



K.N. Engineering Works Pvt. Ltd.

Consultants & Manufacturers of Re Heating Furance & Rolling mill Equipments

COMPLETE SOLUTION FOR STEEL ROLLING MILL



ABOUT US

K.N. Engineering Works Pvt. Ltd. specializes in consulting and manufacturing reheating furnaces and rolling mill equipment, offering complete solutions for steel rolling mills.

We are proud to hold ISO 9001:2015 certification for the manufacturing of furnaces, rolling mills, machinery, and related accessories. This certification underscores our commitment to delivering high-quality products and services.

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OUR PROCESS OF **TURNKEY SOLUTIONS**

FROM VISION TO REALITY



Partner with us to build a
stronger, smarter, and sustainable future
IN STEEL MANUFACTURING!

OUR PRODUCTS

Discover the epitome of engineering artistry in our featured products. Each creation is a testament to our unwavering commitment to perfection.



3-HI ROUGHING MILL

APPLICATION:

Initial breakdown of billets for mass reduction.

SPECIFICATIONS:

- **Housing:** Steel fabricated heavy-duty frame
- Roll Diameter: 600–1000 mm
- Roll Width: 900–1000 mm
- Reduction Ratio: Up to 70% in single pass
- Drive: Individual motor drive, up to 1250 kW
- Bearings: Anti-friction with oil film lubrication
- Roll Changing: Manual or hydraulic assisted
- Speed: 2–4 m/s
- **Automation:** Optional semi or fully automatic
- **Special Feature:** Vibration dampening for stability

BENEFITS:

- High durability
- Superior reduction capacity
- Reduced vibration, longer life

HOUSINGLESS STAND

APPLICATION:

Finishing and intermediate rolling operations.

SPECIFICATIONS:

- **Torque Capacity:** Up to 220 kNm
- Quick roll change system (<10 mins)
- Forced water-cooled rolls and bearings
- **Speed:** Up to 16–20 m/s
- **Automation:** Sensors & hydraulic adjustment
- **Options:** Horizontal, Vertical, Conventional housingless

BENEFITS:

- Quick roll change
- High precision
- Smooth automated operation



S.No	Roller Neck Diameter	Roller Maximum/Minimum Diameter	Roller Barrel Length
1.0	280 mm	650/565 mm	850 mm
2.0	230 mm	560/430 mm	750 mm
3.0	200 mm	430/360 mm	700 mm
4.0	180 mm	400/290 mm	700 mm
5.0	160 mm	340/270 mm	600 mm

GEAR BOX

APPLICATION:

Power transmission for rolling operations.

SPECIFICATIONS:

- Hardened & ground helical gears
- **Torque Rating:** 800–1200 kNm
- **Gear Ratios:** 8:1 to 18:1
- **Bearings:** Heavy-duty roller type
- **Lubrication:** Forced oil circulation with heat exchanger
- **Casing:** Stress-relieved steel
- **Service Life:** 20+ years

BENEFITS:

- High power density
- Long service life
- Efficient torque transmission



SHEARS (CROP, COBBLE & FLYING SHEAR)

APPLICATION:

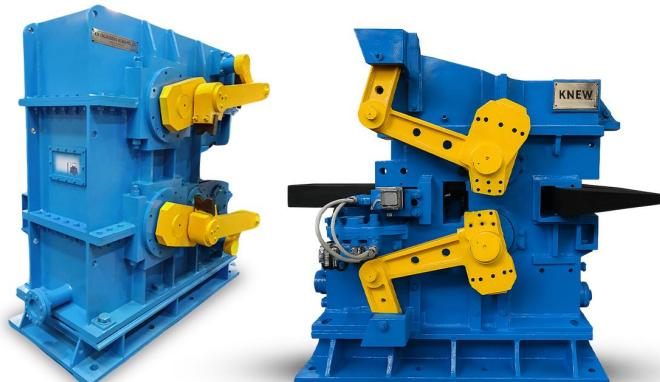
Hot cutting of billets & bars.

