ranging from 45 degrees to 55 degrees shore C.

### INTERMEDIATE STAND ROLLS

These rolls are manufactured in the sizes of 250mm to 360mm in diameter and length from 500mm to 600mm. The hardness of these rolls ranging from 60 degrees to 65 degrees shore C.

### FINISHING STAND ROLLS

We manufacture roughing mill rolls from diameter 300 mm to 600 mm and length from 600mm to 1200mm. The hardness of these rolls ranging from 45 degrees to 55 degrees shore C.

### ROLLS FOR NON METAL INDUSTRIES

Rolls for non metal industries like Roller flour mills, Baking Industries, Rubber, Paint, Chemical, Printing Ink Machinery, Solvent Extraction Plants etc. ranging from Diameter 150mm to 600mm and length from 300mm to 1500mm. The hardness of these rolls is 60 degrees to 75 degrees shore C. The chill depth ranges between 15-50mm. The chill depth can be increased or decreased as per customer instructions.

## ROLLING MILL ROLLS



## Our Manufacturing Range

### DEFINITE CHILLED ROLLS

The working surface of **R.S HEAVY ROLLS PRIVATE LIMITED** shows the white graphite free structure consisting of eutectic carbide and transformed austenite. This gives a hard layer which confers good resistance to wear. The core and neck are made upon steel shaft in specialized double poured centrifugally cost chill Rollers barrels.

It retains a fair proportion of its strength at elevated temperature, for example, in hot rolling. These make excellent work steel re-rolling mills, semi-automatic or Automatic plants, Wire roll plants, TMT plants, Roughing mill Rollers, Intermediate.

### INDEFINITE CHILLED ROLLS

Compared to **R.S HEAVY ROLLS PRIVATE LIMITED** where the chill-zone is graphite-free clear white, Indefinite Roll is cast using such proportions of silicon, chromium, nickel and molybdenum that the working face is no longer completely white but contains a small amount of very finely divided graphite flakes gradually increasing from face to core with corresponding decrease in the amount of carbide. The Rollers are to ensure minimum sacrifice of R.S. UDYOG while achieving maximum functional depth.

### HIGHLY ALLOYED CHILLED ROLLS

Alloyed rollers are special steels alloyed with nickel, chromium & molybdenum. which is used in breakdown, roughing & intermediate mills for finishing of heavy sections. these rollers are statically cast and undergo a three stage high temperature heat treatment comprising of annealing, normalizing & tempering rotation. the rollers are available in a wide variety of composition & properties to suit specific application.

### DOUBLE POURED CHILLED ROLLS

The working surface of **R.S HEAVY ROLLS PRIVATE LIMITED** shows the white graphite free structure consisting of eutectic carbide and transformed austenite. This gives a hard layer which confers good resistance to wear. The core and necks exhibit a tough grey structure, and the iron of the transition zone is mottled. It retains a fair proportion of its strength at elevated temperature, for example, in hot rolling. These make excellent work Rollers for two, three and four-high mills, turning out of high grade ferrous and non-ferrous sheet and strip or section. High Alloy Clear Chilled Rollers have proved well suited for the finishing stand of rod and light section mills, for continuous small and medium hot strip mills, and for strip mills of older design.

## CHILLED ROLLS





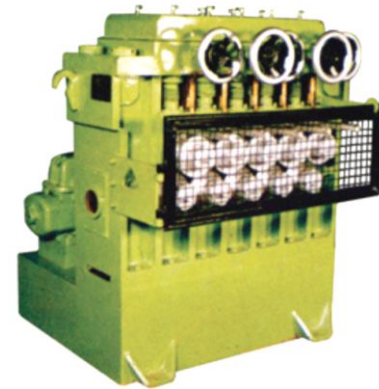
## Our Manufacturing Range

## ROLLING MILL MACHINERIES

### STRAIGHTENING MACHINES

We are trusted manufacturers and suppliers of straightening machines that have gained appreciation for optimum performance and longer service life. Designed with the assistance of our engineering excellence, these machines are used for straightening rolled steel sections such as angle, channels, rounds, and beams.

