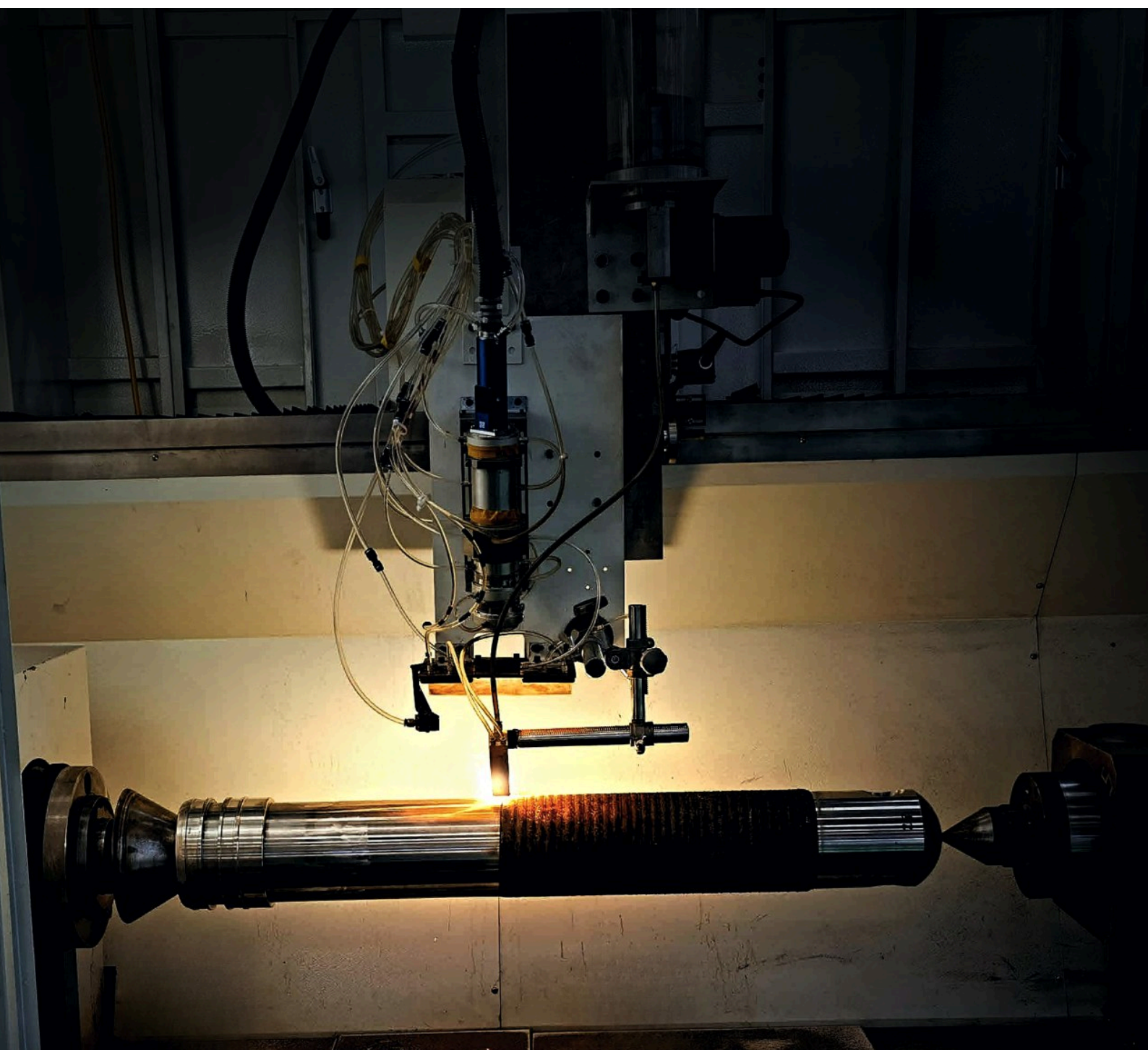


BERUI

RESHAPE YOUR INDUSTRY

a **BEISCO** brand

Industrial Technologies & Solutions



BE RUI

RESHAPE YOUR INDUSTRY

a BEISCO brand

THREE READINGS, ONE NAME

BEISCO Reshapes your Industry

The promise

BERUI stands for BEISCO Reshapes Your Industry. It is what the brand has to deliver: equipment, technology and service that change how a mill runs, not only what it buys.

The partner

RUI is also part of Ruiheng, the name behind RHCNC, one of BERUI's lead partners. The roll shop and machine tool chapters of this catalogue are built on that partnership.

The word

In Chinese, **ruì** carries the sense of wise, sharp, far-sighted: close to **smart**. It is the standard we hold ourselves to on every enquiry.

One brand for the technologies, equipment and services a steel plant needs, with BEISCO's engineering behind every product.



From the furnace to the last knot.

BERUI is BEISCO's brand for industrial technologies: the machines, equipment, tools and services a steel plant buys. Behind every product in this catalogue stands BEISCO, the Izmir engineering and project company for the iron and steel industry.

A rolling mill reshapes steel. It does that only while every part of it holds: the lining in the furnace, the shaft that drives the stand, the groove in the roll, the knot on the bundle, the pressure in the cylinder, the signal in the cabinet. When one of them fails, the line stops. Then nobody asks where the part came from. They ask **who understands it**.

That is why BERUI exists, and why it stands on BEISCO's engineering. At its centre is our **Izmir workshop**, where we rebuild worn rolls with laser technology, and our role

as RHCNC's service centre for laser and roll-lathe equipment. Around it, BERUI brings together what a mill buys: the machine tools, packaging machines and refractories of our partners RHCNC, Recast and HOFENG, and the rolls, tools, components, cardan shafts, hydraulics and automation BERUI supplies.

When you ask us about a part, you talk to engineers who know where it goes.

WHAT BERUI BRINGS TOGETHER

Laser & the roll shop

Worn rolls rebuilt with laser technology in our Izmir workshop, and the service centre for RHCNC roll-lathe and laser equipment.

CNC machine tools

Roll lathes, roll-ring lathes, rib-groove milling machines, universal lathes and wire cutting machines by RHCNC.

Supply for the whole line

Mill rolls, rings and cutting tools, mechanical equipment, spare parts and cardan shafts, packaging machines by Recast and refractories by HOFENG.

Hydraulics & automation

Solved together with leading partners in the field, starting from what the machine has to do.

Engineering heritage

ENGINEERING · EQUIPMENT MANUFACTURING · TECHNOLOGY SUPPLY · COMPLETE PLANT PROJECTS

From turn-key projects to the spare part.

From engineering to manufacturing, from turn-key projects to technological plant equipment: BEISCO has the know-how, the experience and the capacity to meet the requirements of the iron and steel industry from A to Z.

BEISCO Mühendislik Makina San. ve Tic. A.Ş. was founded in Izmir in February 2016 by a team with **more than 30 years** in the iron and steel industry. It is an engineering and project contractor: it engineers plants, manufactures equipment, supplies technology and delivers complete plant projects for rolling mills and meltshops. BERUI is the brand under which BEISCO trades industrial machinery, equipment, tools and technology. The engineering is why we know what each product in this catalogue has to do.

Ask for the BEISCO Catalogue 2026.