SPECIFICATIONS:

- **Capacity:** Ø8–Ø40 mm bars
- **Cutting Speed:** Up to 40 cuts/min
- **Drive:** Mechanical crank / Flywheel system
- **Blades:** H13 tool steel, 50–55 HRC
- PLC synchronisation with mill speed
- Manual/Automatic blade adjustment
- **Special Feature:** Clean, precise cutting

BENEFITS:

- High-speed shearing
- Long-lasting blades
- Synchronized operation



HEAVY DUTY CANTILEVER STAND (210 CRS, 8–12 MM TMT @ 32 MPS)

APPLICATION:

High-speed final rolling of TMT bars.

SPECIFICATIONS:

- **Center Distance:** 210 mm
- **Bar Size:** 8–12 mm TMT
- **Speed:** Up to 32 m/s
- **Torque:** Up to 220 kNm
- Integrated roll cooling
- Cassette type roll change (<8 mins)
- Compact & rigid structure

BENEFITS:

- Ideal for high-speed TMT
- Quick roll change
- Space-saving design

PINCH ROLL

APPLICATION:

Material handling between rolling stands.

SPECIFICATIONS:

- Twin motor drive, speed synchronised
- **Roll Material:** Forged steel, hardfaced
- **Roll Diameter:** 200–250 mm
- **Speed:** Up to 32 m/s
- PLC control system
- **Special Feature:** Straight bar delivery

BENEFITS:

- Smooth transfer
- Precision speed control
- Robust build



TMT QUENCHING BOX

APPLICATION:

Thermo-mechanical treatment of rebars.

SPECIFICATIONS:

- **Water Flow:** Up to 180 m³/hr
- Triple-line precision nozzle system
- Stainless steel (SS304) construction
- Auto-regulated pressure (8–12 bar)
- Inline thermocouples for monitoring
- Integrated mill automation
- **Special Feature:** Uniform quenching

BENEFITS:

- Enhanced TMT properties
- Corrosion-resistant build
- Precise water distribution

COOLING BED

APPLICATION:

Controlled cooling and transfer of hot rolled products.

SPECIFICATIONS:

- Chain & rake combination system
- Automated rake transfer
- Hydraulic tail brake system for precision control
- **Bed Length:** Customisable up to 120 m
- Natural/forced air cooling options
- Fully automated, synchronised with mill speed
- Heavy-duty steel frame

BENEFITS:

- Uniform cooling
- Smooth material handling
- Precision braking control



TYING MACHINE



APPLICATION:

Bundling of finished products.

SPECIFICATIONS:

- **Binding Speed:** Up to 6 bundles/min
- **Wire Size:** 1.2–1.6 mm
- **Bundle Size:** Up to 500 mm diameter, 2 MT
- PLC integrated control
- Heavy-duty steel frame
- Custom tying patterns

BENEFITS:

- High-speed binding
- Custom bundle configuration
- Durable and reliable

MATERIAL HANDLING SYSTEMS

APPLICATION:

Efficient transfer and handling of rolled products.

PRODUCT:

- **Rake Transfer:** Up to 50 T/hour, fully synchronised
- **Hydraulic Pusher:** Heat-resistant, precise control
- **Run-Out Table:** Adjustable speed, PLC controlled
- **Discharge System:** Chain conveyor/roller table, integrated automation

BENEFITS:

- Smooth handling
- Low maintenance
- Fully automated

- ✓ **Production Capacity:** Up to 500,000 TPA
- ✓ **Maintenance:** Service every 8,000–10,000 hours
- ✓ **Warranty:** 12–18 months post commissioning
- ✓ **Certifications:** ISO 9001, CE Marking, ASTM/DIN compliance
- ✓ **Energy Consumption:** 900–1500 kW/hour (approx.)
- ✓ **Automation:** PLC/SCADA integration, Industry 4.0 ready
- ✓ **Shipping:** Export-quality packaging, 12–18 months delivery

MANUFACTURING DIVISION BY PRODUCT CATEGORY

UNIT	CORE FOCUS	EQUIPMENT MANUFACTURED
Faridabad – Unit I	Rolling Mill Equipment	Mill Stands, Gearboxes, Guides, Rolls, Couplings, Bearing Housings
Bangalore – Unit II	Shearing, Quenching & Finishing Equipment	Crop and Cobble, Flying Shears and Cold Shears, Quenching System, Cooling Bed, Block Mill

