

SěAHBesteel

Special Steel

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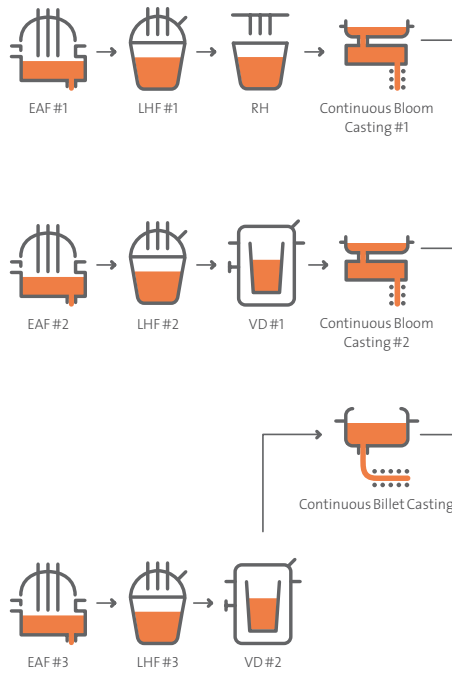
With state-of-art facilities, world-class technologies and craftsmanship, SeAH Besteel supplies more than high-quality products and services, we provide better solutions.

Established in 1997, SeAH Besteel provides exceptionally functional high-grade special steels. Equipped with a highly automated-integration manufacturing process and continuous operation excellence initiatives, we aim at being one of the most research-intensive steel-making companies. Venturing away from the status-quo, we are a global leading special steel supplier providing better solutions and value to customers, through our price and quality competitiveness.

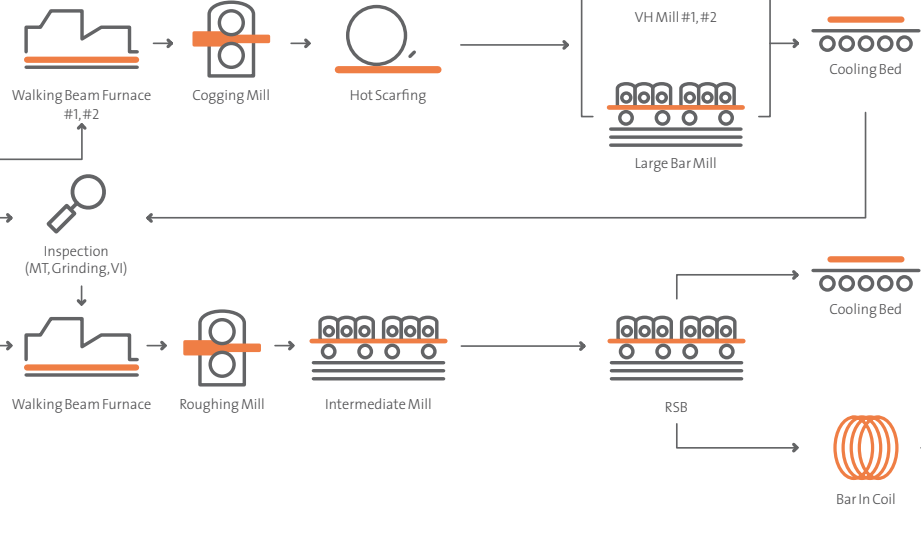
Manufacturing Process (Special Steels)

SeAH's optimized and continuously-modernized manufacturing process enables us to make unrivalled offers to satisfy customer needs and requirements, and to maintain our leading position in a highly competitive market.