Engineering & turnkey solutions

Rolling mills
Meltshops
Auxiliary plants
Complete production lines
Plant modernisation and revamping
Mechanical engineering
Project management
Installation and commissioning support

Industrial equipment & systems

Mechanical equipment
Industrial machinery
Gearboxes and drive systems
Hydraulic systems
Automation systems
Electrical equipment
Industrial components
Spare parts

Industrial supply & trading

CNC machine tools
Cutting tools
Mill rolls
Carbide rings
HSS rolls
Roll shop equipment
Industrial accessories
Selected industrial consumables

IN THE BEISCO CATALOGUE 2026

Reheating furnace & furnace-area mechanical equipment
Industrial furnaces
Rolling mill stands
Rolling mill shears

Rolling mill guides
Gearboxes
Pinch rolls
Cooling systems

Wire rod mill equipment
Cooling beds
Straightening machines
Meltshop mechanical equipment

One partner for the whole line.

Eight chapters follow a steel plant from the roll shop to the meltshop: what BEISCO rebuilds and services, the machines of its partners, and what BERUI supplies for the whole line.

01	Roll shop technologies	6
	Laser cladding, alloying and hardening · roll remanufacturing in Izmir · service centre for RHCNC roll-lathe and laser equipment	
02	CNC machine tools	12
	RHCNC CNC roll lathes · roll-ring lathes · rib-groove milling · universal lathes · wire cutting	
03	Rolls, rings & cutting tools	16
	Mill rolls · HSS rolls · carbide rings · cutting tools · roll shop equipment · industrial accessories and consumables	
04	Industrial equipment & components	17
	Cardan shafts and shaft holders · gearboxes and drive systems · couplings · bearings · spare parts	
05	Packaging solutions	19
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06	Hydraulics	24
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Contact and enquiry checklist: p. 31.

01

Roll shop technologies

LASER CLADDING · LASER ALLOYING · ROLL REMANUFACTURING · SERVICE CENTRE

Worn is not finished.

In Izmir, BEISCO gives worn rolls a new **wear-resistant** surface by laser cladding and alloying and sends them back to the mill. BEISCO is also RHCNC's service centre for laser and roll-lathe equipment in Türkiye and the region.

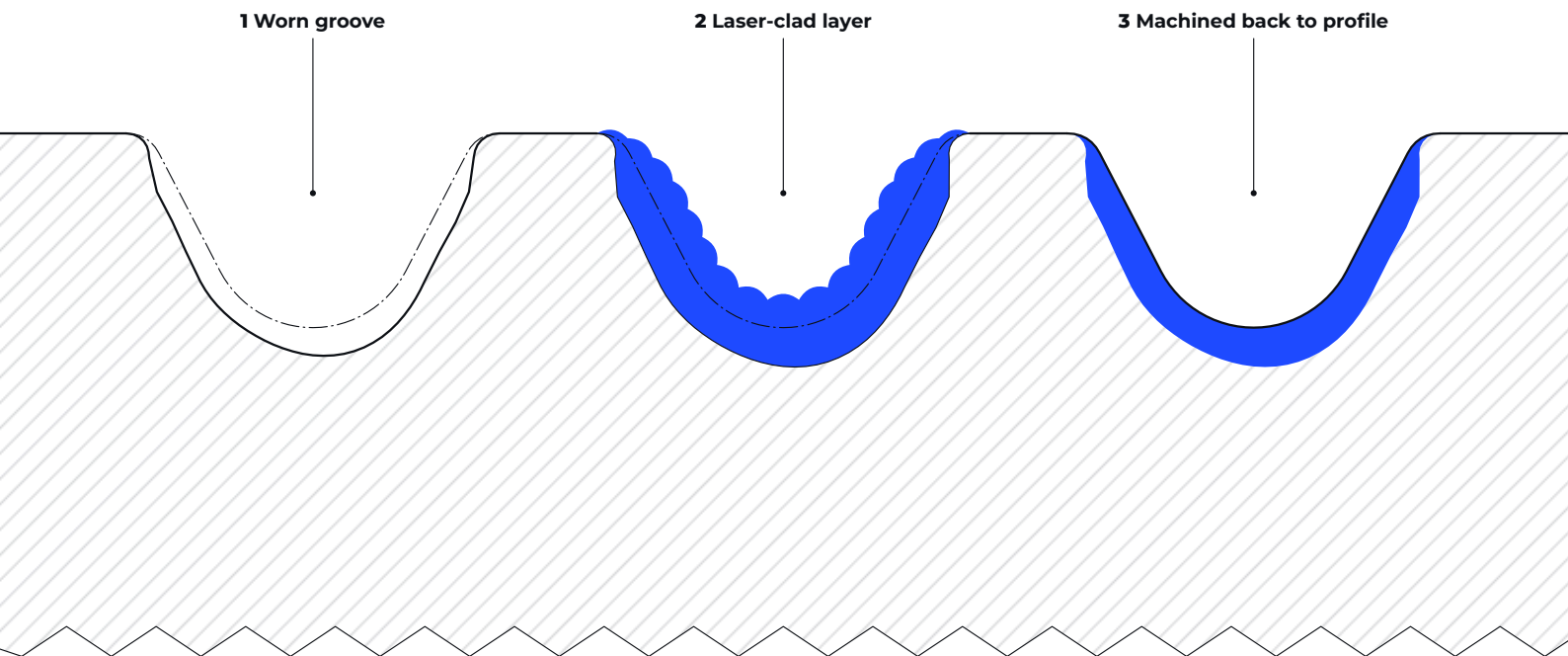
A roll does not wear out all at once. It wears in the groove, at the neck, on the surfaces that meet the steel. The rest is still there: the steel, the casting or forging, the heat treatment. The mill has already paid for all of it. Laser technology rebuilds the part that wore. This is the work at the centre of BERUI. This chapter follows it from the worn groove to the rebuilt roll, and to the service behind the machines.

Izmir

BEISCO roll remanufacturing workshop

RHCNC

BEISCO is its service centre for laser and roll-lathe equipment, Türkiye and the region



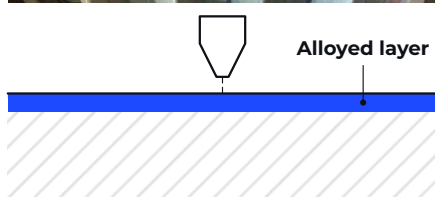
Schematic, not to scale: a roll groove before and after remanufacturing. New material in blue.

Laser surface strengthening

Alloying · cladding · hardening

A new surface, built with light.

A high-energy laser beam scans the surface. Heating and cooling happen so fast that the surface either changes its structure or takes on new material.

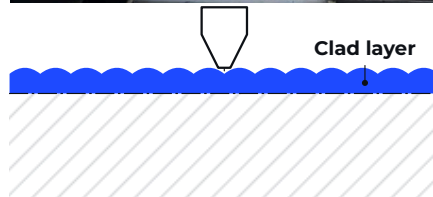
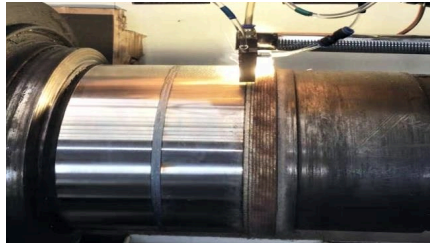


Laser alloying

Alloying elements are fused into the roll surface, forming an alloy layer of approx. **1.5–2.0 mm** of ultra-fine martensite and dispersed carbides. Groove dimensions stay **unchanged** and no further machining is needed.

TYPICAL PARTS

Roll grooves in roughing, intermediate and finishing stands.

