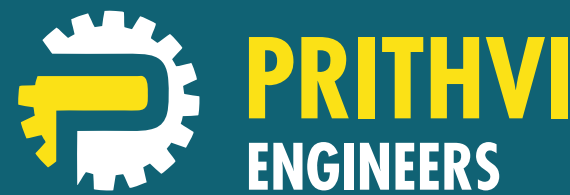


Improving Output And Quality Of Your Steel Products



**PRITHVI  
ENGINEERS**

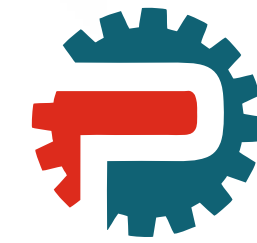
EXPERIENCE CAPABILITY TRUST

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**PRITHVI  
ENGINEERS**

EXPERIENCE CAPABILITY TRUST

“ Committed to **EXCELLENCE**  
in **QUALITY** ”



**BEST  
PERFORMANCE  
in TOUGH  
APPLICATIONS**



**WE ARE LEADING  
MANUFACTURER & EXPORTER OF:  
COMPLETE ROLLING MILL PLANT & ITS ALLIED MACHINERIES**



**PRITHVI ENGINEERS is the Single Source for all your Steel Making Needs**

### Company Brief

Over the years PRITHVI ENGINEERS has developed extensive experience and expertise in heavy machine building & fabrication. We are known for providing tailor made solutions for Steel Rolling Mills used in production of TMT Bars, Long profiles and sections. Our endeavour is to provide our customers with premier life-cycle products, solutions and services at the most competitive prices.

We focus on new technologies and innovation to drive business in India and internationally. Our engineers work in tandem with the clients to understand their application requirements and provide them best solutions. They relate all their efforts to reach maximum feasibility by selecting proper equipments and incorporating the machines in the actual working conditions to obtain best functioning of the plant. This achieved through latest designing softwares, hi-tech manufacturing and material handling equipment.

### Quality Assurance

- A Quality Assurance Process Sheet has been implemented for every stage of the product, right from procurement to the packaging and dispatch.
- A constant effort is made to enhance the quality practices in our organization. A complete in-house developed ERP system is in place for thorough cross checking and validation of the process.
- There is a dedicated PROCESS TEAM in addition to the Quality Assurance Team for continuous improvement.
- Our quality assurance teams constantly work's to enhance the existing quality of products and services by optimizing the existing production processes and introducing new processes.

### Our Infrastructure

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. **We are fully equipped with modern infrastructure and in house testing facilities:- Manufacturing unit, Quality testing unit, Research and development unit, Warehouse and packaging unit.**

Prithvi Engineers **TMT Bar Rolling Mill & Wire Rolling Mill** Capacity: 3,00,000 - 10, 00,000 T/Year with multi-strand rolling technology. Prithvi Engineers propose continuous rolling mill including all the latest technological features. Composed of Housing-less stands in horizontal and vertical arrangement for producing rebars & wire rods. Latest technology is applied to achieve high hourly production also for small size rebars. Equipped with Water Quenching System, the mill is designed to produce TMT bars according to all international standards.



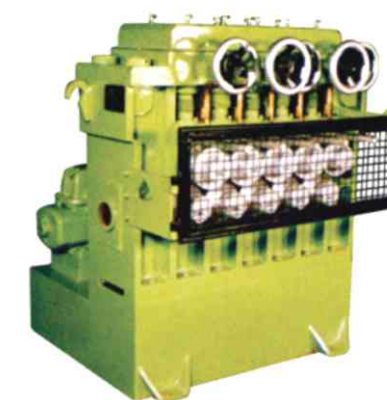
## Rolling Mill Machineries

## OUR MANUFACTURING RANGE

### 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.



### ROLLING MILL PULLEY

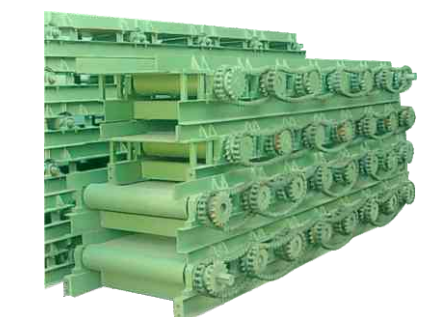
We are involved in manufacturing and supplying a wide range of Rolling Mill Pulleys. Made by implementing latest technologies, these Pulleys are robust and dimensionally accurate. Easy grip and tough body of these Pulleys make these ideal to use in various heavy industries. Our products come in standard 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.



