

**P P ROLLING MILLS
MFG CO PVT LTD**

INDIAN ENTERPRISE GLOBAL STANDARDS





FOUNDER

MR PREM KHANNA

PP Rolling Mills Mfg Co Pvt Limited (PPRM) is a professionally managed company, which started as a small family run business. This was set up by Shri Prem Prakash Khanna, the youngest son of the Shri Dharam Chand Khanna. PPRM is a tribute to the vision and enterprise of his father, who set up a small factory to manufacture hand presses in 1952.



For the past seven decades, PPRM has been dedicated in providing comprehensive project solutions to the hot rolling mill and tube mill industry in India and abroad. Our services encompass design, manufacturing and mill commissioning - all aimed at maximizing value for our customers.

Through the years, we have diligently navigated the global economy and successfully restructured our business, all the while prioritizing the preservation of our company's culture and guiding principles. Our commitment to being the customers' first choice is deeply ingrained in our vision.

Ethics and integrity are non-negotiable for us. We firmly believe in upholding these principles without compromise or excuse.

We take pride in our ability to offer innovative solutions, value-added products, and services that have consistently proven to enhance our customers' productivity. As we forge ahead, our unwavering resolve to pursue continuous improvement pervades every aspect of our operations, driving us to exceed expectations and set new benchmarks of distinction.

PANKAJ KHANNA

Managing Director



PPRM has the most modern manufacturing facilities - equipped with the latest and most accurate CNC machines. This coupled with the most modern testing facilities and stringent quality control processes, helps us deliver reliability to our customers through our products and services.

Our core values have allowed us to perform at World Class Standards. We strive to maintain this commitment towards our employees and business partners - Care, Customer first, Innovation and change, Execution, Collaboration and Excellence - these values have defined PPRM since the founding of the Company.

Our commitment to these ideals must be unwavering. Our vision is to deliver a complete experience to our customers.

We will continue to adopt excellence in all spheres - from designing to commissioning plants, that meet or exceed our customers expectations.

PRANEET KHANNA

Director Operations

DIRECTORS' MESSAGE

KEY MILESTONES AND HISTORY

1952

Prem Eng Works was founded to manufacture manual hand presses

1962

Mr. Prem Khanna joined Prem Engg with a focus to develop special gears as import substitutes for sugar mills, turbines and cement plants

1976

Under the leadership of Mr. Prem Khanna, Prem Eng Works started making gear boxes for Rolling Mills

1985

Mr. Prem Khanna incorporates PPRM with a focus to manufacture gear boxes and Rolling Mill equipment

1990

Mr. Pankaj Khanna (Managing Director) joined PPRM and started the journey towards supply of complete turnkey projects for long products

2005

Mr. Praneet Khanna, Director (Operations) joined with focus on New Technologies, Operational Excellence and implementation of World Class Systems

2013

PPRM signed agreement with Kobe Steel to provide Pouring Reel Solution (Garret Coiler Lines)

2014

PPRM signed agreement with Kobe Steel to provide solution for Rolling mill to produce 500,000 TPA of rebars

2015

PPTM was founded with a vision to provide World Class ERW Tube Mills and Rolls for Tube Mills and Open & Welded Sections

2016

PPTM entered into a technical collaboration with SEUTHE GmbH, Germany for sale and manufacture of Classic Tube & Profile Mills under the Brand Name of MAS TUBE MILLS

2016

PPRM Signed a license agreement with Kobe Steel to provide 140 m/s high speed block mill for wire rods and heavy duty block mill for producing TMT bars

2020 - 2023

PPRM introduces high speed Tube Mill with Cold Saw for operating at 150mpm.

PPRM produces dia 8mm at 27mps to 32mps at 9 projects, Super Smelters, Shree Steels,

Maithan Steel & Power, Rungta Chaibasa, Rungta Kamanda, SRMB, Amman - Try Steel, Shyam Steels, Rungta Dhenkanal.

- Large Diameter & API Tube Plant collaboration with VAVIT.
- High capacity Multi - Slit Rolling Mill.
- Rolling Mill with dia 8mm operating at 35mps



**MANTRA:
LET'S IMPLEMENT**



Mr. Praneet Khanna, Mr. Pankaj Khanna



VISION

Partner of choice in Manufacturing for the Global Steel Industry, providing innovative and reliable solutions leading to Customer Delight



OUR CORE VALUES

Drive Innovation &
Change as a way
of Life

Strive To Excel in
Everything We Do

Care for Employees
and Stakeholders

Customer at Centre
of What We Do

Razor Sharp Focus
on Execution

Collaborate for
Sustained Success



QUALITY POLICY

Meeting or exceeding customer expectations through continuous improvement.



OUR KEY PRODUCT AREAS

- Turnkey projects: Hot rolling mills for long products along with Steel Melt Shop (SMS)
- EPC project for complete Meltshop and Rolling Mill.
- Turnkey Projects: Tube Mills and Large Dia. Pipe Mill
- Tube Finishing Process Equipment
- Modernization of Rolling Mills and Tube Mills
- Tailor-made Gear Boxes for critical applications
- Rolls for Tube Mills, Open and Welded Sections
- EOT Cranes
- Narrow Hot Strip Mills
- Heavy Machine Building & Fabrication
- Pipe testing & handling equipment.





**RESEARCH AND
DEVELOPMENT**



TECHNICAL DEVELOPMENT

The best products originate from the best technology. We make every effort to create the most advanced technology to meet our customers' requirements.

We are a Recognized R&D House by Government of India.

OUR R&D INFRASTRUCTURE INCLUDES:

- A full fledged CAD based design section backed by professionals with decades of field experience
- 3D Modeling on the Solid Works and Solid Edge Platform
- Gear Design using KISSsoft gear design software
- COPRA Roll Form Software for open and Welded Sections Roll Designing
- SAP system that allows us to effectively manage organizational resources

We are continuing to invest in upgrading our designs to improve performance and reduce overall cost to customer. Our latest efforts include:

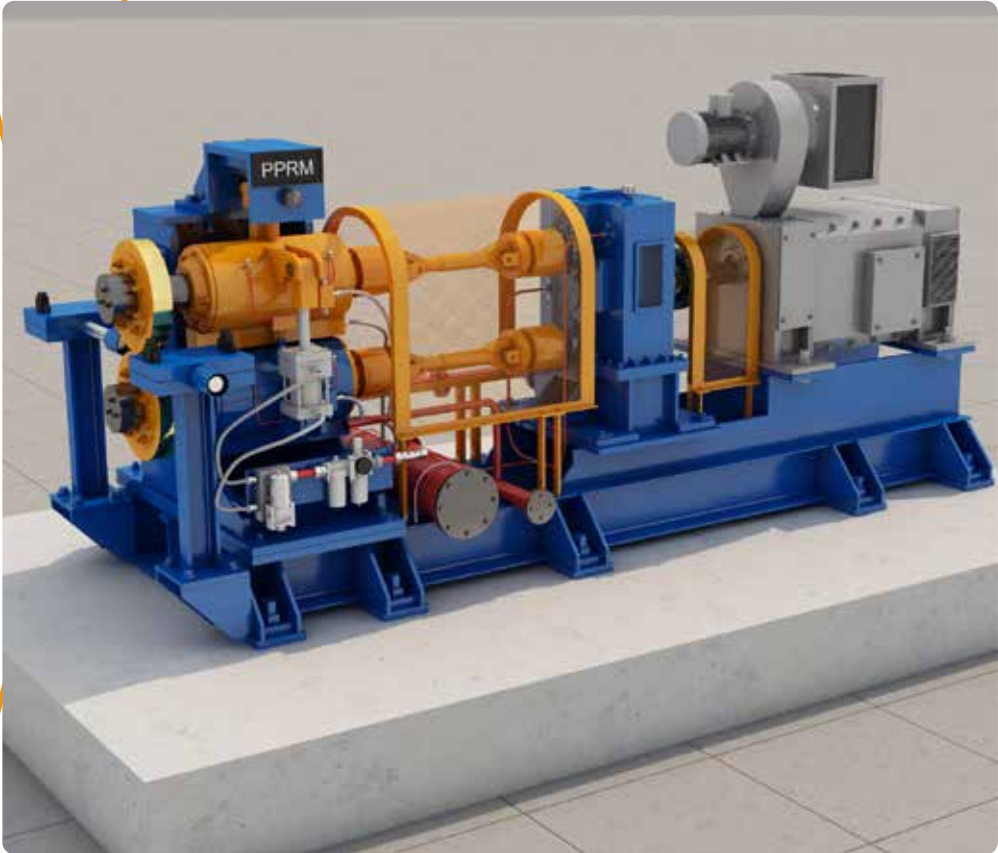
- Housingless mill and shears
- Cantilever stands
- Combination Shear to cut DIA 8mm - 40mm
- Bar counter with bar separation systems
- 6 mm to 16mm TMT in Coil Form
- Block mills for 100 m/s
- Heavy Duty Block Mills for TMT



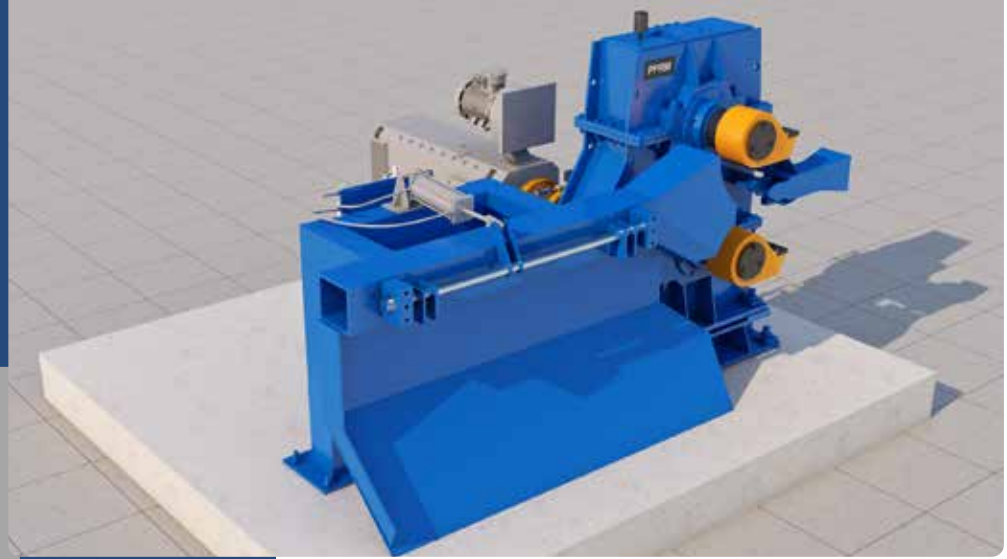
COLD SHEAR CLUTCH AND BRAKE TYPE



**HIGH SPEED BLOCK MILL
FOR BAR MILL**



HIGH SPEED PINCH ROLL



**ROUGHING MILL & INTERMEDIATE
MILL COMPLEX**



START STOP CROP & COBBLE SHEAR



TAIL BRAKE





**IMPLEMENTATION
OF KAIZEN**

PPRM: THE KAIZEN JOURNEY

Aim to become a Quality supplier with Aim to be both Competent and Lowest Delivery Period at the most Competitive Price.

ALREADY IMPLEMENTED AT PPRM

- Implementation of 6S
- Implementation of Autonomous Maintenance
- Implementation of Planned Maintenance
- OEE, MTBF, MTTR
- Concept of Flow and Pull, Value Stream and Throughput Time
- Implementation of supermarket for bought outs and raw materials-Kanban System = Development of SOPs for key business processes
- Development of workmen and staff skill matrix. Balance Score Card, Corporate Score Card
- SHE audit score



VISUAL MANAGEMENT

Four Principal Elements of Lean Daily Management:



Visual Controls
Transmission-
To Move Ahead



Daily Accountability
Process
Gas Pedal



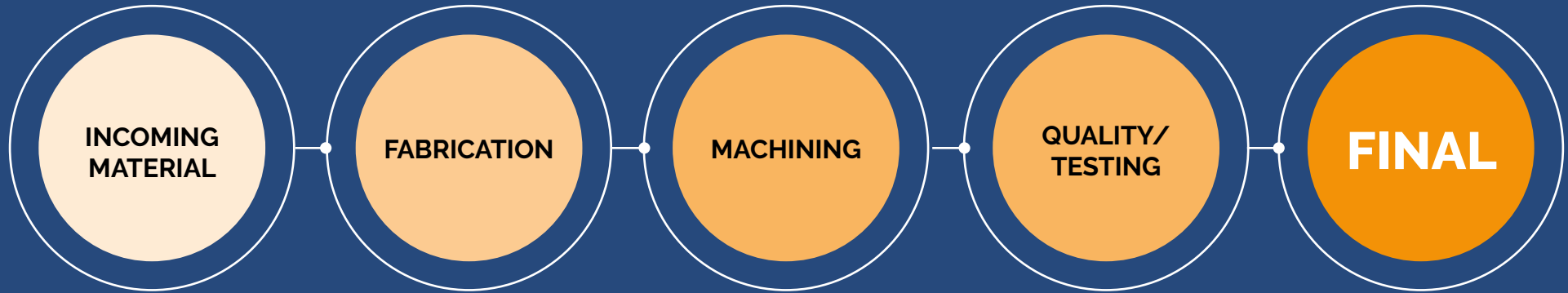
Leader Standard
Work & Check List
Steering Wheel



Leadership
Discipline
Fuel



QUALITY MANAGEMENT SYSTEM



We, the management, staff and employees of PPRM strive to continuously improve the effectiveness of our Quality Management System

We are committed to fulfill the needs of our customers with the highest degree of commitment to ensure total customer satisfaction



Continuous improvement and on time delivery



Right quality first time, every time

QUALITY CERTIFICATION

ISO 9001: 2015 (QMS)

ISO 14001: 2015 (EMS)

ISO 18001: 2018 (OHSAS)



INFRASTRUCTURE



**A 1000+ happy employees -
productive, flexible and resilient workplace**



We have 5 state of the art facilities, each with its own specialization to ensure the highest level of efficiency and product quality while, delivering optimal cost solutions to our customers.