- Available in 130 mm roll centers to 600 mm roll centers.
- number of rolls can be 10/8 and are suitable for all types of sections.
- Straightening Machine offered by iron/Adamite Rolls.
- Suitable For Joists Upto 500 mm, Channels Upto 400 mm, Angles Upto 200 x 200 mm.



### PLATE CUTTING SHEARING MACHINE

Our range of scrap plate cutting machines have a high reputation among Steel Re-Rolling mills, Scrap processing yards, Ship breaking yards, heavy engineering works all over the world. These machines are built on sturdy and straight forward lines and are completely self contained. They are specially designed for rapid cutting of metal scrap / plate and posses the stamina for continuous high speed duty.

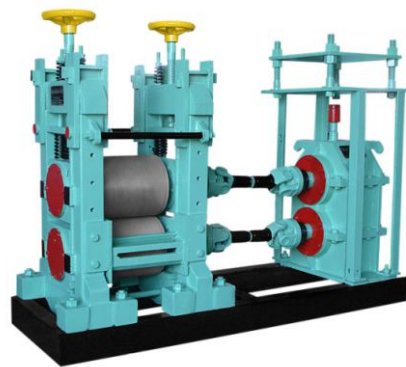
- Designed to cut various sizes of plates and structural.
- Four (4) gears are provided to facilitate operations with considerably small power.
- The body is made from M.S. Plates to cover the risk of any breakage.



### PINCH ROLLS

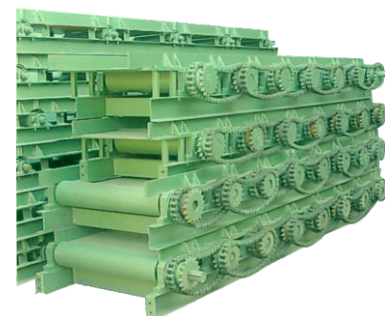
Pinch rolls are used between roughing mill and intermediate finishing mill to carry the hot rolled material, to rotary shear & conveyors.

- Facilitates quick roll changing.
- Compact and simple design.
- Easy to install and requires minimum maintenance.



### ROLLER CONVEYOR

With rich expertise, we have emerged as a renowned manufacturer of roller conveyors that find application in construction industry. These conveyors have gained appreciation for sturdy built, easy operation, and negligible maintenance. Our clients can avail these at industry leading prices.



## Our Manufacturing Range

## ROLLING MILL MACHINERIES

### BEARING CHOCKS

Our range of innovative bearing is designed to provide a modular rotation assembly to provide load support for the shaft axis. The requirements of ergonomic material handling applications have led to bearing assemblies which are lightweight, durable, and have high loading capacity. Each bearing assembly is provided with several flexible mounting options. While our bearing blocks have been specially designed to meet the needs of material handling, they can be incorporated into many other machine design applications.



### DOUBLE REDUCTION GEAR BOX

Our speed reducers feature brand new speed setting mechanism that optimizes the operation, extending the lifetime of the core parts. These innovative machine component also the heavy duty motors to run cooler and smoother than ever before. The inline planetary design provides the user with confidence that environmental and safety requirements are being satisfied. We specialize providing variety of speed reducers based on the requirements of the clients.

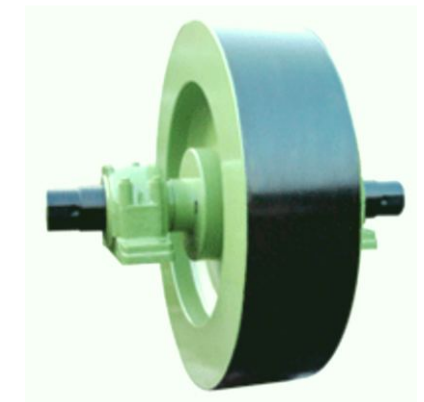
- Multiple speed setting options, Compact structure that can be easily integrated.
- Innovative design with air vent, Low cost, high ratios, and high output torque.