### 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.



## Rolling Mill Machineries

## OUR MANUFACTURING RANGE

### 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

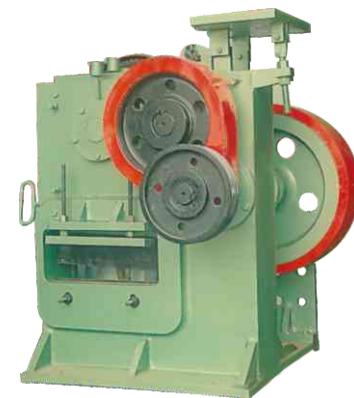
Overhead cranes or EOT Cranes are also called bridge cranes, are cranes with a hoist traveling along the bridge between parallel runways. They are designed to meet the medium to heavy industrial lifting requirements, covering all parts of manufacturing process. We offers a widest & most sophisticated 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.



### COLD 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.



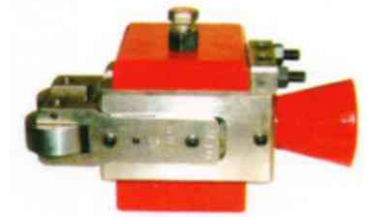
## Rolling Mill Machineries

## OUR MANUFACTURING RANGE

### 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.

(Roller Guide Box, Vertical Loopers & Horizontal Loopers for tension free Rolling, Roller Twister Guides and Twister Delivery Pipes) these are some of accessories we provide to our customers as per request.

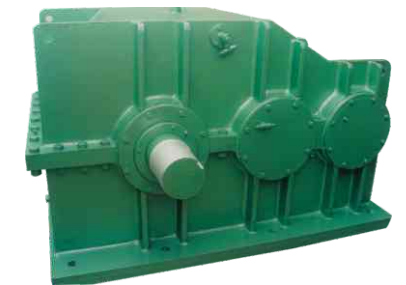


LOOPERS

### 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.

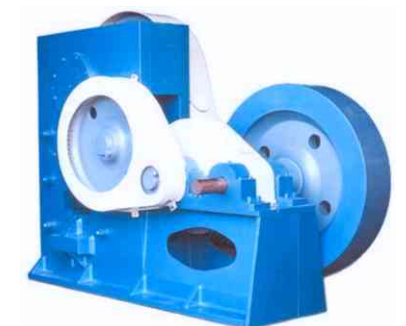


### BILLET SHEARING MACHINE

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.



## Rolling Mill Machineries

## OUR MANUFACTURING RANGE

### 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.



## Rolling Mill Machineries

## 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



### CHAIN TRANSFER SYSTEMS

Our company designs supreme quality Chain Transfer Systems, which are installed at the side of run out roller table after the cold shear. In this, the first chain set cuts across the run out roller table after the cold shear. It has its resting on the common tie bar, which is fixed with the pneumatic cylinders. The cut bar lot in the system received on the run-out roller table, where the chains set lifts. Here, the chain moves across the rolling line & shifts the cut bar lot to the set distance of the chain transfers. Further, the middle chain runs at superior speed to spread bar for removing the random length and the third chain for manual bundling. Therefore, in last the bundle is thrown in the cradle or on to some other roller table where transferring it to U- bending station is done.



