



*Manufacturer & Exporter Of*

- ★ Hot Steel Rolling Mill Plants
- ★ Rolling Mill Machinery & Parts

**M.K. ENGINEERING**  
solutions

An ISO 9001 : 2015 Certified Co.

we believe  
& SUPPORT

MAKE IN INDIA



[www.mkrollingmachinery.com](http://www.mkrollingmachinery.com)



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We "M.K. Engineering Solutions" are a Sole Proprietorship firm that is an affluent manufacturer of a wide array of Bearing Chock, Cardan Shaft, Shearing Machine, Cooling Bed, etc. We provide these products as per the latest market trends and deliver these at client's premises within the scheduled time frame.

We have also selected a team of devoted and capable professionals who helped us to run the operation in a systematic and planned manner. Under the supervision of our mentor, "Er. Mandeep Singh (Owner), who has hold experience of more than 15 Years, we have gained huge success in this field.

*"commissioning with confidence"*

It is not just a Tag-line, it's **Soul Of Our Business**

We have tried our best to serve our customers with a quality product delivered in a timely manner. We strive to build a good customer relationship with honesty and integrity which is reflected in our business.

Due to the continuous faith of our customers, our business has improved many folds over the past few years. We continuously strive to better serve our customers and search for new avenues and methods to do the same. We value our customer feedback and have been able to enjoy the continuous patronage of our esteem customers through regular improvement of our services.







# PROFILE OUR COMPANY

## GLOBAL ROLLING MILL supplier

### PRODUCT RANGE

we are engaged in the manufacturing and exporting of Hot & Cold Steel Rolling Mill Plant, Machinery & Accessories. To ensure quality, we use qualitative raw material and comply with the international standards of the industry. Our precision engineered range is used for numerous applications in steel rolling mill plants. Our range of precision engineered products consists of industrial flywheels, gear couplings, stainless steel rolls, roller guide boxes, twisted pipes, pinch rolls, gear boxes, mill stands, shearing machines, rotary shearing machines and reheating furnish equipment.

### QUALITY SYSTEM

As per ISO 9001:2015 standards we maintain high quality of our products by adopting its QMS system. We procure raw material and other components as per the specified standards to leave no room for flaws. Our machines possess superior standards of quality for ultimate performance in Steel Industries.

### INNOVATION

Our Innovative design, development and inspection have enabled us to contribute considerably in metal forming sector. We always try to learn from our customers, market and suppliers and adopt better techniques to improve our work process. To innovate better machineries for steel industry is our prime objective.

### VALUE TO CUSTOMERS

We not only manufacture rolling mill machineries but we are dedicated to deliver value to our clients. Just to satisfy a customer's need is not our goal, we give our best to deliver customers with an overwhelming experience whenever he uses our machineries.



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## ERECTION & COMMISSIONING HOT ROLLING MILL

Our technical team is expert in taking the customer by hand and accompanying him through all the steps to get to a full operating hot rolling mills. A comprehensive range of services are available for finished Products like :

- **Round Bar**
- **TMT Bar / Rebar**
- **Wire Rod**
- **Light, Medium and Heavy Sections**

### SALIENT FEATURES

- Process design and roll pass design for hot rolling mill plants
- Designing rolling mill plant layout
- Technical solution development
- Executive Design and Drawing
- Installation, Erection & Commissioning
- Training & assistance to Production
- After sale Service & Maintenance
- Original Spare Parts



## HIGH QUALITY ROLLING MILL STANDS

MK Engineering Solutions manufactures & exporters of Rolling Mill Stands of all types, to cater to long products as well as flat products. We provide conventional stands in both fibre bearing as well as anti-friction bearing. All stands supplied by us are cost effective.

We offers various type of mill stands mentioned below :

- 3-Hi Stands and 2-Hi Stands
- Mill Stand with Fibre bearing and Anti-friction Bearing
- Vertical & Horizontal Mill Stands
- Housing Less Mill Stands





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## HIGH QUALITY GEAR & GEAR BOXES

We are known for supply of All sizes of Single & Double Helical Gears, Reduction gear boxes to Our Valuable Clients  
Range of gear and gear boxes are as bellow :

Round Bar

- Single and double Helical Gears
- Reduction Gearbox
- 2-Hi & 3-Hi Pinion Gearbox
- Reduction Cum Pinion Gearbox
- Speed Increaser



## HEAVY FLYWHEEL & FLYWHEEL ASSEMBLY

Our clients can avail from us, the fabrication and turnkey services for Pulley, flywheel & flywheel assembly that are dynamically balanced and ultra sound tested to assure that these are free from any cracks. Our products are turned to zero eccentricity as these are fitted with forged flywheel shafts, heavy duty plumber blocks and spherical roller bearings.