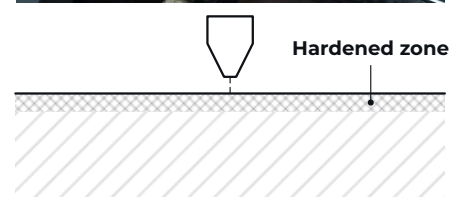
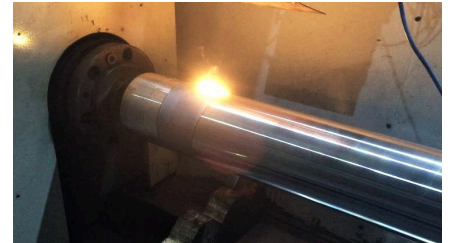


Laser cladding

Self-fluxing alloy powder is melted onto the surface and bonds metallurgically, with a very low dilution rate. Used to rebuild roll necks, gear-shaft bearing journals and guide rollers.

TYPICAL PARTS

Roll necks · bearing journals · guide rollers.



Laser hardening

Also known as laser quenching. The laser heats the surface past its transformation point, and the cold mass of the part quenches it to martensite. The composition stays the same; deformation is **minimal**.

TYPICAL PARTS

Packing-machine reels · driving and driven wheels.

WHY LASER

Little distortion

High power density and a very short interaction time keep the heat-affected zone and the part's deformation minimal.

Harder surface

A harder surface than conventional heat treatment gives, after laser quenching or alloying.

Local treatment

Heat goes only where it is needed, so complex profiles and key areas can be treated, under automated control.

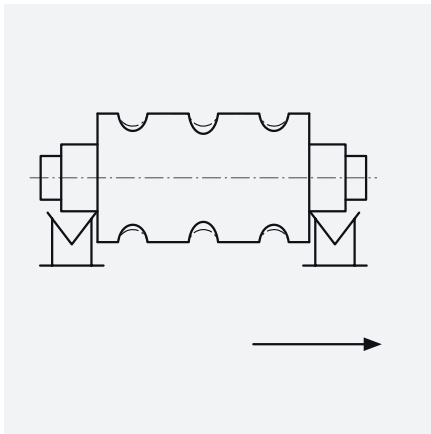
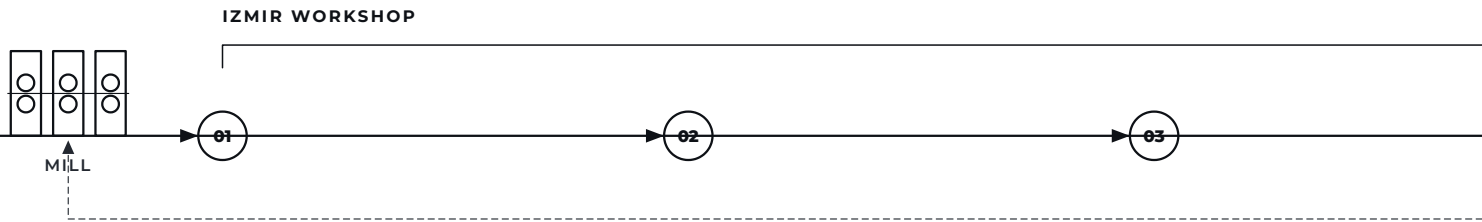
A wear layer on a lower-cost base

A wear- and corrosion-resistant alloy layer is built on a lower-cost substrate, saving precious alloy material.

Ask us which process fits your rolls and parts.

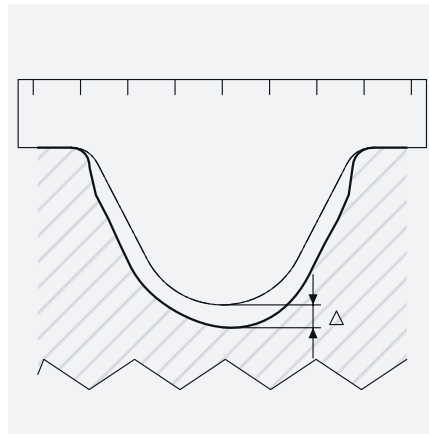
Worn roll in.

BEISCO remanufactures worn rolls and parts in Izmir, with RHCNC as technology partner.



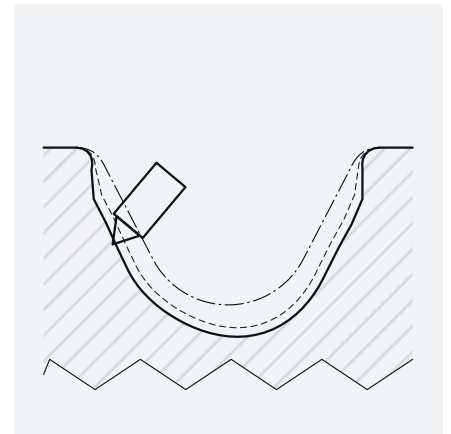
01 Collect

Worn rolls and parts come in from the mill.



02 Inspect

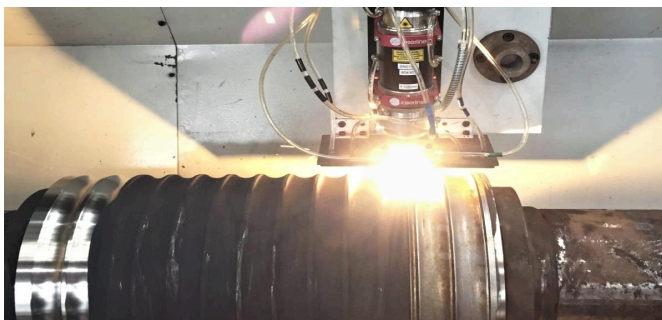
Wear, cracks and groove condition are measured.



03 Prepare

Damaged areas are machined back to sound metal.

A worn roll is not scrap. It is steel, casting or forging, and heat treatment the mill has already paid for. BEISCO collects worn rolls, mainly from roughing and intermediate stands, repairs them in its **Izmir workshop** and builds a new wear-resistant surface with laser cladding and alloying from metal powder. The same process restores shafts, rollers and **mining drill parts**.



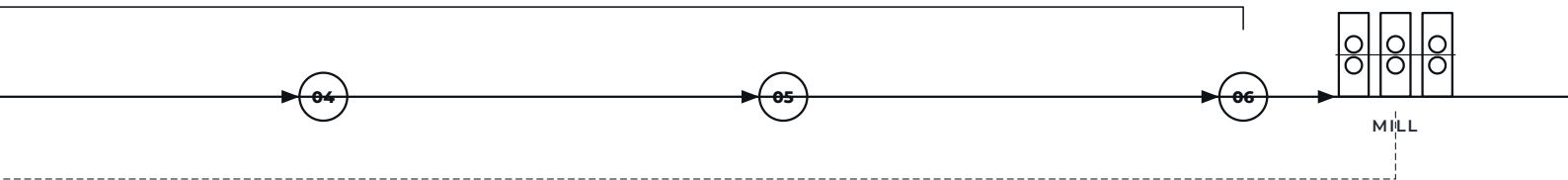
Laser cladding on a roll groove.



Laser-clad journal on a gear shaft.

Harder-wearing roll out.

For the mill, that can mean fewer new rolls to buy. What it means for your rolls depends on roll material, pass design and rolling practice.



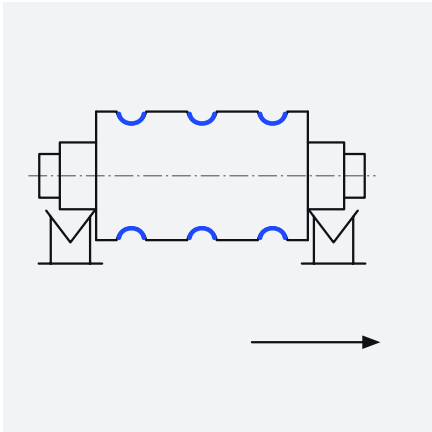
04 Clad & alloy

A wear-resistant layer is built up with laser and metal powder.



