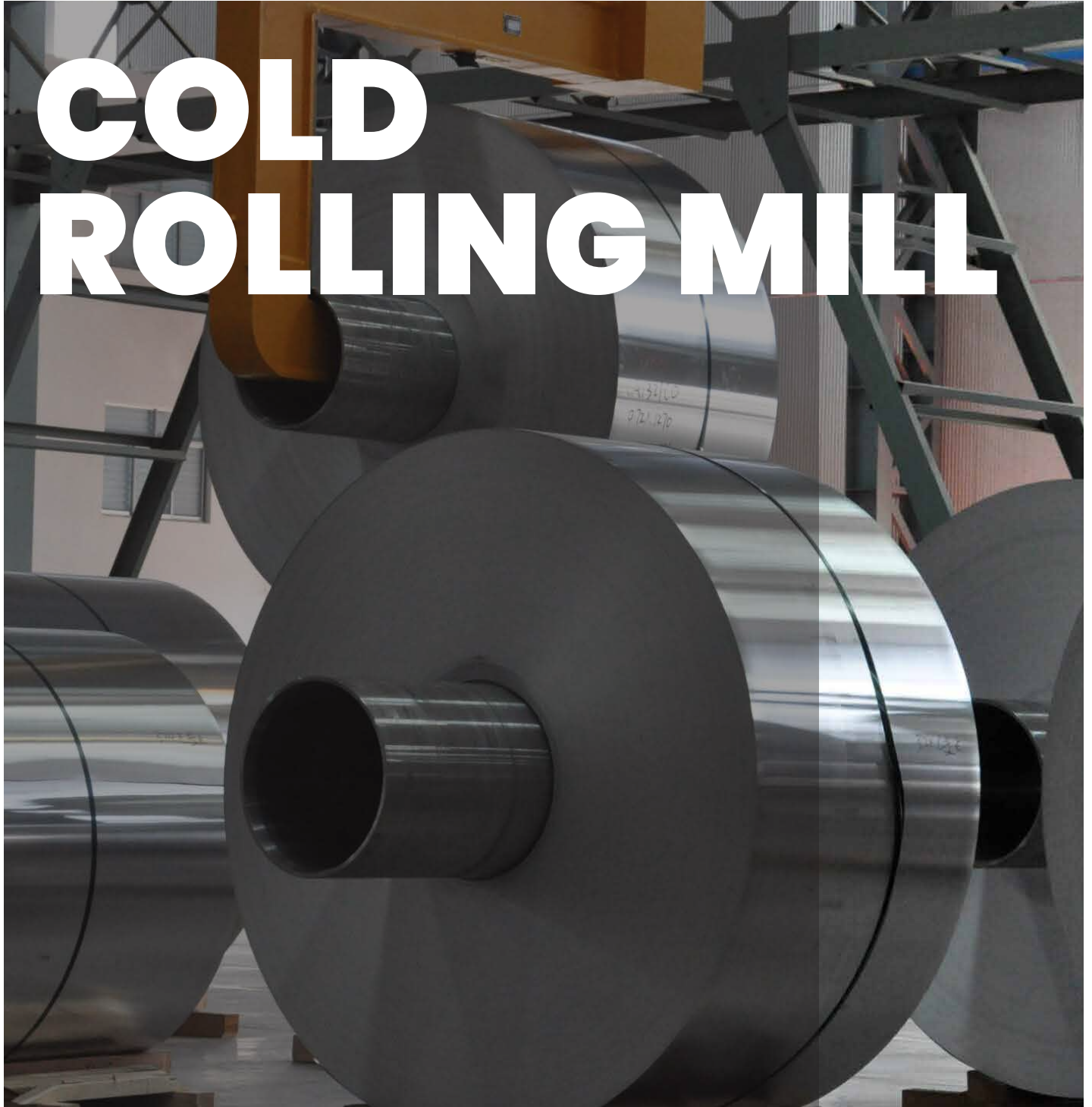
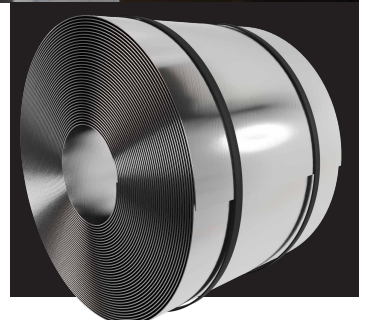