### FLY WHEEL ASSEMBLY

We are one of the leading manufacturers and suppliers of flywheel assemblies that are designed as per international quality standards. Sturdy in construction, flywheel assemblies are dynamically balanced and ultra sound tested to assure these are free from any cracks. Renowned for durability and excellent finish, these find wide application in hot rolling mill.

- Turned to zero eccentricity, Dynamically balanced, Ultra Sound tested.
- Revolution range 50 RPM to 750 RPM.
- C.J. or steel casted flywheels, Steel flywheels up to 20' diameter.
- Flywheels up to 20 M T. weight.

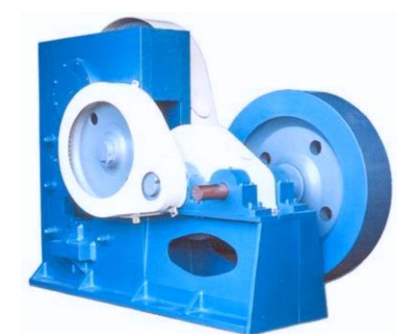


### BILLET SHEARING MACHINE

Today, in this scenario, when industry is developing incredibly, we are counted as the leading manufacturer and exporter of Billet Shearing Machine. These machines are widely used in engineering and construction industries for cutting billets of size ranging from 125 mm to 300 mm. Manufactured by utilizing standardized metals and components, our offered Billet Shearing Machine is technically advanced, robust in construction and consume less power while operation. Our clients can buy this machine from us at cost effective price.

#### Further Details

Cutting up to 125 mm billet to 300 mm.





## Our Manufacturing Range

## ROLLING MILL MACHINERIES

### PINION STAND

We have in store for our clients a range of pinion stands that is available with pinion like spur, helical, double helical and crown. These heavy-duty stands are available in different capacities, which are suitable for varied gear sizes. Renowned for increased power density, these stands are highly useful for designing heavy loads in sugar, cement and mine industry.

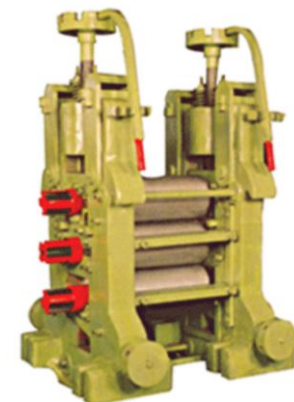
- Available in stress relieved steel fabricated body.
- Case hardened & Ground helical Gears.
- Main gears from casted tested EN-9, EN-19, EN-24 Steel.
- 3-Hi & 2 Hi pinion stands.
- Ranging between 6" to 36" PCD.



### ROLLING MILL STAND

We are engaged in the manufacturing of steel rolling mill stands that has gained appreciation for international quality standards. Compact and simple in design, these are used for the rolling of wire rods, TMT, light medium heavy sections steel up to 50 MT per hour production of ferrous and non-ferrous metals. Available in CI Casted, MS Casted & steel fabricated, these steel rolling mill stands can be customized as per the client's specific requirements.

- Compact and Simple Design, Ensures Quick Roll Changing.
- Independent operation of Screw Up/Down, Mechanism and non drive ends.
- Minimum maintenance and down time.



### GEAR COUPLINGS

Our clients can avail from us a range of gear couplings for hot roll steel plants. Fabricated using finest grades of EN forged steel, these are available in the size range of 106 to 118 and are suitable for 6" to 36" PCD rolling mills. We even custom make these couplings as per the client's specific requirements.

- Takes possible misalignment of shafts
- Ensure low power consumption
- Tested material



### AUTOMATIC COOLING BED

Our range of W channels / Twin channels offers perfect solution for bar handling at cooling bed. These channels are used to collect the TMT bars leaving the Quenching boxes after being sheared by the Flying Shear in two strands. The channel consists of CI central box, water cooled to prevent warping during rolling, and C-type CI channels which are suspended from a longitudinal structural.