05 Machine

Profile and grooves are finished on CNC roll lathes.



06 Return

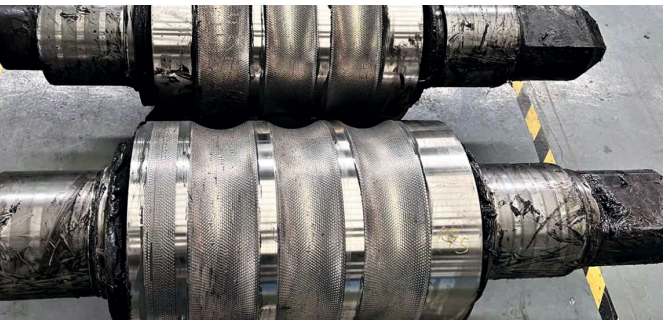
The roll goes back to the stand.

KEY DATA

Scope	Roughing and intermediate stand rolls · shafts · rollers · mining drill parts
Process	Laser cladding and alloying with metal powder
Location	Izmir, Türkiye
Technology partner	RHCNC

Send us the roll drawing and its campaign data. We will tell you what can be recovered.

Steps 01–06: schematic, not to scale.



Rolls after laser alloying.

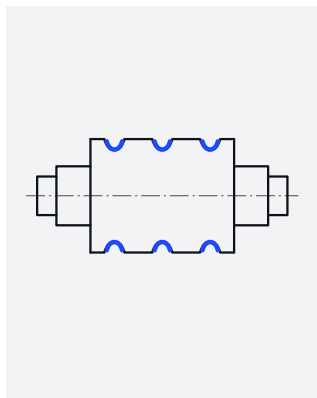


Laser-alloyed roll grooves.

What we rebuild

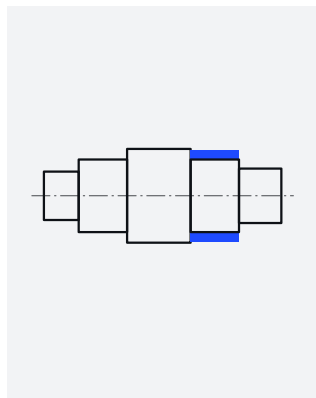
Mainly rolls. Not only rolls.

The Izmir workshop concentrates on rolls from **roughing** and **intermediate** stands. The same laser process restores shafts, rollers and mining drill parts.



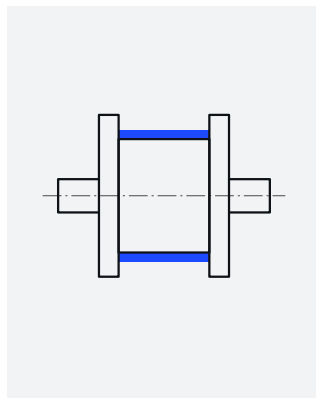
Roughing and intermediate stand rolls

Worn rolls are collected from the mill, rebuilt in Izmir and returned to the stand: the core of the workshop's work.



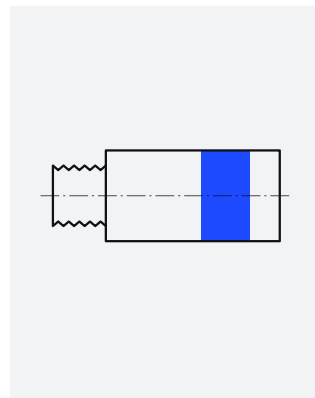
Shafts

Worn surfaces rebuilt with a laser-clad layer and machined back to size.



Rollers

Worn running surfaces rebuilt the same way.

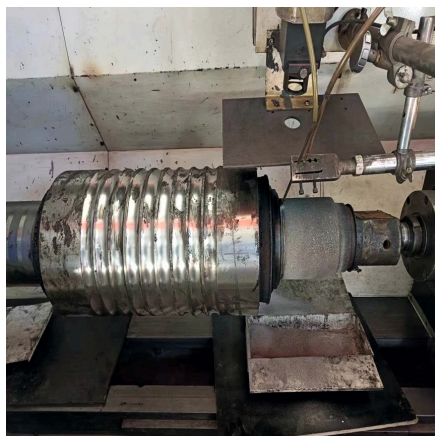


Mining drill parts

The same laser process, used outside the steel plant on wear parts of mining drills.

Schematic, not to scale. Rebuilt surfaces in blue.

EXAMPLES



Laser cladding repair on a roll.



Shafts with laser-repaired surfaces.



Guide roller after laser cladding.

Send us the part drawing, its material and where it runs. We will tell you whether it can be rebuilt.

Two-year warranty. A service centre in Izmir.

RHCNC gives each machine a **two-year** warranty covering the whole machine. In Türkiye and the surrounding region, BEISCO is RHCNC's service centre for laser and roll-lathe equipment.

2 years

Whole-machine warranty from RHCNC

24 h

RHCNC phone guidance after notice

Izmir

BEISCO, RHCNC's service centre for Türkiye and the region

Before the sale

Site visits, technical consulting and answers to your questions.

At acceptance

You are hosted at RHCNC's factory in China to accept the machine. The machine is loaded and secured for safe delivery.

After the sale

Return or replacement terms for manufacturing defects. Missing or wrong accessories and documents supplied. Phone guidance within 24 h of notice. Training in operation, simple repair and maintenance, free of charge.

In China, RHCNC's service model also includes on-site response within 24 h within 500 km, staying on site until the fault is cleared, and maintenance visits every 45 days, logged on its own O&M platform. Response times and visit cycles for Türkiye and the region are agreed in each contract with BEISCO.

Ask us for the service terms that come with your machine.



RHCK84160 shown.

CNC machine tools

RHCNC · ROLL LATHES · ROLL-RING LATHES · RIB-GROOVE MILLING · UNIVERSAL LATHES · WIRE CUTTING

The roll shop decides how long the mill runs.

RHCNC builds roll-shop machine tools. BEISCO is its distributor and solution partner in Türkiye and the surrounding region, and its **service centre** for laser and roll-lathe equipment.



RHCK84200 heavy-duty CNC roll lathe.

Every bar a mill rolls has passed through a groove someone turned. Turn it accurately and the profile holds. Give it a harder surface and it holds longer; rebuild it when it wears and it comes back. Chapter 01 covered the surface. This chapter covers RHCNC's machines that turn and mill the grooves: roll lathes, roll-ring lathes, rib-groove milling machines, universal lathes and wire-cutting machines.

IN THIS CHAPTER

RHCK84 CNC roll lathes	13
RH-40 / RH-60 roll-ring lathes	14
RHHK8450X rib-groove milling	14
RHCK61 universal lathes · LQ wire cutting	15
Service and warranty for all RHCNC machines: p. 11.	

3.5–70 t

Max. roll weight across the RHCK84 range

8

Models in the RHCK84 range

2 years

Whole-machine warranty from RHCNC

Ø2,000 mm

Largest RHCK84 machining diameter

RHCK84 series

From a 3.5-tonne roll to a 70-tonne roll. One family of lathes.

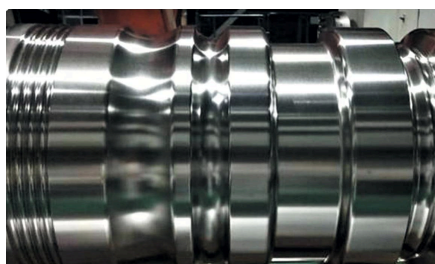
High-precision CNC mill roll lathes in eight models, from Ø500 to Ø2,000 mm.