COLD ROLLING MILL



**Complete list of our products for
the Cold Rolling Process.**



COLD ROLLING MILL FORGED ROLLS



Forged Rolls are essential components in the cold rolling process, where they are used to shape and compress metal sheets to achieve precise thickness and surface finishes. Forged rolls are known for their superior strength, durability, and resistance to wear. Their ability to withstand the intense pressures and stresses of cold rolling makes them indispensable for producing thin, high-strength steel

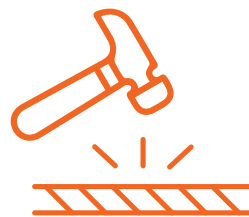
Work Rolls	Backup Rolls	Intermediate Rolls
		
Skin Pass Rolls	Sendzimir Rolls	Deflector Rolls
		
Pinch Rolls	Leveller Rolls	
		



**Excellent
Surface Finish**



**Thermal
Stability**



High Hardness



Cost Efficient

COLD ROLLING MILL CHEMICAL COMPOSITION

Our Forged Rolls are engineered with precise chemical compositions tailored to enhance their strength, wear resistance, and toughness.

Roll Type	Grade	Material	Chemical Composition							
			C	Si	Mn	Cr	Ni	Mo	V	P
WR & IMR	2%Cr Series	9Cr2Mo	0.80-0.95	0.25-0.45	0.2-0.4	1.7-2.1	<0.25	0.2-0.4	/	≤0.02
		86Cr2MoV7	0.80-0.95	0.25-0.45	0.2-0.4	1.7-2.1	<0.25	0.2-0.4	0.1	≤0.02
	3%Cr Series	9Cr3Mo	0.75-0.95	0.25-0.45	0.2-0.55	2.5-3.5	/	0.2-0.3	/	≤0.02
		MC3	0.75-0.95	0.2-0.9	0.2-0.6	2.5-3.2	0.2-0.8	0.2-0.6	<0.25	≤0.02
BUR		YB-50	0.4-0.65	0.2-0.6	0.4-0.85	2.0-3.0	0.2-0.8	0.3-0.7	0.05-0.15	≤0.02
WR & IMR	5%Cr Series	MC5	0.7-0.95	0.2-0.9	0.2-0.6	4.5-5.4	0.1-0.8	0.1-0.6	<0.25	≤0.02
BUR		YB-70	0.4-0.85	0.3-0.7	0.4-0.80	4.5-5.5	0.2-0.8	0.3-0.8	0.05-0.2	≤0.02

COLD ROLLING MILL PROPERTIES

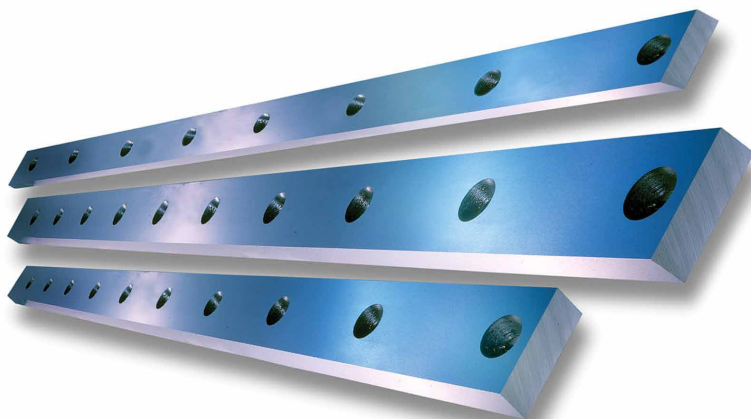
Our Forged Rolls exhibit superior hardness, uniform micro-structure, and excellent thermal stability, ensuring reliable performance under high pressure and temperature conditions. Their toughness and resistance to surface cracking make them ideal for not only Cold Rolling, but Hot Rolling as well.

