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Sinosteel E&T

Individual Equipment & Spare Parts

SINOSTEEL
中钢国际
SINOSTEEL E&T

SINOSTEEL E&T

Towards a Greener and Smarter Industry.
Towards a Better Life and Better Society.

An Engineering & Technology Service provider with *Green, Smart, and Innovative System Solutions* covering the *Full Lifecycle.*

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About Us

Founded in 1972, Sinosteel Equipment & Engineering Co., Ltd. (abbr. Sinosteel MECC) has been focusing on industrial engineering & service, energy saving and environment protection, as well as spare parts supply.

As a well-known engineering company in China, Sinosteel MECC has made outstanding contributions to the development of Chinese metallurgical industry by accomplish over 500 national key projects and over 160 international projects. Being one of the first "go global" companies in China, Sinosteel MECC enjoys high reputation in overseas metallurgical engineering market and has set up a more complete business network in more than 50 countries.

We provide our clients with:

- Support for production
- Maintenance & revamping service
- Evaluation for equipment in operation
- Consultancy for planning of storehouse
- Concentrate supply of spare parts

Service

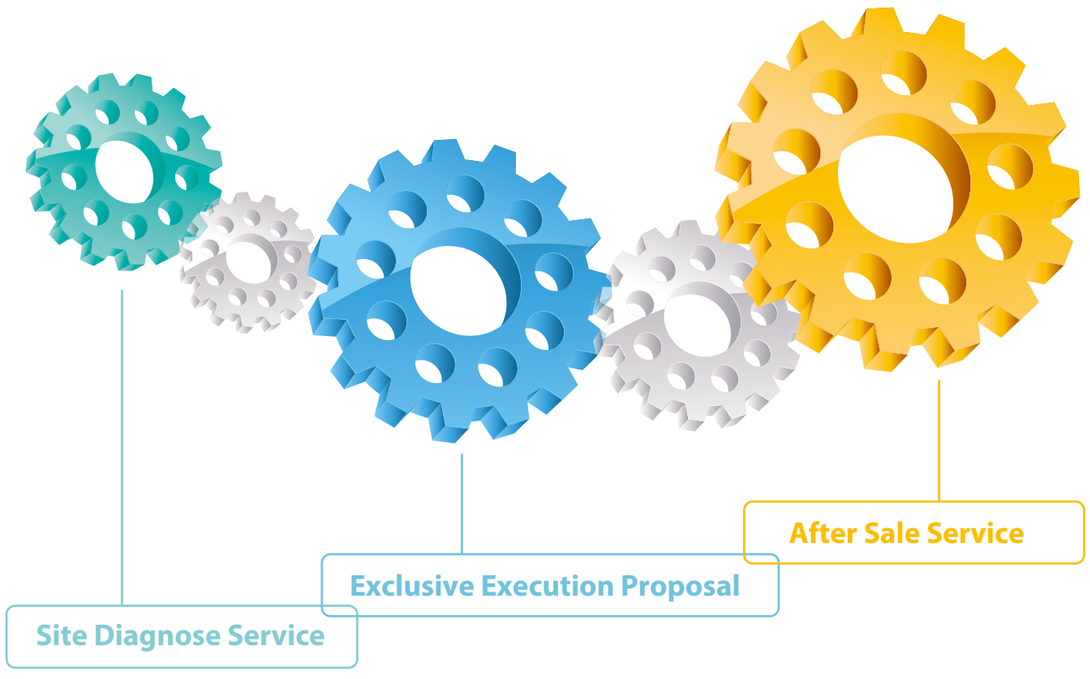
Site Diagnose Service

Exclusive Execution Proposal

- Multiple Language Service
- Site Data Collection and Survey Service

After Sale Service

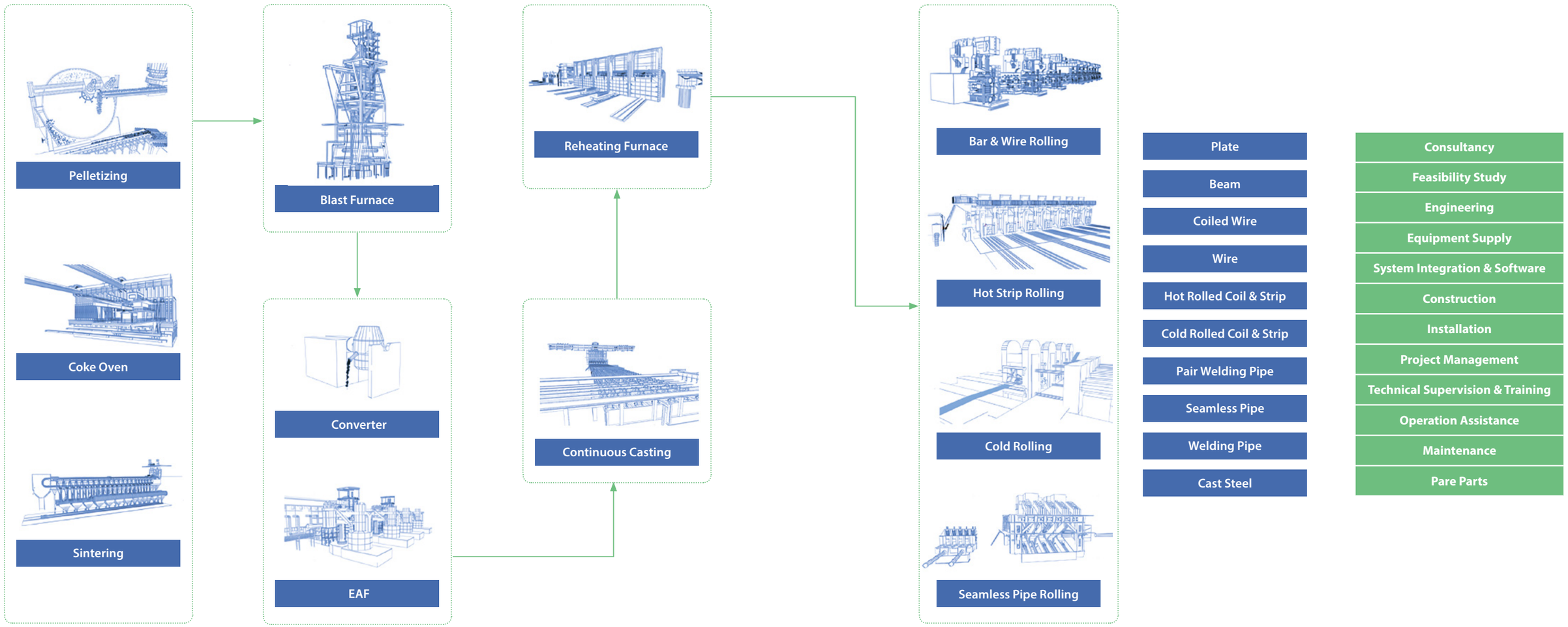
- Products Tracking
- Visit and Feedback
- Quality and Service Improvement



Industrial Engineering Technology & Service - Metallurgy

All-process project contracting in metallurgical Industry

Material Yard → Sintering → Pelletizing → Coking → Iron Making → Steelmaking → Steel Rolling and Auxiliary Facilities



Material Handling

Mining Equipment

Hydraulic Rotary Crusher

Advantages and features:

Uniform product size, small wear of broken wall, high operation rate and strong production capacity.

Type	Feed opening (mm)	Maximum feed particle size (mm)	Motor power (KW)	Moving cone speed (rpm)	Weight (t)	Capacity (tph)
PXZ0913	900	750	280	12-160	140	625-770
PXZ1216	1200	1000	400	110-155	230	1250-1480

SC Series Jaw Crusher

Advantages and features:

Large crushing ratio, uniform product particle size, simple structure, reliable operation, simple maintenance and low operation cost.It is the preferred equipment for crushing ore materials such as ore crusher and coal gangue crusher.

Type	Feed port width (mm)	Feed port depth (mm)	Maximum feed size (mm)	Crusher speed (rpm)	Power (KW)	weight (t)	Overall dimension (mm)	Product size (mm)	Capacity (tph)
SC80X51	800	510	400	350	75	9.5	2577*1526*1750	60-260	55-335
SC96X58	930	580	460	330	90	12	2880*1755*1460	90-260	105-390
SC100X76	1000	760	610	260	110	23.3	3670*2420*2490	105-300	150-545
SC106X70	1060	700	560	280	110	17	3320*2030*2005	105-300	150-500

SH series Cone crusher

Advantages and features:

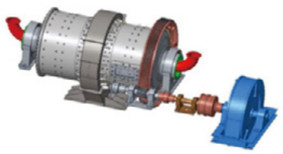
Large crushing ratio, high efficiency, low energy consumption, uniform product particle size, suitable for medium crushing and fine crushing of various ores and rocks.

Type	Power (KW)	weight (t)	Maximum feed size (mm)	Tight edge discharge port (mm) / Production capacity (thp)										
				8	10	13	16	19	22	25	32	38	45	51
SH100X90	90	6.5	150	50-60	55-70	60-80	70-90	75-95	80-100	85-110	110-155			
SH200X132	132	12.2	185		90-120	120-150	140-180	150-190	160-200	170-220	190-235	210-250		
SH300X220	220	18.1	240		115-140	150-185	180-220	200-240	220-260	230-280	250-320	300-380	350-440	
SH400X315	315	25.6	305		140-175	185-230	225-280	255-320	275-345	295-370	325-430	360-490	410-560	465-630

Ball Mill Series-MQS Wet Grate Type Ball Mill

Model and specification	Cylinder diameter (mm)	Cylinder length (mm)	Effective volume (m^3)	Maximum ball loading (t)	Mill speed (r/min)	Main motor			Overall dimension (m)			Equipment quality (excluding motor) (t)
						Model and specification	power (kw)	speed (r/min)	long	wide	high	
MQS0909	900	900	0.5	0.96	39.2	Y225S-8	17	720	4.75	2.21	2.05	4.62
MQS0918	900	1800	1	1.92	39.2	Y225M-8	22	720	5	2.28	2.05	5.34
MQS1212	1200	1200	1.2	2.4	31.3	Y250M-8	30	730	5.2	2.8	2.54	11.4
MQS1224	1200	2400	2.4	4.8	31.3	Y315S-8	55	730	6.5	2.8	2.54	13.43

Rod Mill

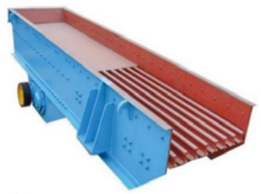


Advantages and features:

Uniform discharge particle size and high output. Flexible and convenient operation to improve production efficiency.

Model and specification	Cylinder diameter (mm)	Cylinder length (mm)	Maximum ball loading (t)	Cylinder speed (rpm)	Motor power (KW)	Weight (excluding motor) (t)
MB2130	2100	3000	24	19	155	48
MB2736	2700	3600	27	20.1	400	75

Feeder



Advantages and features:

Simple structure, stable vibration, uniform feeding and adjustable exciting force.