UNIT I: HEADQUARTERS & HEAVY MACHINING FACILITY

Location: Sector 32, Faridabad, Haryana

Key Machine Tools Available:

- Plano Miller with DRO – Bed size 8 m x 2.5 m
- Vertical Machining Center (VMC) – Large bed, high precision
- Tool Room Lathe and Milling Machines
- CNC Turning Center
- Radial Drilling Machine – 50 mm capacity
- Horizontal Boring Machine – 1.2 m spindle travel
- In-house Welding Shop – MIG, TIG, and Arc welding stations
- Assembly & Fitting Bays with 20-ton overhead cranes

Capabilities:

- Quality control with micrometers, dial gauges, and hardness testing

BANGALORE – UNIT II: CNC PRECISION & ASSEMBLY PLANT

Location: Peenya Industrial Area, Bangalore, Karnataka

Key Machine Tools Available:

- Heavy-Duty CNC Floor Boring Machine (5 m X travel, 1.5 m Y travel)
- CNC Lathe Machines – For small-large sized shafts
- HMC (Horizontal Machining Center) for complex parts
- Plano Miller
- Hydraulic Press & Assembly Fixtures
- Semi-Automatic Welding Units
- Tool Pre-setter and calibration instruments

Capabilities:

- Final assembly for export dispatch
- Quality inspection as per ISO standards
- CNC programming and tool path optimization

QUALITY MANAGEMENT SYSTEM

We, the management, staff, and employees of KN ENGINEERING WORKS PVT LTD., strive to continually improve the effectiveness of our quality management system.

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

Continual improvement & on time delivery. Right quality and aiming for zero defect.

TO ACHIEVE A QUALITY PRODUCT, WE PERFORM INSPECTIONS AT DIFFERENT STAGES:

Incoming at Supplier End	In-Process in Shop	Final Inspection	Final Packing & Dispatch Clearance
<ul style="list-style-type: none">▪ Plates▪ Structural Steel▪ Forging▪ Casting▪ BOP▪ Machining	<ul style="list-style-type: none">▪ Fabrication▪ Machining▪ Sub-Assembly▪ Assembly	<ul style="list-style-type: none">▪ Fabrication▪ Machining▪ Assembly▪ Testing	

NCR HANDLING

In case of an NCR (Non-Conformance Report – defect/deviation beyond the acceptable limit), we follow the process below:

- Record the defect/deviation in the form of an NCR.
- Forward the NCR to our customer.
- Take corrective action as per the customer's recommendation.
- Based on the analysis of the defect, we identify preventive actions.
- To ensure the effectiveness of the preventive action, we inspect future work.

R&D & DESIGN CAPABILITIES

TECHNICAL DEVELOPMENT

The best products originate from the best technology. We strive to develop the most advanced solutions to meet our customers' process requirements.

Our R&D infrastructure includes:

- A full-fledged CAD-based design system, backed by professionals with decades of field experience
- 3D modeling using SolidWorks and Solid Edge platforms
- An ERP system for efficient organizational resource management

We continue to invest in upgrading our designs to enhance performance and reduce overall customer costs. Our recent developments include:

- Housingless mill modernization
- Cantilever stand development
- Bar counter and bar separation systems

TESTIMONIALS

Salam Steel, Bangladesh



KN Engineering Works Pvt. Ltd. has been a reliable partner in delivering high-quality rolling mill machinery. Their precision engineering and on-time delivery have significantly improved our production efficiency. We are highly satisfied with their professional service and attention to detail.



M/S Muscat Steel, Oman



Working with KN Engineering Works Pvt. Ltd. has been a seamless experience. Their expertise in manufacturing and providing customized solutions has greatly enhanced our operations. We appreciate their commitment to excellence and look forward to a continued partnership.



M/S Tema Steel, Ghana



KN Engineering Works Pvt. Ltd. has exceeded our expectations with its innovative solutions and robust machinery. Their dedication to quality and customer satisfaction is commendable. They have been instrumental in helping us scale our operations efficiently.