Our facilities are spread across:

Machine Shop	2,20,000 Sq Ft
Paint Shop	11,000 Sq Ft
Assembly Area	1,80,000 Sq Ft
Heat Treatment Shop	15,000 Sq Ft
Gear Shop	30,000 Sq Ft
Fabrication	90,000 Sq Ft
Roll Shop	15,000 Sq Ft









Our modern machine shop consists of some of the best European made machines including:

- CNC Machining Centers
- CNC Horizontal and Vertical Borers
- Dynamic Balancing Machine
- CNC Gear Grinding Machines
- CNC Lathe and VMC's
- CNC Gear Testing Machines
- CNC Profile Cutting & Welding Machines
- CNC Plano Miller

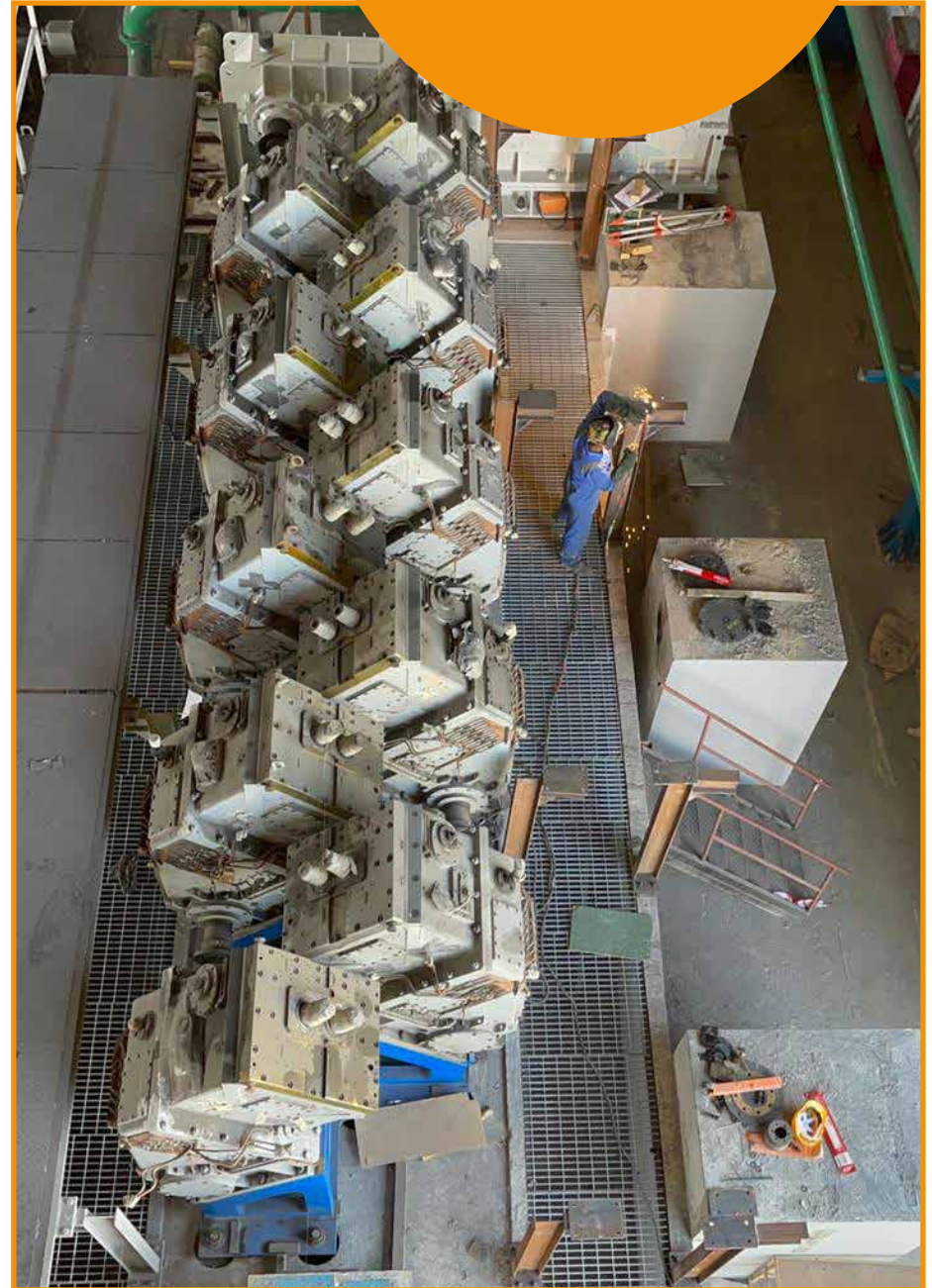


SITE SUPPORT SYSTEM

PPRM provides excellent site support system, both for turnkey contract and stand-alone EPC contracts.

FEATURES

- Site erection and commissioning through dedicated team
- Supervision services during erection and commissioning
- Training during pre and post commissioning stage
- Roll shop services
- Reconditioning of equipment's as per customer requirement





**TECHNOLOGY
PARTNER:
KOBE STEEL**



PPRM in collaboration with KOBE Steel, Japan provides Rolling Mills up to 1,000,000 TPA for long products. The first project supplied in KSA for 500,000 TPA to produce rebars and wire rods.



- Pouring Reel (Garret Line) of dia 50 mm forming a 2.5 ton coil
- High Speed Block mill up to 100 m/s for wire rod lines of dia 5,5mm to 16mm
- Low Speed Block mill up to 40 m/s for production of rebars of dia 8 to 20mm

The background features a series of concentric, thin, light blue circles that create a tunnel-like effect, drawing the eye towards the center. In the middle of this pattern is a solid, dark blue circle. Centered within this dark blue circle is the text.