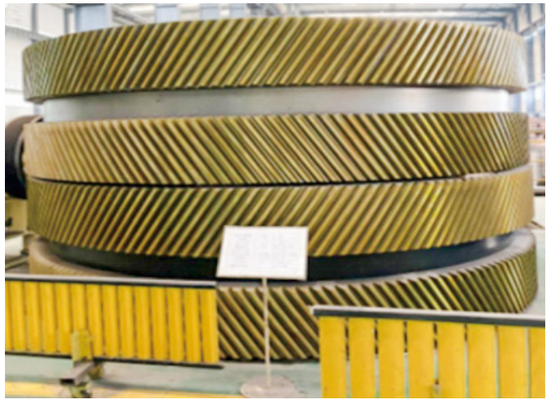
Type	area (m^2)	Inclination angle (°)	amplitude (mm)	Feed particle size (mm)	Processing capacity (tph)	Motor power (KW)	Weight (kg)
GZZ0725	1.875	0-10	9-11	≤200	200-220	11	2550
GZZ1248	5.4	0-10	9-11	≤ 300	250-280	22	5900

Vibrating Screen

Advantages and features:

Simple structure, convenient in replacement of sieving screens and low power consumption per produced ton of materials with a high productivity.

Type	Sieve surface			Mesh size (mm)	Feed particle size (mm)	Maximum processing capacity (m^3/h)	Vibration frequency (HZ)	amplitude (mm)	Motor power (KW)	Weight (kg)
	Number of layers	area (m^2)	Inclination angle (°)							
STYA3070	1	21	20	6-50	≤ 300	1500	11.8	9.5	30x2	23500
2STYA3070	2	21	20	6-50	≤ 300	1500	11.8	9.5	30x2	24600



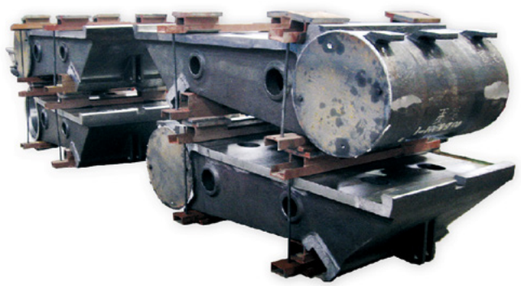
Crusher & Vibration Screen

Reference Highlights

Sl.No	Description	Customer
1.	Vibration Screen	ISDEMIR, Turkey
2.	Roller Shaft & Roller Shell	JSW Salem, India
3.	Top & Bottom Shell of Cone Crusher	Terex-Jaques, Australia & Malaysia & UK
	Jaw Holder, Front End Frame and Rear End Frame of Jaw Crusher	
	Eccentric Shaft	
4.	Screen Shaft	ICDAS, Turkey
5.	Vibration Screen	JFE, Japan
6.	Vibration Screen	ArcelorMittal Temirtau, Kazakhstan

Vibration Screen

Vibration Screen



Jaw Holder

Stacker & Reclaimer

Reference Highlights

Sl.No	Description	Capacity	Customer
1.	Stacker & Reclaimer	Stacking:1500t/h Reclaiming:300/h	ICDAS, Turkey
2.	Bucket Wheel Stacker & Reclaimer	Stacking:800t/h Reclaiming:2000t/h	Isdemir, Turkey
	Bridge Stacker & Reclaimer	Stacking:300t/h Reclaiming:2000t/h	
3.	Stacker & Reclaimer	Stacking:4000t/h Reclaiming:2000t/h	TOSYALI, Algeria

Bucket Wheel Stacker & Reclaimer

General Contracting Service of Spare Parts Function Pricing

Roll function pricing general contracting service

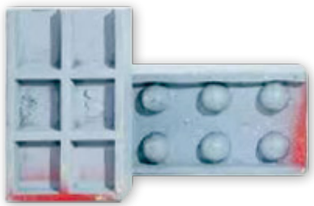
- **Customer:** Beihai Chengde Stainless Steel Co., Ltd
- **1730mm hot rolling line** - general contracting of roller
  → function pricing for the whole line
- **Personal service** - 1 on-site operation guide, 2 technicians
- **User experience:**
  - Save worry and money
  - Production increase (2.6 million tons and 3 million tons)
  - Product surface quality improvement

Highlights Of Function Pricing for General Contracting

- **Flexible model selection and capacity improvement** (ball casting – rolled ball/bainite ball)
- **Potential technical innovation:**
  Magnetic wear-resistant lining plate application, significantly reducing loss
- **Promote mine intellectualization:**
  According to the difference of ore properties mined every day, based on the analysis of the intelligent database and the nature of the ore entering the mill that day, reduce the working current of the mill by adjusting the feeding frequency and feeding speed, improve the production capacity, and save energy and increase efficiency.

General Contracting Service For Mill Ball Function Pricing

- **Client:** Magang Zhangzhuang Mining Co., Ltd
- **User experience:**
  - Ball consumption reduction:
    the average amount of balls added per day has changed from 14 bags to 9 bags, and the consumption has been reduced by 35%
  - Current reduction:
    the operating current of the primary ball mill is adjusted from 105A to 95A, down 10%; The operating current of the two-stage ball mill is adjusted from 85A to 77A, decreasing by 20%
  - Increase in output:
    the annual output of Zhangzhuang Mine is planned to be 1.3 million tons of dry base concentrate, and the annual output is estimated to be 1.62 million tons after the general contracting service, with an increase of 20%



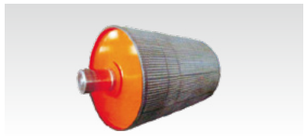
Conveyor

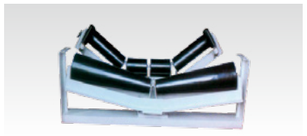
Reference Highlights

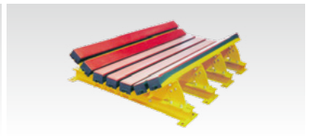
Sl.No	Description	Customer
1.	Pipe Conveyor	ArcelorMittal Temirtau, Kazakhstan
2.	Pipe Conveyor	Gongshan, Burma
3.	Belt Conveyor	ICDAS, Turkey
4.	Belt Conveyor	JSW Vidyanagar Works, India
5.	Belt Conveyor	Nigeria
6.	Belt Conveyor	Power Plant, Indonesia
7.	Belt Conveyor	Vale, Brazil
8.	Belt Conveyor & Pipe Conveyor	Tosyali, Algeria

Belt Conveyor

Gallery


Pulley


Idler


Impact Pad

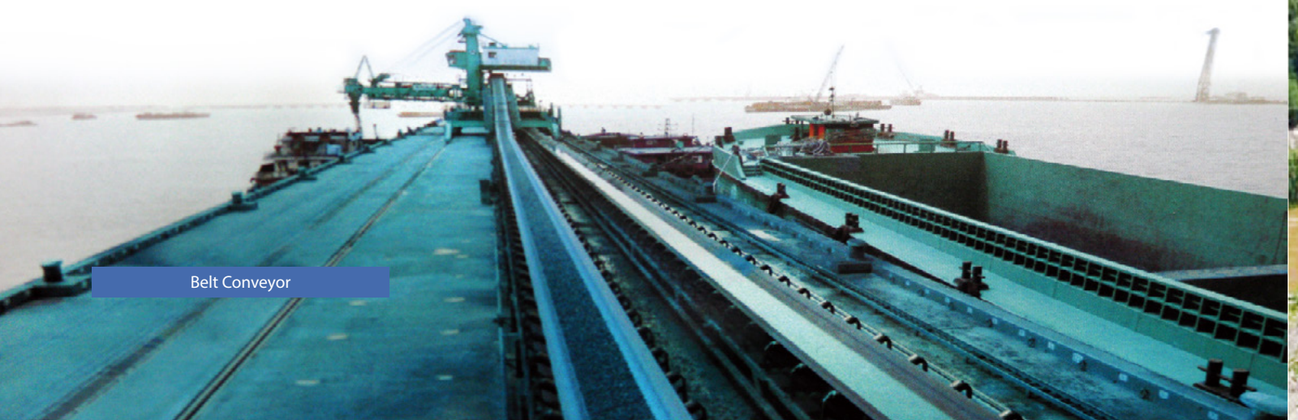
Pipe Conveyor

Belt Conveyor

- Max. Length of Single Conveyor: 8300m
- Max.Capacity: 5500t/h
- Max. Belt Width: 2400mm
- Max. Inclination: 30°
- Max. Belt Speed: 5.0m/s

Pipe Conveyor

- Max. Single Conveyor: 7000m
- Max. Capacity: 4500t/h
- Max. Pipe Diameter: 700mm
- Max. Inclination: 30°
- Max. Belt Speed: 4.7m/s


Belt Conveyor

Sinter & Pelletizing

Reference Highlights

S.N	Description	Customer
1.	Grate Bar	ArcelorMittal Temirtau, Kazakhstan
	Sinter Car	
2.	Grate Bar	ArcelorMittal Annaba, Algeria
	Sinter Car	
3.	Sinter Grate Bar	AHMSA, Mexico
4.	Sinter Grate Bar	ArcelorMittal Lazaro Cardenas, Mexico
5.	Grate Bar	JSW Salem Works, India
6.	India	NINL, India
7.	Grate Bar	MMK, Russia
	Sinter Car	
	Spare parts of whole sintering plant No.5	
8.	Spare Parts of Sintering	Megavantage, Taiwan, China
9.	Hammer Head	Formosa Ha Tinh Steel Corp., Vietnam
10.	Grate Bar	ArcelorMittal, Brazil
11.	Pellet Grate Bar	ArcelorMittal, Mexico
12.	Pellet Grate Bar	AHMSA, Mexico
13.	Pellet Grate Bar	ArcelorMittal Lazaro Cardenas, Mexico
14.	Pellet Car	Liberty Ostrava, Czech
15.	Travelling Grate	Tosyali, Algeria
	Roller screen	
	Weighing system	

Sinter Car

Grate Bar

Sinter Cooler Section

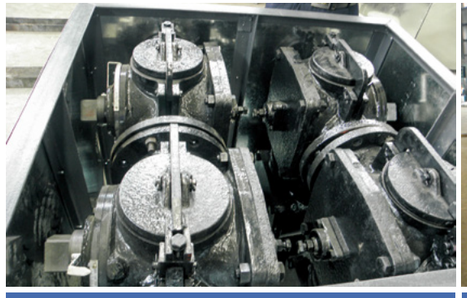
Grate Bar

Pellet Car & Grate Bar

Coke Oven

Reference Highlights

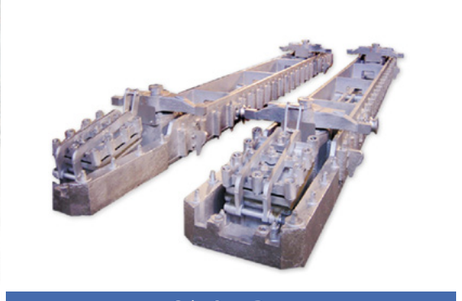
S.N	Description	Customer
1.	Coke Oven Doors	AHMSA, Mexico
	Coke Oven Door Frame	
	Coke Oven Spare Parts	
	Gas Valve	
2.	Laddle	Formosa Ha Tinh Steel Corp., Vietnam
3.	Furnace Equipment	Yantai Industrial Furnace Factory, China
4.	Coke Oven Doors	Formosa Ha Tinh Steel Corp., Vietnam
	Slipper Device	
5.	Coke Oven Doors	MMK, Russia
6.	Coke Oven Doors	ArcelorMittal Temirtau, Kazakhstan
	Spares for Coke Oven	
	Sector for Disc vacuum filter	
	Coke oven silica brick and fireclay	