### SPECIFICATIONS:

- Dynamically Balanced Fly Wheels.
- Ultra Sound Testing for Crack Detection.
- Forged Fly Wheel Shafts En8 Class IV.
- Heavy Duty Plumber Blocks.
- Spherical Roller Bearings.
- Speed 60 R.P.M. to 700 R.P.M.
- Suitable for 100 H.P. to 2000 H.P.





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HIGH QUALITY  
SHEARING MACHINES

**SALIENT FEATURES**

- Crank, Gears & Pinion : EN - Series Forged steel
- Bearings : Imported anti - friction roller bearing
- Billet Shear Used For : Billet-cutting up to 200x 200 mm {Specialty -Round - Cutting of up to 225 mm}
- Cobble Shear : 400 mm CRS up to 1000 mm CRS with dual mode
- TMT Shear Used For: TMT– cutting up to 40 mm
- Flying Shear : Available In 600 CRS To 1200MM CRS



Hydraulic Cold Shear Machine



Rotary Shear



Crop & Cobble Shear



Flying Shear



Billet Shearing Machine





## AUTOMATIC COOLING BED AND TWIN CHANNEL

### COOLING BED'S SALIENT FEATURES :

- We hold expertise in providing rack type automatic cooling beds from 9.5mtr up to 66mtr
- These can also be developed as per customers requirement
- The use of cooling bed of rack design is for providing uniform air-cooling to TMT bars
- It also helps in transporting in phased manner from entry of cooling bed to the discharge side
- Front end of bars leveled at discharge side with fixed number of bars provided for final length cutting through cold shear as well as bundling process
- Superior working mechanism of the bed ensures bars are positioned uniformly over toothed racks
- Cooling bed designed keeping in consideration smallest and maximum size of bars that need to be rolled from finishing mill stand as well as cooling time needed for different sizes of bars



### TWIN CHANNEL'S SALIENT FEATURES:

The Twin-Channel bar receiving mechanism comprise of the Following :

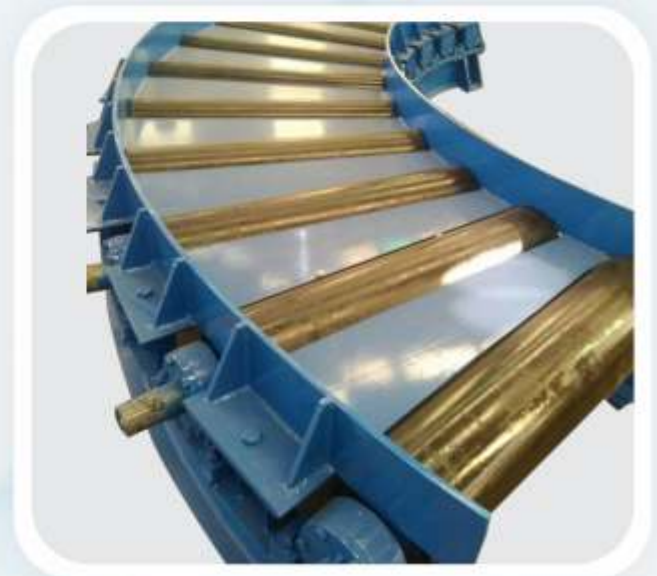
- Twin water-cooled C-type channels with water cooling arrangement
- Supporting arrangement for the twin-channel and drive system
- Cam device for opening closing of the pipes
- Hydraulic drive for operation of the cams
- Prevention from warping
- Highest level of safety since it is a closed channel for transferring bars
- It can be attached to braking pinch rolls

## HIGH QUALITY ROLLER CONVEYORS

We are catering to the vast requirement of different types of roller conveyors or roller conveyor systems like **industrial roller conveyor systems, automatic roller conveyor systems, gravity roller conveyors, powered roller conveyors, chain roller conveyors**, etc. for different industries.

### SALIENT FEATURES

- Chain Driven
- V-Belt / Pulley Drive
- Quality bearings
- Seamless pipe with tested shafts
- Quality Bearings for smooth running



## WIRE STRAIGHTENING MACHINE

### TECHNICAL SPECIFICATIONS AND FEATURES

- It comprises two straightening disks; one mounted on a straightening shaft and other against the flanges of the beams.
- These straightening disks are backed by a support ring of larger size.
- There are hydraulic cylinders, which aligned with the axially displaceable discs via adjusting pistons.
- Pre-hardened rolled beams are fed into the machine, which are used for straightening any rolled, drawn or extruded metals.
- Our Straightening machines are also equipped with all safety standards.
- These are easily operable, Highly durable and Cost effective.
- These are made to deliver highest output with highest efficiency.



## FURNACE EJECTOR AND FURNACE PUSHER

Manufacturing & Exporting the best quality of Furnace Pusher and Furnace Ejector. These machines are designed and fabricated at our state-of-the-art facility using high-grade metal components that we procure from trusted vendors only.