Grade	Material	Mill	Roll Type	Specification
2%Cr	86Cr2MoV7	Single Stand Mill	WR	Depth 12~20mm
	86Cr2MoV7	Single Stand Mill	WR	Depth 12~20mm
	9Cr2Mo	Single Stand Mill	WR, IMR	Hardness Depth 10~15mm
3%Cr	MC3A	Single Stand Mill Tandem Mill	WR, IMR	Ultra-Hardness Depth > 25mm
	MC3	Skin Pass Mill	WR	Hardness Depth > 20 anti-roll mark
	YB-50	Single Stand Mill Tandem Mill	BUR	Hardness 20~60mm
5%Cr	MC5	Single Stand Mill Tandem Mill	WR	Ultra-deep Hardness Depth ≥ 40mm
	MC5(A-H)	Single Stand Mill Tandem Mill	WR	High wear resistance. roll mark uniformity
	YB-70	Single Stand Mill Tandem Mill	BUR	Hardness Depth 50~100mm

COLD ROLLING MILL CUTTING TOOLS

The cold rolling process uses various cutting tools to shape, trim, and process metal sheets with precision. These tools are essential for operations such as cutting, shearing, trimming edges, and preparing sheets for further processing.

Slitter Knives	Shears Blades	Cutters
		
Crop Shears	Circular Saw	Circular Knives
		

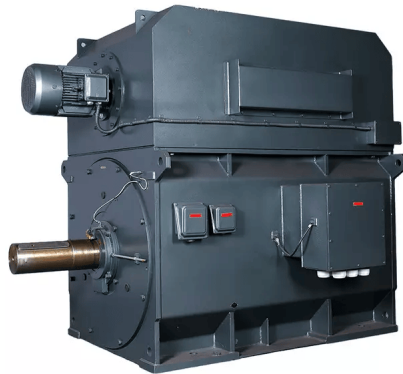
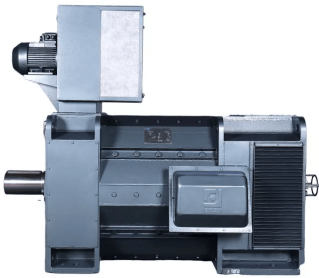


COLD ROLLING MILL MOTORS



Motors are the backbone of modern industrial processes, driving the machinery and systems that power production across various sectors. For heavy-duty applications in steel manufacturing such as Cold Rolling, motors provide the mechanical energy required to complete operations efficiently.