Cock

Shutter

Coke Oven Door Frame



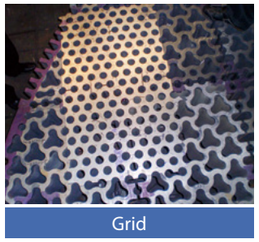
Coke Oven Door

Iron Making System

Blast Furnace & Stove

S.N	Description	Customer
1.	Cooling Stave	ThyssenKrupp, Germany
2.	Tuyere	ArcelorMittal Temirtau, Kazahkstan
	Slide	
	Cast Iron Stave	
	Skip	
	Seal	
	Guide Roller	
	Copper Tube	
	Fabric Expansion Joints	
	Iron ladle	
3.	Clay gun	ISDEMIR, Turkey
	Cooling Wall	
	Reducer for Conveyor	
	Valves	
	BF spare parts	
	Cooler Tube Bundle	
4.	Distributor	JSW Salem Works, India
	Hot and Cold Blast Valve	
	Combustion Valve	
5.	Blast Furnace Spare Parts	AHMSA, Mexico
	Tuyere	
6.	Distributor	JSW Salem Works, India
	Filter Bag	
7.	Mud Gun and Tap Hole Drill	Monnet, India

Tuyere

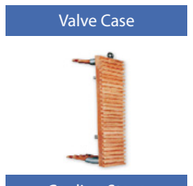


Grid

Blower Rotor

Slide Chute

Tap Hole Drill



Valve Case

Mud Gun

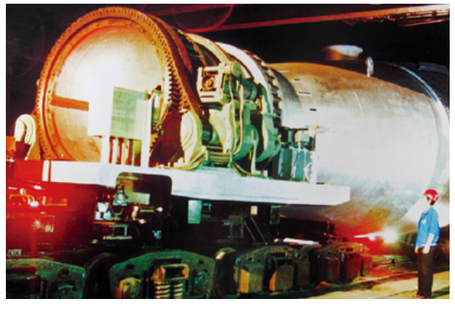
Cooling Stave

Hot Blast Valve

Torpedo Car

Reference Highlights

S.N	Description	Capacity	Customer
1.	Torpedo Car	180 t	Kardemir, Turkey
2.	Torpedo Ladle Car upper part	220 t	ArcelorMittal Gent, Belgium
3.	Torpedo Car	200 t	ArcelorMittal, Brazil
4.	Torpedo Car	320 t	Baosteel, China
5.	Torpedo Car	260 t	Zongheng Steel, China
6.	Torpedo Car	350 t	JSW Vidganagar Works, India
7.	Torpedo Car	320 t	ISDEMIR, Turkey
8.	Torpedo Car	200 t	Pecore, USA
9.	Torpedo Car	200 t	Kawasaki Steel Works, Japan



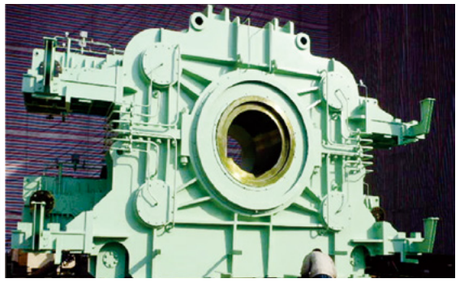
Steel Making System

Converter

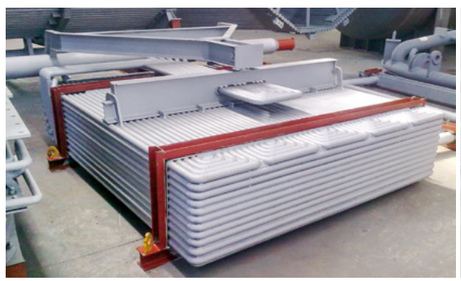
Reference Highlights

S.N	Description	Customer
1.	Gear Box and Spares	ICDAS, Turkey
2.	Hood	ArcelorMittal, Mexico
3.	Upper Part of Converter Body	Joint-Stock Company "Ecvibalt", Russia
4.	Oxygen Lance	Megavantage, Taiwan, China
5.	Oxygen Lance	Alliance Steel(M) SDN.BHD, Malaysia
6.	Sub Lance	Formosa, Vietnam

Trunnion



320t Converter Tilting Device



280t BOF Duct

Hood

Injector

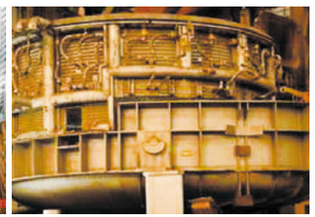
EAF & Ref ining

Reference Highlights

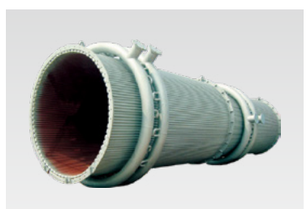
S.N	Description	Customer
1.	Cored Wire (Carbon wire & Calcio Silicon wire)	AHMSA, Mexico
2.	Cored Wire	SIMEC, Mexico
3.	RH Bottom Tough	JFE Steel, Japan
4.	Electrode holder	ICDAS, Turkey
5.	Cooling Duct	JFE, Japan
6.	Pinons	Emre, Turkey
7.	EAF frame	ArcelorMittal Ispat, Indonesia
8.	Copper head	ArcelorMittal Temirtau, Kazakhstan
9.	Electrode Arm	ICDAS, Turkey
10.	Tundish	Tosyali, Turkey
11.	Scrap Hopper	NIKKO, Japan

EAF

EAF Roof

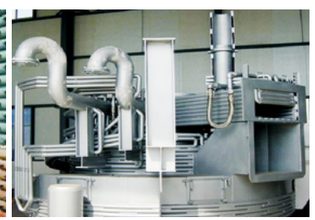


EAF Shell



Water Cooled Duct

Steel-Copper Complex Panel



VOD Roof

Basket & Ladle Car

Reference Highlights

S.N	Description	Capacity	Customer
1.	Tundish car	200 t	Danieli, Italy
	Ladle car	112 t	
	Tundish car	65 t	
2.	Ladle Car	320 t	ISDEMIR, Turkey
	Ladle Car	320 t	
	Slag Pot Car	120 t	
3.	Ladle car		Sumitomo, Japan
4.	Ladle car	320 t	USA
5.	Ladle car	200 t	ArcelorMittal Lazaro Cardenas, Mexico
6.	Ladle car	240 t	TOSYALI, Turkey

Basket & Car

Basket & Car

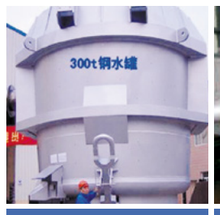
Ladle Car Bogie

Ladle Car Frame

Ladle, Tundish and Slag Pot

Reference Highlights

S.N	Description	Capacity	Customer
1.	Ladle	315 t, 350 t	ICDAS, Turkey
2.	LF Ladle	120 t	Erdemir, Turkey
3.	Ladle	150 t	Tosyali, Turkey
	Tundish	100 t	
4.	Slag Pot	30 t	Qatar Steel, Qatar
5.	Slag Pot		Hoestemberghe & Kluetsch, Germany
6.	Slag Pot		AHMSA, Mexico
	Ladle	-	
7.	Ladle	47 t	TAMSA, Mexico
8.	Slag Pot	17.5 t	Yieh United, Taiwan, China
9.	Slag Pot	20 t	ArcelorMittal Liege, Belgium
10.	Slag Pot		NIKKO, Japan
	Ladle	80 t	
11.	Slag Pot	15 t	Mitsubishi, Japan
12.	Ladle	160 t	ArcelorMittal Temirtau, Kazakhstan
	Steel ladle	30 t	
13.	Slag Pot	-	Codelco, Chile
14.	Slag Pot	-	CSN, Brazil
15.	Slag Pot	43.5 t, 40 t	JSW Vidyanagar Works, India
16.	Slag Pot	43.5/44 t	ArcelorMittal Nippon Steel India Limited., India
17.	Ladle	80 t	DIACO, Colombia
18.	Slag pot		Algerian Qatari Steel, Algeria
19.	Slag pot		ArcelorMittal Brazil
20.	Slag pot	62 t	JSW Shadeed, Oman
21.	Slag pot	11 t	JSW Bhushan, India



300t Ladle for Sumitomo

80t Tundish for JFE

Slag Pot

Continuous Casting Machine

Reference Highlights

S.N	Description	Customer
1.	Dummy bar	Nippon Steel, Japan
2.	Mould and Segment Frame	Megasteel, Malaysia
3.	Roller Jacket	Liberty Galati, Romania
4.	Pinch Roll, Roller Jacket, Segment etc.	Tosyali, Turkey
	Roller Assembly	
	Refractories	
	Oscillation	
5.	Dummy Bar, Head and Roller assembly	Lisco, Yieh United, Taiwan
6.	CCM Chock and Roller assembly	ArcelorMittal Dunkerque, France
7.	Burner	Celsa, UK
8.	Rollers and flanges	ArcelorMittal Temirtau, Kazakhstan
	Hydraulic cylinder	
	Chocks	
	Chain and spring	
	Segment Roller and roller jacket	
	Segment, External frame	
9.	Chill	Gerdau, Brazil
10.	Cooper mold	JSL Orissa Plant, India

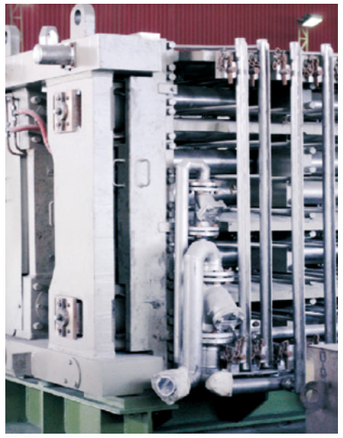
S.N	Description	Customer
11.	Copper Mould Tube	JSL Hisar Plant, India
12.	Foot Roller	Megavantage, Taiwan, China
	Control desk	
	C Hook	
	Wheel	
13.	Shaft	Formosa Ha Tinh, Vietnam
14.	Bearing Housing	Formosa Ha Tinh Steel Corp., Vietnam
15.	Spare parts for Cooling system and cutting machine	Esfahan Mobarakeh Steel Co., Middle East
16.	Rollers	ArcelorMittal, Mexico
17.	Copper Mould Tube	BMZ, Belarus
18.	Pinch Roll	Metalloinvest, Russia
19.	Rollers	JSC Ural Steel, Russia
20.	Head Lance	COVERMA, Belgium
21.	Refractories	MOLLAOGLU, Turkey
22.	Refractories Brick	MMK, Turkey
23.	Oscillation	Tosyali, Turkey
24.	Wheel	Isdemir, Turkey
25.	Chocks	Constellium, Germany
26.	Lance Heads	Coverma, Belgium

