



HEAVY DUTY

TUBE MILL ROLLS

PRECISION ENGINEERED
FOR MAXIMUM PERFORMANCE



HIGH
PRECISION



SUPERIOR
STRENGTH



LONGER
SERVICE LIFE



CONSISTENT
PERFORMANCE



ISO

9001:2015
CERTIFIED COMPANY



PREMIUM
QUALITY



BUILT FOR
DURABILITY



MADE FOR
INDUSTRY



www.skengineersrolls.com

| About Our Company

S.K. Engineers was established in the year 1994 by Shri Sajjan Kumar. He gained a rich experience in the field of manufacturing of M.S. and S.S. Tube Mill, M.S. & S.S. Slitting Line Machine, Cut to Length Machine, Finishing Line Equipment and parts of there.

We have designed and manufacturing specialized Rolls for making various sections like Star type, Octagonal Type, Door Frame, all Railway open sections etc. for the first time in India.

Mr. Rakesh Kumar



Who is the son of Shri Sajjan Kumar, has joined the family business in the year 2007 and has attained a rich experience in the field of manufacturing of various types Tube Mills and parts thereof.

Shaping Steel with precision



Engineering Excellence
Since 1994

| Precision. Performance. Reliability.

32+ Years Of Experience

Since our inception, S.K. Engineers has focused on providing innovative engineering solutions for the tube and steel processing industry.

Our manufacturing facility is equipped with modern CNC machines and advanced quality inspection systems to ensure every product meets stringent industrial standards.

By combining experienced engineering with modern manufacturing technology, we provide customized solutions that improve production efficiency while reducing maintenance costs.

WHY CHOOSE US

At S.K. Engineers, we combine decades of industry expertise with advanced manufacturing capabilities to deliver reliable, high-performance solutions for the tube and steel processing industry. Every product is engineered with precision, tested for quality, and built to perform in demanding industrial environments.

Why Industry Leaders Choose Us

- 32+ Years of Manufacturing Excellence
- Precision Engineered Products
- Advanced CNC Manufacturing
- Premium Grade Raw Materials
- Strict Quality Control at Every Stage
- Customized Engineering Solutions
- High Durability & Long Service Life
- Consistent Performance & Accuracy
- Competitive Pricing
- On-Time Delivery Commitment
- Experienced Technical Team
- Reliable After-Sales Support



OUR MANUFACTURING

• Modern Manufacturing Facility

Our advanced production facility combines modern machinery with skilled workmanship to manufacture precision industrial equipment.

Every manufacturing stage is carefully monitored—from raw material selection and machining to heat treatment, grinding, finishing, and final inspection—ensuring superior quality and long operational life.

• Quality Assurance

Every machine, roll, shaft, and cutter undergoes rigorous inspection throughout the manufacturing process to ensure:

- Dimensional Accuracy
- Superior Surface Finish
- High Wear Resistance
- Excellent Strength
- Reliable Performance
- Long Service Life





OUR PRODUCT RANGE

- Tube Mill Rolls
- Round Pipe Rolls
- Square Pipe Rolls
- Rectangular Pipe Rolls
- Tube Mill Fins
- Tube Mill Shaft
- Railway Coach Section Rolls
- COC cutter
- Flying Saw Cutters
- Cold Saw Cutters
- Slitting Cutters
- Separator Discs
- Tube Mill Machine
- MS & SS Cut to Length Line
- MS & SS Slitting Line
- MS ERW Tube Mill Machines
- MS Open Section Tube Mill Machines
- MS Patra/Skelp Based Tube Mill
- Tube mill Pipe Bend Testing Machine
- Tube Straightening Machine
- Auxiliary Equipment of Tube Mill





TUBE MILL ROLLS

Tube Mill Rolls are precision-engineered tooling used in ERW (Electric Resistance Welded) and other tube mills to progressively form flat metal strip into round, square, rectangular, or special-profile tubes. Their design and accuracy directly affect tube quality, dimensional tolerance, weld quality, and production efficiency.



**PRECISION
ENGINEERED**



**PREMIUM
QUALITY**



**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



KEY FEATURES



- Manufactured from premium tool steels such as D2, H13, EN31, SKD11, and Cr12.



- Precision-machined and ground for high dimensional accuracy.



- Excellent wear resistance for extended service life.



- High hardness and toughness to withstand continuous production.



- Superior surface finish to minimize marking on tubes.



- Custom-designed profiles for specific tube sizes and mill configurations.



- Heat-treated for enhanced durability and performance.



- Suitable for various materials and tube forming applications.



- Engineered for smooth operation and consistent tube quality.



TUBE MILL ROLLS – PRODUCT APPLICATIONS

Tube Mill Rolls are widely used in tube manufacturing industries where accurate forming, dimensional control, and high-quality production are essential.



ERW Tube Mills: Form and size tubes for electric resistance welded pipe production.



HF Welded Tube Mills: Ensure accurate strip forming and consistent weld preparation.



Stainless Steel Tube Manufacturing: Produce precision stainless steel tubes with excellent dimensional control.



MS and Carbon Steel Tube Production: Manufacture structural and industrial tubes.



Automotive Industry: Produce tubes for exhaust systems, chassis, steering components, and structural parts.



Construction Industry: Manufacture scaffolding pipes, structural sections, handrails, and building components.



Furniture Manufacturing: Produce round, square, and rectangular tubes used in furniture.



Agricultural Equipment: Manufacture tubes for irrigation systems, farm machinery, and greenhouse structures.



Mechanical and Engineering Industries: Produce precision tubes for machinery, conveyors, and industrial equipment.



PRECISE FORMING
ACCURATE & CONSISTENT PROFILES



LONG SERVICE LIFE
REDUCED DOWNTIME & MAINTENANCE



SUPERIOR PERFORMANCE
RELIABLE IN EXTREME CONDITIONS



ENERGY EFFICIENT
OPTIMIZED POWER CONSUMPTION

ROUND PIPE ROLLS

Round Pipe Rolls are precision-engineered tooling used in ERW (Electric Resistance Welded) tube mills and pipe manufacturing lines. They progressively form flat metal strips into round pipes while maintaining dimensional accuracy, weld alignment, and surface quality.



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PRODUCT FEATURES



- Manufactured from high-quality alloy steels such as D2, H13, EN31, HCHCR, or other tool steels.



- High wear resistance and long service life through heat treatment and precision grinding.



- CNC-machined for accurate profiles and consistent pipe dimensions.



- Available for various pipe diameters, wall thicknesses, and tube mill models.



- Suitable for carbon steel, stainless steel, galvanized steel, and other metal strips.



TYPICAL SPECIFICATIONS



- **Material:** D2, H13, EN31, HCHCR, Tool Steel



- **Hardness:** 58–62 HRC (depending on application)



- **Surface Finish:** Precision ground and polished



- **Pipe Sizes:** Custom-designed for different OD and wall thickness requirements



- **Applications:** ERW Tube Mills, Pipe Mills, Roll Forming Lines



APPLICATIONS OF ROUND PIPE ROLLS

Round Pipe Rolls are widely used in:



- **ERW Tube & Pipe Manufacturing** – Forming steel strips into round pipes before welding.



- **Steel Tube Production** – Manufacturing structural, mechanical, and precision tubes.