**ROLLING MILLS
TURNKEY SOLUTIONS**



AMMAN-TRY STEEL



SHYAM STEEL



MADHAV UDYOG

We specialize in the supply of various equipments for high productivity mills:

- PPRM has been providing complete project solutions (Design, Manufacture & Mill Commissioning) for Bar, Rod and Section mills since 1985.
- Our team of highly qualified and experienced design engineers are instrumental in providing value added solutions for the Hot Rolling Mill industry
- PPRM has modern facilities with world class machines equipped from across the globe with the latest CNC and digital readout systems. This coupled with strict Quality Control procedures ensure quick and smooth implementation of projects

We specialize in the supply of various equipment for high productivity mills including:

- H-V Housingless and Cantilever Stands
- Block Mills
- Start-Stop and continuous operating shears
- Combination Shear
- High Speed Finishing Line Equipment such as Pinch Rolls, Tail Brakes & Rotary Drum
- Automatic Cooling Bed and Bar Handling Equipment
- Cold Shears up to 500T cutting force

**MELTSHOP
AND CASTER**



REHEATING FURNACE

These furnaces are designed and engineered for reheating billets, which are part of rolling mill turnkey projects

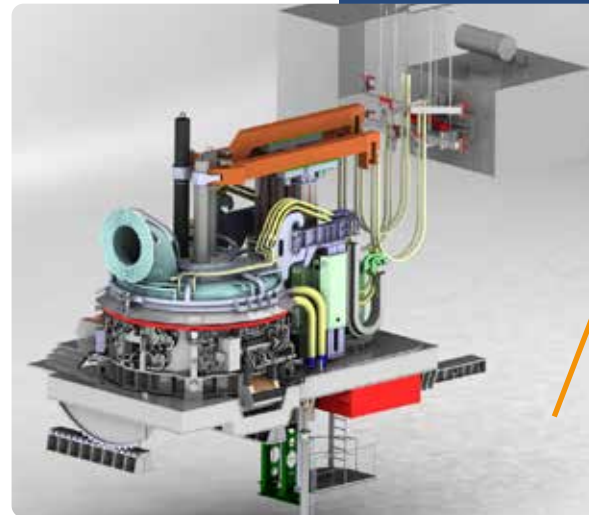


**INDUCTION
FURNACE**



**ELECTRIC ARC
FURNACE**

PPRM provides meltshop and caster as turnkey solution in co-operation with project partners



ROLLING MILLS: MILL STANDS

HOUSINGLESS MILL STANDS

High rigidity, reliability and quick roll change capabilities are the key features of these state of the art mill stands, which are designed for producing bars, wire rod, angles, flats, channels and universal beams. The connection and disconnection of the spindles and all the fluid utilities are fully automatic and therefore the stands can be interchanged very quickly. Different versions including horizontal, vertical & convertible (which converts a horizontal to a vertical) are in operation, allowing rapid adaptation to the variety of the rolled products needed to fulfill market demands. Line flexibility allows rolling with low-temperature, high-alloy & wide forming passes.

FEATURES

- High component rigidity
- A roll balance system, which eliminates backlash
- Reduced stress path
- Minimum wear and positive engagement due to self-balancing spindle support
- Fully automatic operation
- Axial roll adjustment
- Long bearing life
- Automatic screw-down system
- Automatic utility connections
- Possibility for adjustment under load
- High rigidity with housingless design





SHIFTABLE REVERSING MILL STANDS

Modern 2-hi shiftable stands are fully automated. They represent an innovative solution for roughing and intermediate mills and constitute the latest stage of 3-high stand evolution.

FEATURES

- A fixed rolling line with shiftable stands to match the exact groove according to pass design reduced roller table width
- Automatic roll gap adjustment
- Simple foundations
- Advanced billet manipulation system
- Reduced bite angle due to adjustable entry speed

CANTILEVER STAND

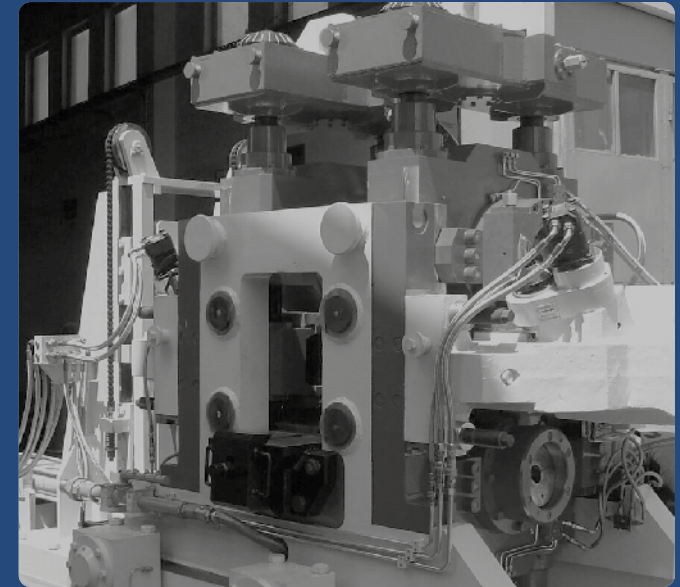


UNIVERSAL STANDS

These stands are used in rolling structural shapes. In addition to the horizontal rolls, the stands are fitted with a set of idler rolls to work the flanges.

FEATURES

- Fast stand and roll change
- Hydraulic vertical and horizontal roll adjustment
- Modular design to reduce crane requirement



HV TWIN BLOCK MILL

FEATURES

- Quick Roll Gap Adjustment
- Long Groove Life
- Fast Stand and Roll Change

4 HI MILL STAND

FEATURES

- 4 Hi Stand suitable for Flat Rolling application to take high reduction loads.
- Quick roll changing feature.
- Large backup rolls reduce roll deflection in working rolls.
- The extremely Robust Stand design reduces roll jumping and there is better uniformity in material thickness.
- Air oil lubrication provision for backup roll & work roll bearings.
- Hydraulic screw down provided for quicker reaction to control thickness tolerance



GEAR BOXES

In order to meet the enhanced reliability and delivery requirements of the growing industrial applications we have gone for a major expansion and increase in house capacity. We have the required expertise in to manufacture precision gearboxes and have among the best facilities for the entire process. Our team of engineers, metallurgists, modern manufacturing and testing facilities allow us to provide reliability meant for heavy duty and critical applications.

Our passion for manufacturing excellence and commitment to world class quality and on-time delivery is clearly reflected in our state of art the manufacturing facilities which includes:

- G & E, Liebherr and Pfauter gear hobbing machines
- CNC HOFLER gear grinding machine up to 1500 mm and 40 modules
- CNC SCHARMAAN Horizontal Boring machines
- CNC MAAG gear profile testers
- The best names in OD, ID and surface grinding
- Stress relieving and shot blasting
- KISSsoft based gears design
- Schenk Dynamics Balancing Machine
- Sealed Quenched Furnace with Sub Zero Facility
- Hand Held Digital Vibration Meter
- Mitutoyo Model SJ-301 Portable Surface Roughness Measurement SurfTest



APPLICATIONS

We provide a variety of solutions for:

- High Speed Gear Boxes tested up to 10,000 rpm
- Steel rolling mills
- Cement Industry
- Sponge iron plants
- Sugar mills
- Paper industry
- Agriculture
- Other diversified industries
- Gear Box with reduction in Vertical Axis
- Gear Box for Vertical Mills



QUALITY PARAMETERS

The range of our gear boxes covers the following:

- Gears of DIN-2/3 quality
- No load contact of 80% (min)
- 5 years gear breakage guarantee



QUENCHING SYSTEMS



Self tempering
Process that ensures
high weldability

Over 150 Quenching systems to produce TMT bars along with flying shears have already been commissioned.