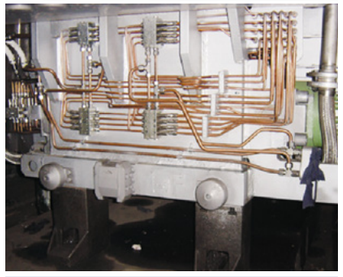
Mould

Mould Assembly of Slab Caster

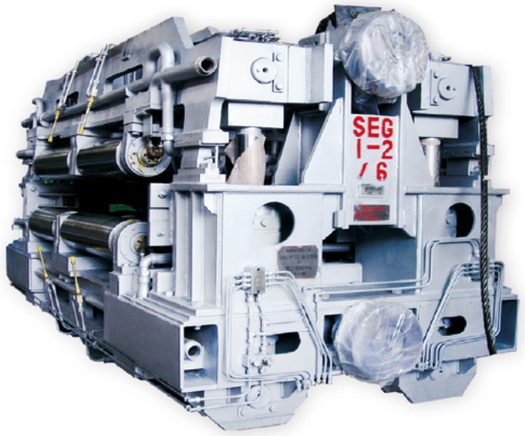
Dummy Bar

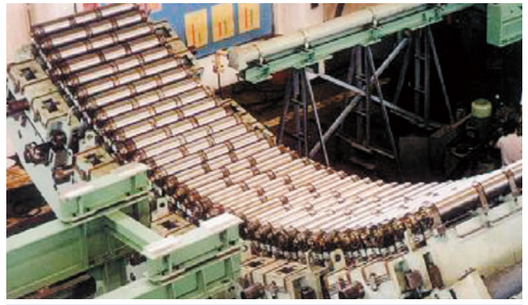
Copper Plate of Thin Slab Caster



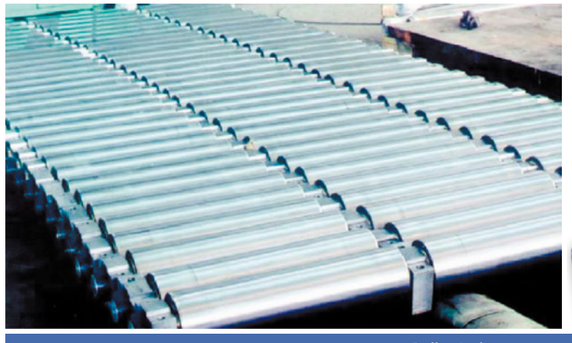


Segment





Roller Bridge



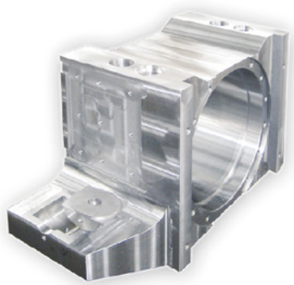
Roller Jacket

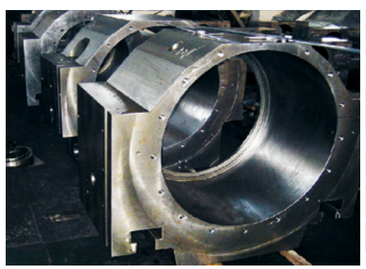
Steel Rolling System

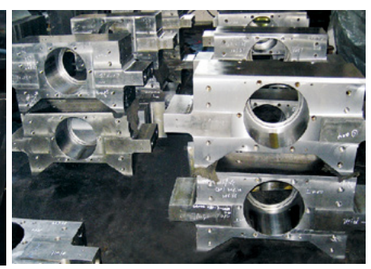
Chock

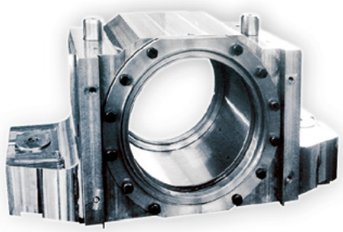
Reference Highlights

S.N	Description	Customer
1.	Back Up Roll Chock	ArcelorMittal Krakow, Poland
	Work Roll Chock	
2.	Back Up Roll Chock	ArcelorMittal Temirtau, Kazakhstan
	Work Roll Chock	
3.	Work Roll Chock	AGBOR Engineering Ltd., UK
4.	Work Roll Chock	AHMSA, Mexico
	Back Up Roll Chock	
5.	Back Up Roll Chock	Essar, India
	Work Roll Chock	
6.	Work Roll Chock	ISDEMIR, Turkey
	Back Up Roll Chock	
7.	Back Up Roll Chock	Lisco, Yieh United, Taiwan
8.	Work Roll Chock	Nippon Steel, Japan
9.	Work Roll Chock	ThyssenKrupp, Germany
10.	Work Roll Chock	Tosyali, Turkey
11.	Intermediate Roll Chock	YPC, Yieh United, Taiwan
12.	Work Roll Chock	VILLACERO, Mexico
13.	Chock	ECVIBALT, Russia
14.	Chock	MMK, Russia





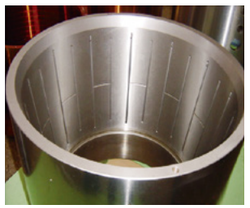




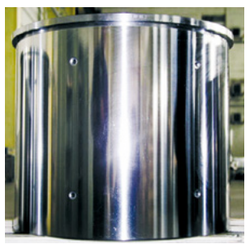
Oil Film Bearing

Reference Highlights

S.N	Description	Customer
1.	Bushing	ArcelorMittal Bremen, Germany
2.	Sleeve & Bushing	Liberty Galati, Romania
3.	Sleeve & Bushing	ArcelorMittal Temirtau, Kazakhstan
4.	Sleeve & Bushing	AGBOR Engineering Ltd., UK
5.	Sleeve & Bushing	CSN, Brazil
6.	Sleeve & Bushing	H&K, Germany
7.	Oil Film Bearing Assembly	AHMSA, Mexico
8.	Bushing	Egyptian Iron & Steel
9.	Oil Film Bearings	Tosyali, Algeria
10.	Oil Film Bearings	Tosyali, Turkey



Sleeve



Bushing

Sleeve:

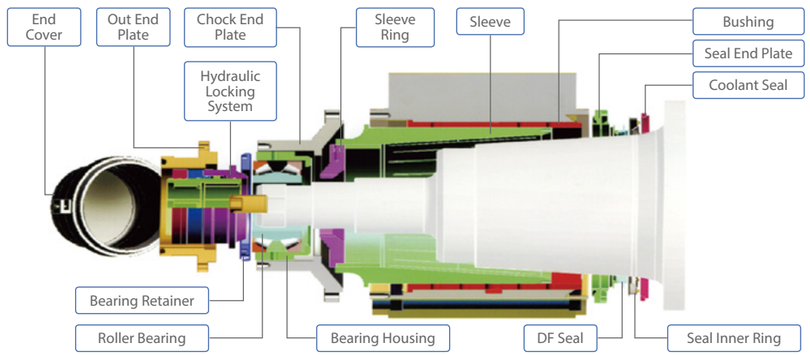
Surface Roughness: Ra 0.05μ
Axial Concentricity: 0.02-0.05mm
Hardness: HBW 363

Bushing:

Surface Roughness: Ra 0.2μ
Axial Concentricity: 0.02-0.05mm

Accuracy:

Concentricity: 0.002 ~ 0.003 mm
Roughness OD: Ra = 0.05μ
Roughness ID: Ra = 0.2μ
Linearity: 0.005 mm/m



Structure of Oil Film Bearing

Spindle & Coupling

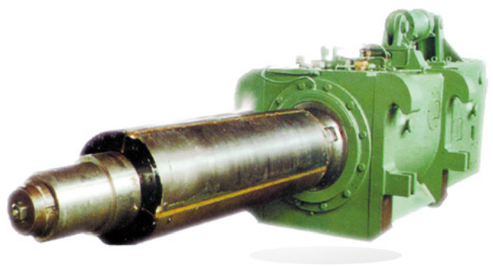
Reference Highlights

S.N	Description	Customer
1.	Spindle and Spares	ArcelorMittal Temirtau, Kazakhstan
2.	Spindle and Spares	BRG, India
3.	Coupler Head	CSN, Brazil
4.	Spindle and Spares	Diler, Turkey
5.	Spindle and Spares	ERDEMIR, Turkey
6.	Spindle and Spares	Formosa Heavy Industries Corp., Taiwan
7.	Spindle and Spares	ICDAS, Turkey
8.	Spindle and Spares	Joint-Stock Company "ECVIBALT", Russia
9.	Spindle and Spares	JSW Vidyaragar Works, India
10.	Spindle and Spares	Kroman, Turkey
11.	Spindle and Spares	Lisco, Yieh United, Taiwan
12.	Spindle and Spares	SSE, Vietnam
13.	Spindle	Tosyali, Turkey
14.	Spindle and Spares	VIG, Turkey
15.	Spindle and Spares	Yazici, Turkey
16.	Spindle and Spares	AHMSA, Mexico

Coiler

Reference Highlights

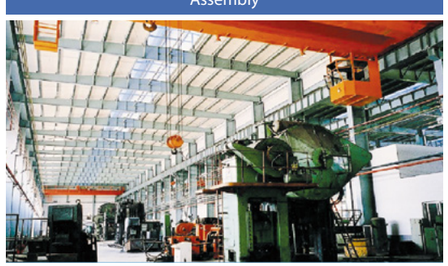
S.N	Description	Customer
1.	Taper sleeve, Segment and Mandrel	ArcelorMittal Temirtau
	Drum for coiler	
	Head for coiler and uncoiler	
2.	Taper sleeve, Segment and Mandrel	Tosyali, Turkey
3.	Taper sleeve, Segment and Mandrel	Lisco,Yieh United, Taiwan
4.	Taper sleeve and Segment	Yieh United, Taiwan



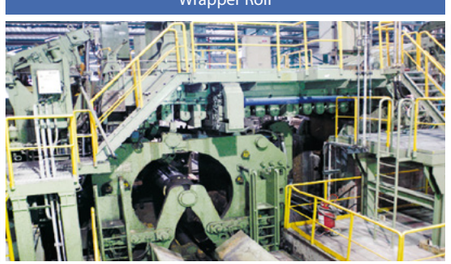
Coiler

Assembly

Wrapper Roll



Machining center



Down Coiler

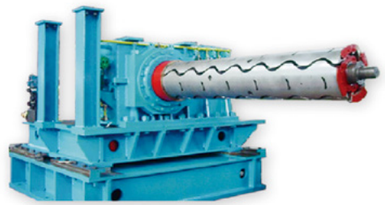
Segment

Mandrel

Shaft

Reference Highlights

S.N	Description	Application	Material	
1.	Main shaft	HSM	YST-5	G-X22CrMoV12-Iv
		CSM	42CrMo	34CrNi3Mo
2.	Mandrel	HSM	YST-5	G-X22CrMoV12-Iv
		CSM	42CrMo	34CrNi3Mo
3.	Taper sleeve	-	Cast Iron	42CrMo
4.	Copper parts	-	Alloy Copper	ZCuAl10Fe3Mn