- **Automotive Industry** – Producing exhaust tubes, chassis tubes, and automotive components.



- **Construction Industry** – Fabricating structural pipes, scaffolding tubes, and building materials.



- **Furniture Industry** – Manufacturing tubular furniture, chairs, tables, and racks.



- **Agriculture** – Producing irrigation pipes and greenhouse tubing.



- **Oil & Gas and Industrial Fabrication** – Manufacturing process pipes and general engineering tubes.



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SQUARE PIPE ROLLS

Square Pipe Rolls are precision-engineered forming rolls used in ERW tube mills to manufacture square hollow sections (SHS). These rolls gradually shape round tubes or flat steel strips into square pipes with accurate dimensions, sharp corners, and excellent surface finish. They are designed to ensure consistent forming, proper weld alignment, and high production efficiency.



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PRODUCT FEATURES



- Manufactured from premium-grade tool steels such as D2, H13, EN31, HCHCR, and other alloy steels.



- CNC-machined and precision-ground for superior dimensional accuracy.



- Heat-treated to achieve high hardness (58–62 HRC) for excellent wear resistance.



- Designed for smooth and uniform material flow during forming.



- Available in custom sizes to suit different square pipe dimensions, wall thicknesses, and tube mill models.



- Suitable for high-speed production with long operational life.



TYPICAL SPECIFICATIONS



- Material:** D2, H13, EN31, HCHCR, Tool Steel



- Hardness:** 58–62 HRC



- Surface Finish:** Precision ground and polished



- Pipe Shape:** Square Hollow Sections (SHS)



- Pipe Sizes:** Custom-built as per customer requirements



- Compatible Materials:** Mild Steel (MS), Stainless Steel (SS), Carbon Steel, Galvanized Steel (GI)



- Application:** ERW Tube Mills, Pipe Mills, Roll Forming Machines



APPLICATIONS OF SQUARE PIPE ROLLS

Square Pipe Rolls are widely used for manufacturing square steel tubes used in:



Construction and structural engineering



Building frameworks and steel fabrication



Furniture and office equipment manufacturing



Automotive components and chassis



Solar panel mounting structures



Agricultural machinery and greenhouse frames



Industrial equipment and machine frames



Storage racks and warehouse shelving



Fencing, gates, railings, and security structures



General engineering and fabrication industries



Gym equipment and fitness machines



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RECTANGULAR PIPE ROLLS

Rectangular Pipe Rolls are precision-engineered forming rolls used in ERW tube mills to convert round tubes into rectangular hollow sections (RHS) or to directly form steel strips into rectangular pipes. These rolls ensure accurate dimensions, sharp corner formation, uniform wall thickness, and consistent weld alignment during high-speed production.



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KEY FEATURES



- Manufactured from premium tool steels such as D2, H13, EN31, HCHCR, or other alloy steels.



- CNC-machined and precision-ground for high dimensional accuracy.



- Heat-treated for high hardness (typically 58–62 HRC) and excellent wear resistance.



- Designed for smooth forming with minimal material deformation.



- Custom-engineered for different pipe sizes, corner radius, wall thicknesses, and tube mill configurations.



- Suitable for continuous, high-speed production with long service life.



TYPICAL SPECIFICATIONS



- Material:** D2, H13, EN31, HCHCR, Tool Steel



- Hardness:** 58–62 HRC



- Surface Finish:** Precision ground and polished



- Pipe Shapes:** Rectangular hollow sections (RHS)



- Pipe Sizes:** Custom sizes based on customer requirements



- Compatible Materials:** Mild Steel (MS), Stainless Steel (SS), Carbon Steel, Galvanized Steel (GI)



- Application:** ERW Tube Mills, Pipe Mills, Roll Forming Lines



APPLICATIONS OF RECTANGULAR PIPE ROLLS

Rectangular Pipe Rolls are widely used in manufacturing pipes for:



Construction and infrastructure frameworks



Door and window frame sections



Furniture and storage rack manufacturing



Automotive chassis and structural components



Industrial machinery frames



Solar panel mounting structures



Agricultural equipment and greenhouse frames



Material handling systems and conveyor structures



Warehouse shelving and industrial fabrication



Gym equipment and fitness machines



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TUBE MILL FINS

Tube Mill Fins are precision-engineered tooling components used in the fin pass section of tube mills. They progressively bend the strip edges to ensure proper alignment before welding, resulting in superior weld quality and accurate tube dimensions.



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KEY FEATURES



- Manufactured from premium tool steels such as D2, H13, SKD11, EN31, and Cr12.



- Precision-machined and CNC-ground for accurate edge forming.



- Heat-treated for high hardness, strength, and wear resistance.



- Designed to ensure precise strip edge alignment before welding.



- Excellent resistance to wear, deformation, and thermal stress.



- Delivers smooth material flow with minimal surface marking.



- Suitable for high-speed ERW, HF welded, and stainless steel tube mills.



- Available in standard and custom profiles to suit different tube sizes and mill configurations.



- Long service life with reduced maintenance requirements.



- Easy to install, adjust, and replace for improved production efficiency.



TUBE MILL FINS – PRODUCT APPLICATIONS

Tube Mill Fins are widely used in tube and pipe manufacturing to prepare metal strips for accurate welding and consistent tube formation.

APPLICATIONS



ERW Tube Mills:

Shape strip edges for precise electric resistance welding.



HF Welded Tube Mills:

Ensure proper edge alignment for high-frequency welded tubes.



Stainless Steel Tube Manufacturing:

Produce high-quality stainless-steel tubes with excellent weld consistency.



Mild Steel (MS) and Carbon Steel Tube Production:

Manufacture structural and industrial tubes with precise dimensions.



Automotive Industry:

Produce precision tubes for exhaust systems, chassis, and structural components.



Construction Industry:

Manufacture scaffolding pipes, structural tubes, handrails, and building components.



Furniture Manufacturing:

Produce round, square, and rectangular tubes used in residential and commercial furniture.



Agricultural Equipment:

Manufacture tubes for irrigation systems, greenhouse structures, and farm machinery.



Mechanical and Engineering Industries:

Produce precision tubes for machinery, conveyors, and industrial equipment.



General Tube and Pipe Manufacturing:

Support the production of tubes in various sizes and materials with consistent quality.

TUBE MILL SHAFT

Tube Mill Shafts are precision-engineered components that support and drive rolls in the forming, welding, sizing, and straightening sections of tube mills. They are designed to deliver high strength, stability, and reliable performance under continuous production conditions.



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KEY FEATURES



- Manufactured from premium alloy steels such as EN24, EN19, EN8, 42CrMo4, and AISI 4140.



- Precision-machined for accurate roll mounting and alignment.



- Heat-treated for enhanced hardness, strength, and wear resistance.



- High torsional strength to withstand heavy loads and high-speed operations.



- Excellent dimensional stability for smooth and vibration-free performance.



- Superior resistance to wear, fatigue, and corrosion for extended service life.



- Compatible with ERW, HF welded, stainless steel, and carbon steel tube mills.



- Available in standard and custom sizes to suit various tube mill configurations.



- Designed for easy installation, maintenance, and replacement.



- Engineered to ensure reliable power transmission and consistent roll performance.



TUBE MILL SHAFT – PRODUCT APPLICATIONS

Tube Mill Shafts are essential components used in tube and pipe manufacturing plants to support rolls and transmit rotational force throughout the production process.