- Supporting arrangement for the twin-channel and drive system.
- Cam device for opening closing of the pipes.
- Hydraulic Drive for operation of the cams.



## Our Manufacturing Range

## ROLLING MILL MACHINERIES

### HOT END CUTTING MACHINE

Our end cutting shearing machine incorporate latest technology for increased productivity. These machines are used in hot steel rolling mill plants for cutting of end of the angle. The processed curving edge can be trimmed by the square roller from the top and bottom at the same time, the straight line can also be trimmed by the linear gauge from the top and bottom at the same time with fine brightness and smoothness. End cutting shearing machines are installed near the roughing stand and can be used on oval stand or finishing stand.

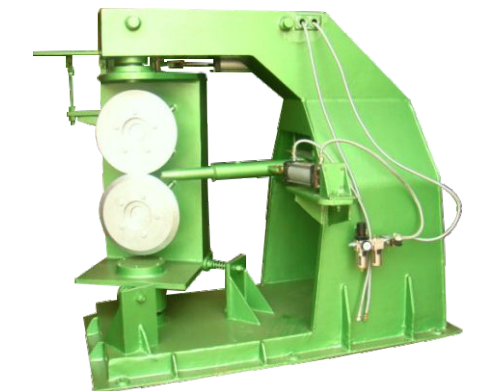
- These machines are used to cut hot steel bars, Clutch can be provided on special order.
- These machines are horizontal/vertical as shown in photo.
- These machines are also of steel body with four steel gears.



### ROTARY SHEARING MACHINE

Rotary shearing machines are used between roughing and intermediate finishing stands to crop front and back ends in TMT Bars/Wire Rod Mills. These machines are provided with self lubricating drive gear box for consistent and smooth operation. We offer high performance rotatory shearing machines both fixed as well as swivel arrangements.

- Fully Automatic with pneumatic controls, capable of cutting hot ends (front and rear) During Rolling, and fixed Lengths of finished bars.
- Steel Fabricated body.
- Circular Blades manufactured from High carbon, high chrome steel.



### E.O.T. CRANES

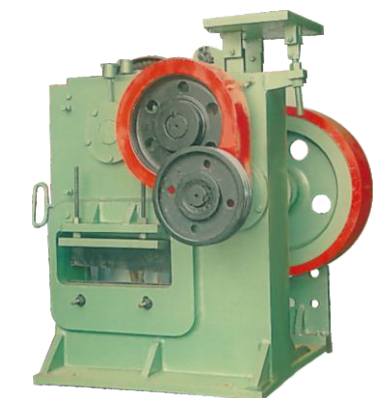
'Overhead cranes or EOT Cranes are also called bridge cranes, are cranes with a hoist traveling along the bridge between parallel runways. They are designed to meet the medium to heavy industrial lifting requirements, covering all parts of manufacturing process. We offers a widest & most sophisticated Customized EOT Cranes Ranging From 200 kg to 250 Tons. Our EOT Cranes are widely used in Steel Mills, Heavy Processing & Service industry for easy material handling & lifting solutions. Our EOT cranes are perfect for crane lifting operations, logistics & drive solutions for light & heavy engg. industries, processing plants, automobiles, solutions for companies of all sizes & in all sectors, trades, industries, workshop requirements in warehouses as well as in open storage areas. Our EOT Cranes are provided with great flexibility in allowing the very precise positioning and jerk-free handling of loads for smooth placing & lifting.



### BILLET SHEARING MACHINE

We offer cold shearing machine which is used to cut heavy billet, hot bars, plate scraps, structure as angle & channel, TMT bundle etc. It also includes snap shear to cut hot rolling during brake down / Mis roll.

- These machines are made from steel instead of cast iron. The capacity of these machines varies to cut Rounds & Squares upto 90mm.
- The machines are used to cut the ends and sizes of all sections and fitted near the cooling bed.
- Clutch is also provided (against order) to stop or to run the machine.