From the RHCK8450 to the RHCK84160, every model follows the same build logic: a **four-guideway** bed, a **four-position** turret and a manual four-jaw or heavy-duty chuck. A two-position frame-type tool holder is optional on all of them except the RHCK8450. At the top of the range, the RHCK84200 carries rolls of up to 70 t, with headstock and tailstock spindles on high-precision (SP class) double-row roller bearings and high-precision thrust bearings.

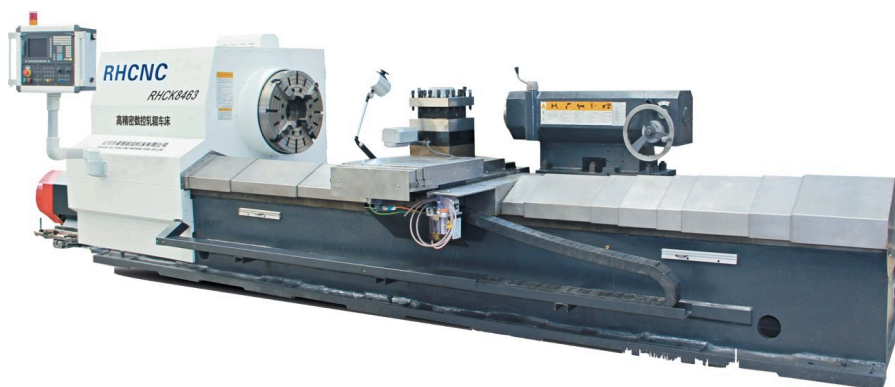
COMMON TO THE SERIES

Bed	4-guideway
Turret	4 positions
Frame-type tool holder	2 positions, optional (RHCK8463–RHCK84160)
Workpiece accuracy	IT6–IT7 (RHCK8450–RHCK84160)
Surface roughness	Ra 0.8 (RHCK8450–RHCK84160)

MODEL	0	1,000	2,000	TURNING Ø (mm)	MAX. LENGTH (mm)	MAX. WEIGHT (t)	SPINDLE (r/min)	MOTOR (kW)
RHCK8450				Ø500	2,700	3.5	4–400	30
RHCK8463 (3M/4M/5M)				50–630	3,300 / 4,000 / 5,200	8	10–380	30
RHCK8480 (3M/4M/5M)				200–800	3,300 / 4,000 / 5,200	8	10–280	45
RHCK84100 (3M/5M/6M)				200–1,000	3,000 / 5,000 / 6,000	20	4–170	75
RHCK84125-20T (3M/5M/6M)				450–1,250	3,000 / 5,000 / 6,000	20	4–170	75
RHCK84125-40T (5M/6M/7M)				on request	on request	40	4–110	90
RHCK84140 (5M/6M/7M)				500–1,400	5,200 / 6,200 / 7,000	40	4–110	90
RHCK84160 (5M/6M/7M)				500–1,600	5,200 / 6,200 / 7,000	40	4–110	90
RHCK84200-7M				2,000 ¹	7,000 ²	70	on request	



Finish-turned roll pass grooves.



RHCK8463 shown.

Length and weight: max. workpiece. ¹ Machining diameter range. ² Max. distance between centres. Travels, rapid traverse, tooling, foundation and installation data on request.

Send us your roll diameter, length and weight range. We will match the model.

RH-40 / RH-60

High-speed CNC roll-ring lathes



RH-40

RH-60

	RH-40	RH-60
Max. swing over bed	Ø500 mm	Ø800 mm
Max. turning diameter	Ø400 mm	Ø600 mm
Spindle speed	0–1,500 r/min	0–1,000 r/min
X / Z travel	230 / 450 mm	340 / 650 mm
Rapid traverse X / Z	12,000 / 15,000 mm/min	12,000 / 15,000 mm/min
Turret	4 positions · 1.5 s tool change · 40 × 40 mm tools	
Installation area	3,500 × 1,620 × 1,920 mm	3,700 × 1,850 × 2,100 mm

Rings are small.
Their tolerances
are not.

Two enclosed CNC lathes for roll rings, each with a four-position turret and a 1.5 s tool change. The spindle turns at up to 1,500 r/min on the RH-40 and 1,000 r/min on the RH-60.



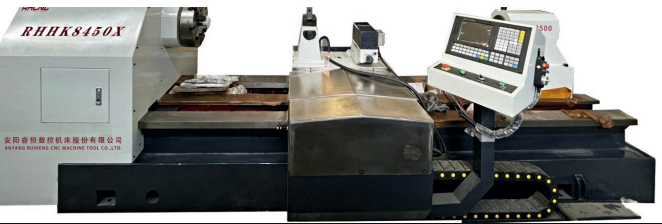
Machined roll ring.

RHHK8450X

CNC roll rib-groove milling machine



Rib grooves milled into a roll.



RHHK8450X shown.

The rib on the bar is
cut into the roll first.

The RHHK8450X is a CNC milling machine for the crescent rib grooves in rebar rolls. It takes rolls from Ø50 to Ø520 mm, with up to 3,000 mm between centres, for bar sizes Ø6 to Ø50 mm.

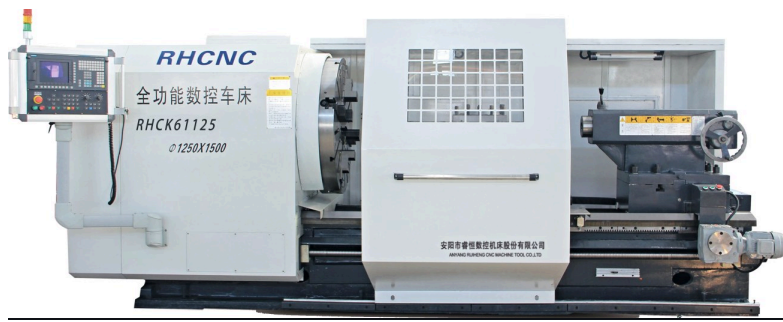
KEY DATA

Roll diameter	50–520 mm
Bar sizes	Ø6–Ø50 mm
Max. centre distance / max. cutting length	3,000 / 2,800 mm
Fly-milling spindle speed	0–1,500 r/min
Z / X stroke	2,850 / 270 mm
Total power	35 kVA
Weight	6,500 kg
Dimensions	4,800 × 1,550 × 1,500 mm

Send us your roll and bar size range, and the marks your rolls carry. We will confirm what the machine can do.

RHCK61 series

Precision universal CNC turning lathes



RHCK61125 shown.

	RHCK6163 · RHCK6180 · RHCKQ61100	RHCK61100 · RHCK61125 · RHCK61160
Swing over bed (mm)	Ø630 · Ø800 · Ø1,000	Ø1,000 · Ø1,250 · Ø1,600
Max. workpiece length	1,550 / 3,050 mm	1,500 / 3,000 / 5,000 mm
Max. workpiece weight	3 t	8 t
Spindle speed	10–2,500 r/min	4–400 r/min
Main motor	22 kW	30 kW
Accuracy / roughness	IT6–IT7 / Ra 0.8	IT6–IT7 / Ra 0.8

For everything around the roll.

Shafts, sleeves, discs and couplings keep a mill turning, and they wear too. The RHCK61 series turns them: cylindrical and conical surfaces, end faces, slots, chamfers and threads, under semi-closed-loop CNC, for many part types in **small batches**. **Siemens** CNC is standard. Precision ball screws are coupled directly to AC servo motors, the bed is a one-piece cast-iron box structure and the electrical cabinet is air-conditioned.

LQ series

Medium-speed wire EDM

Hard parts, cut by wire.