Cold Rolling Series

Hot Rolling Series

Furnace

Reference Highlights

S.N	Description	Customer
1.	Radiant tubes	JFE, Japan
2.	Radiant tubes	Sumitomo, Japan
3.	Radiant tubes	ArcelorMittal Temirtau, Kazakhstan
	Hearth rolls	
	Alloy pad	
4.	Recuperator	Qatar Steel Co., Qater
5.	Radiant tubes	Kingon Colmet Mfg Co., Ltd., Taiwan
6.	Furnace roller	Lisco, Yieh United, Taiwan
7.	Alloy pad	EMRE, Turkey
	Furnace roller	
8.	Pressure gauge	Tosyali, Turkey
	Lifting Cylinder	
	Traverse cylinder	
9.	PLATE TYPE LIFTING CHAIN	Tosyali, Turkey
	Motor	
	Coupling	
10.	Radiant tubes	ERDEMIR, Turkey
11.	PLATE TYPE LIFTING CHAIN	Algeria, Turkey
	Motor	
	Coupling	
12.	Adjusting Valves	JSW Salem, India
13.	Honeycomb	JSW Salem Works, India
	Valves	
14.	Furnace roller	AHMSA, Mexico
15.	Hearth rolls	MMK, Russia

Cover Annealing Furnace

Continuous Annealing Furnace

Rotary Hearth Furnace

Billet Reheating Furnace

Furnace Roll & Radiant Tube

Hearth Roll

Heat-Resisting Plate

W-Radiant Tube

Hearth Roll

Reference Highlights

S.N	Description	Customer
1.	Alloy Pads, Rolls	EMRE, Turkey
2.	Radiant tubes	JFE, Japan
3.	Radiant tubes	Kobe Steel, Japan
4.	Radiant tubes	Nippon Steel, Japan
5.	Radiant tubes	Sumitomo, Japan
6.	Alloy Pads, Rolls	AHMSA, Mexico
7.	Radiant tubes	ERDEMIR, Turkey
8.	Hearth rolls	ArcelorMittalMontataire, France
9.	Radiant tubes	ArcelorMittal Temirtau, Kazahkstan
	Hearth rolls	
10.	Radiant tubes	KingonColmetMfg Co., Ltd., Taiwan
11.	Furnace Roller	Lisco,Yieh United, Taiwan
12.	Hearth rolls	NSM, Thailand

Reheating Furnace Roll

Heat Recovery System

Reference Highlights

S.N	Description	Customer
1.	Heat Recuperator	Nippon Steel, Japan
2.	Heat Recuperator	Qatar Steel, Qatar
3.	Heat Recuperator	JSW Vidyanagar

Recuperator

Heat Recuperator

Crane

Reference Highlights

S.N	Description	Customer
1.	Crane Wheel	ArcelorMittal Temirtau, Kazahkstan
2.	Crane Wheel	MMK, Russia
3.	Crane	Tosyali, Turkey
4.	Crane	Tosyali, Algeria
5.	Crane	ArcelorMittal Lazaro Cardenas, Mexico
6.	Wheel	ISDEMIR, Turkey
7.	Wheel	Ezz Steel Co., Egypt
8.	Assemble the Hook Beam	Formosa, Vietnam
	C Hook	
9.	Hydraulic Grab	USA

Coil Clamping

Slab Clamping

Slab Clamping

Electro-Magnetic Hoist

Hydraulic Grab

EOT

Ladle Crane

Air Seperation Plant

- The Max capacity: 82,000m3/h.
- The pressure grade: 2.5-11.0MPa.
- Exported to Indonesia, Philippine, Vietnam, Turkey etc.

ASP for Zongheng Steel, China

ASP for Tosyali, Turkey

Centrifugal Compressor

Coil-wound Heat Exchanger

Aluminium Plate FinHE

Gas Holder

Reference Highlights

S.N	Description	Capacity	Type	Customer
1.	CO Gas Holder	15,000m^3	MAN	ERDEMIR, Turkey
2.	CO Gas Holder	15,000m^3	MAN	ISDEMIR, Turkey
3.	CO Gas Holder	50,000m^3	MAN	JSW, India
4.	CO Gas Holder	50,000m^3	MAN	Tata, India
5.	Gas Holder	100,000m^3	MAN	JSW India
6.	BF Gas Holder	165,000m^3	MAN	Zongheng Steel, China
7.	CO Gas Holder	50,000m^3	MAN	Zongheng Steel, China
8.	BF Gas Holder	60,000m^3	WIGGINS	Zongheng Steel, China
9.	BF Gas Holder	60,000m^3	WIGGINS	Zongheng Steel, China

S.N	Description	Type	Capacity	Pressure
1.	BF Gas Holder	MAN/WIGGINS	300,000 m^3	~12.5KPa
2.	CO Gas Holder	MAN/WIGGINS	300,000 m^3	~12.5KPa
3.	BOF Gas Holder	MAN/WIGGINS	300,000 m^3	~12.5KPa

Dedusting System

Reference Highlights for Iron Making

S.N	Description	Customer
1.	Dedusting for 3050 m^3 BF	SDEMIR , Turkey
2.	Dedusting for 550 m^3 BF	Monnet, India

Reference Highlights for Coking

S.N	Description	Customer
1.	Dedusting for 1.3MT, 6-meter Top-charge Coke Oven Battery	ISDEMIR, Turkey
2.	Dedusting for 1.9MT Stamping Coke Oven Battery with By-product Plant	JSPL, India
3.	Dedusting for 1.5MT & 1.9MT Stamping Coke Oven Battery with By-product Plant	JSW Vidyanagar Works, India
4.	Dedusting for 300,000t/a Stamping Coke Oven Battery	THAI NGUYEN, Vietnam
5.	Dedusting for 1.2MT, 6-meter Top-charge Coke Oven Battery	Wakayama Steel Works, Japan

Reference Highlights for Sintering

S.N	Description	Customer
1.	Dedusting for 315m^2 × 3 Sinter Plant	ArcelorMittal Temirtau, Kazakhstan
2.	Dedusting for 300m^2 Sinter Plant	ISDEMIR, Turkey
3.	Dedusting for 198m^2 Sinter Plant	Ispat, India
4.	Dedusting for 90m^2 Sinter Plant	JSW Salem Works, India
5.	Dedusting for 180m^2 Sinter Plant	Neelachal Ispat Nigam, India

Reference Highlights for Steel Making & Rolling

S.N	Description	Customer
1.	Dedusting for Tube Rolling Mill	ArcelorMittal Jubail, Saudi Arabia
2.	Dedusting for EAF, Induction Furnace	Andra, Kazakhstan
3.	Dedusting for 120t Ladle Furnace	ERDEMIR, Turkey
4.	Dedusting for 175t UHP EAF	ICDAS, Turkey
5.	Dedusting for 240t EAF	TOSYALI, Algeria

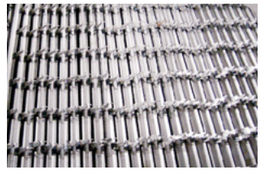
Service

- For BF—— Max. 5500m^3
- For BOF—— Max. 300t
- For Sinter Plant—— Max. 600m^2
- For EAF—— Max. 200t
- For CO—— Max. 7.63m
- For Pellet Plant—— Max. 5.0MT

Gravity Dedustor

Bag Dedustor

ESP



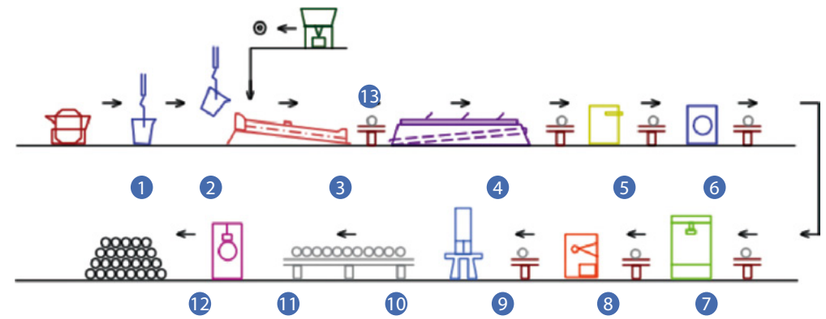
Centrifugal Pipe Casting Line

Reference Highlights

Sl.No	Description	Specification	Customer
1.	Centrifugal Pipe Casting Machine	DN80-DN300	HANYCO, Middle East
		DN350-DN700	
		DN100-DN400	
		DN1000-DN1600	L.M.I, Middle East
2.	Annealing Furnace	DN80-DN700	HANYCO,Middle East
		DN150-DN1000	L.M.I, Middle East
3.	Zinc spraying Machine	DN80-DN700	HANYCO, Middle East
		DN150-DN700	L.M.I, Middle East
4.	Hydrostatics Test Machine	DN80-DN700	HANYCO, Middle East
5.	Bitumen Coating Machine	DN80-DN700	HANYCO, Middle East
6.	Core Shooting Machine	DN80-DN1000	HANYCO, Middle East
7.	Pipe mould	DN80-DN700	HANYCO, Middle East
		DN200-DN1600	L.M.I, Middle East
		DN400-DN1000	Nasr Castings Co. Egypt
		DN200-DN1200	Sumitomo, Kubota,Yodogawa, Hitachi Metals, Japan
8.	Zinc Wire	DIA.3.5mm	HANYCO, Middle East
		DIA.4.4mm	L.M.I, Middle East
9.	Trough Runner	DN80-DN700	HANYCO, Middle East
		DN1000-DN1600	L.M.I, Middle East
10.	Mould Powder	DN80- DN700	HANYCO, Middle East
11.	Refractory for Casting (carbon)	DN80- DN700	HANYCO, Middle East
12.	Refractory for Annealing Furnace		HANYCO, Middle East
13.	Diatomite		L.M.I, Middle East
14.	Resin & firming agent		L.M.I, Middle East

Zine Wire

Pipe Mould



1. Induction furnace
2. Melton iron ladle
3. Centrifugal casting machine
4. Annealing furnace
5. Zine spraying machine
6. Hydraulie testing machine
7. Pipe cutting machine
8. Edge chamfered machine
9. Cement lining machine
10. Cement cultivation
11. Bituman coating machine
12. Finished pipes
13. Core shooting machine

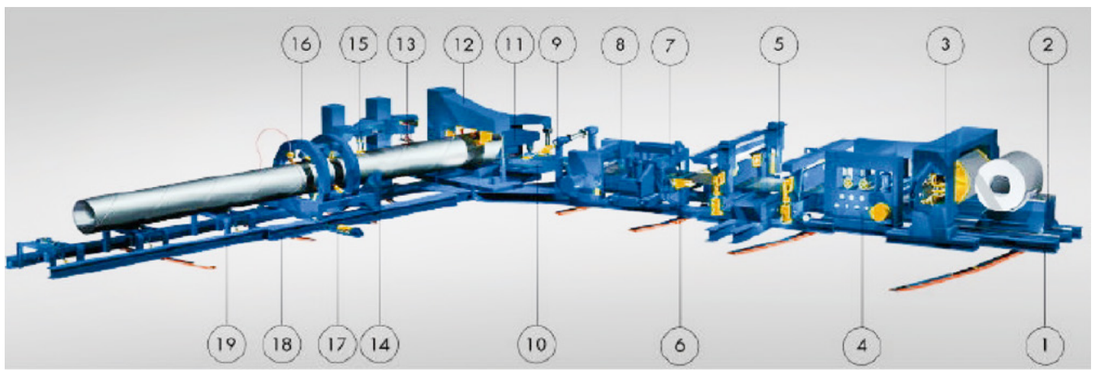
Welding Pipe Line

- Exported to Thailand Φ2300×25.4(X70)SSAW PIPE Line
- Exported to Xielian, Malaysia Φ2400×20mm(X65)SSAW PIPE Line
- Exported to OOO Oktah, Russia HF welding Pipe Line

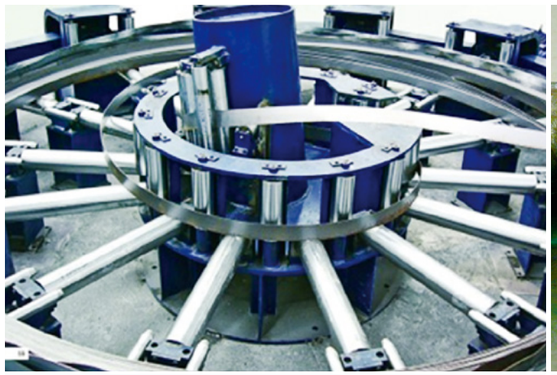
Hydrostatic Testing Machine

Decoiler

Welding Machine



1. Machine base frame
2. Coil transport carriage
3. Decoiling stand
4. Strip straightening machine
5. Strip crass seam welding device
6. Strip side guide
7. Strip edge trimming-milling device
8. Main driver stand
9. Strip edge pre-bending unit
10. Strip guide table
11. Three-roller guide cage
12. Multi roller guide cage
13. Submerged-arc outside welding installation
14. Control steady rest
15. Ultrasonic control devices
16. Pipe cutting carriage
17. Electrical / hydraulic welding gap control system
18. Base frame
19. Pipe lowering device



Looper

Forming Machine

Welding Machine

The straight welding pipe line is equipped with high frequency welding machine. The spiral welding pipe line is also available which can produce API pipes with the range from Φ60 to Φ3000 mm.