## Our Manufacturing Range

### ROLLING MILL GEARS

With the help of our expert professionals, we have been able to offer superior quality Rolling Mill Gears. These gears are manufactured using high-grade steel, iron and other metals that are procured from the authentic vendors of the market. We also test these gears on various parameters so as to ensure their adherence with set industry standards and norms.

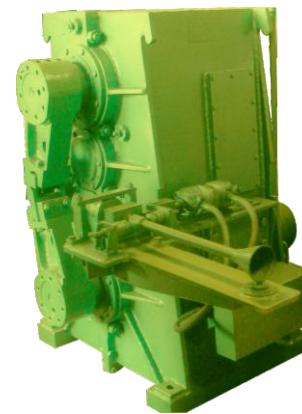
- Low maintenance
- Longer life
- Strong construction



### FLYING SHEARING MACHINE

Our provided quality range of Flying Shear Machine is utilized for cutting TMT Bars which are being rolled at a very high speed. It is installed after TMT quenching box and before the cooling bed. It is applied to cut TMT bars into desired lengths. The machine is set up after TMT box to cut the bars of desired lengths. The Flying Shear Machines speed can be managed by the drive set up on it.

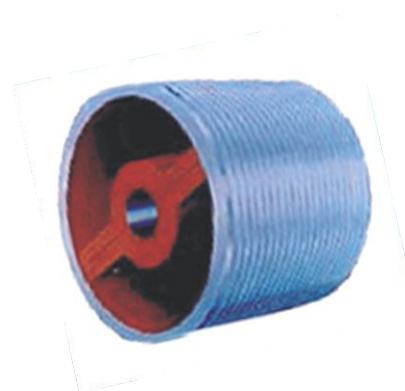
**Application:** To cut finished TMT bars to specific lengths automatically through sensing device & PLC, drive through DC motor or AC variable drive.



### ROLLING MILL PULLEY

We are involved in manufacturing and supplying a wide range of Rolling Mill Pulleys. Made by implementing latest technologies, these Pulleys are robust and dimensionally accurate. Easy grip and tough body of these Pulleys make these ideal to use in various heavy industries. Our products come in standard sizes of 15" to 80" dimensions and sections of B, E and D. the geometric precision, dimensional accuracy and robust construction of our Pulleys, make these highly durable.

- Unmatched quality, High durability, Reliability.



## WE DEAL IN WIRE DRAWING MACHINES

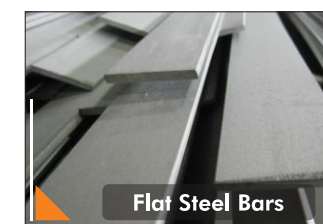
### QUALITY ROLLING MILL PLANT FOR QUALITY PRODUCTS



### APPLICATIONS OF STEEL ROLLING MILL PLANT & MACHINERIES

Our machines find their application in a wide range of industries and are used to manufacture products such as Flat Steel Bars, Round Bars, Wire Rods, Angles, Channel Bar & beams, Steel Billet Bars, Strips & Pipes and many more.

These machines ensure dimensional accuracy and perfect finishing of the products. Also, it is ensured that all the requisite mechanical properties are fully met with.



Flat Steel Bars



Round Steel Bars



Wire Rod



Strips & Pipes



Angle Bars



Channel Bars





**Our Manufacturing Range****ROLLING MILL MACHINERIES****WE DEAL IN WIRE DRAWING MACHINES****WIRE DRAWING MACHINES**

This offered machines are suitable for straight or deflection free drawing of wire to provide better drawability, lower frictional contact and lower operator interference.

**Salient Features:**

- Better productivity due to higher drawing speeds due to twist-free operation.
- Easy operation and faster threading.
- High pressure Narrow gap, internal water cooling for high efficiency cooling of wire.
- High degree of reliability - low downtime due to lower no of wear parts.
- Greater flexibility and lower current consumption due to modern AC drive technology and efficient power transmission system.
- PLC based control with profibus digital communication and fault diagnostic system.