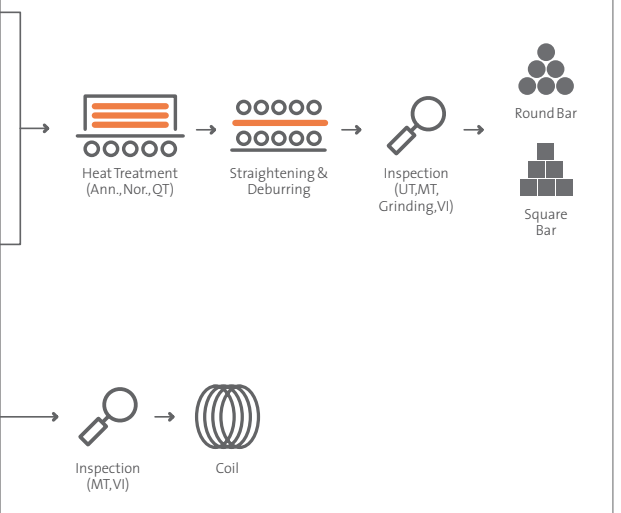
Melting & Casting



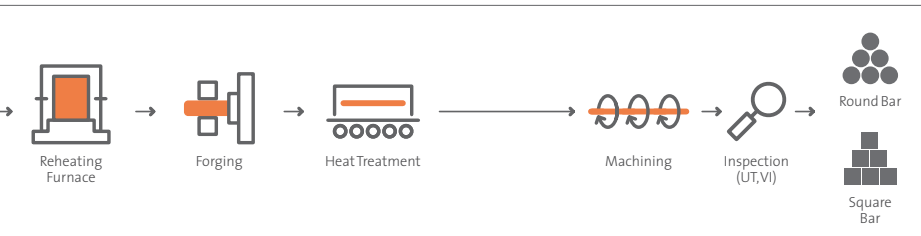
Rolling



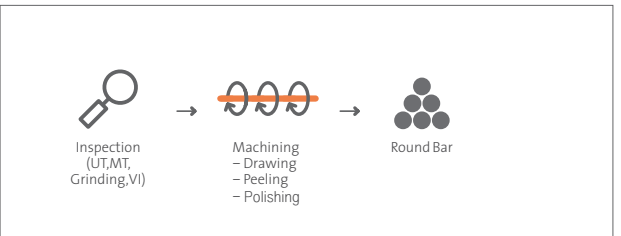
Inspection & Conditioning



Forging



Secondary Processing



Material / Application

Business Area	Classification	Steel Parts	Steel Specifications Offered (steel product names)	
Automobile	Engine	Crank Shaft	SCM440H, S40M5V, 44MNSIVS6	
		Connecting Rod	S36CVS2, S70CVS1	
		Cam Shaft	SUM43, SM45C, 50CRMO4	
		Piston	38MNSIVS5	
		Pully	SM10C	
	Transmission	Gear	SCR420HB, SCM920HVSI, SCR420H1	
		Shaft	SCM920HVSI, SCR420HB, SCR420H	
		Outer Race	UC1, S53CCF, S53CRB	
		Inner Race, Spider	SCR420H, SCM420H	
	Chassis	Tripod Housing	XC45, XC55, XC48, S53CCF	
		Drive Shaft	38B3, SAE10B38 (M2)	
		Axle Shaft	SAE1038R, SAE51B35, AISI1541	
		Spindle	1524HMOD, SAE1043M	
		Wheel Hub	S40CV, S55CR	
		Knuckle	SCM440H, SCR440H	
		Rack Bar	S45CS1-QD, SAE1141M	
	Construction, Heavy Equipment	Undercarriage, Chassis	Link	15B36M (1), SAE10B35M, SMNB3H-1
			Cylinder Rod	SM45C (S), SBNH75
Pin			S43BCH, SCR440B	
Engine, Transmission		Crank Shaft	SCR440	
		Cylinder, Head	SCM415 (420)	
Breaker		Through Bolt	SNCM630, SNCM439	
		Chisel	SCM440, AE4140	
		Piston	SNCM26V, SNCM439	
Construction Material		Tunnel Girder		
Shipbuilding		Structural Part	Stay Bolt, Stud Bolt	SCM440, SNCM439
	Mooring Chain		R4 (S), R35, R5	
	Chain	Anchor Chain	SBC690, R3, SBC490	
Bearing	Automobile	Inner, Outer Race	STB2, 100CRMNSI6-4 (A), SCR420HQ	
	Heavy Equipment	Bearing Hub	S55CR, GRADE55, GRADE70	
Industrial Machines	General Machinery	Cam Lobe	100CR6	
		Gear	42CRMO4, 18CRNIMO7-6+FP, SM45C	
		Shaft	SM45C, 34CRNIMO6	
	Injection Molding Machine	Bolt, Nut	SM45C, SAE10B30	
Petrochemistry	Drilling Tool	Screw	SALCRM01	
		Drill Collar Bar, Oil Tool	4145M, 4145H MOD, AISI4145 MOD	
	Tool Joint	4137M (A)		
Oil Transfer Equipment	Seamless Pipe	J55, X52, A106 B&C		
Spring	Automobile	Leaf Spring	SUP9 (DA)	
	Heavy Equipment	Coil Spring	SUP11D, XK92M48S	
	Industrial Machines	Torsion Bar	SAE9254	
Home Appliances		Shaft	SUM32F, SM45C	