Turkey Tosyali Spare Parts Integration Service

- **Scale:** 950mm Hot continuous rolling
- **Design capacity:** 1.1 million tons
- **Project Operation:** 2009 year
- **Spare parts enter:** 2008 year
- **Sort out the list of spare parts:** 6000 items
- **Signing date of the whole spare part:** 2009 year July

- **Scale:** 1800mm Hot Strip Mill
- **Design capacity:** 350 Million tongs
- **Project Operation:** 2023 year
- **Spare parts enter:** 2022 year
- **Signing date of the whole spare part:** 2022 year

Reheating Furnace

Spares for Reheating furnace

- Roller table assembly and it's auxiliary, such as motor-reducer, spindle, coupling and etc.
- All Hydraulic cylinders
- Burner
- Furnace door
- Alloy Skid
- Cooling beam
- Fan spares
- All Valves
- Expansion joint
- Hydraulic spares such as pump, valve, and etc.
- Pump
- Heat exchanger
- Slab charging & discharing bar

Descaling Machine

Spares for Descaling machine

- Roller table assembly and it's auxiliary, such as motor-reducer, spindle, coupling and etc.
- Descaling head
- Nozzles
- All high pressure spares such as pumps and etc.

Roughing Mill

Spare for Edge & Roughing Mill

- Roller table assembly and it's auxiliary, such as motor-reducer, spindle, coupling and etc.
- Guide assembly
- All hydraulic cylinders including AWC & AGC cylinder for RM
- Rolling mill rolls
- Main motor for Edge Mill & RM
- Main spindles for Edge Mill & RM
- Reducer for Edge mill
- Bearing chocks for WR & BUR
- Screw down screw & Nuts
- Oil film bearings
- Liners for mill & bearing chocks
- All bearings in RM including split bearings
- WR change car & BUR change car
- Descaling head & Nozzles
- All hydraulic Station spares& valves

Coil Box

Spares for Coil box

- Entry guide
- All hydraulic cylinders for coil box
- 1#& 2# turning roll, bending roll, forming roll, cradle roll (1A & 1B), Cradle roll (2A& 2B), Cradle roll (3A & 3B), wrapper roll & skin pass roll
- Spindles for coil box
- Motor & reducers for coil box
- All hydraulic Station spares& valves

Heat Shield

Spares for Heat shield

- Roller table assembly and it's auxiliary, such as motor-reducer, spindle, coupling and etc.
- Cylinder for heat shield
- All hydraulic Station spares& valves

F1 to F7 HSM

Spares for Crop shear, Edge & F1 to F7 HSM

- Motor & reducer for crop shear
- Hydraulic cylinders for crop shear
- Knifes for crop shear
- Roller table assembly and it's auxiliary, such as motor-reducer, spindle, coupling and etc.
- All hydraulic cylinders including AGC cylinder
- Rolling mill rolls
- Main motor for FM & Edge Mill
- Main spindles for FM & Edge Mill
- Reducer for Edge mill
- Bearing chocks for WR & BUR
- Oil film bearings
- Liners for mill & bearing chocks
- All bearings in FM & Edge Mill
- WR change car & BUR change car
- Descaling head & Nozzles
- All hydraulic Station spares& valves
- All hydraulic cylinders including AGC cylinder

ACC Equipment

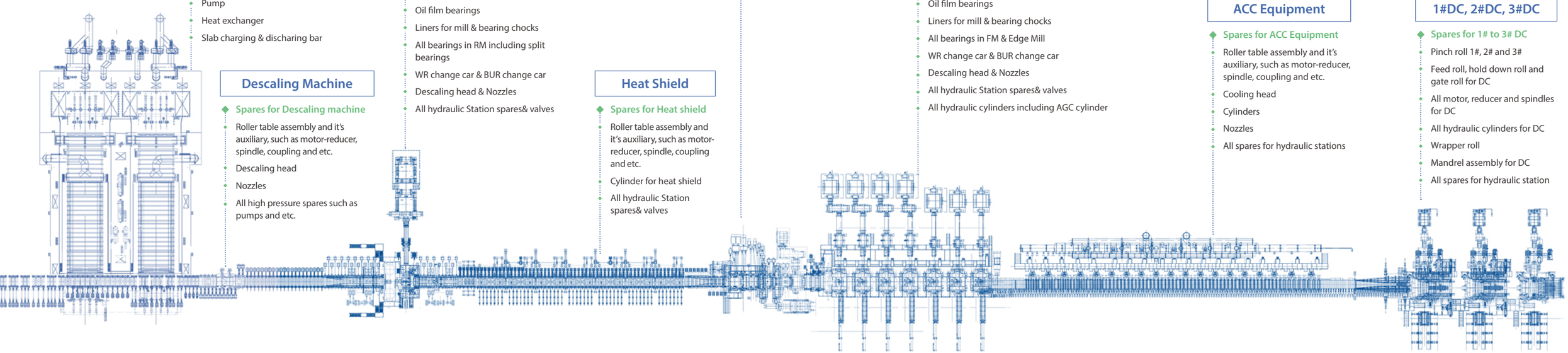
Spares for ACC Equipment

- Roller table assembly and it's auxiliary, such as motor-reducer, spindle, coupling and etc.
- Cooling head
- Cylinders
- Nozzles
- All spares for hydraulic stations

1#DC, 2#DC, 3#DC

Spares for 1# to 3# DC

- Pinch roll 1#, 2# and 3#
- Feed roll, hold down roll and gate roll for DC
- All motor, reducer and spindles for DC
- All hydraulic cylinders for DC
- Wrapper roll
- Mandrel assembly for DC
- All spares for hydraulic station



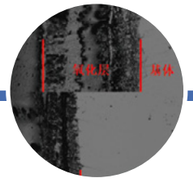
Innovative Product Recommendation

High-temperature Protection Micro-nano Coating Isolating Agent

- Waterborne coating material
- In the process of high temperature heat treatment of metal, implement the protection of anti-oxidation coating on the surface of steel billet

Greatly reduce the high temperature oxidation and burning loss of steel billet in the furnace.

Change the formation structure of iron oxide scale and improve the descaling effect of high-pressure water.

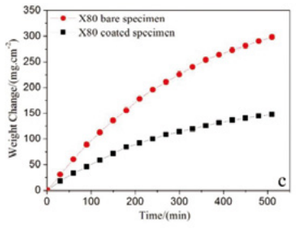


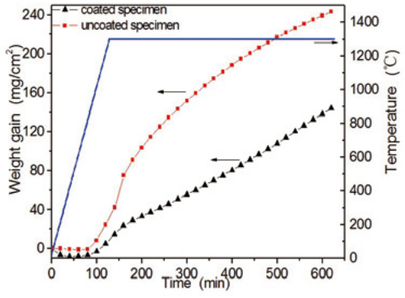
Does not affect the chemical composition of the substrate surface; High pressure water can completely fall off after phosphorus removal.

It is non-toxic and pollution-free. High temperature resistance, no pollution to the environment after heating.

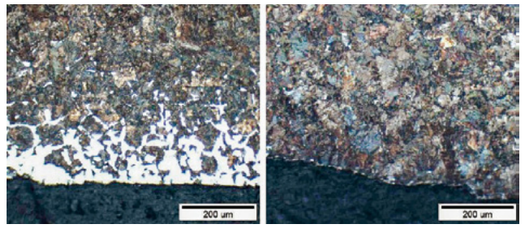
Performance of micro-nano coating isolating agent for high temperature protection

- The high temperature anti-oxidation coating for low alloy steel can reduce the oxidation and burning loss of steel by more than 50% under high temperature environment.



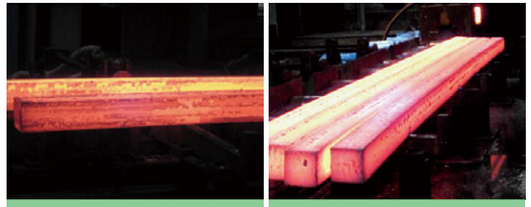


- Nanjing Iron and Steel Co., Ltd., Yonglian Iron and Steel Co., Ltd., Baote Iron and Steel Co., Ltd., Jiyuan Iron and Steel Co., Ltd., Minguang Iron and Steel Co., Ltd. and other enterprises have carried out many tests of high-temperature anti-decarburization coating, and the online industrial stable application has reached more than two years.
- The coating can effectively reduce the decarburization layer by more than 60%, and the product quality far exceeds the requirements of the national standard. Some steel grades have zero decarburization.
- The anti-decarburization effect of spring steel ensures that the total decarburization is zero, and the total decarburization is reduced by more than 25%.



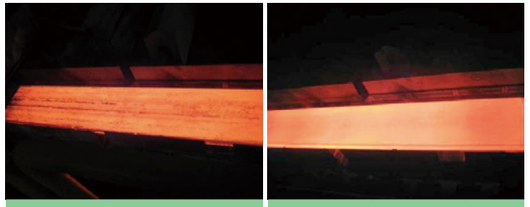
Working principle:

The oxide particles in the coating are scattered in the coating slurry and cover the surface of the steel sample substrate. With the increase of temperature, the FeO generated by the initial oxidation of Fe has certain plasticity. The oxide particles in the coating are coated on its surface as the growth nucleation. With the increase of temperature and the extension of the high temperature period, the FeO continuously reacts with the internal coating components to form solid solution, The newly formed Fe_2O_3 continues to wrap on the surface of the nucleator, and also continuously reacts with the coating, and finally the coating reacts completely.