ERW Tube Mills:

Drive and support forming, fin pass, and sizing rolls during electric resistance welded tube production.



HF Welded Tube Mills:

Ensure smooth and stable roll operation for accurate strip forming and welding.



Stainless Steel Tube Manufacturing:

Provide precision and durability for stainless steel tube production.



Mild Steel (MS) and Carbon Steel Tube Mills:

Support the manufacture of structural and industrial tubes.



Roll Forming Machines:

Used to mount and drive roll sets for shaping metal strips into various profiles.



Automotive Industry:

Produce precision tubes used in exhaust systems, chassis, steering components, and structural assemblies.



Construction Industry:

Manufacture structural pipes, scaffolding tubes, handrails, and infrastructure components.



Furniture Manufacturing:

Produce round, square, and rectangular tubes for residential, office, and commercial furniture.



Agricultural Equipment:

Manufacture tubes used in irrigation systems, greenhouse structures, and farm machinery.



Mechanical and Engineering Industries:

Support the production of precision tubes for machinery, conveyors, hydraulic systems, and industrial equipment.



RAILWAY COACH SECTION ROLLS

Railway Section Rolls are heavy-duty precision rolls used in rail and special section rolling mills for shaping steel billets into railway tracks and other complex profiles. These rolls are designed to withstand high rolling forces, impact loads, and continuous high-temperature operations while maintaining accurate section dimensions.



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KEY FEATURES



- Manufactured from high-quality alloy materials such as alloy cast steel, forged steel, adamite steel, and high-chrome materials.



- High hardness and wear resistance for extended service life.



- Precision-machined grooves and profiles for accurate rail section forming.



- Excellent thermal fatigue resistance for high-temperature rolling operations.



- High strength and toughness to withstand heavy rolling loads.



- Superior surface finish for smooth material flow and improved product quality.



- Designed for roughing, intermediate, and finishing mill stands.



- Custom-engineered roll profiles according to rail section specifications.



- Heat-treated for improved mechanical properties and durability.



- Resistant to cracking, spalling, and deformation under continuous operation.



- Suitable for high-speed and heavy-section rolling applications.



- Available in customized dimensions, roll grades, and groove designs.



RAILWAY SECTION ROLLS – PRODUCT APPLICATIONS

Railway Section Rolls are widely used in steel rolling mills for producing rails and other heavy structural sections.



Rail Manufacturing Mills:

Produce railway tracks, crane rails, and special rail profiles.



Heavy Section Rolling Mills:

Manufacture large structural steel sections with precise dimensions.



Infrastructure Projects:

Support production of rails used in railway networks, bridges, and transportation systems.



Metro and Urban Rail Systems:

Used for manufacturing rail sections for metro tracks and rapid transit systems.



Crane Rail Production:

Manufacture rails used in ports, factories, warehouses, and material handling systems.



Steel Fabrication Industry:

Produce special profiles and structural sections for engineering applications.



Agricultural Sector:

Production of pipes for irrigation systems, greenhouse structures, and agricultural machinery.



Railway Component Manufacturing:

Support production of high-strength rail products for transportation infrastructure.



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COC CUTTER

Precision Cutting for Continuous Performance

COC (Cut-Off Carriage) Cutters are precision cutting tools used in continuous tube and pipe mills to cut moving tubes into required lengths without stopping the production line. They are designed for high-speed, accurate cutting operations in ERW and HF welded tube manufacturing.



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KEY FEATURES



- Designed for continuous in-line cutting of moving tubes and pipes.



- Provides accurate cut lengths with minimal tube deformation.



- Manufactured from high-quality tool materials such as H13, D2, HSS, and carbide-tipped materials.



- High wear resistance for extended service life.



- Precision-ground cutting edges for clean and consistent cuts.



- Suitable for high-speed ERW, HF welded, and stainless steel tube mills.



- Optimized cutting geometry for different tube materials and wall thicknesses.



- Reduces burr formation and improves end-face quality.



- Excellent resistance to impact, heat, and mechanical stress.



- Available in customized sizes and designs according to tube mill specifications.



- Easy replacement and maintenance to reduce production downtime.



- Designed for reliable performance in continuous production environments.



COC CUTTER – PRODUCT APPLICATIONS

COC Cutters are widely used in tube and pipe manufacturing industries where automatic cut-to-length operations are required.



ERW Tube Mills:

Cut continuously produced welded tubes into required lengths.



HF Welded Pipe Mills:

Provide accurate cutting after forming, welding, and sizing operations.



Stainless Steel Tube Production:

Produce clean and precise tube sections with minimal surface damage.



Mild Steel (MS) and Carbon Steel Pipe Manufacturing:

Used for cutting structural and industrial pipes.



Automotive Industry:

Manufacture accurately sized tubes for exhaust systems, chassis components, and vehicle assemblies.



Construction Industry:

Cut structural pipes, scaffolding tubes, and building support sections.



Furniture Industry:

Produce cut-to-length tubes for furniture frames and fabrication.



Mechanical and Engineering Industries:

Used for precision tubes required in machinery, conveyors, and equipment.



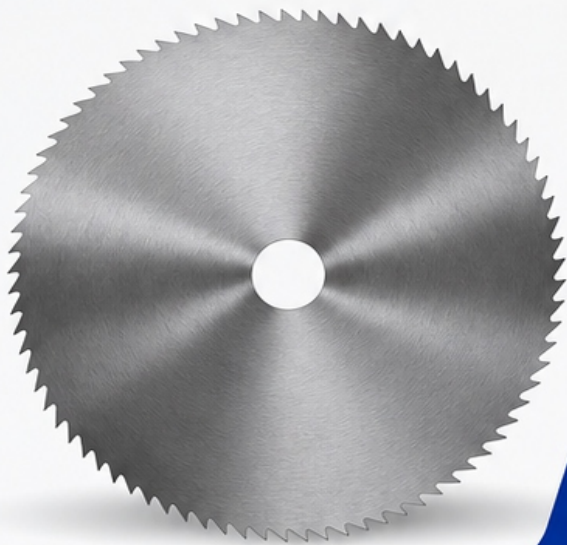
Hydraulic and Pneumatic Tube Manufacturing:

Provide accurate tube lengths for fluid handling applications.



General Tube Processing Lines:

Support automated high-speed production where continuous cutting is required.



FLYING SAW CUTTERS

Flying Saw Cutters are high-precision cutting tools used in continuous tube and pipe production lines to cut moving tubes into required lengths without stopping the production process. They are commonly installed in **ERW, HF welded, and precision tube mills** high-speed, automated cutting operations.



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KEY FEATURES



- Designed for continuous in-line cutting of moving tubes and pipes.



- High cutting accuracy with minimal burr formation.



- Manufactured from high-quality tool steels such as **HSS, D2, H13, SKD11, and carbide-tipped materials**.



- Precision-ground cutting edges for smooth and consistent performance.



- High wear resistance for extended tool life.



- Suitable for high-speed tube mill operations.



- Optimized tooth geometry for efficient cutting and reduced material loss.



- Excellent heat resistance and mechanical strength.



- Custom sizes and specifications available based on pipe diameter, wall thickness, and production requirements.



- Easy replacement and maintenance to reduce production downtime.