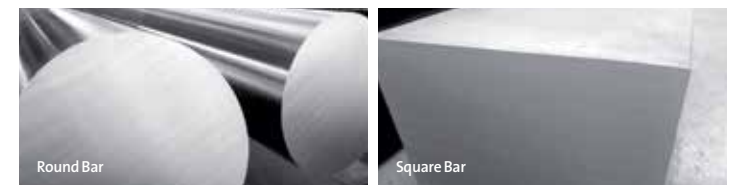
Manufacturing Capacity

Category	Surface	Size (mm)		Length (m)		Heat Treatment	Note
		From	TO	From	TO		
Rolled Bar	Round Bar	BS	19.0	350.0	4.5	7.2	Produced sizes and lengths may differ for each process. Possible non-conditioning production up to 14.5m of over Φ200
			PM	20.0	120.0	4.0	
		RT	120.0	155.0	4.5	8.0	
	CD	20.0	50.8	4.0	6.9		
		Square Bar	83.0	250.0	4.5	7.2	
Wire Rod		16.0	38.0				
Forged Bar	Round Bar	BS	150.0	850.0		8.0	LA FA SA NOR SRA FPA QT
			RT	130.0	830.0		
	Square Bar	130.0	750.0		8.0		
		Shape Forged Bar				8.0	
Semi-Finished	Bloom		510 x 390		3.5	5.5	
	Ingot		3.3 ton	23.6 ton			SRA LA FA
		Square Billet	160.0	180.0	8.0	12.0	Non-Conditioning 4.5-11.0m
Round Billet	150.0	210.0	6.6	12.0	Minimum length of 9.5m for Φ170 or less		
Die forging (cold)		Outer Race / Tripod Housing					

Rolled



Forged



Semi-Finished



Main Facilities

Electric Arc Furnace

Equipment No	4 ea
Type	Eccentric Bottom Tapping (Clean steel production)
Transformer Capacity	65MVA
Electrode Size	22inch (550mm)
Melting Capacity	100ton (3), 150ton (1)

Degassing

Equipment No	4 ea
Type	Ruhrstahl Heraeus, Vacuum Degassing
Degree of Vacuum	0.8mbar
Vacuum Time	10~25min
Melting Capacity	100ton (3), 150ton (1)



Continuous Bloom Casting

Equipment No	2 ea
Type	Curved Type
Bloom Size	□ 390 x 510mm
Bloom Length	3,500 ~ 5,600mm
Casting Speed	0.4 ~ 0.6m/min
Strand	2 strands



Continuous Billet Casting 1 Continuous Billet Casting 2

Equipment No	1 ea	Equipment No	1 ea
Type	Curved Type	Type	Curved Type
Billet Size	□ 160 & 180mm	Billet Size	□ 160 & 180mm
Billet Length	6,000~12,000mm	Billet Length	φ150~210mm
Casting Speed	1.4~2.8m/min	Billet Length	6,000~12,000mm
Strand	3 strands	Casting Speed	1.4~2.8m/min
		Strand	5 strands