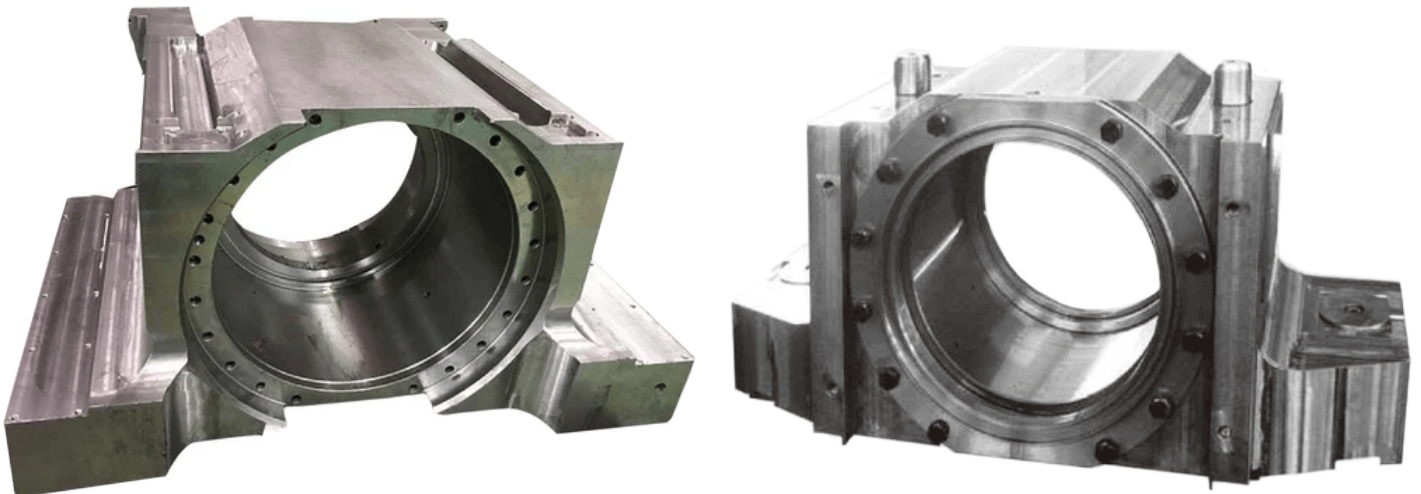
AC & DC Motors



COLD ROLLING MILL ROLL CHOCKS



Roll chocks are an important component of the Cold Rolling process as they provide housing for rolls to ensure proper alignment and support. This ensures a smooth rolling process with decreased downtimes.



YOUR DEDICATED PARTNERS IN

GENERAL INDENTING

Unisons has been carrying out General Indenting services since 1999, supplying essential industrial items tailored to meet the unique demands of our valued customers. With a commitment to reliability, efficiency, and aftersales services, we are your trusted partner for streamlining operations and driving productivity.

**Brass Spray Nozzles**

For Cooling Processes

Cardan Shaft

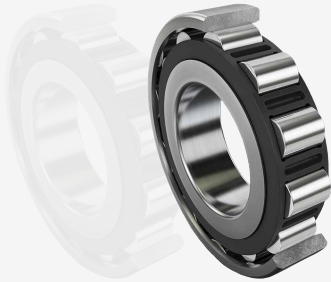
For all Industrial purposes

Magnets

For every Industrial need

Bearings

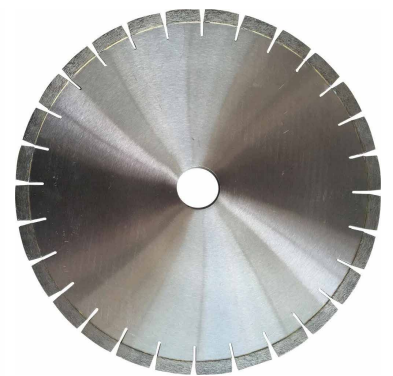
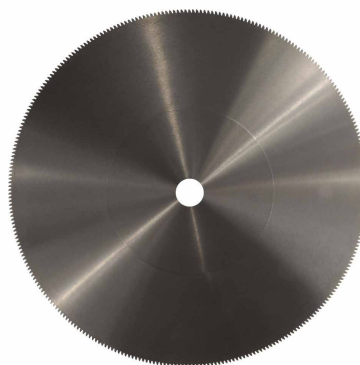
For all industrial applications.

**Stainless Steel Pipes & Fittings**

For all industrial applications.

**Saw Blades & Disc Springs**

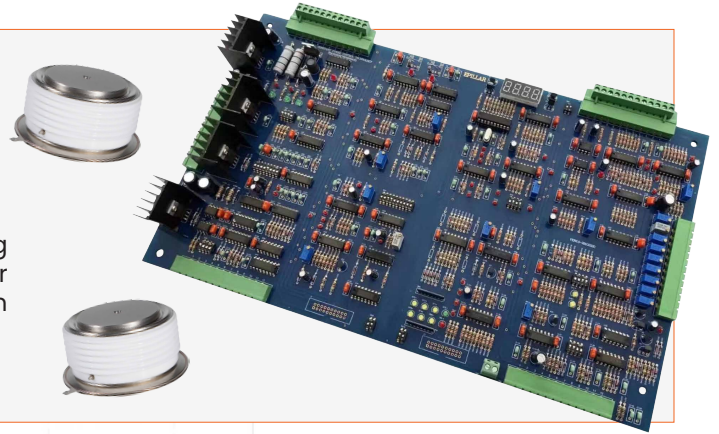
High-performance cutting tools designed to handle extreme temperatures. Built for durability, they ensure precision and efficiency in demanding industrial applications.