FLYING SAW CUTTERS – PRODUCT APPLICATIONS

Flying Saw Cutters are widely used in tube and pipe manufacturing industries where accurate, continuous cutting is required.



ERW Tube Mills:

Cut welded steel tubes into specified lengths during continuous production.



HF Welded Pipe Mills:

Provide precise cutting after the welding and sizing process.



Stainless Steel Tube Production:

Cut stainless steel pipes with clean edges and minimal deformation.



Mild Steel (MS) and Carbon Steel Pipe Manufacturing:

Used for structural and industrial pipe cutting.



Automotive Industry:

Produce accurately sized tubes for exhaust systems, chassis components, and automotive assemblies.



Construction Industry:

Cut structural tubes, scaffolding pipes, and building support sections.



Furniture Industry:

Manufacture cut-to-length tubes for furniture frames and assemblies.



Mechanical Engineering Applications:

Produce precision-cut tubes for machinery, conveyors, and industrial equipment.



Hydraulic and Pneumatic Tube Manufacturing:

Ensure accurate tube lengths for fluid handling systems.



General Pipe and Tube Processing Lines:

Used wherever continuous production and automatic cutting are required.



COLD SAW CUTTERS

Cold Saw Cutters are precision cutting tools used in tube and pipe mills for cutting tubes and profiles into accurate lengths while maintaining excellent surface finish and dimensional accuracy. Unlike abrasive cutting, cold saw cutting uses a toothed circular blade that removes material with minimal heat generation, reducing deformation and improving cut quality.



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KEY FEATURES



- Manufactured from high-quality materials such as HSS (High-Speed Steel), M2, M35, carbide-tipped, and coated cutting materials.



- Precision-ground teeth for accurate and smooth cutting performance.



- Produces clean cuts with minimal burr formation.



- Low heat generation compared to abrasive cutting methods.



- High wear resistance for extended service life.



- Suitable for high-speed ERW, HF welded, stainless steel, and carbon steel tube mills.



- Optimized tooth geometry for different tube materials and wall thicknesses.



- Excellent cutting accuracy with consistent length control.



- Available in customized diameters, thicknesses, tooth profiles, and coatings.



- Designed for continuous production with reduced maintenance requirements.



- Provides better surface finish and reduced post-cut processing.



- Designed for reliable performance in demanding production environments.



COLD SAW CUTTERS – PRODUCT APPLICATIONS

Cold Saw Cutters are widely used in tube and pipe manufacturing industries where precise, high-quality cutting is required.



ERW Tube Mills:

Cutting welded tubes into required lengths with accurate dimensions.



HF Welded Pipe Mills:

Used after forming and welding operations for precision tube cutting.



Stainless Steel Tube Manufacturing:

Producing clean, deformation-free stainless steel tube sections.



Mild Steel (MS) and Carbon Steel Pipe Production:
Cutting structural and industrial pipes.



Automotive Industry:

Manufacturing precision tubes for exhaust systems, chassis parts, and structural components.



Construction Industry:

Cutting scaffolding pipes, structural tubes, and building support sections.



Furniture Manufacturing:

Producing accurately sized tubes for furniture frames and assemblies.



Mechanical and Engineering Industries:

Cutting tubes used in machinery, conveyors, and industrial equipment.



Hydraulic and Pneumatic Tube Applications:

Producing precise tube lengths for fluid handling systems.



General Tube Processing Lines:

Used for automatic cut-to-length operations in continuous production plants.

SLITTING CUTTERS

Slitting Cutters are precision cutting tools used to cut wide metal coils or strips into narrower strips of required widths. They are widely used in tube and pipe manufacturing lines, especially in ERW tube mills, where slit strips are used as raw material for tube forming and welding.



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KEY FEATURES



- Manufactured from high-quality materials such as D2, D3, H13, SKD11, HSS, and carbide materials.



- Precision-ground cutting edges for accurate and clean slitting.



- High hardness and wear resistance for extended service life.



- Excellent dimensional accuracy for consistent strip width control.



- Designed for high-speed continuous slitting operations.



- Superior edge finish with minimal burr formation.



- Resistant to impact, abrasion, and deformation.



- Available in various diameters, thicknesses, bore sizes, and profiles.



- Suitable for processing carbon steel, stainless steel, galvanized steel, and alloy steel strips.



- Customized designs available according to machine specifications and production requirements.



SLITTING CUTTERS – PRODUCT APPLICATIONS

Slitting Cutters are essential components in coil processing and tube manufacturing industries where precise strip preparation is required.



ERW Tube Mills:

Slit wide steel coils into accurate strip widths for tube production.



HF Welded Tube Mills:

Prepare strips with precise edges for high-frequency welding processes.



Stainless Steel Tube Manufacturing:

Process stainless steel coils into strips for precision tube production.



Carbon Steel and Mild Steel Tube Production:

Provide correctly sized strips for structural and industrial pipes.



Automotive Industry:

Prepare strips used for manufacturing exhaust pipes, chassis tubes, and precision components.



Construction Industry:

Produce strips for structural tube and pipe manufacturing.



Appliance and Fabrication Industries:

Used for processing sheet metal strips for various components.



Metal Service Centers:

Used for coil slitting and material preparation.



Electrical and Engineering Industries:

Process steel strips for industrial and precision applications.

SEPARATOR DISCS

Separator Discs are precision-engineered components used in slitting lines and tube mill coil processing systems to maintain proper spacing and alignment between slit steel strips. They ensure smooth strip handling, prevent edge damage, and improve the overall efficiency of coil processing operations.



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KEY FEATURES



- Manufactured from high-quality materials such as D2, D3, EN31, H13, polyurethane, and hardened steel.



- Precision-machined for accurate thickness and diameter control.



- Excellent wear resistance for long service life.



- Maintains accurate strip spacing during slitting operations.



- High dimensional stability under continuous production conditions.



- Provides smooth strip movement and reduces friction-related damage.



- Available in various outer diameters, inner diameters, and thicknesses.



- Suitable for carbon steel, stainless steel, galvanized steel, and alloy steel processing.



- Customized according to slitting machine specifications and strip width requirements.



- Designed for easy installation, replacement, and maintenance.



SEPARATOR DISCS – PRODUCT APPLICATIONS

Separator Discs are widely used in coil processing and tube manufacturing industries where accurate strip separation and handling are required.



ERW Tube Mills:

Maintain proper spacing of slit strips before tube forming operations.



HF Welded Tube Mills:

Support efficient strip handling for high-frequency welded pipe production.



Slitting Lines:

Used between slitting knives to separate and guide processed steel strips.



Stainless Steel Coil Processing:

Ensure smooth handling of stainless-steel strips with minimal surface damage.



Carbon Steel and Mild Steel Processing:

Maintain strip alignment during coil preparation.



Automotive Industry:

Support production of precision strips used for automotive tube and component manufacturing.



Construction Industry:

Used in processing steel strips for structural tube production.



Metal Service Centres:

Assist in coil slitting and strip preparation operations.



Engineering and Fabrication Industries:

Enable accurate material handling for downstream manufacturing processes.



TUBE MILL MACHINE

A Tube Mill Machine is a high-performance industrial system used to manufacture welded steel tubes and pipes from metal strips or coils. The machine continuously forms the strip into a tubular shape, welds the edges using high-frequency electric resistance welding (ERW), and then sizes, straightens, and cuts the finished tubes to the required dimensions. Tube Mill Machines are widely used for producing round, square, rectangular, and other custom-shaped tubes.