### SALIENT FEATURES

#### FURNACE EJECTOR :

- Highly reliable operation
- Able to withstand harsh weather conditions
- Needs little or no maintenance

#### FURNACE PUSHER :

- High-temperature uniformity
- Excellent resistance to corrosion
- Fully automatic operation







## HIGH QUALITY PINCH ROLL

### TECHNICAL SPECIFICATIONS

<b>Material</b>	: M.S. Prime Plate, Graded Cast Iron
<b>Base</b>	: Mild Steel Prime Plate Fabricated
<b>Size</b>	: 205 mm to 360 mm (as per requirement of mill)
<b>Barrel Length</b>	: As Suitable to the Pinch Roll.
<b>Chocks</b>	: Steel Chocks fitted in Pinch Roll for Spherical Roller Bearing
<b>Bearing</b>	: Imported Spherical Roller Bearing
<b>Shaft</b>	: Jointing with Carbon Shaft
<b>Gear Box</b>	: Includes Forged Steel Single Helical Gears with all accessories



## HIGH QUALITY TAIL BREAKER

### SALIENT FEATURES

- Cantilever and pneumatic type Pinch Roll & Tail Breaker up to 360 MM CRS
- Top roll raised pneumatically or lowered with bottom roll in adjustable finish
- Pinch roll housing comprising sturdy welded construction
- Pinch rolls feature wear resistant surface with anti friction bearing mounting support.
- Spindle provided for meeting the needs of adjustment of bottom pinch rolls
- Pinch rolls featuring use of sensors that allows precision breaking up to speed of hot flowing material



## TMT / BAR TYING MACHINE

### TECHNICAL SPECIFICATIONS AND FEATURES:

- Frame on base plate with 4 guiding wheels
- Binding unit with feeding and twisting unit and wire guide track.
- Hydraulic unit with pump and electric motor.
- Control console with control panel and programmable controller (PLC)
- Wire magazine for the binding wire



## TMT BOX / QUENCHING SYSTEM

We are engaged in offering supreme quality Quenching System / TMT Box that is widely installed in rolling mills and metal industry. The system is initially set by fitting the opening of the nozzles and position of the motorized valve.

- Our quenching boxes comprise of the Following Features
- Consistent ring formation
- Uniformity of the tensile strength along the length of the bar
- Motorized valves
- Corrosion free
- Less time consuming
- Supreme design
- Robust construction
- Closed frame to accommodate the forces in the sizing press
- Can operated under harsh conditions



## HIGH QUALITY GEAR COUPLINGS

### SALIENT FEATURES AND TECHNICAL SPECIFICATIONS :

- The hubs are completely machined from EN-8/EN-9 material forged, annealed and heat treated from 235-265 BHN
- The Casings are made out of EN-8/EN-9 forgings material up to 107 and Cast IS-1030 Gr 23/45, heat treated from 235-265 BHN above 107
- The teeth cutting are done maintaining D.O.P /SPAN for required sliding tolerances. All parts are completely inter-changeable
- Range of Gear Couplings up to 119 Nos
- The Gear Couplings up to 110 are always in our ready stock
- Available In Various Configurations
- Excellent Inherent Balance
- Piloted Gear Ideal For Higher Speed And Less Vibration
- Piloted Gear Ideal For Higher Speed And Less Vibration
- Our Gear Coupling are Heavy duty, High speed, High torque capacity, Light in weight and cost effective.



## HIGH QUALITY ROLLER GUIDE BOX

### SALIENT FEATURES:

**The Twin-Channel bar receiving mechanism comprise of the Following :**

- Twin water-cooled C-type channels with water cooling arrangement
- Supporting arrangement for the twin-channel and drive system
- Cam device for opening closing of the pipes
- Hydraulic drive for operation of the cams
- Prevention from warping
- Highest level of safety since it is a closed channel for transferring bars
- It can be attached to braking pinch rolls







## TMT BAR BUNDLE BENDING MACHINE

We are making, supplying and exporting high quality TMT Bar Bundle Bending Machines in Mandi Gobindgarh, Punjab, India. It is applied in wire rod Steel plants to fold a bundle of TMT Bars & Steel bars. The Bar Bundling Machines provided by our company are technologically advanced and are highly built. The Bar Bundling Machines are accessible in various capacities based to customer requirements. The Bar Bundling Machines are offered in various types.

### TYPES OF BAR BUNDLE BENDING MACHINE

- Semi automatic
- Fully automatic



## STEEL ROLLING MILL MACHINERY PARTS & ACCESSORIES

Apart from the above product list We have a wide range of steel rolling mill machinery spares and accessories , which are listed bellow.....

- Cardan Shafts
- Universal Coupling
- Bearing Choke
- Spindles
- Foundation Rail
- Chain Sprocket etc.



BEARING CHOKES



CARDAN SHAFTS



UNIVERSAL COUPLING



SPINDLES



## M.K. ENGINEERING SOLUTIONS

(An ISO 9001 : 2015 Certified Co.)

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