Steel Exchange LTD, Visakhapatnam



The team at KN Engineering Works Pvt. Ltd. has consistently delivered outstanding results. Their advanced technology and tailored solutions have streamlined our manufacturing process. We highly recommend their services for any steel industry needs.



FOR MORE INFORMATION

visit KN Engineering Works Pvt. Ltd.



www.knengineeringworks.com

List of Clients in **ABROAD** on **TURNKEY SUPPLY**

CLIENT NAME	DESCRIPTION
M/S ANGELIQUE INTERNATIONAL CHAD, AFRICA	60,000 Tpa Bar Mill
M/S MUSCAT STEEL INDUSTRIES, OMAN, MUSCAT (UNIT - I)	150,000 Tpa Bar Mill
M/S SHEEMA AUTOMATIC RE-ROLLING MILLS, CHITTAGONG, BANGLADESH.	100,000 Tpa Bar Mill
M/S SIDEX SOCIETATE COMERCIALA CONTESTA, ROMANIA.	60,000 Tpa Structural Mill
MIS SANAYE NAVARD SEPAHAN GODAZEH CO. IRAN	150,000 Tpa Bar Mill
M/S HADID MAJAN LLC, MUSCAT, OMAN	150,000 Tpa Bar Mill
MIS HADID MAJAN LLC MUSCAT	60,000 Tpa Bar Mill
M/S PURBANCHAL STEEL PVT. LTD, DHAKA, BANGLADESH	60,000 Tpa Tmt Bar Mill
M/S PROMETAL, CAMEROUN	60,000 Tpa Tmt Bar Mill
M/S DELTA STEEL SARL, DUALA, ANGOLA	60,000 Tpa Tmt Bar Mill
M/S UNIMAC MACHINERIES INTERNATIONAL FZE, MOROCCO	150,000 Tpa Tmt Bar Mill
M/S HULAS WIRE INDUSTRIES, NEPAL	80,000 Tpa Tmt Bar Mill
M/S HULAS WIRE INDUSTRIES, NEPAL	40,000 Tpa Light & Medium
M/S ALASKA STEEL MILLS LTD., BANGLADESH	Bar Mill Structure Mill Tmt
M/S SUN & SAND INDUSTRIES, LAGOS, NIGERIA	60,000 Tpa Bar Mill
MIS SUN & SAND INDUSTRIES, LAGOS, NIGERIA	100,000 Tpa Wire Rod Mill
M/S SITALPUR RE-ROLLING MILL CHITTAGONG BANGLADESH	100,000 Tpa Tmt Bar Mill
M/S BANDER STEEL, DHAKA, BANGLADESH	50,000 Tpa Tmt Bar Mill
M/S MAGNUM STEEL RE-ROLLING MILL, DHAKA, CHITTAGONG	80,000 Tpa Tmt Bar Mill
M/S BIKRAMPUR STEEL, DHAKA, BANGLADESH	30,000 Tpa Bar Mill
M/S FERRO STEEL, , BAIWARA NEPAL	40,000 Tpa Tmt Bar Mill
M/S AL-MUDAHESH STEEL, MADINA, SAUDI ARABIA (UNDER EXECUTION)	150,000 Tpa Tmt Bar Mill
M/S AL-ABSR STEEL, SHARJAH, U.A.E.	50 Tons Per Day Bar Mill
M/S MUSCAT STEEL INDUSTRIES, LLC (PROJECT-2ND). MUSCAT, OMAN UNDER EXECUTION) – REPEAT ORDER	150,000 Tpa Tmt Bar Mill
M/S NASRI AL MUFLEH CO. JORDAN	70,000 Tpa Tmt Bar Mill
M.S FOKOU FOBERB, CAMEROUN	6,000 Tpa Tmt Bar Mill
M/S , RAHIM STEEL, DHAKA, BANGLADESH	250,000 Tpa Tmt Bar Mill
M/S GOLDEN ISPAT LTD, CHITTAGONG, BANGLADESH	100,000 Tpa Tmt Bar Mill
M/S FEERO FABRIC, GHANA	150,000 Tpa Tmt Bar Mill
M/S SIDDHI LAXMI STEEL (P) LTD, SIDDHARTH NAGAR, BAIWARA, NEPAL	200,000 Tpa Tmt Bar Mill
33. M/S NDR STEEL, CHITTAGONG, BANGLADESH	50,000 Tpa Tmt Bar Mill
M/S K.R AUTO RE-ROLLING MILL LTD, CHITTAGONG, BANGLADESH	50,000 Tpa Tmt Bar Mill
M/S TEMA STEEL, GHANA	150,000 Tpa Tmt Bar Mill
M/S ALASKA STEEL, DHAKA, BANGLADESH (ON GOING PROJECT)	150,000 Tpa Tmt Bar Mill
M/S HM INDUSTRIES, CHITTAGONG, BANGLADESH (ON GOING PROJECTS)	200,000 Tpa Tmt Bar Mill
M/S SALAM STEEL PVT LTD, DHAKA, BANGLADESH (H/V HOUSING LESS STAND 18 NOS + 06 STANDS BLOCK MILL) (ON GOING PROJECTS)	400,000 Tpa Tmt Bar Mill
M/S GOYAL ISPAT PVT LTD, NEPAL	50,000 Tpa Tmt Bar Mill
40. M/S MOHAN NAGAR STEEL MILLS LTD, DHAKA, BANGLADESH (ON GOING PROJECTS) (ON GOING PROJECTS)	200,000 Tpa Tmt Bar Mill
M/S STAR STEEL PVT LTD, GHANA	MERCHANT MILL CAP. 200,000 TPA
M/S DIAMOND STEEL, DHAKA, BANGLADESH	40,000 TPA TMT BAR MILL
M/S PRIME GROUP OF INDUSTRIES, DHAKA, BANGLADESH	60,000 TPA TMT CUM ANGLE MILL
M/S CEYLON STEEL, SRILANKA	BLOCK MILL