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PRODUCT FEATURES

-  Heavy-duty fabricated steel construction for maximum stability.
-  High-precision forming and sizing roll stands.
-  High-frequency welding system for strong and consistent welds.
-  PLC-based control system with user-friendly operation.
-  Variable speed drive for efficient production.
-  Quick roll changeover for different tube sizes.
-  Precision flying saw or cut-off unit for accurate tube lengths.
-  Low maintenance and energy-efficient design.
-  Suitable for continuous, high-speed production.



TYPICAL SPECIFICATIONS

-  **Machine Type:** ERW Tube Mill Machine
-  **Pipe Shapes:** Round, Square, Rectangular, Oval, and Custom Profiles
-  **Raw Material:** Mild Steel (MS), Carbon Steel, Stainless Steel (SS), Galvanized Steel (GI)
-  **Production Speed:** Depending on tube size and material thickness
-  **Tube Diameter Range:** Customizable as per customer requirements
-  **Wall Thickness:** Suitable for various thickness ranges
-  **Control System:** PLC with HMI (optional)
-  **Power Supply:** Three-phase Industrial Power
-  **Operation:** Semi-Automatic or Fully Automatic



APPLICATIONS OF TUBE MILL MACHINE

Tube Mill Machines are widely used in:

-  ERW steel tube and pipe manufacturing
-  Structural steel tube production
-  Automotive component manufacturing
-  Furniture and tubular product manufacturing
-  Construction and infrastructure projects
-  Oil & gas and industrial piping
-  Agricultural equipment and irrigation systems
-  Solar panel mounting structures
-  Mechanical and general engineering industries
-  Electrical conduit and scaffolding pipe production



PRECISE FORMING
ACCURATE & CONSISTENT PROFILES



LONG SERVICE LIFE
REDUCED DOWNTIME & MAINTENANCE



SUPERIOR PERFORMANCE
RELIABLE IN EXTREME CONDITIONS



ENERGY EFFICIENT
OPTIMIZED POWER CONSUMPTION



MS & SS CUT TO LENGTH LINE

MS & SS Cut to Length (CTL) Lines are advanced coil processing systems used to uncoil, level, and cut steel coils into accurately measured flat sheets or plates of required lengths. These lines are designed for processing **Mild Steel (MS), Stainless Steel (SS), carbon steel, galvanized steel, and alloy steel coils** with high precision and productivity.



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ENGINEERED**



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QUALITY**



**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



KEY FEATURES



- Designed for high-precision coil-to-sheet processing.



- Suitable for processing MS, SS, carbon steel, galvanized steel, and alloy steel materials.



- High cutting accuracy with consistent sheet length control.



- Precision leveling system to remove coil curvature and flatness defects.



- Heavy-duty machine structure for stable operation.



- Advanced automation system for improved productivity.



- Suitable for various coil widths, thicknesses, and material grades.



- High-speed operation with reduced material wastage.



- Accurate sheet stacking and handling system.



- Quick setup and easy changeover between different production requirements.



- Low maintenance design for continuous industrial operation.



- Customizable according to customer requirements and production capacity.



MS & SS CUT TO LENGTH LINE – PRODUCT APPLICATIONS

MS & SS Cut to Length Lines are widely used in industries requiring accurately cut sheets from steel coils for further manufacturing and fabrication.



Automotive Industry:

Production of accurately sized steel sheets for vehicle body parts, chassis components, and automotive assemblies.



Construction Industry:

Processing sheets used for structural fabrication, roofing, panels, and building components.



Stainless Steel Fabrication:

Cutting SS sheets for kitchen equipment, industrial machinery, architectural applications, and fabrication work.



Engineering Industries:

Supply of flat sheets for machinery parts, equipment manufacturing, and industrial components.



Appliance Industry:

Processing steel sheets used in refrigerators, washing machines, electrical cabinets, and other appliances.



Solar Energy Sector:

Producing sheets and plates for solar mounting structures and support systems.



Electrical Industry:

Manufacturing sheets for panels, enclosures, transformers, and electrical equipment.



Heavy Fabrication Industry:

Providing cut-to-length plates for tanks, structures, and industrial fabrication projects.



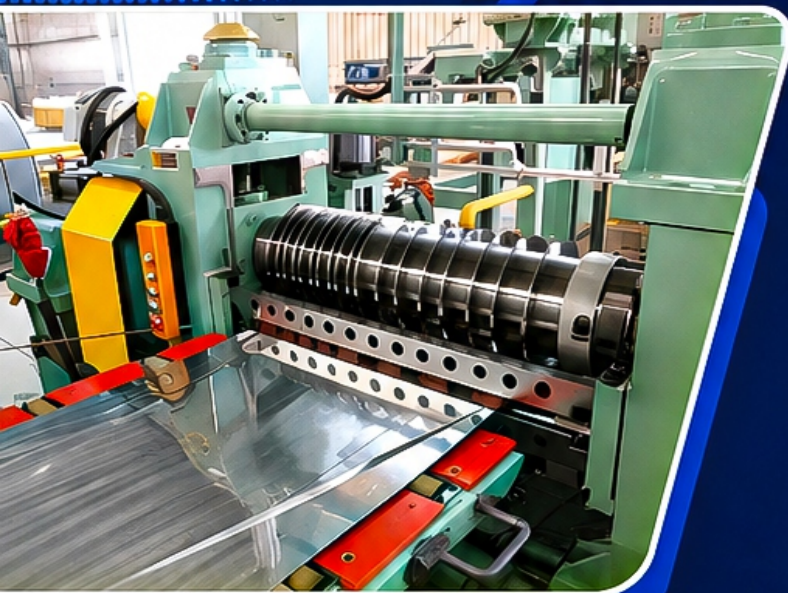
Metal Service Centers:

Converting large coils into customer-specific sheet sizes for distribution and further processing.



General Manufacturing:

Used for producing flat steel sheets required in various industrial and commercial applications.



MS & SS SLITTING LINE

MS & SS Slitting Lines are precision coil processing machines used for converting wide steel coils into multiple narrow strips of required widths. These lines are widely used for preparing raw material for ERW tube mills, pipe manufacturing, fabrication, and various industrial applications.



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QUALITY**



**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



KEY FEATURES



- Designed for slitting Mild Steel (MS), Stainless Steel (SS), carbon steel, galvanized steel, and alloy steel coils.



- High-precision cutting system for accurate strip width control.



- Equipped with high-quality slitting cutters and separator discs for clean strip edges.



- Heavy-duty machine structure for stable operation.



- Precision-machined shafts and tooling for accurate alignment.



- High-speed operation with consistent strip quality.



- Automatic tension control for smooth strip winding.



- Suitable for different coil thicknesses and widths.



- Quick tool change system for reduced setup time.



- Low material wastage through optimized cutting accuracy.



- Custom-designed according to production capacity and strip requirements.



MS & SS SLITTING LINE – PRODUCT APPLICATIONS

MS & SS Slitting Lines are widely used in industries requiring accurately sized steel strips for further processing.



ERW Tube Mills:

Preparation of slit strips used for manufacturing welded tubes and pipes.