The LQ series are medium-speed wire EDM machines for hardened, conductive parts. They cut tapers up to **±3° over 80 mm** and hold **±0.007 mm** on a 12 mm square or round to GB 7926-2005. Five sizes: LQ400, LQ500, LQ600, LQ800 and LQ1000.

KEY DATA

Models	LQ400 · LQ500 · LQ600 · LQ800 · LQ1000
Taper cutting	±3° / 80 mm
Min. command, X/Y and U/V	0.001 mm
Max. cutting speed	≥150 mm ² /min
Best roughness	Ra ≤1.0–1.4 (one cut, two trim passes)
Accuracy	±0.007 mm (12 mm square/round, GB 7926-2005)
Coolant	90 L tank, paper-cartridge filter
Power supply	380 V, 50 Hz

Table sizes, travels, cutting thickness and load by model on request.



LQ series shown.

Tell us which parts your maintenance shop turns and cuts. We will propose the machines.

03

Rolls, rings & cutting tools

ROLLING MILL · ROLL SHOP · SUPPLY

The parts that touch the steel.

Rolls and rings shape every bar a mill rolls; cutting tools shape every groove in them. BERUI supplies both, for the mill and for its roll shop.

FOR THE MILL

Mill rolls

HSS rolls

Carbide rings

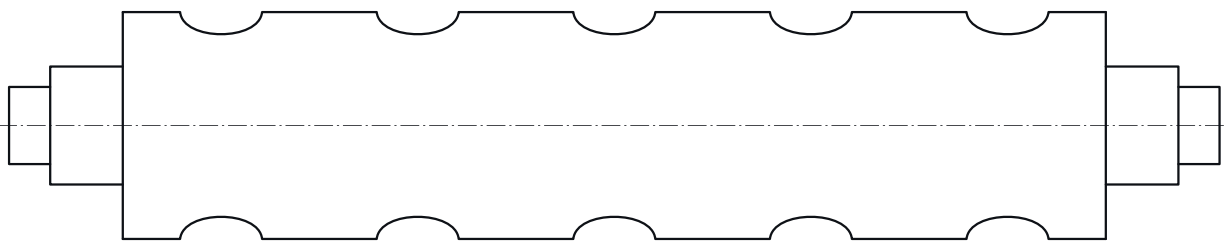
FOR THE ROLL SHOP AND THE PLANT

Cutting tools

Roll shop equipment

Industrial accessories

Selected industrial consumables



Schematic, not to scale: a grooved mill roll.

WHAT TO SEND US

Roll or ring drawing · grade in use · stand position · quantity per year

Send us the roll or ring drawing and the stand it runs in. We will propose the supply.

04

Industrial equipment & components

MECHANICAL EQUIPMENT · DRIVE SYSTEMS · COMPONENTS · SPARE PARTS

From the gearbox to the last bearing.

Mechanical equipment, drive systems and components for steel plants, from selected manufacturers, with BEISCO's engineering behind every choice.

SCOPE

Mechanical equipment

Industrial machinery

Gearboxes and mechanical drive systems

Couplings

Bearings

Electrical equipment

Industrial components

Auxiliary equipment

Spare parts

IN THIS CHAPTER

Cardan shafts and shaft holders

Supplied to drawing, for rolling mill drives

18 Packaging solutions

Binding, coil compacting, strapping and tagging, with Recast

19

WHAT TO SEND US

Part list or drawing · the machine it belongs to · operating data · quantity

Send us the part list or the drawing. We will propose the supply.



Cardan shafts.

Cardan shafts

ROLLING MILL · DRIVES

When a mill is waiting, the spare has to fit the first time.

A stopped stand waits for one part. A shaft that arrives a few millimetres off, at the flange or in length, keeps it waiting longer. BEISCO supplies cardan shafts and shaft holders to the customer's drawing. We read the drawing the way the mill will use the part: as the link that carries the drive to the stand.

Cardan shafts and shaft holders for rolling mill drives, supplied to drawing.

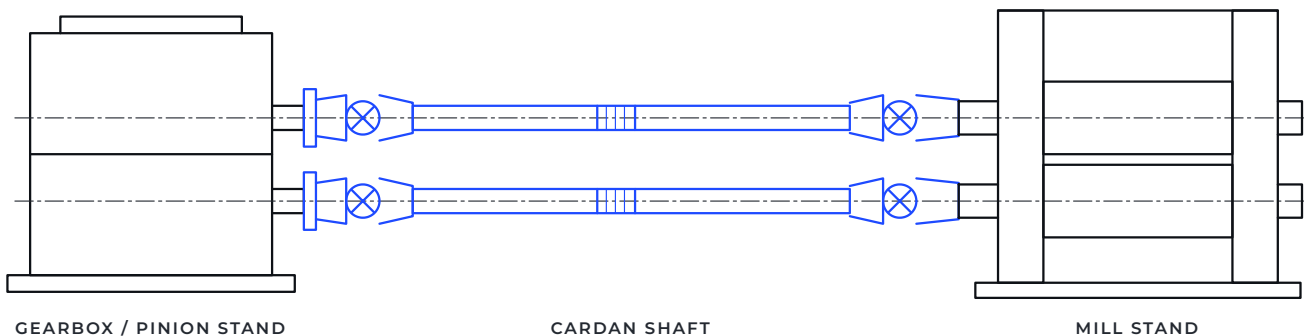
KEY DATA

Products	Cardan shafts · shaft holders
Basis	Supplied to customer drawing
Application	Rolling mill drives

WHAT TO SEND US

Drawing or existing shaft data · position in the drive · flange connection · required length · drive torque and speed

Send us the drawing. We will come back with an offer.



Schematic, not to scale.

Packaging solutions

BINDING • COIL COMPACTING • STRAPPING • TAGGING

The last knot is the first thing your customer touches.

Bars, sections, wire rod coils and strip coils all leave the mill the same way: bound, strapped and tagged. BERUI supplies automatic packaging machines for each, together with our solution partner Recast.



REPCH1-4600R-W8 automatic horizontal coil compactor.

Packaging is the last operation in the mill and the first thing the customer sees. A loose bundle costs time at the crane; a damaged coil costs a claim. Recast builds automatic machines that bind, compact, strap and tag steel products. BEISCO is Recast's **solution partner** and brings these machines to the mill, together with the engineering that fits them into the line.

IN THIS CHAPTER

Bar bundle binding	20
Bar and section binding	21
Wire rod coil compactors	22
Strapping and tagging	23

Tell us the product, the size range and the output per hour. We will propose the packaging.

Bar bundle binding

FINISHING · BAR BUNDLES

A bundle has to arrive the way it left.

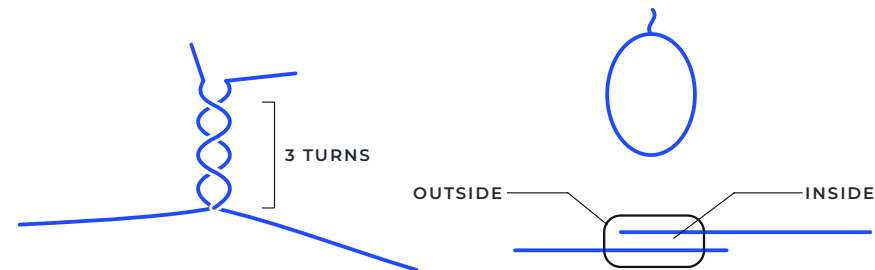
Wire binding machines for bar bundles in the finishing shop.

Binding closes the line. A bundle has to **stay tight** through cranes, trucks and yards. BERUI supplies binding machines that tie bars with a standard three-turn knot, in single or double binding, including a loose double binding for **easy lifting**.