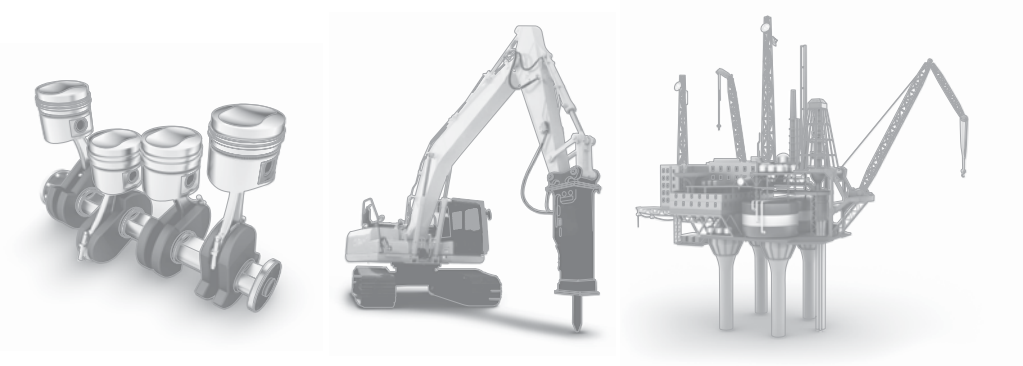


Products

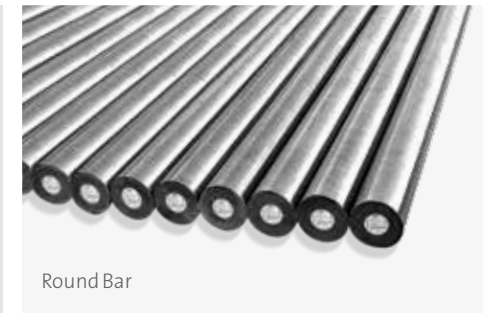
SeAH is a leading supplier of the highest quality steel products that are engineered for operational reliability in various industries, including automotive, industrial machinery and energy. The objective of SeAH's on-going product and process innovation initiative is to strengthen our competitiveness in the high-purity steel market. To that end, we were a pioneer in introducing state-of-art manufacturing facilities in the Koreasteel industry with regard to, for example, RH refining and large continuous bloom casters.

Automotive parts

Construction / Industrial machinery Energy



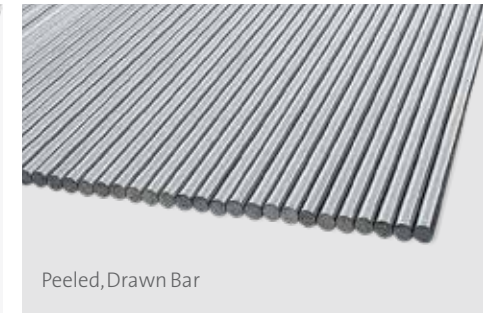
Forged Bar



Round Bar



Large Square Bar



Peeled, Drawn Bar

Certificates

System



Quality Management System
IATF16949



Quality Management System
ISO 9001:2015



Environment Management System
ISO 14001



Energy Management System
ISO 50001



Health and Safety Management System
OHSAS18001



Health and Safety Management System
KOSHA18001

Classification



KR
Ingots & Bloom & Billet
Rolled Bars
Forgings



NK
Ingots & Forgings
Rolled Bars



Lloyd's
Ingots & Bloom & Billet
Rolled Bars
Forgings



DNV GL
Ingots & Bloom
Rolled Bars
Forgings



RINA
Ingots & Bloom
Rolled Bars
Forgings



ABS
Ingots & Bloom & Billet
Rolled Bars
Forgings



BV
Ingots & Bloom & Billet
Rolled Bars
Forgings



RS
Ingots & Forgings
Rolled Bars



CCS
Ingots
Forgings

Product



KS
KSD 3503/3752/3867
(Gunsan)
KSD 3752/3867
(Changnyeong)



JIS
JIS G
3101/4052/4501/4503
(Gunsan)
JIS G 4501/4503
(Changnyeong)



PED
Forgings,
Forged Bars and
Rolled Bar



ASME
N, N3, NPT Stamps



KEPIC
As a Material
organization
Manufacturing and
Supplying of Forging



BIS
Hot rolled bars
Carbon steel round
bars

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