HF Welded Pipe Mills:

Supply accurately sized strips for high-frequency welding operations.



Stainless Steel Tube Manufacturing:

Processing SS coils into narrow strips for precision tube production.



Automotive Industry:

Producing slit strips used for exhaust systems, chassis components, and automotive parts.



Construction Industry:

Preparing steel strips for structural tubes, fabrication products, and building components.



Metal Service Centers:

Coil processing and customized strip width production for customers.



Electrical and Engineering Industries:

Manufacturing precision strips for industrial components, equipment, and machinery.



Furniture Industry:

Providing slit steel strips for tube and profile manufacturing used in furniture production.



Appliance and Fabrication Industries:

Processing stainless steel and mild steel strips for various fabricated products.



Solar Structure Manufacturing:

Preparing steel strips used for solar mounting structures and support systems.

MS ERW TUBE MILL MACHINES

MS ERW (Mild Steel Electric Resistance Welded) Tube Mill Machines are high-performance production lines used for manufacturing welded mild steel tubes and pipes from steel strips. These machines continuously form, weld, size, and cut steel strips into accurately dimensioned tubes using high-frequency or electric resistance welding technology.



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**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



KEY FEATURES



- Designed for continuous production of MS (mild steel) tubes and pipes.



- Uses ERW/HF welding technology for strong and reliable weld joints.



- High-speed production with consistent tube quality.



- Precision roll forming system for accurate tube dimensions.



- Heavy-duty machine structure for stable operation.



- CNC-machined tube mill rolls for excellent forming accuracy.



- Automatic control systems for improved productivity and reduced operator dependency.



- Adjustable forming and sizing sections for different tube sizes.



- High-speed operation with consistent tube quality.



- Precision-machined shafts and tooling for accurate alignment.



- Built for long service life with low maintenance requirements.



- Customizable as per customer specifications and production requirements.



MS ERW TUBE MILL MACHINES – PRODUCT APPLICATIONS

MS ERW Tube Mill Machines are widely used for manufacturing mild steel welded tubes and pipes used across various industries.



Construction Industry:

Manufacturing structural pipes, scaffolding tubes, support sections, and building frameworks.



Automotive Industry:

Producing exhaust pipes, chassis components, automotive structural tubes, and precision parts.



Furniture Industry:

Manufacturing round, square, and rectangular tubes for chairs, tables, beds, and office furniture.



Engineering Industries:

Producing tubes for machinery, conveyors, equipment frames, and industrial applications.



Agricultural Sector:

Manufacturing irrigation pipes, greenhouse structures, and farm equipment components.



Infrastructure Projects:

Producing pipes used in bridges, railings, towers, and general fabrication.



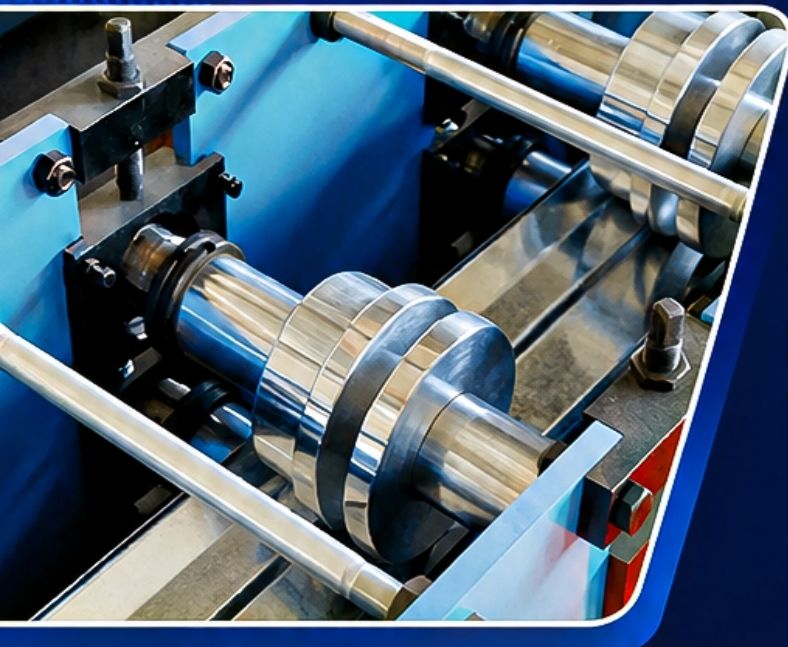
Water and Utility Applications:

Manufacturing pipes for low-pressure fluid transportation and utility systems.



Solar and Renewable Energy Structures:

Producing tubular sections for solar panel mounting structures and support frames.



MS OPEN SECTION TUBE MILL MACHINES

MS Open Section Tube Mills are specialized tube forming machines used for manufacturing steel (MS) open profiles and sections such as channels, angles, C-sections, U-sections, and other customized structural profiles. These mills use a continuous roll forming process to shape steel strips into required open section profiles.



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QUALITY**



**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



KEY FEATURES



- Designed for continuous production of MS open sections and structural profiles.



- Uses precision roll forming technology for accurate profile shaping.



- Suitable for manufacturing C, U, L, Z, channel, and customized open sections.



- Heavy-duty machine structure for stable operation and long service life.



- High-quality forming rolls manufactured from alloy tool steels for extended durability.



- Precision-machined roll stations ensure accurate dimensions and profile consistency.



- Adjustable forming stands for producing different section sizes.



- High production speed with reduced material wastage.



- Automatic control systems for improved productivity and process stability.



- Suitable for processing mild steel strips and coils of various thicknesses.



- Provides excellent dimensional accuracy and surface finish.



- Modular design allows easy maintenance and quick changeover.



- Customizable according to profile shape, material thickness, and production requirements.



MS OPEN SECTION TUBE MILL – PRODUCT APPLICATIONS

MS Open Section Tube Mills are widely used for manufacturing structural and industrial steel profiles used across multiple sectors.



Construction Industry:

Production of C-channels, U-channels, purlins, framing sections, and structural supports for buildings.



Infrastructure Projects:

Manufacturing steel sections used in bridges, industrial sheds, warehouses, and heavy structures.



Automotive Industry:

Production of open profiles used in vehicle frames, chassis components, and support structures.



Furniture and Interior Applications:

Producing lightweight structural profiles for furniture frames and assemblies.



Agricultural Equipment:

Manufacturing profiles used in farm machinery, greenhouse structures, and storage systems.



Solar Mounting Structures:

Manufacturing MS channels and profiles used for solar panel support systems.