### FLYING SHEAR MACHINE

Prithvi Engineers is a specialize Manufacturer, Exporter & Supplier of Flying Shearing Machine. The machine is primarily used in Hot Rolling Mill after TMT. It is exclusively known for cutting/shearing the heavy metal bars. Our Flying Shearing Machine is used to cut the material of various sizes, in different lengths of Shearing Machines with flying arm effects. It is installed after the shearing machines and before the cooling bed.

LOCATION: The Flying is Shear placed between the Quenching Box and the Cooling Bed.

APPLICATIONS: To cut the T.M.T. Bar at a temperature of 500oC and above to the required lengths.



### CONTINUOUS SHEAR

Continuous Shear is installed after Cantilever Pinch Roll in TMT Bar Mill. It is installed in High Speed Mills preferable of more than 15 meter / second. It can shear from 8-12 mm of TMT Bar through Servo Drive / Pneumatic Cylinder.

RANGE: 8mm to 16mm TMT bar. Single Shear is sufficient for ingot rolling mills.

APPLICATION: To cut set lenth of TMT bar being rolled above 20m/s at a temperature of 550 deg C.



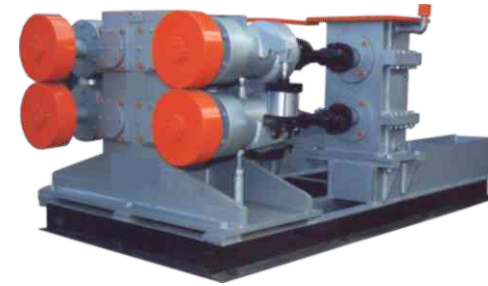
## Rolling Mill Machineries

## OUR MANUFACTURING RANGE

### TAIL BREAKERS

It is installed after the flying shear and before the cooling bed to reduce the velocity of the TMT Bars. It runs through DC or AC variable Drives. The Rolls are Separated Through Pneumatic cylinder.

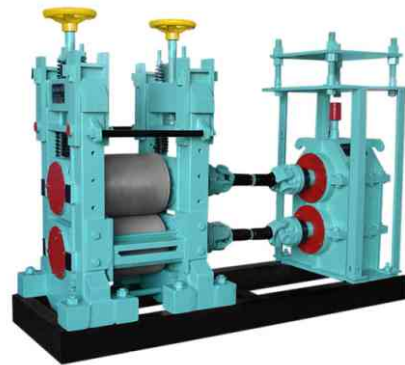
It consists of steel fabricated body, Pneumatic cylinder, top and bottom rocker arms and rollers.



### 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.



### BAR BUNDLING MACHINE

Our products would give you the perfect feel and thus, you also can get better ROI. The company is quite experienced and has expertise in this field. We have a quality policy and we do abide by the same. We know that what our clients want and based on that we design the entire project work for you. We manufacture on a large scale so it is perfectly fine if you can give us bigger orders. Just select us and we have very big space and enterprise where we would execute your projects. We are leading Bar Bundling Machine Exporters.



### BAR BENDING MACHINE

At Prithvi Engineers, with over 20 years of manufacturing experience, our expertise, reputation, product quality and service have gained excellent feedback and a long term partnership, these positive evaluations allow us to boost our technology to satisfy all customers need. You can be assured that our products provide unequalled performance with high stability and durability while reducing operating costs and boosting output.

Our development staffs offer a variety of Bending Machine with international quality standards, which have durable with high quality functions to suit competition in the industry. Our goal is produce the excellent machinery with the best design and components to our clients.



## Rolling Mill Machineries

## OUR MANUFACTURING RANGE

### TMT QUENCHING SYSTEM

Our company is engaged in developing prime range of TMT Quenching Boxes that provides multiple entry of fresh water at regular time duration into the nozzles. This is equi-spaced along the cooling length at specified pressure and volume for the controlled thickness, which enhances the efficiency of the processing. The offered TMT system in our quenching box is of multiple injector type.