List of Clients in INDIA on TURNKEY SUPPLY

CLIENT NAME	DESCRIPTION
M/S PETROPOL INDIA LTD. BHIWADI	70,000 Tpa Tmt Bar Mill
M/S PRAHLAD ISPAT LTD. SHIKOHABAD	70,000 Tpa Tmt Bar Mill
M/S V.V.S. ALLOYS LTD, KANPUR	50,000 Tpa Tmt Bar Mill
M/S DHANALAKSHMI IRON INDUSTRIES, HYDERABAD	75,000 Tpa Tmt Bar Mill
M/S UTTAM STEEL ROLLING MILLS PVT. LTD., MANDI GOBINDGARH	60,000 Tpa Tmt Bar Mill
M/S DEVASHREE ISPAT LTD. HYDERABAD.	70,000 Tpa Tmt Bar Mill
M/S SHREE RADHA KRISHNA ALLOY (P) LTD., HINDUPUR, A.P	80,000 Tpa Tmt Bar Mill
M/S MADHAV UDYOG (P) LTD. MANDI GOBINDGARH	Medium Structure Mill
M/S SHREE RADHA KRISHNA ALLOY (P) LTD., HINDUPUR, A.P	Medium Structure Mill
M/S SHREE RADHA KRISHNA ALLOY (P) LTD., HINDUPUR, A.P	Angle Mill
M/S CHAUDHRANA STEEL PVT. LTD. ALLAHABAD.	75,000 Tpa Tmt Bar Mill
M/S SULEKHMAR STEELS LIMITED, ODHAV ROAD, AHMEDABAD.	60,000 Tpa Tmt Bar Mill
M/S SHREE RADHA KRISHNA ALLOYS (P) LTD. HINDUPUR	Structural Mill
M/S UTTAM STEEL ROLLING MILL PVT. LTD. MANDI GOBINDGARH	Structural Mill Ss Flat And Heavy Structural Mill
M/S VAISHNAVI ISPAT PVT. LTD. DURGAPUR.	150,000 Tpa Bar & Wire Rod mill
M/S MAHESWARI ISPAT LTD. CUTTACK, ORISSA	60,000 Tpa Tmt Bar Mill
M/S BRILLIANT STEEL PRODUCTS (P) LTD. VARDHAMAN (W.B.).	80,000 Tpa Tmt Mill
M/S H. P. ISPAT PT. LTD., DURGAPUR	80,000 Tpa Tmt Bar Mill
M/S SRI NAVDURGA BILLETS PVT. LTD., HYDERABAD.	250,000 Tpa Tmt Bar Mill
STEEL EXCHANGE (1) LTD., VISAKHAPATNAM	450,000 Tpa Mill Revamping – Erection & Commissioning (horizontal & Vertical Mill)
MONNET ISPAT & ENERGY LTD., RAIGARH	
M/S CAUVERY IRON & STEEL LTD, HYDERABAD	100,000 Tpa Tmt Bar Mill
M/S CAUVERY IRON & STEEL LTD, HYDERABAD	75,000 Tpa Heavy Structure Mill
MIS BMK PROJECTS, PURULIA	100,000 Tpa Tmt Bar Mill
MIS JUHI INDUSTRIES LTD. RANCHI	100,000 Tpa Tmt Bar Milt
M/S SHREE TIRUPATI STEEL, HINDPUR	150,000 TPA TMT BAR MILL