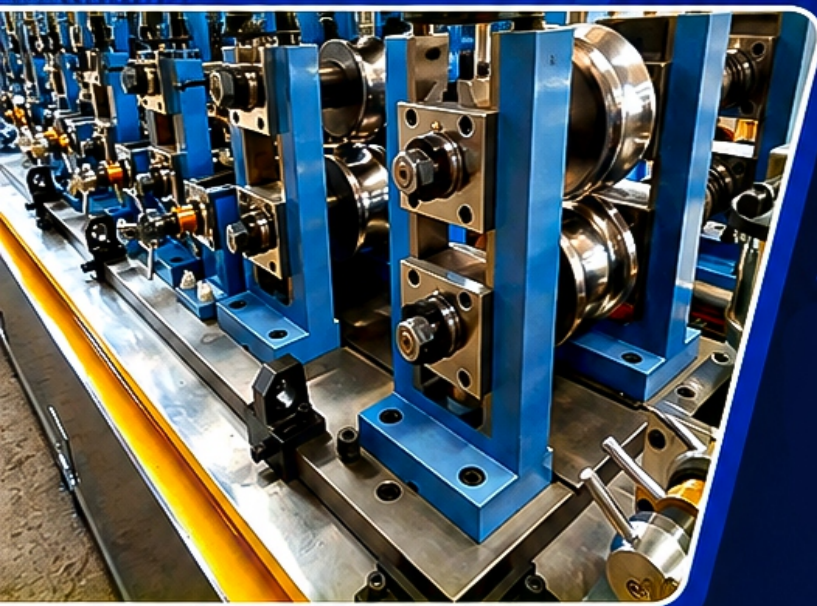
Water and Utility Applications:

Manufacturing pipes for low-pressure fluid transportation and utility systems.



Railway and Transportation Applications:

Producing specialized open sections for structural and fabrication requirements.



MS PATRA / SKELP BASED TUBE MILL

MS Patra/Skelp Based Tube Mills are tube manufacturing machines designed to produce mild steel (MS) pipes and tubes using pre-cut steel strips (patra/skelp) as raw material. These mills continuously form, weld, size, and cut steel strips into round, square, and rectangular sections using ERW/HF welding technology.



**HIGH PRECISION
ENGINEERING**



**RELIABLE &
DURABLE**



**HIGH SPEED
PRODUCTION**



**AUTOMATIC
CONTROL**



**ENERGY
EFFICIENT**



KEY FEATURES



- Designed for continuous production of MS welded tubes and pipes from skelp (steel strips).



- Uses high-frequency ERW/HF welding technology for strong and uniform weld joints.



- Precision roll forming system for accurate tube shape and dimensions.



- Heavy-duty machine frame for stable operation and long service life.



- CNC-machined tube mill rolls for consistent forming performance.



- Suitable for manufacturing round, square, and rectangular MS tubes.



- Adjustable roll stands for different tube sizes and specifications.



- High production speed with reduced material wastage.



- Automatic control systems for improved productivity and process stability.



- Robust design suitable for continuous industrial operation.



- Energy-efficient operation with optimized power consumption.



- Customizable according to pipe diameter, wall thickness, and production capacity.



MS PATRA / SKELP BASED TUBE MILL – PRODUCT APPLICATIONS



Construction Industry:

Production of structural tubes, scaffolding pipes, support sections, handrails, and building frameworks.



Automotive Industry:

Manufacturing tubes used in vehicle structures, exhaust systems, chassis components, and automotive assemblies.



Furniture Industry:

Production of round, square, and rectangular tubes for chairs, tables, office furniture, and home furniture.



Engineering Industries:

Manufacturing precision tubes for machinery, equipment frames, conveyors, and fabrication applications.



Agricultural Sector:

Production of pipes for irrigation systems, greenhouse structures, and agricultural machinery.



Infrastructure Projects:

Manufacturing pipes used in bridges, towers, railings, and industrial structures.



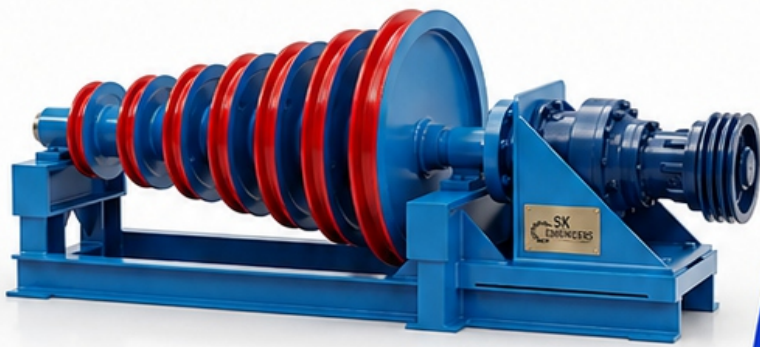
Solar Structure Manufacturing:

Production of MS tubular sections used for solar panel mounting systems and support structures.



General Fabrication Industry:

Manufacturing tubes for gates, grills, frames, and various fabricated products.



TUBE MILL PIPE BEND TESTING MACHINE

A Pipe Bend Testing Machine is a precision testing equipment used to evaluate the bendability, ductility, and structural integrity of metal pipes and tubes. It performs controlled bend tests to ensure that pipes can withstand specified bending angles without cracking, breaking, or excessive deformation. These machines are widely used in quality control laboratories, manufacturing plants, and testing facilities for compliance with national and international standards.



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QUALITY**



**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



KEY FEATURES

- Heavy-duty and robust construction
- High testing accuracy
- Hydraulic or motorized operation
- Easy and user-friendly controls
- Adjustable bending angle up to 180°
- Suitable for various pipe diameters
- Interchangeable bending dies
- Smooth and vibration-free operation
- Low maintenance design
- Fast testing cycle
- Long service life
- Compact floor-mounted structure
- Compliance with international testing standards
- Accurate and repeatable test results
- Custom-built models available



PRODUCT DETAILS

Product Name: Pipe Bend Testing Machine

Machine Type: Hydraulic / Motorized / Manual (depending on model)

Testing Purpose:

- Bend test of metal pipes and tubes
- Verification of ductility and weld quality
- Quality control inspection

Suitable Materials:

- Mild Steel (MS), Stainless Steel (SS), Carbon Steel, GI Pipes, Copper Tubes, Aluminum Tubes, Alloy Steel Tubes

Pipe Diameter Capacity: Custom size based on customer requirements

Typical Specifications:

- **Material:** D2, H13, EN31, HCHCR, Tool Steel
- **Hardness:** 58–62 HRC
- **Surface Finish:** Precision ground and polished
- **Pipe Shape:** Round / Square / Rectangular (as per model)
- **Pipe Sizes:** Custom sizes based on customer requirements
- **Compatible Materials:** Mild Steel (MS), Stainless Steel (SS), Carbon Steel, Galvanized Steel (GI)
- **Application:** ERW Tube Mills, Pipe Mills, Roll Forming Machines



APPLICATIONS OF PIPE BEND TESTING MACHINE

Pipe Bend Testing Machines are widely used in:

- | | | |
|---|--|---|
|  ERW Pipe Manufacturing Plants |  Heat Exchanger Tube Manufacturers |  Quality Control Laboratories |
|  Steel Tube Manufacturing Industries |  Construction Material Testing Laboratories |  Aerospace Component Manufacturers |
|  Stainless Steel Pipe Manufacturers |  Government Testing Laboratories |  Railway Component Manufacturing Units |
|  Automotive Component Industries |  Third-Party Inspection Agencies |  Defence Manufacturing Industries |
|  Oil & Gas Pipeline Manufacturers |  Research & Development Centers |  Metal Fabrication Industries |
|  Boiler Tube Manufacturers |  Engineering Colleges and Universities |  Pipe Export Inspection Facilities |