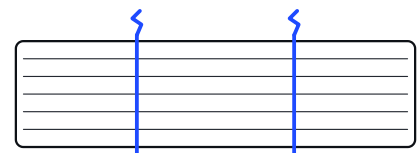
KEY DATA

Knot	Standard, three turns
Binding modes	Single · double · loose double (for easy lifting)
Area	Finishing shop, packing

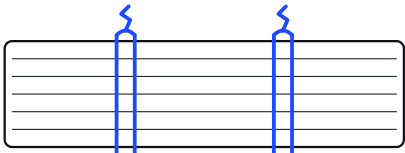


Standard knot, three turns.

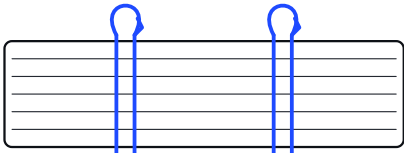
Tell us your bar sizes, bundle dimensions and bundles per hour.



SINGLE BINDING,
SINGLE KNOT



DOUBLE BINDING,
SINGLE KNOT



LOOSE DOUBLE
BINDING FOR
EASY LIFTING

Bar and section binding

Automatic wire binding machines by Recast



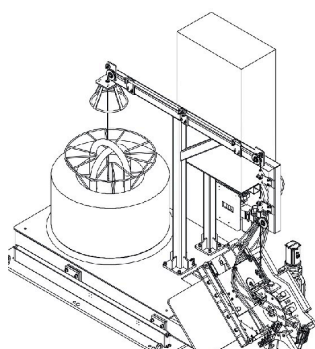
REBM1-800D-W7-A master bundle binding machine.



REBM2-1100D-W7-A-MO section binding machine.

Round or square, large or small: the bundle has to hold.

	REBM1-800D-W7-A	REBM2-1100D-W7-A-MO	KCBM6-200D-W2-MO
Product	Master bundles of bars	Section bundles	Bar sub-bundles
Bundle size	Ø150–450 mm	250 × 250 to 650 × 650 mm	Ø40–200 mm
Tie wire	Ø6.3–7.0 mm, Q195–Q235	Ø6.3–7.0 mm, Q195–Q235	Ø2.6–2.7 mm, Q195
Ties	Single or double turn	1–2 · twist knot	1–2 · rat-tail knot
Cycle time	≤ 14 s double · ≤ 10 s single	≤ 15 s double · ≤ 12 s single	≤ 5 s
Wire tension	> 9,000 N	10,000 N	≈ 650 N
Drive	Hydraulic, 80–110 bar · 15 kW	Hydraulic, 100–110 bar · 380 V / 50 Hz	Air 5–7 bar · 0.75 kW
Dimensions (L × W × H)	4,424 × 1,100 × 1,888 mm	3,950 × 1,450 × 2,200 mm	2,450 × 1,180 × 2,080 mm



KCBM6-200D-W2-MO, drawing.

The master bundle binder ties the full bundle in the finishing area. Before that, the sub-bundle binder can tie small bundles of thin bars so that they stay together inside it. For sections, the binder ties on the top surface of each stack.

Send us the bar or section sizes and the bundles per hour.

Wire rod coil compactors

Automatic horizontal and vertical coil compactors by Recast



REPCH3-4600R-PS 25/32 horizontal coil compactor with PET strap, in a mill.



REPCV-3500-W8 vertical coil compactor.

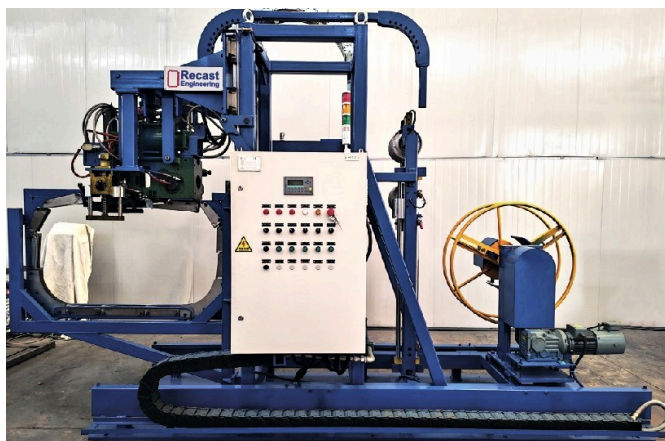
A compact coil is easier to lift, stack and ship.

	REPCH1-4600R-W8	REPCH2-4600-W8/S32	REPCH3-4600R-PS 25/32	REPCV-3500-W8
Type	Horizontal · wire	Horizontal · wire or steel strap	Horizontal · PET strap	Vertical · wire
Coil size	OD max. 1,400 mm · ID 850 ± 100 mm			
Compacted length	650–2,400 mm	650–2,400 mm	300–2,400 mm	300–2,400 mm
Ties	4, evenly spaced around the coil			
Tie material	Wire Ø6.3–8.0 mm, Q195–Q235	Wire Ø6.3–8.0 mm or cold-rolled strap 31.75 × 0.8–0.9 mm	PET strap 25 or 32 × 0.8–1.35 mm	Wire Ø6.3–7.0 mm, Q195–Q235
Closure	Twist knot	Twist knot (wire) · sealless (strap)	Friction welding	Twist knot
Cycle time	≤ 32 s	≤ 35 s	≤ 38 s	≤ 38 s
Press force	10–45 t	10–45 t	10–45 t	6–41 t (60–400 kN)
Supply	Air 5–6 bar · 100–150 kW	Air 5–6 bar · 100–150 kW	Hydraulic 160 bar · 380 V / 50 Hz	Hydraulic 160 bar · 380 V / 50 Hz
Dimensions (L × W × H)	14,000 × 2,500 × 3,400 mm	14,000 × 2,560 × 3,400 mm	13,730 × 2,560 × 3,070 mm	10,100 × 10,212 × 8,358 mm

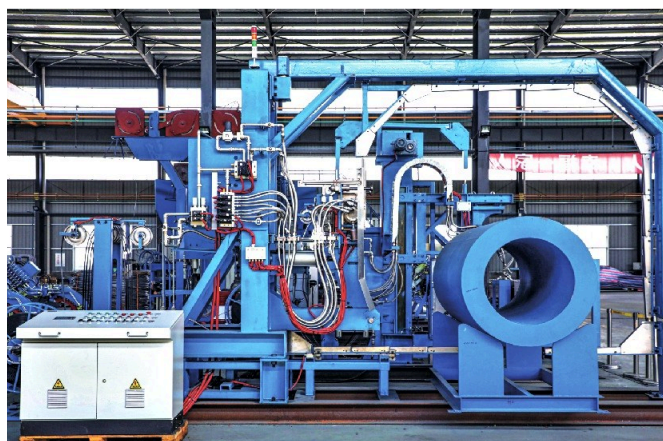
Send us the coil weight, the coil dimensions and the coils per hour. We will propose the compactor.

Strapping and tagging

Automatic steel-strap strapping machines and a bundle tag-welding robot by Recast



KC-CR12 section and tube strapping machine.



RE-CH3-2250 strip coil circumferential strapping machine.

	KC-CR12-1H-A-SS-SN24NS-PN32	RE-CH3-2250-1H-A-SS-SN24NS-PN32
Product	Stacks of sections and tubes	Strip coils, around the circumference
Product size	Stack 250–550 mm wide · 250–550 mm high	Coil width 550–2,000 mm · OD Ø900–2,250 mm
Strap	Cold-rolled steel strap, 31.75 × 0.8–1.1 mm	
Seal	Notched seal, 50 × 36.7 mm	Notched seal
Straps	1	1–5
Strapping position	Top surface	3 o'clock or 12 o'clock
Cycle time	≤ 15 s	≤ 35 s
Strap tension	4–20 kN	
Supply	Air 5–6 bar · 380 V / 50 Hz	Air 5–7 bar · 380 V / 50 Hz
Dimensions (L × W × H)	5,199 × 1,413 × 3,016 mm	7,145 × 1,000 × 3,496 mm



GP25-PR2-CA2-TCH2 tag-welding robot.