PCB Cards & Thyristors

For all industrial applications.

Essential components in industrial electronics, enabling efficient power control and management. Designed for reliability, they support high-performance operations in steelmaking and other heavy industries.



Electrical Transformers



Inverters



Couplings

For all industrial applications.



Hydraulic Seal Cylinder

For all industrial applications.



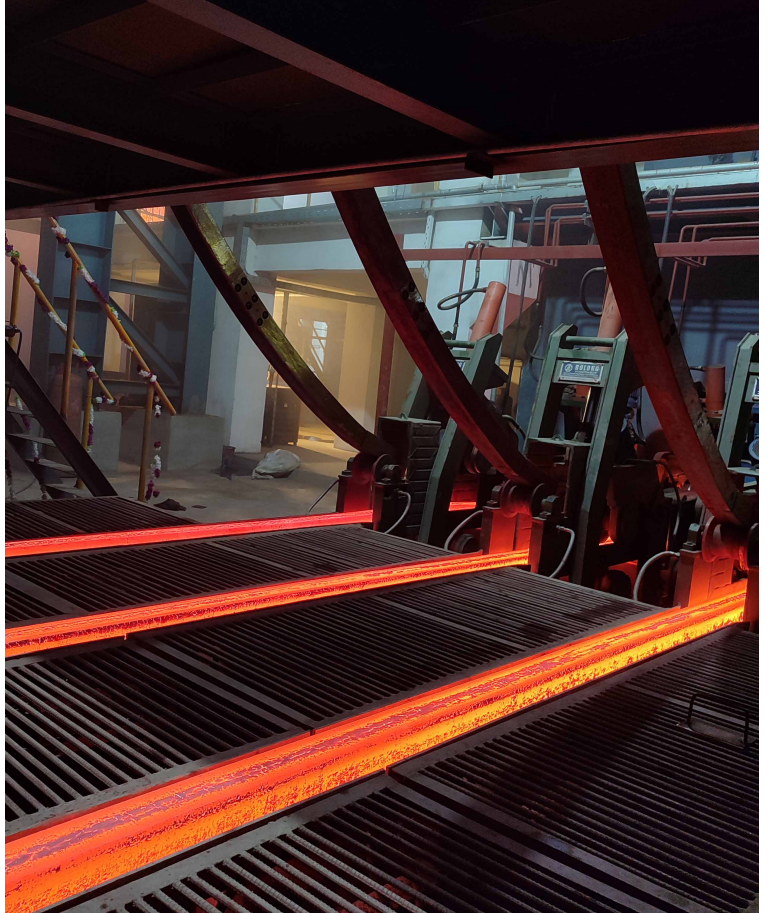
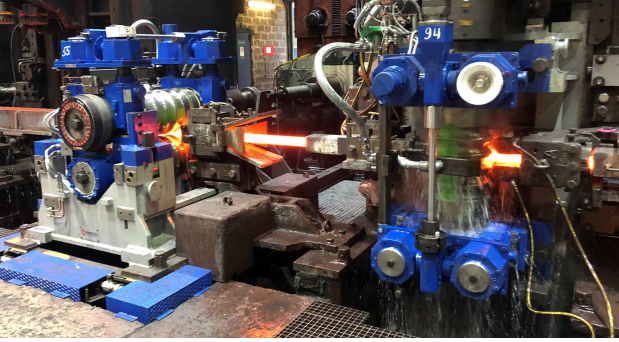
Sensors & Measurement Systems



Hot Metal Detector

Loop Scanner

Laser Measuring Sensor



50+ Projects & Consultations

 20+ Revampings

 10+ Project Feasibilities

 9+ Induction Furnaces

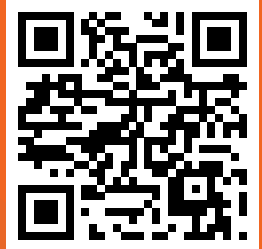
 8+ Rolling Mills

 7+ CCMs

 3+ Dust Control Systems

 2+ Reheating Furnaces

 2+ Billet Induction Heaters



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