#### APPLICATIONS:

- Engineering industry
- Metal industry
- Rolling mill industry



### BAR TYING MACHINE

Prithvi Engineers has a complete range of packaging & binding lines able to satisfy any requirement for this task. We are able to supply bundling and stacking systems for bar & rod Steel rolling mill Plants. We manufacture and supply Automatic Bar Binding Machines for hot steel rolling mill plants for automated tying and packing of finish steel products.

The machine utilizes 5.5 mm wire, which is tightly formed around the bundles and securely tied.

THE PACKING FORM CAN BE IN FORM OF: Round, Square, Rectangular, Hexagonal, Etc.



### PUSHER

A charging pusher is an Electro-Mechanical or Hydraulic device which is used for feeding or charging of raw material ( Like ingots, billets etc ) into the reheating furnace.

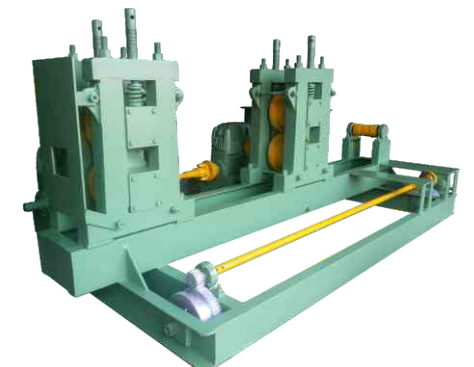
Various components which are used in the manufacturing of a Charging pusher are: Heavy steel slab frame, pushing screw with pushing slab, multi stage type reduction gear box or a hydraulic power pack with alloy steel shafts in case of a hydraulic pusher.



### EJECTOR

Discharging Ejector is an Electro-mechanical device which is used to expel the hot material from the re-heating furnace to the Rolling Mill. It has a Mill Housing Type structure with a movable frame and can do both front and side travel for discharging of Hot Material ( Like ingots, Billets ) from re-heating furnace.

It comes complete with heavy stands, rollers, cooling system, wheels for cross travel, gears box and pushing arrangements etc., it uses a square billet of approx. 6 meter ( or more ) length as the device to push the hot material out of the re-heating furnace.



## Rolling Mill Machineries

### WORM GEAR BOX

We manufacture a wide assortment of premium quality Worm Gear Boxes. These gear boxes are manufactured utilizing high-grade raw materials and latest technology and cutting-edge tools as per the international quality standards. The offered range of Worm Gear Boxes is high in demand due to its reliable performance, compact design, and low maintenance. Clients can avail these gearboxes in varied specifications as per their requirements at very reasonable rates. The specifications of the gear units are as follows:

- Worm gear boxes range from Center Distance of 25 mm to 150 mm
- Ratios up to 70:1 or customized as per requirements
- One or two output shafts



### HYDRAULIC POWER PACK

In order to meet the huge market demands, we are pioneer in offering a wide assortment of Hydraulic Power Pack. This Hydraulic Power Pack is known for its high efficiency. The offered products are available in various specifications. Hydraulic Power Pack is extensively used to provide hydraulic power via oil flow and pressure and in industrial hydraulic systems. Our products are known for their high performance.

Features:  
Sturdy, High performance, Low maintenance



### OIL LUBRICATION SYSTEM

Oil Lubrication Systems are complete, self-contained systems designed for smaller applications such as stamping presses, punch presses and crushers. Each unit is locally assembled and tested for flow, pressure, sound levels and proper operation. Standard units usually include: electric motor and pump, oil filters, level indicators, flow meters, pressure gauge and steel oil reservoir.



### 2 HI PINION GEARBOX

Keeping in mind the ever-evolving requirements of our precious clients, we are offering an exclusive range of 2 HI Pinion Gearboxes. The provided pinion boxes are precisely manufactured by our highly qualified professionals using the best grade raw material and advanced technology. These pinion boxes are highly demanded among our clients for their robustness and perfect strength. Moreover, clients can avail these pinion boxes from us at most reasonable prices.

Features: Optimum strength, Sturdy construction, Corrosion-free.



## OUR MANUFACTURING RANGE

## END PRODUCT OF STEEL ROLLING MACHINES

### 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.