- Quenching system up to 100 tons per hour
- Self tempering Process that ensures high weldability
- TMT Bars of Fe 415, Fe 500, Fe 550, Fe 600 & Fe 650 grades
- "TEMPCORE" endorsed production process
- Technical Partnership with Herbert Rothe of Germany and CRM, Belgium
- TMT approved by SAIL and MES
- 6mm to 16mm TMT bars of Fe 415, Fe 500 and Fe 550 in coil form

ROLLING MILLS: SHEARS AND SAWS

CROP AND COBBLE SHEAR



CROP AND COBBLE SHEAR

The Shears are used in Hot Rolling Mills to Crop Front End, Tail End and as well as cobble cutting in case of eventualities. These Shears are start / stop type. These Shears are controlled through PLC Systems and provide very close tolerance of the cut length.

COMBINATION SHEAR



FEATURES

- Start-Stop and Continuous Operating Mode.
- Single Shear to cut Dia 8mm to Dia 40mm TMT. This Shear replaces two separate shears and reduces capital, operational & maintenance cost.
- There are 2 speed ratios to take care of low speed as well as high speed section rolling operates from 2mps to 40mps.

CONTINUOUS DIVIDING SHEAR



COOLING BED DIVIDING SHEAR (TMT SHEAR)

These Shears are used to cut cooling bed lengths at a minimum surface temperature of 350°C and are installed after the Quenching line & before entry to Cooling Bed.

Shears are Stop/Start and Continuous Operating types with variable speed motors. These are controlled through PLC System for very close length control.

FEATURES

- Bar Shifter with Servo Motor Operation that allows precise cutting.
- Quick change device for blade replacement.
- Suitable for quenched rebar and high alloy steels

COLD SHEARS



PPRM designs flying and static type cold shears with clutch and brake or direct drive, to produce the final end product.

FEATURES

- Both open and closed side types are available
- Extremely precise cutting
- Quick-change device for blade replacement
- Handles quenched rebar and high alloy steels
- Available with start-stop drive

HOT SAWS



Hot Saws are used in Hot Rolling Mills to cut desired length and as well as to trim front & Rear End. These shears are capable of cutting section size ranging from 80 to 600mm (Beam Channel Angle) and as well as Square, Rounds of 40 to 250 mm. These hot saws presently are of two types: Pendulum swinging type and horizontal sliding type.

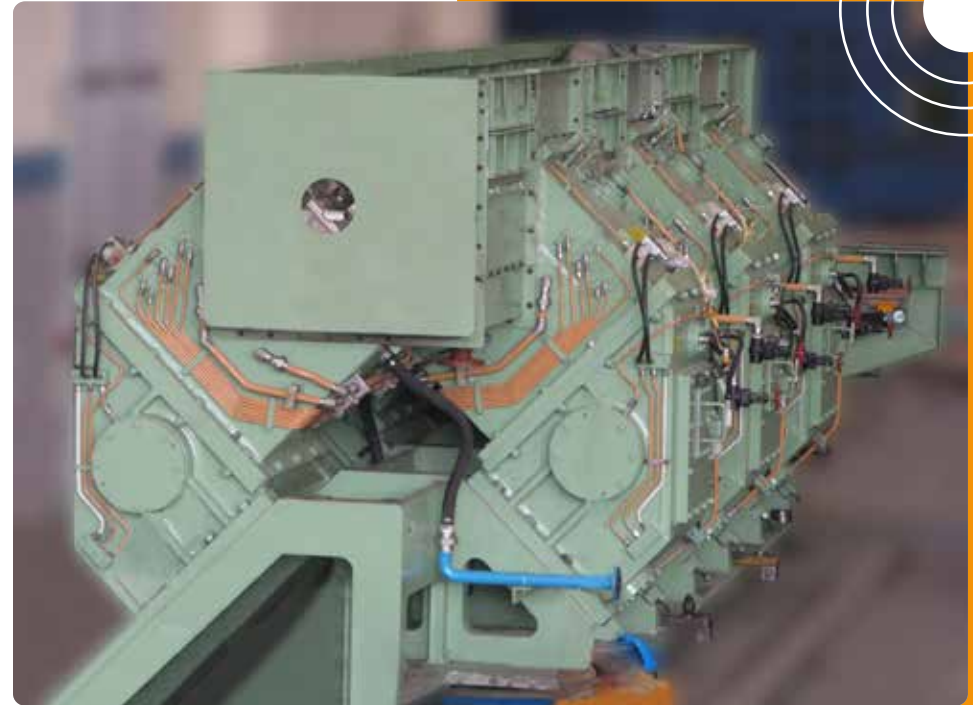
ROLLING MILLS: BLOCK MILLS

PPRM provides the complete range of equipment needed for today's modern wire rod mill operations with specific solutions for carbon steel, stainless steel and special steel comprising latest technology from Kobe Steel Japan as well as HEEP, Germany

Our finishing blocks with design speeds of up to 140 m/s are in operation, offering maximum reliability and efficiency.

Salient Features of the High Speed Block Mill:

- Designed by KOBELCO
- Quenched & Tempered TMT Bars of 8-20 mm at speeds up to 40 m/s
- Wire Rods from 5.5 to 20 mm speeds up to 100 m/s
- Complete Integration of Lubrication Instrumentation on the Equipment
- Rigid & Compact Design with No-Twist Feature



WIDE ROD BLOCKS



The wire rod block has 3 main design characteristics:

1. All roll units are driven via a group drive with non adjustable permanent relation between the roll rpm of the roll units.
2. It is designed for twist free rolling between the roll units therefore the alternate roll shafts are oriented by 90 degree with respect to each other
3. Roll units are of the cantilever type, facilitating easy and quick changing of Rolls

FEATURES

- Low-cost production even for small order lots
- Most compact stand design available on the market
- Rigid cassette-type stands for rigid & consistent product tolerances
- Reduced bay height requirement
- Fast cassette change with standard mill crane; open access to top of cassette
- Fast roll change, without any need for special equipment
- Disc & Drum Shear
- Laying Head
- High Speed Pinch Rolls