Photos of blank billet after descaling | After the coating is applied to the billet surface

Photos of descaling effect of application contrast of 60Si2Mn spring steel coating of Fangda Special Steel



Photos of blank billet after descaling | Photos of blank billet after descaling

Photos of descaling effect compared with application of X80 pipeline steel coating in Shougang Qiangang

ROLLS

Rolls for Hot Rolling Mill

Work Roll

Assembly

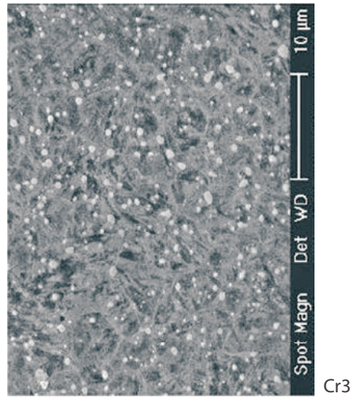
Back Up Roll

Rolls for Cold Rolling Mill

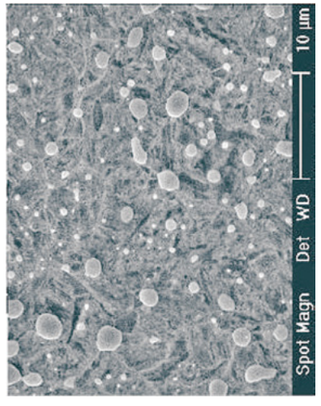
Work Roll

Back Up Roll

Sendzimir Mill Roll



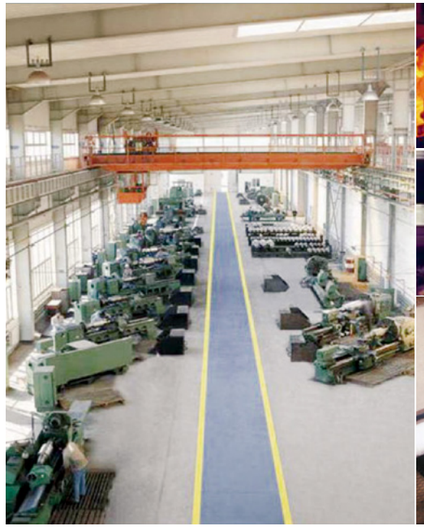
Cr3



Cr5

Microstructure

Rolls for Wire Rod, Bar, Section Mill, and Tube Mill



Section Mill Roll

Section Mill Roll

Piercing Roll

Sizing Roll

Forming Roll

Work Roll

Straightening Roll

Reeler Roll

Roll Reference Highlights

Roll for Hot Rolling Mill - Flat Product

S.N	Description	Dimension	Customer
1.	ICDP Work Roll	Φ710×1700	ArcelorMittal Temirtau
		Φ1000×1700	
		Φ950×1700	
	Hi-Cr Work Roll	Φ710×1700	
	ICDP Backup Roll	Φ750×1700	
2.	ICDP Work Roll	Φ928×3300	Liberty Galati
		Φ1050×3300	
	Hi-Cr Work Roll	Φ750×1740	
	ICDP Work Roll	Φ750×1740	
		Φ750×2100	
3.	Forged Backup Roll	Φ920×920×3292	TOSYALI
	Cast Steel Backup Roll	Φ920×920×3292	
	Hi-Cr Work Roll	Φ500×1150×3370	
		Φ460×1150×3335	
4.	ICDP Work Roll	Φ600×760×1876	HHS
5.	ICDP Work Roll	Φ1050×1200	Joint-Stock Company "ECVIBALT"
		Φ1100×1200	
6.	ICDP Work Roll	Φ1212×9820	JSC OMK-Stal
	Back Up Roll	A2302x11226	
	ICDP Work Roll	Φ810×2250	
7.	ICDP Work Roll	Φ700×1830	Shangcheng Co.
	Hi-Cr Work Roll	Φ700×1830	
8.	EN-ICDP Work Roll	Φ750×2200×4915	Yieh United
		Φ680×750×4915	
	ICDP Work Roll	Φ680×750×4915	
9.	EN-ICDP Work Roll	Φ780×2350	China Steel Corporation

S.N	Description	Dimension	Customer
10.	ICDP Work Roll	Φ650×1897	AHMSA
	Hi-Cr Work Roll	Φ660×1717	
	EN-ICDP Work Roll	Φ1010×3650	
11.	HSS Work Roll	Φ750×2050	JSL Orissa Plant
	ICDP Work Roll	Φ750×2050	
12.	Hi-Cr-Work Roll	Φ814.4×1810	JSL Hisar Plant
13.	Adamite Work Roll	Φ1050x1535	SAIL SALEM
14.	SGA Work Roll	Φ 470x1020	JSL Hisar Plant
	ICDP Work Roll	Φ720×1800	
15.	SCP F1-F4 WR	Φ810/730x2050x5105	Esfahan Mobarakeh Steel Co.
16.	Hi-Cr Work Roll	Φ835X2050x5685	Formosa Ha Tinh Steel Corp.
	EN-ICDP Work Roll	Φ695x2450	
17.	Hi-Cr Work Roll	Φ770x1740	Liberty-Galati
	ICDP Work Roll	Φ770x1740	
		Φ770x2000	
18.	EN-ICDP Work Roll	Φ840x3035	Maghreb Steel
19.	ICDP Work Roll	Φ673x1370	SIJ Acroni
20.	SGA Work Roll	Φ456*800	PROMET STEEL EAD

Roll for Cold Rolling Mill - Flat Product

S.N	Description	Dimension	Customer
1.	Forged Steel Work Roll 3%Cr	Φ340×1160×3400	Salzgitter Mannesmann GmbH
2.	Forged 3%Cr Work Roll	Φ483x1066	AHMSA
3.	Forged Steel Work Roll 2%Cr	Φ600×3745	Liberty Galati
4.	Forged Steel Work Roll 3%Cr	Φ258×1625×2820	ASSAN Aluminium
		Φ260×1600×2930	
		Φ660×1537×2895	
		Φ660×1570	

S.N	Description	Dimension	Customer
5.	Forged 5%Cr Work Roll	Φ470x2320	Constellium
	Forged 5%Cr Back-Up Roll	Φ1405x2040	
6.	Forged Steel Back-Up Roll 3%Cr	Φ1345×1675	Shangcheng Co.
7.	Forged Steel Work Roll 3%Cr	Φ380×1600×3796	Taiwell Co.
		Φ850×1650×5200	
	Forged Steel Back-Up Roll 2%Cr	Φ960×1550×4010	
	Forged Steel Back-Up Roll 3%Cr	Φ1350×1500×4550	
8.	Forged Steel Work Roll 3%Cr / 5%Cr/ H12 / D2	Φ80-Φ1300	Lianzhong Co.
9.	Forged Steel Work Roll 5%Cr/ H12 / D2	Φ80-Φ450	Yieh United Co.
10.	Forged Steel Work Roll 5%Cr	Φ80-Φ450	Yehui, Yieh United
		Φ1200×1420×4160	
	Forged Steel Work Roll 3%Cr	Φ856×1350×3010	
11.	Forged Steel Back-Up Roll 2%Cr	Φ440×1400	NLMK
		Φ615×2030	
12.	Forged Steel Back-Up Roll 3%Cr	Φ560×2160	MMK
13.	Forged 3%Cr Work Roll	Φ370	JSL Orissa Plant
	Work Roll	Φ2100×4540	
14.	Sendzimir Work Roll	Φ198×1973.5	JSL Hisar Plant
		Φ205×1816.5	
15.	SPM Work Roll	Φ930x2030x4740	Esfahan Mobarakeh Steel Co.
	SPM Back-up Roll	Φ1250x1770x4260	
16.	Back Up Roll		xunqian
17.	Back Up Roll		TMK
18.	Leveller roll	Φ400*3650*5565	BlueScope
	Table Roll	Φ300	
	Leveller roll	Φ203*3657*4457	
19.	Table Roll	Φ260-300	NewZealand Steel
20.	Sink Roll	Φ762*1524*2036	BlueScope
	Turn Roll	Φ610	
	Blade		

S.N	Description	Dimension	Customer
21.	Sink Roll and Stab roll and arms	Φ230-610	Malaysia BlueScopew
	Turn Roll	Φ600	
22.	Sink Roll and Stab roll and arms	Φ200-610	Indonesia BlueScope
23.	Blade		Thailand BlueScope

Roll for Long Product Rolling Mill

S.N	Description	Dimension	Customer
1.	Cast Iron Work Roll	Φ370×360×1373	ArcelorMittal Kriviy Rih
		Φ400×710×2047	
2.	Cast Iron Work Roll	Φ480×900	Qatar Steel Company
		Φ550×1000	
3.	Cast Iron Work Roll	Φ460×830×2235	Joint-Stock Company "ECVIBALT"
		Φ455×1000×2435	
4.	Cast Iron Work Roll	Φ300-Φ600	Qatar Steel Company, Dubai branch
5.	Acicular Nodular Iron Work Roll	Φ320×500	Taiwan Hantai Co.
	Nodular Iron Work Roll	Φ390×650	
6.	Acicular Nodular Iron Work Roll	Φ320×500	ArcelorMittal Annaba
7.	Cast Iron Work Roll	Φ330×500	ArcelorMittal Temirtau
8.	Nodular Iron Roll Ring	Φ395×200	ArcelorMittal Ispat
9.	Tungesten Carbide Groove Roll	Φ216×64	Rathi Steel
10.	Cast Iron Roll	Φ365x600x1308	AC DMCC
		Φ375x600x1308	
11.	SGP Rolls	Φ355×500	AF DMCC
	SGA Rolls	Φ355×500	
12.	Cast Iron Work Roll	Φ957×1450	Sumitomo
13.	SGPB Roll	Φ813×1100	JSL Hisar Plant
	SGPB Roll	Φ533×452	

S.N	Description	Dimension	Customer
14.	SGP Rolls	Φ520×800×2141	Sinosteel Indo
		Φ610×800×2681	
15.	SGP Rolls	Φ350x1597	SSESTEEL
16.	SGP Roll	Ø530X800-Ø430X700	SARL Lamoa
17.	CCSGA Roll	Φ370x600x1597	SSESTEEL
18.	SGP Rolls	Φ480×2300	Nusantara Steel Mills
19.	SGP Rolls	Φ330-Φ610	Delcoprima Pacific Steel
20.	SGP Rolls	Φ433	JSL Hisar plant
21.	Adimte Roll for RMWR	Φ1050	SAIL SALEM
22.	Nodular Pearlitic Cast Iron Work Roll	Φ700×550	BSRM
	SGA Roll	Φ450×700×1865	
23.	SGP Roll	Φ440×750×1810	Formosa Ha Tinh Steel Corp.
24.	SGP Roll	Φ280×400×1182	Yieh Hsing Enterprise Co., Ltd.
25.	Semi Steel	Φ650*800*2095	ALGERIAN QATARI STEEL
26.	Cast Iron Work Roll	Φ360×650-Φ550×1000	Qatar Steel Company
27.	Cast Iron Work Roll	Φ304.8×431.8-Φ600×760	Qatar Steel Company, Dubai branch
28.	Nodular Iron Work Roll	Φ330×500	Siderpueru
		Φ510×400	ArcelorMittal Brazil
29.	Nodular cast iron pearlitic	Φ550x1500	SIJ Metal Ravne
30.	Cast Iron Roll	Φ530x800x320	AM Kryviy Rih
		Φ470x800x280	
31.	Ring	PQF - 125	Byelorussian Steel Works
		PQF - 184	
32.	Cast Iron Roll	ϕ400x700	JSC Chusovoy Metallurgical Works
	Cast Iron Roll	ϕ400x700	
33.	Cast Iron Roll	Φ300x610x1565	AM Zenica
34.	Cast Iron Roll	Φ360x610x1566	SIDER PERU
	HSS Roll	Φ380x610x1567	
35.	Working Roll for Tube in assembled	finishing caliber 288	JSC OMK-Stal
36.	ICDP Steckel Work Roll	Φ673x3420	SIJ Metal Ravne