**Our Manufacturing Range****ROLLING MILL PLANT****WIRE DRAWING MACHINES FOR BINDING WIRE**

Our range of wire drawing machines for Binding Wires, is designed to cater to the requirements of diverse applications of engineering industry. Wire drawing machines offered by us are known for offering high resolution and performance. Supported by our vast industry experience, we also offer the facility of customization to our customers in accordance with their industry specific demands.

By keeping track with market development, we are involved in manufacturing and supplying wide range of Wire Drawing Machine for Binding Wire. Offered product assortment is manufactured in complete compliance with international quality standards. Raw material used for the fabrication is of superior quality and is sourced from the certified vendors of the industry. These products are available in various specifications as per the requirements of our valuable clients.

**Specifications:**

- Heavy Duty Wire Drawing Machine Vertical Type
- Drum Dia 12" with Gear Type suitable to draw the wire up to 0.70 mm
- In combination of 7-9 Blocks
- Maximum speed 450-600 mtr / minute.

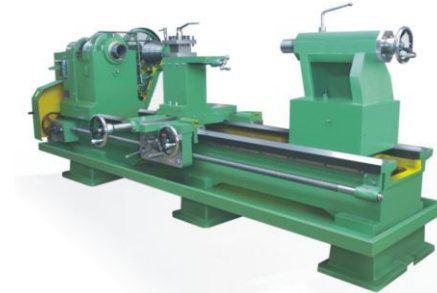


## Our Manufacturing Range

### LATHE MACHINES

Medium duty to extra heavy duty lathe machine manufacturer and exporter from India.

- Flame hardened bed ways, Hardened and profile ground head stock gears.
- Head stock spindle is made from high tensile steel duly hardened & ground & runs in precision taper roller bearings.
- Maintained contact starting shaft
- Meticulous care is taken in selecting the right raw material for every component. Each & every component is passed through strict quality control & the machine is put to rigorous tests confirming to IS : 1878 (Part I) 1971 before dispatch from our ultra modern plant having sophisticated mother machinery.



### MILLING MACHINES

Salient Features :

- X,Y,Z axes guide ways are hardened and precision ground. Y,Z axes are extra-wide rectangle guide ways.
- X,Y,Z axes can be manual feed and convergent power feed.
- Spindle sleeve micro-feed:70mm.



### SHAPER MACHINES

Salient Features :

- The base of Shaper machine is well ribbed to provide stability, which can be fitted on the foundation bolts. The column of Shaper machine is of heavy box section and has substantial internal webs. Wide front and ram slides accurately scrapped ensuring rigidity and alignment when the full power of machine is utilized.
- The ram of Shaper Machine is of heavy cross section to resist cutting stresses. Alignment of Shaper Machines preserved by well proportion Vee type bearings adequate means of lubrication are provided and flat wipers are fitted to protect the slides.



**RADIAL DRILL**



**HYDRAULIC SURFACE GRINDER**



**CYLINDRICAL GRINDER**

## INDUSTRIAL MACHINERIES

## Distribution Network

Saraswati Castings also act as one of the biggest exporter of Industrial Rolls, Rolling Mill Plants & Allied Machinery & EOT Cranes in domestic as well as overseas market. Our products provide flawless performance which is cost effective as well as reliable. The company is observing & maintaining international standards of quality with regard to all aspects of manufacturing & packaging. In India we have more than 350 satisfied customers / distributors.



**In Domestic Market:** Andhra Pradesh, Assam, Chhattisgarh, Gujrat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Tamil Nadu, Uttra Khand, Uttar Pradesh, Bangal, Chandigarh, NCR, Etc.

**In Foreign Market:** Belgium, Denmark, Finland, France, Germany, Iran, Ireland, Italy, Kenya, Kuwait, Portugal, Qatar, Saudi Arabia, Sri Lanka, Bahrain, UK, UAE, USA, Etc.

*Give the Customers a  
Good Reason to Come Back*