ROLLING MILLS: COOLING BEDS & TWIN CHANNEL

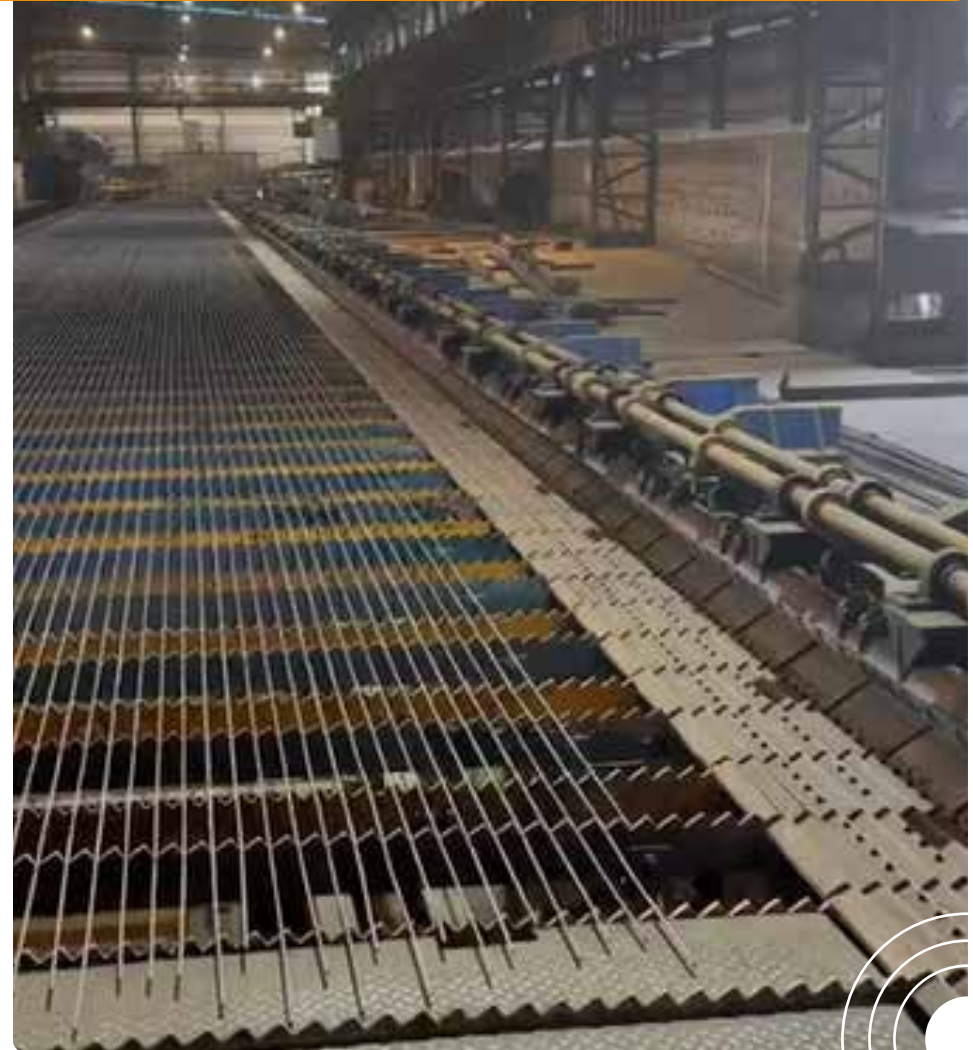
COOLING BEDS

Cooling beds naturally cool the material as well as cross transfer towards the discharge end. PPRM cooling beds are designed using standard modules that can be combined in accordance with plant product mix requirements and production capacity.

Full mechanical component standardization assures constant equipment quality, as well as high performance levels. Depending on differing speed requirements, cooling bed entry can be completed with lifting aprons and natural braking, magnetic braking, or twin channel, Rotary Drum with mechanical braking. For special applications, the cooling beds are provided with slow cooling by insulated covers and forced cooling by water spray systems or water tanks. A twin or double-twin channel system and Rotary Drum for extremely high rolling speeds is available.

The types available are:

- Automatic rake type cooling bed which transfer the material by one pitch for every rake movement. These are provided with twin channel bar delivery system or run in table with apron type diverters. The bed is provided with bar aligning arrangement, layer forming and transfer.
- Turn-over type cooling bed for alloy steel which rotates the bars every time the rake moves by a pitch this imparts superior straightness in material, improvised metallurgical properties as the bars are uniformly cooled.



TWIN CHANNEL & ROTATING DRUMS



The twin channel offers solution to bar handling at cooling bed at high speeds. Twin channels are available for bar sizes up to 40mm in dia and stock speeds as high as 30 m/s. This carries the bar in a closed channel until the material comes to a stand -still position and discharges it to the bed below automatically.

This is an excellent system as it carries the bar in a closed channel, minimizing the risk of accident. Its design feature makes it possible to work in conjunction with braking pinch rolls, minimizing the length of run-in. The operations of twin channel are automated and are guided by the discharge of the rods from dividing shear. An Innovative idea from PPRM for cast iron center boxes has drastically brought down maintenance time and water requirement.

Ultra High Speed Rotary Drum (UHSRD)

- Double Drive Rotary Drum system assures less than half the response time as compared to a Twin Channel, hence suitable for Rolling Mills with capacity of above 30Tons/hr.
- Drive system is installed on both entry and far side for very close control on the start-stop operation of the UHSRD.
- No deflection in the entry and exit side as compared to twin channel.
- Reduced slot size to receive rebar adds to better control and smooth running at high speeds.
- Multi-channel design gives time to stop the bar before dropping onto the cooling bed.
- PPRM'S UHSRD is suitable for operating $\varnothing 8\text{mm}$ @ of 40mps / cycle time of 1.4 sec

ROLLING MILLS: BAR HANDLING AREA

BAR COUNTER & SEPARATOR

Finishing equipment includes the automatic counting, stacking, bundling, binding, weighing and labeling of rolled products.

STACKER AND BUNDLING SYSTEMS

Stackers suited to handling straight and reverse layers are available for all type of sections. Handling of the straight and reverse layer with high speed stacking.

All stackers have a built-in bundling function. Bundlers for round and flat bars are available together with bar counting for rounds and small bundle systems.

The packing form can be round, square, rectangular and hexagonal.

BINDING SYSTEMS

Automatic binding of the packages and bundles is available with wire or strapping.

WEIGHING AND LABELLING

All bundles can be automatically weighed and further labeled for quality assured delivery of the finished products.



The image features a background of numerous concentric circles. The innermost circle is a solid dark blue. Surrounding it are many thin, closely spaced lines that transition from a light blue to a golden-brown or orange color as they move outwards. The overall effect is a tunnel-like or vortex-like pattern.

CNC MACHINES



CNC Notching and Branding Machine



CNC TC Ring Grinding Machine



CNC Roll Turning Lathe Machine

- **PPRM supply all kind of CNC Machine for Roll Shop Application**
- **Long term agreement with Wendt**



**HEAVY MACHINE
BUILDING AND
FABRICATION**



**TAILOR MADE TO CUSTOMER
DESIGN AND SPECIFICATIONS FOR
STEEL/ TUBE/ POWER/ SUGAR/
CHEMICAL PLANTS.**

"Cost Effectiveness" of an equipment builder would greatly depend on his in-house facilities and man power competence, which in the ultimate analysis, would determine Quality of equipment and timely delivery.

Complete infrastructure and machines are available in-house, to handle a wide range of jobs and tasks. We also specialize in machining of heavy jobs on Horizontal Boring, Vertical Boring and Gear Hobbing. These machines are well supported by EOT cranes with a maximum capacity of 40 Tons having a Lift of 8.5m. Our facilities are backed by 100% stand by power supply.