Manufacturing Capacity for Rolls

for HSM & CSM

	Casted Roll		Forged Roll	
	WR / IMR	BUR	WR / IMR	BUR
Barrel length (mm)	6,500	6,500	4,000	4,950
Diameter (mm)	1,600	2,000	1,020	2,300
Max. Weight (kg)	75,000	75,000	25,000	230,000
Total length (mm)	12,000	12,000	12,000	12,000

for Wire Rod & Bar Mill

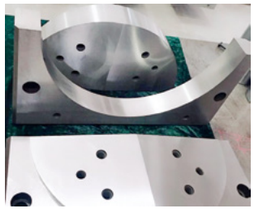
Description	Capacity
Max. Diameter (mm)	1,200
Max. Total length (mm)	6,000
Max. Weight (kg)	23,000

for Universal Section Mill Roll

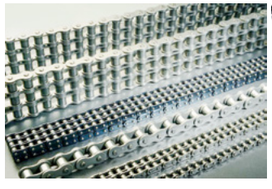
Roll Type	Material	Max Diameter (mm)	Hardness (HS) Barrel	Hardness (HS) Neck
BD roll	Special alloy cast steel	1200	38-48	35-45
	Alloy nodular graphitic cast iron		44-54	35-45
H-ring	High carbon adamite	1600	45-65	—
	Double-poured		60-70	—
V-ring	Double-poured	1600	55-65	—
	High carbon adamite			

SHEAR & CHAIN

S.N	Description	Customer
1.	Shear	Tosyali, Turkey
2.	Shear	ICDAS, Turkey
3.	Shear	Tosyali, Algeria



S.N	Description	Customer
1.	Chain	ArcelorMittal, Meixco
2.	Chain	MMK, Russia
3.	Chain	Arcelormittal Temirtau, kazakhstan



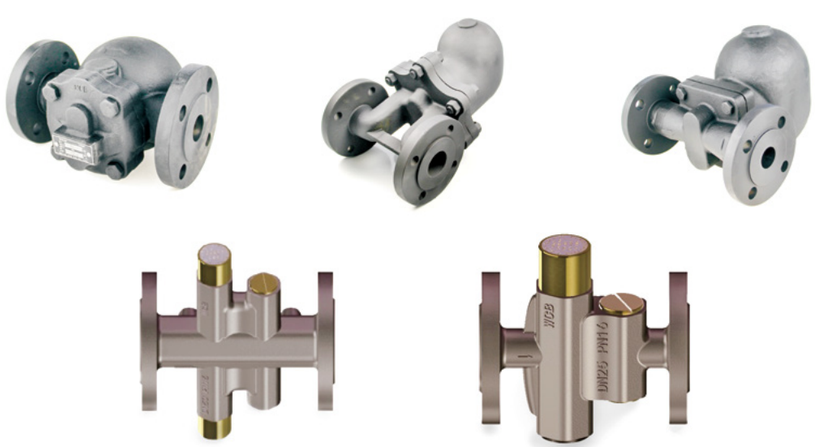
Steam Trap Valve

- Energy Loss: Steel Plant Steam leakage
- Energy Saving Solution:

  Sinosteel Steam Trap Valve ----Better water & steam separation performance, water discharge with nearly 0% steam leakage.

Reference Highlights

S.N	Application	Customer
1.	Oxygen Plant	Baosteel Bayi plant
2.	Power plant	Dalian Special steel plant
3.	Power plant	Liaoning Lingyuan Steel plant
4.	Coke oven plant	Tangshan Ganglu steel
5.	CRM plant	HBIS Tangshan plant
6.	Steam pipeline	Benxi Steel
7.	Steam pipeline	Ma Steel
8.	ammonia still	Ningbo Iron and steel
9.	Air compression station	Rizhao Iron and steel
10.	Steam pipeline	Sha Steel



Filter

Sand Media Filter

- Double-chamber structure, uniform distribution of water cap, impurity removal rate of 99%, and small pressure loss.

Self-Cleaning Filter

- Optimized design with small pressure loss and more thoroughly backwash.
- The cartridge assembly adopts integrated processing with higher precision and more stable operation.
- Three types of backwash control: time, differential pressure and manual.

Cored Wire for Steel Refining

S.N	Description	Specification	Customer
1.	Carbon Wire	Dia: 16-21mm C≥98% S≤1.0% Powder Weight: 250g+/-10g/m ID: 550mm OD:1100mm Weight: 2000kg/coil +/-10%	AHMSA, Mexico
2.	CaSi Wire	Dia: 16-21mm Ca.....28.0 - 32.0% Si..... 58.0 - 65.0% Al.....1.5% Max C .....1.0% Max Powder Weight: 320g+/-10g/m ID: 550mm OD:1100mm Weight: 2000kg/coil +/-10%	AHMSA, Mexico
3.	FeCa Wire	Dia: 16-21mm Ca.....29.0 - 32.0% Fe..... 68.0 - 72.0% Powder Weight: 290g+/-10g/m ID: 550mm OD:1100mm Weight: 1000kg-2500kg/coil	AHMSA, Mexico
4.	Al Bar	Dia: 15mm Al.....99.8% Si+Fe.....0.18% Mn.....0.0062% Cr..... 0.002%Max Cu.....0.0005%Max Zn.....0.0028% Mg.....0.0010%Max Hardness: 18.9HR Tensile Strength:12-15 K-LBS/PLG2 ID: 550mm OD:1100mm	AHMSA, Mexico

Ferro boron

Calcium aluminate

Fluorite

Carbon addtive

Refractory

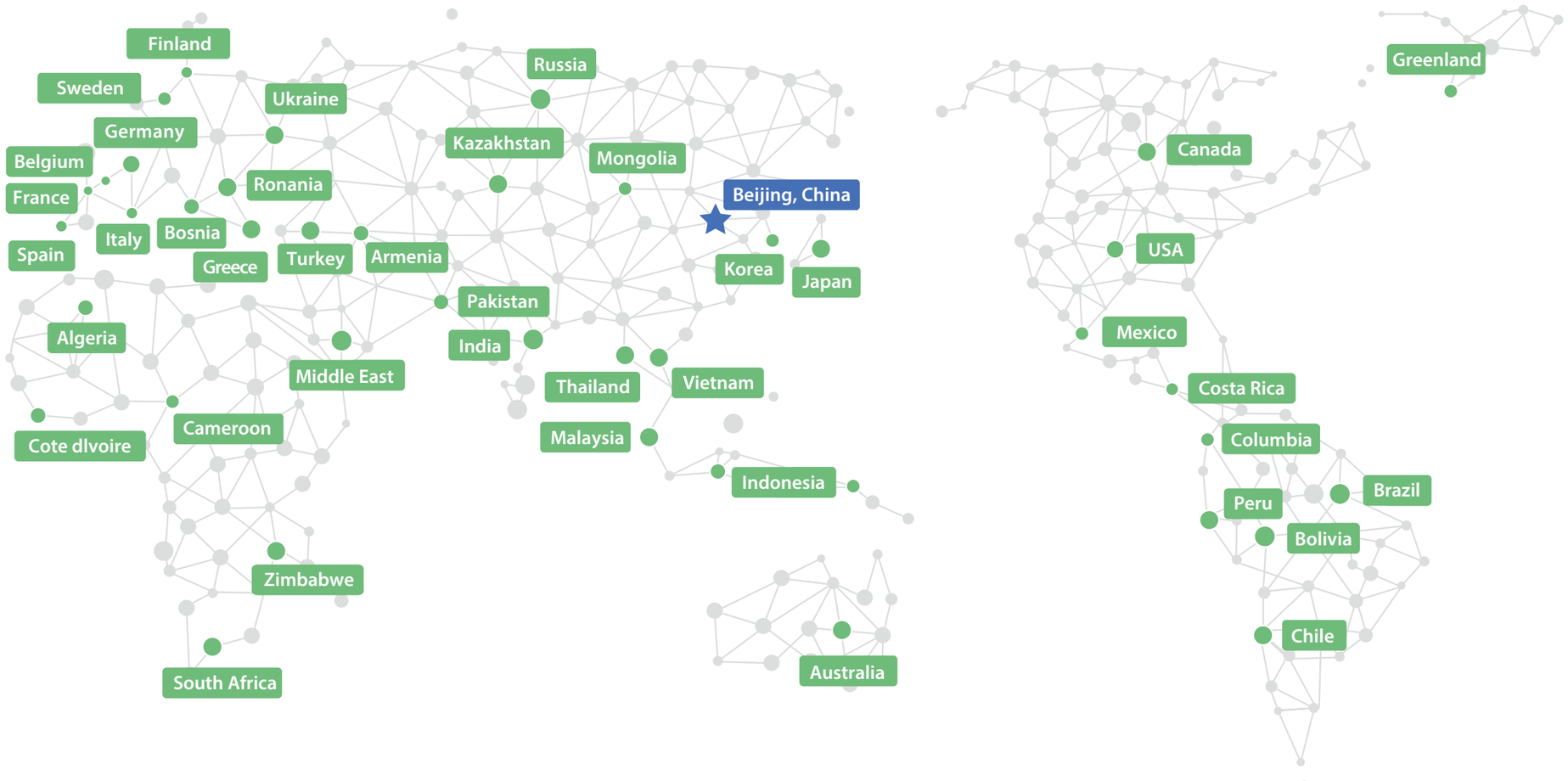
Refractory for Iron Making

S.N	Description	Specification	Application	Photo
1.	Si_3N4 Bonded Sic BrickSi3N4	SiC≥70~72%	Inset/Lining/ Tuyere	
2.	Silica Brick	SiO_2≥75%	Hot Stove	
3.	Fireclay Brick	$Al2O_3$≥36~42%	Hot Stove	
4.	Ramming Mix	Baking Free$Al2O_3$≥58%	Trough	
5.	Trough Cover Castable	Al_2O_3 ≥40~55%	Trough	
6.	Refractories for Torpedo Car	Al_2O_3-SiC	Torpedo Car	

Refractory for Steel Making

S.N	Description	Specification	Application	Photo
7.	Precast Blocks & Castables	Al_2O_3≥80~85%	EAF/LF roof	
8.	Working Lining	Al_2O_3-MgO≥85~95%	Ladle	
9.	Purging Plug Set	Purging PlugWell BlockMortar	Ladle	
10.	Ladle Shroud	Free SiO_2Gradient Anti-oxidation Coating	CCM	
11.	Stopper	Alumina CarbonMagnesia CarbonZirconia CarbonSpinel Carbon	CCM	
12.	SEN	_	CCM	

Global Vision



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