M/S A ONE ISPAT LTD, HINDUPUR	150,000 TPA TMT BAR MILL
M/S LAXCON STEEL, GUJARAT	200,000 TPA TMT BAR MILL
M/S K.B ISPAT, BHAVNAGAR	150,000 TPA TMT BAR MILL
M/S VITTAL STEEL, LUDHIANA	150,000 TPA TMT BAR MILL
M/S SHAURAYA ISPAT PVT LTD, RAIPUR (FORTUNE)	200,000 TPA TMT BAR CUM WIRE ROD MILL
M/S SHAURAYA ISPAT PVT LTD, RAIPUR (FORTUNE)	30 TONS PER HOUR HOT STRIP MILL 610 MM ROUGHING 560 MM 2 HI X 2 NOS INTERMEDIATE 460 MM 2 HI X 4 NOS FINISHING
M/S ELOQUENT STEEL PVT. LTD. SHAKAMBHARI GROUP	32, M/S ELOQUENT STEEL PVT. LTD. SHAKAMBHARI GROUP 35 TONS PER HOUR HOT STRIP MILL 610 MM ROUGHING 560 MM X 2 NOS INTERMEDIATE 360 MM 4 HI X 4 NOS FINISHING
M/S RASHMI METALICS & POWER LTD. KHRAGPUR	35 TONS PER HOUR HOT STRIP MILL 610 MM ROUGHING 560 MM X 2 NOS INTERMEDIATE 360 MM 4 HI X 6 NOS FINISHING
M/S SAI BANDHAN INFINIUM PVT LTD	300,000 TPA TMT BAR CUM WIRE ROD MILL
M/S SHRI TIRUPATI STEEL, HINDUPUR	200,000 TPA TMT BAR MIL
M/S RDTMT, BAGALORE	150,000 TPA TMT BAR MILL
M/S APPLE INSUSTRIES, BELLARY	150,000 TPA TMT BAR MILL
M/S A ONE ALLOYS & STEEL INDUSTRIES, ANDRA PRADESH	150,000 TPA TMT BAR MILL
M/S OM SHREE RUPESH PVT LTD, RAIGARH	150,000 TPA TMT BAR MILL
M/S METRO ISPAT PRIVATE LIMITED, MUMBAI	12,000 TPM TMT BAR MILL
M/S SKY ALLOYS & POWER LIMITED, CHHATTISGARH	SHEARS, PINCH ROLL, TAIL BREAKER, BENDING MACHINE
M/S KARGIL STEEL & POWER PVT LTD, PANCHKULA	20-25 TPH TMT BAR CUM STRUCTURE MILL
M/S RASHMI METALICS & POWER LTD. KHRAGPUR	250,000 TPA TMT BAR MILL



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Experience the Future of Steel Rolling with Us!

K.N. Engineering Works Pvt. Ltd.



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www.knengineeringworks.com

TRUSTED BY CLIENTS IN 15+ COUNTRIES

DELIVERED OVER 100+ ROLLING MILLS GLOBALLY

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