Our inspection department is fully equipped with the required measuring instruments, which are regularly calibrated. Our competent team of Quality Control engineers regularly undergo training programs, making them aware of the latest developments in the field. These departments take utmost care to ensure that every job strictly adheres to the customers' specific quality standards/requirements.

Satisfied customers include industry leaders, like Larsen & Toubro Ltd. & TISCO growth shop for Steel Plant and Bulk Material handling Equipment, Flovel Hydro and Andritz for Power Plants, MECON for Flat products and cold rolling mills, KRUPP India For sugar plants, Primetals, SMS, Danieli for steel plant equipment.

The background features a series of concentric circles. The innermost circle is a solid dark blue. Surrounding it are numerous thin, closely spaced lines in a golden-brown or light orange color, creating a tunnel-like or ripple effect that expands outwards to the edges of the frame.

**PP TUBE MILLS
(PPTM)**

Forecasting a growing demand for the tubes and profiles across the globe, PPRM set up PP Tube Mills (PPTM) - a dedicated tube mill division in 2015. PPTM has a dedicated team providing end to end solutions for the tube mill industry.

In order to serve the steel tube industry with most appropriate European technology company we acquired technology from **SEUTHE GmbH** to manufacture and supply tube mills under mas brand name for smaller diameter range.

Similarly for large diameter range and special applications company entered into an exclusive technology partnership and sales co-operation with **VAVIT**. Through this tie up we are able to supply tube mills for special applications such as – API, high wall thickness and high strength tubes for automotive and structural tubes.

- **API TUBE**
- **HIGH WALL THICKNESS TUBE**
- **DIRECT FORMING TUBE MILL**
- **SPIRAL WELDED TUBE PLANTS**
- **TUBE COATING PLANTS**

FOR SMALL DIA TUBE MILL

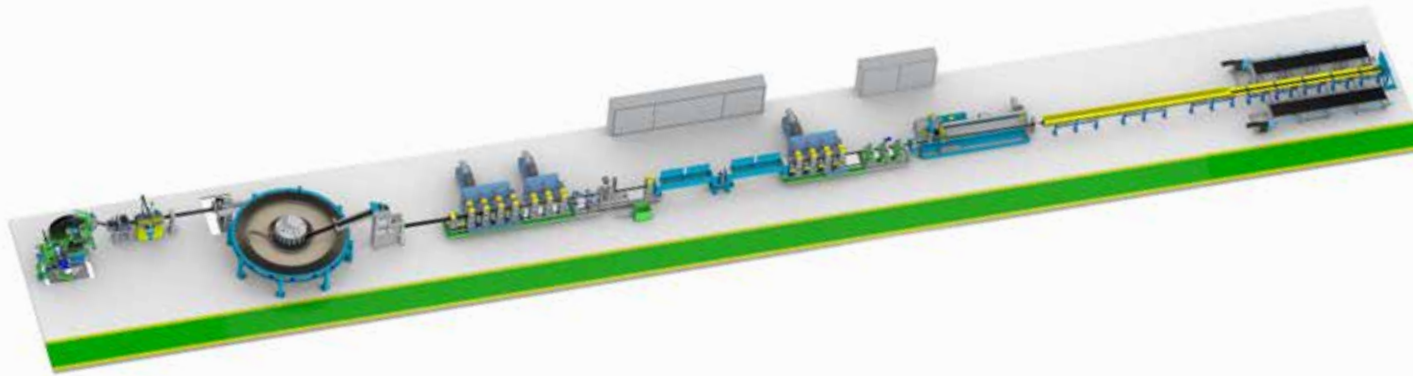
SEUTHE
asmag group

FOR API AND SPIRAL TUBE MILL

 **VAVIT**

TECHNOLOGY PARTNER

TYPICAL TUBE MILL LAYOUT



MAS TUBE MILL SIZE RANGE CHART

	Tm 38 / 3.0-120	Tm -63 / 3.5 -150	Tm -76 / 4.0 -150	Tm -90 / 4.5 -120	Tm -127 / 5.4 -100	Tm -193 / 7.0 -70	Tm -219 / 9.0 -50
OD (Min.-Max.)	12.7 - 38.1	15.88 -63.0	19.05 -76.1	21.3 -88.9	33.4 -127	76.1 -193	88.9 -219
Square (Min. - Max)	10x10 – 30x30	15x15 – 50x50	16x16 – 60x60	19x19 – 75x75	25x25 – 100x100	60x60 – 150x150	70x70 – 175x175
Rectangular (Min. -Max)	10x20 – 20x40	12x25 – 60x40	20x30 – 80x40	40x20 – 100x50	25x50 – 122x61	80x40 – 200x100	96x48 – 200x150
Coil Weight Max.	3 Ton	4 Ton	5 Ton	6 Ton	8 Ton	13 Ton	15 Ton
Line Speed Entry Line (Max. speed)	300 M /Min	350 M /Min	350 M /Min	250 M /Min	250 M /Min	200 M /Min	150 M /Min
Line Speed Weld Line (Max. speed)	120 M /Min	150 M /Min	150 M /Min	120 M /Min	100 M /Min	70 M /Min	50 M /Min