PRECISE FORMING
ACCURATE & CONSISTENT PROFILES



LONG SERVICE LIFE
REDUCED DOWNTIME & MAINTENANCE



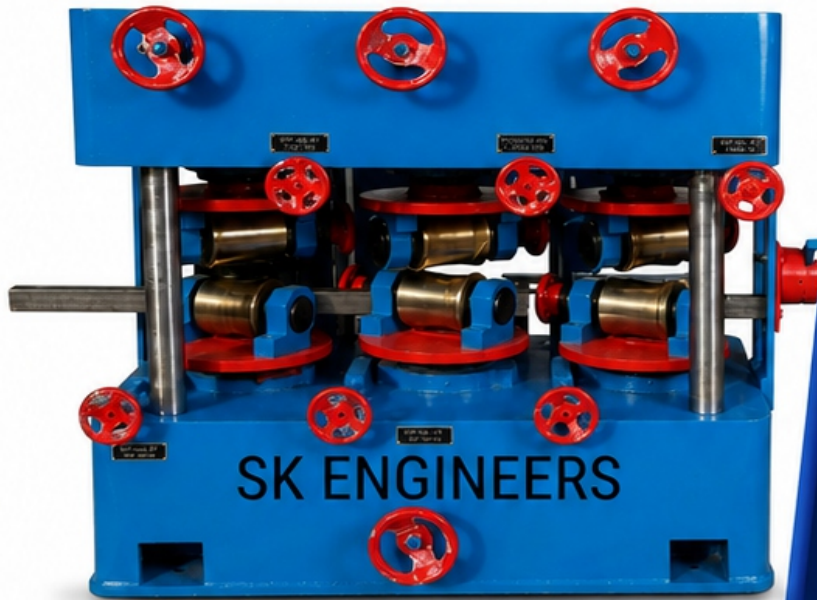
SUPERIOR PERFORMANCE
RELIABLE IN EXTREME CONDITIONS



ENERGY EFFICIENT
OPTIMIZED POWER CONSUMPTION

TUBE STRAIGHTENING MACHINE

A Tube Straightening Machine is a precision industrial machine used to remove bends, twists, and distortions from steel tubes and pipes after the manufacturing process. It ensures that tubes meet the required straightness, dimensional accuracy, and surface quality before further processing, cutting, threading, galvanizing, or dispatch. These machines are widely used in ERW tube mills, seamless pipe plants, and metal fabrication industries.



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**MAXIMUM
PERFORMANCE**



**LONG LASTING
DURABILITY**



PRODUCT FEATURES

- Heavy-duty fabricated steel construction for vibration-free operation.
- Multi-roll straightening system for accurate and uniform straightening.
- Precision-engineered alloy steel rolls with high wear resistance.
- Adjustable roll positions for different tube diameters and wall thicknesses.
- Variable speed drive for smooth and efficient operation.
- Easy machine setup with low maintenance requirements.
- Suitable for continuous production and high-volume manufacturing.
- Available in manual, semi-automatic, and fully automatic models.



TYPICAL SPECIFICATIONS

	Machine Type:	Tube/Pipe Straightening Machine
	Roll Configuration:	5-Roll, 6-Roll, 7-Roll, or custom configurations
	Roll Material:	Alloy Steel / Tool Steel
	Tube Diameter Range:	Customizable based on customer requirements
	Wall Thickness:	Suitable for various tube thicknesses
	Operating Speed:	Variable depending on tube size and production requirements
	Power Source:	Electric Motor
	Application:	ERW Tubes, Seamless Pipes, Stainless Steel Tubes, Carbon Steel Pipes, Galvanized Tubes
	Operation:	Semi-Automatic or Fully Automatic



APPLICATIONS OF TUBE STRAIGHTENING MACHINE

Tube Straightening Machines are widely used in:

- | | | | |
|--|---|--|--|
| ERW tube and pipe manufacturing plants | Structural steel tube production | Construction and infrastructure industries | Mechanical and general engineering industries |
| Seamless pipe production units | Automotive component manufacturing | Oil & gas pipeline component production | Electrical conduit and scaffolding pipe production |
| Stainless steel tube manufacturing | Furniture and tubular product manufacturing | Agricultural equipment manufacturing | Solar panel mounting structures |



**ACCURATE STRAIGHTENING
ENSURES PERFECT ALIGNMENT**



**HEAVY-DUTY & DURABLE
BUILT FOR LONG LIFE**



**HIGH SPEED & EFFICIENT
MAXIMIZES PRODUCTION**



**LOW MAINTENANCE
COST EFFECTIVE OPERATION**

AUXILIARY EQUIPMENT OF TUBE MILL

- 01 Entry Guide Unit**
The Entry Guide Unit accurately guides the strip into the forming section of the tube mill.
- 02 Side Guide Unit**
Used after the forming section to maintain strip alignment before welding.
- 03 Strip Edge Milling Unit**
Removes burrs and prepares strip edges before welding for high-quality weld seams.
- 04 Strip Accumulator**
Stores steel strip temporarily, allowing continuous tube production during coil joining.
- 05 High Frequency Welding Unit**
Produces high-frequency electrical energy for welding strip edges into tubes.
- 06 Impeder**
A magnetic component installed inside the pipe during HF welding to concentrate the magnetic field and improve weld efficiency.
- 07 Squeeze Roll Assembly**
Applies pressure to the heated strip edges during welding to form a strong weld.
- 08 Weld Bead Scarfing Unit**
Removes internal and external weld beads after welding.
- 09 Cooling System**
Cools welded tubes immediately after welding.
- 10 Turk's Head Unit**
Straightens and sizes the welded tube before cutting.
- 11 Flying Cut-Off Machine**
Cuts continuously moving tubes into required lengths without stopping the production line.
- 12 Run-Out Table**
Transfers finished pipes from the cut-off machine for inspection and collection.
- 13 Pipe Stacker**
Automatically collects and stacks finished pipes.
- 14 Pipe Conveyor**
Transports pipes between different stages of production.
- 15 Roll Stand**
Supports forming, sizing, and finishing rolls during pipe manufacturing.
- 16 Tube Mill Rolls**
Specially designed rolls used for forming flat steel strips into round, square, or rectangular tubes.
- 17 Roll Spacer**
Maintains accurate spacing between tube mill rolls.
- 18 Roll Shaft**
Supports rolls and transmits torque from the drive system.
- 19 Universal Joint Spindle**
Transmits rotational power between the gearbox and roll shafts.
- 20 Drive Gearbox**
Delivers synchronized power to the roll stands.
- 21 Coil Car**
Transports steel coils to the uncoiler for loading.
- 22 Uncoiler, (Decoiler)**
Holds and unwinds steel coils to feed the strip into the tube mill.
- 23 Shear & End Welder**
Cuts strip ends and welds consecutive coils together to maintain continuous production.
- 24 Straightening Machine**
Corrects the straightness of finished tubes after production.
- 25 Hydrostatic Testing Machine**
Tests the pressure resistance and leak-tightness of finished pipes using water pressure.
- 26 Pipe End Facing & Chamfering Machine**
Machines the pipe ends to produce a smooth face and chamfer for welding or assembly.
- 27 Pipe Bend Testing Machine**
Tests the bendability and ductility of pipes by bending them to specified angles without failure.

INDUSTRIES WE SERVE

Steel Processing Industry



Tube Manufacturing Plants



Automotive Industry



Construction Industry



Pipe Manufacturing



Railway Industry



Industrial Fabrication





SK Group of Companies

SK Engineers

SK Enterprises

SKR Rolls Pvt. Ltd.

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