**TUBE PLANTS
TURNKEY PROJECTS**

TURNKEY SOLUTIONS FOR THE ERW TUBE MILL INDUSTRY



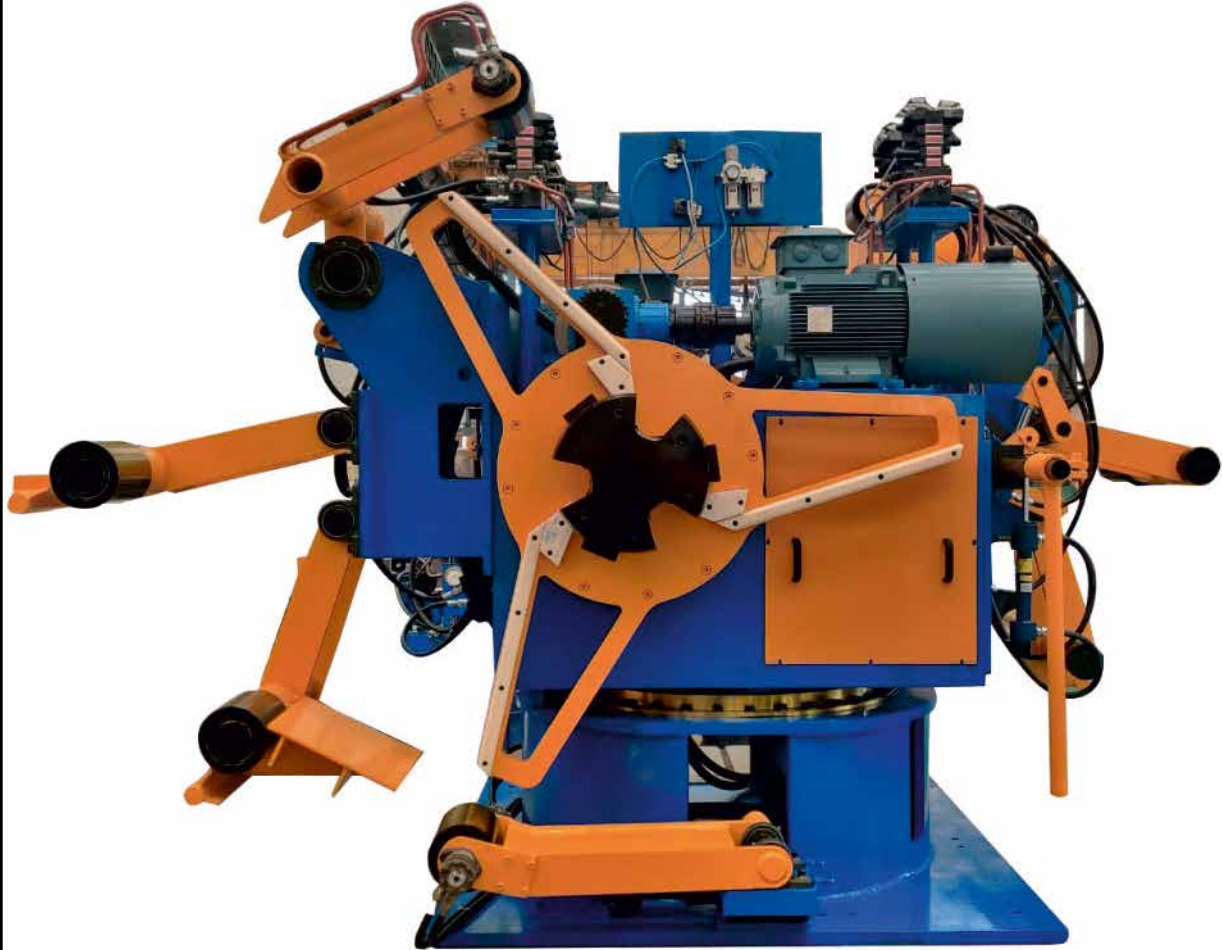
- Mill size range selection to achieve annual production target
- Creating layouts for customers by devising the most feasible and efficient philosophy
- Complete equipment design and manufacturing for Tube & Large Dia Pipe Mill
- Utilities, Civil and Foundation, Work Supervision, Erection and Commissioning, Establishing Production & Mill setting SOPs and Productivity Improvement
- Highly qualified and experienced team to provide value added solutions for the ERW Tube Mill Industry
- Modern facilities with world class machines equipped with latest CNC
- Quality Assurance plans and inspection procedures ensure quick and smooth implementation of projects.
- Consultancy services For setting up world Class ERW Tube Mills & Finishing Process Plants (Automobile Tubes / Boiler & Heat Exchanger Tubes / SS Tubes / API Tube Plants)
- Stand alone equipment manufacturing for pipe testing & handling.



**TUBE MILL
EQUIPMENTS**

TUBE MILLS

STRIP PREPARATION AREA





FORMING AREA



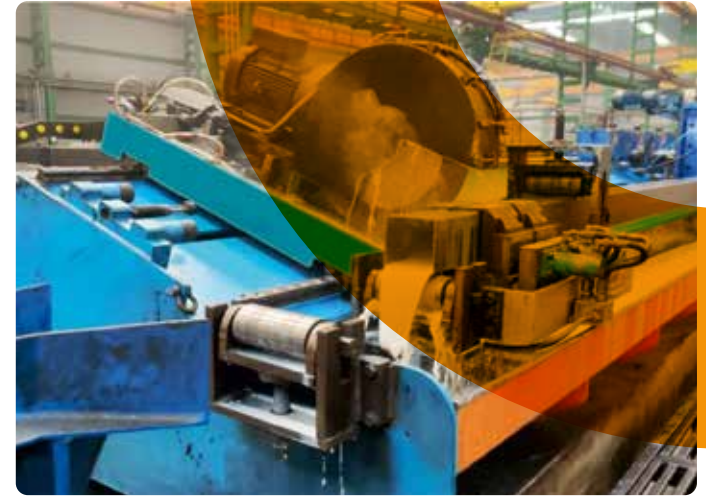
WELDING AREA



SIZING & SHAPING AREA



COLD SAW





FINISHING AREA



ROLLS FOR TUBE MILL



The image features a background of numerous concentric circles. The innermost circle is a solid dark blue, which then transitions into a series of thin, closely spaced lines. These lines alternate between a light blue and a golden-brown color, creating a tunnel-like or ripple effect that draws the eye towards the center. In the very center of this circular pattern, the word "CRANES" is written in a bold, white, sans-serif font.

CRANES



We manufacture cranes in our state of the art facilities spread over 250,000 Sq ft of area with the latest machines and testing facilities, modular design, critical bought out items from the leading manufacturers . Optimized weights complement our high quality cranes with operational excellence, safety and economy.

Our experienced team of engineers is always keen to provide you the best solutions for EOT cranes.

UNIQUE FEATURES

- Cutting edge Design to meet International standards
- European make Geared brake motors, compact unit for hoisting, CT & LT motions
- All gears are hardened & profile ground for higher efficiency
- Compact, durable and modular drives for all three motions
- Optimised design of box girder
- Lower LT wheel loads to have substantial savings in building structure and foundations
- Power efficient design
- No maintenance cranes with longer life and smoother operations

MELT SHOP IN PARTNERSHIP WITH **—INTECO—**

TECHNOLOGY PARTNER

—INTECO—

PPRM provides Melt shop and Caster as Turnkey Solution in partnership with our technology partner.

ELECTRIC ARC FURNACE

- LADLE FURNACE
- VACUUM DEGASSING
- RH DEGASSING
- INGOT CASTING
- CONTINUOUS CASTING (CCM)
- SEGMENT CASTING
- VACUUM INDUCTIONMELTING
- ELECTRO SLAG REMELTING
- TITANIUM PRODUCTION



NARROW HOT STRIP MILLS

Pipe Size		Max Strip Width		Strip Thickness	Coil Weight		Production	Mill		Roll Dia		
Nom	Od	Calculated	Selected					Roughing		Finishing		
mm	mm	mm	mm	mm	kg	m/s	tpa	Type	Size	Type	Qty	Size
100	114.3	359.08	360	1.2	1440	6.50	200,000	2Hi Rev	570	2Hi	2	600
										4Hi	5	400 / 650
125	143	449.25	450	1.4	2250	7.50	350,000	2Hi Rev	680	2Hi	2	600
										4Hi	5	400 / 700

TURNKEY SOLUTION FOR NARROW HOT STRIP MILL

- Complete layout & feasibility studies along with Koras Consultant
- Engineering and equipment manufacturing at in-house ultra modern facilities.
- Performance guarantee
- Stops for Pipe mill, Automobile component & special application



OUR GLOBAL PRESENCE





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