The tag stays with the bundle.

Bar bundle tag-welding robot GP25-PR2-CA2-TCH2

Bar diameter	10–40 mm
Bundle diameter	Ø200–500 mm
Bar length	6–12 m
Tags per bundle	1–2, on the bundle end face
Welding time	< 20 s one tag · < 30 s two tags
Welding	Capacitor discharge, carbon steel stud
Supply	Air 5–6 bar · 380 V / 50 Hz
Dimensions (L × W × H)	4,137 × 2,745 × 2,069 mm

Send us the strap or tag you use today and the output per hour.

06

Hydraulics

HYDRAULIC SYSTEMS · COMPONENTS · ENGINEERING

No pressure, no production.

In a steel plant, hydraulics clamp, lift, balance, position and cut under heat, scale and shock load. BEISCO solves hydraulics together with leading partners in the field.

Hydraulics rarely fail all at once. A seal weeps, a valve sticks, pressure drifts, and a stand, a shear or a furnace door stops doing what it should. The fix is rarely just a part. It is knowing what the circuit has to do **in the machine**.

Tell us which machine, what it should do and what it does now.

WHAT WE SUPPLY IN HYDRAULICS

That is where BEISCO starts: from the equipment the system drives. We design and build rolling mill and meltshop equipment, so we treat hydraulics as **part of the machine**, not as a separate purchase.

SCOPE

Hydraulic power units

Hydraulic cylinders

Valves

Pumps

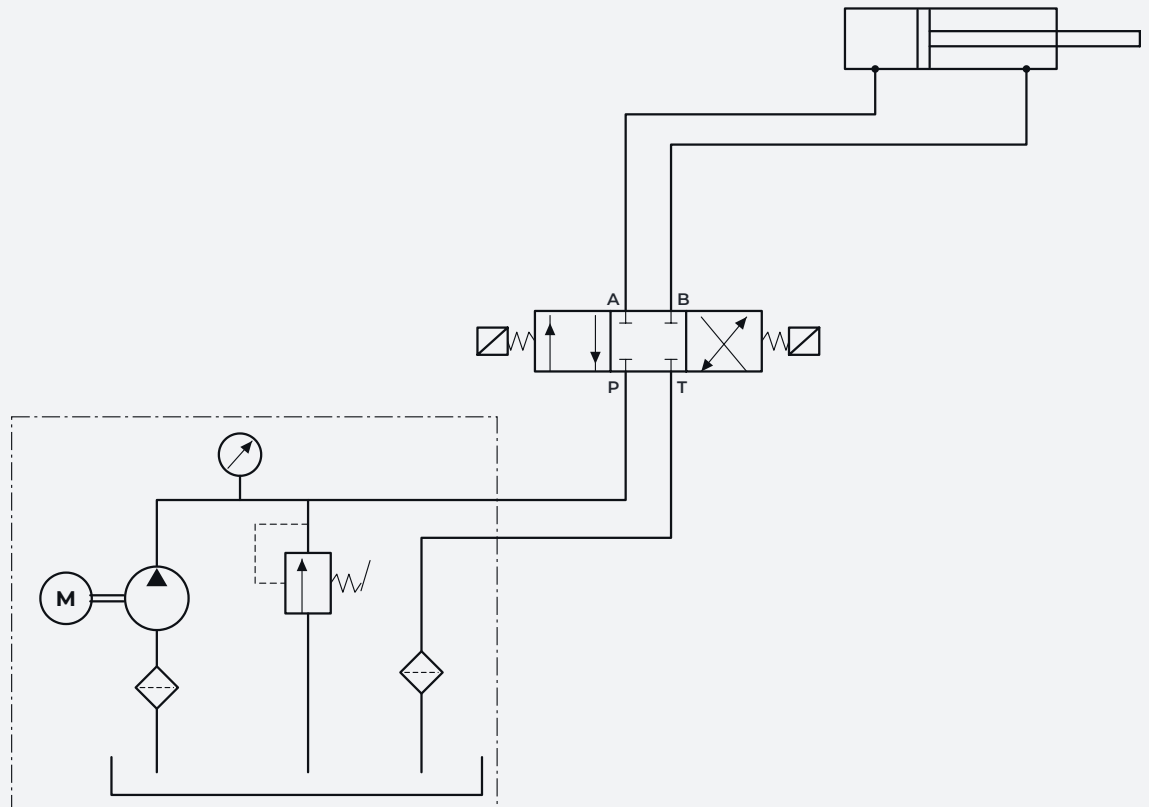
Hydraulic components

Hydraulic system engineering

ACTUATION

CONTROL

POWER



Illustrative circuit in ISO 1219-1 symbols, not a specific BERUI product. Schematic, not to scale.

Reheating furnace	Furnace doors, pushers and walking-beam movements: heavy loads, moved slowly and exactly, close to the heat.
Rolling mill stands	Roll balancing, clamping and roll change: the forces that hold a stand together while it rolls.
Shears and finishing	Cutting, clamping, transfer and stacking: short strokes, repeated thousands of times a shift.
Meltshop	Electrode arms, roof lift and swing, furnace tilting, slide gates: movements that must work every heat.
Around the line	Guides, gates, tilting tables and the smaller circuits: when one of them fails, the line stops.

WHAT WE SUPPLY IN HYDRAULICS

Hydraulic power units

Pumps, tank, filtration, cooling and controls in one unit, sized to the duty of the machine it drives.

Hydraulic cylinders

Cylinders for clamping, lifting, balancing and positioning, new or as replacements to drawing.

Valves

Directional, pressure and flow control valves, including proportional valves where a movement has to be exact.

Pumps

Pumps matched to the pressure, flow and duty cycle of the circuit, for new systems and for replacement.

Hydraulic components

Accumulators, filters, hoses, fittings, seals and the gauges and sensors that show what the circuit is doing.

Hydraulic system engineering

Circuit design for new equipment, revamping of existing systems, installation and commissioning support.

HOW WE WORK

01

The machine

We start from what the machine has to do, and what it does now.

02

The circuit

With our partner, we define the circuit and its components.

03

The supply

Power units, cylinders, valves and components, from one source.

04

The start-up

Installation and commissioning support on site, with the mill.

With leading partners.

BEISCO solves hydraulics together with leading partners in the field. We bring what we know about rolling mills and meltshops; they bring their hydraulic products and the engineering behind them. For the mill, that means one contact for all of it.

Tell us which machine and what it should do.

Automation

INDUSTRIAL AUTOMATION • CONTROL • DRIVES

Steel moves fast. Control has to move first.

Speed matching between stands, cut timing at the shear, sequences on the cooling bed: in a rolling mill, every movement waits for a signal. BEISCO solves automation together with leading partners in the field.

A mill's mechanics and its control are **one system**. If the stands lose their speed match, the bar loops or pulls. If the shear fires late, the cut is off. If a sequence hangs, the line waits. Control systems go out of date long before the machines they run, and their spares get harder to find.

Tell us about the line, the control you run today and what you want it to do.

WHAT WE SUPPLY IN AUTOMATION

BEISCO starts from the machine. We design and build the equipment the control has to move, so we know what it has to do.

SCOPE

PLC and control systems

Automation equipment

Sensors and instrumentation

Drives and motors

Electrical control panels

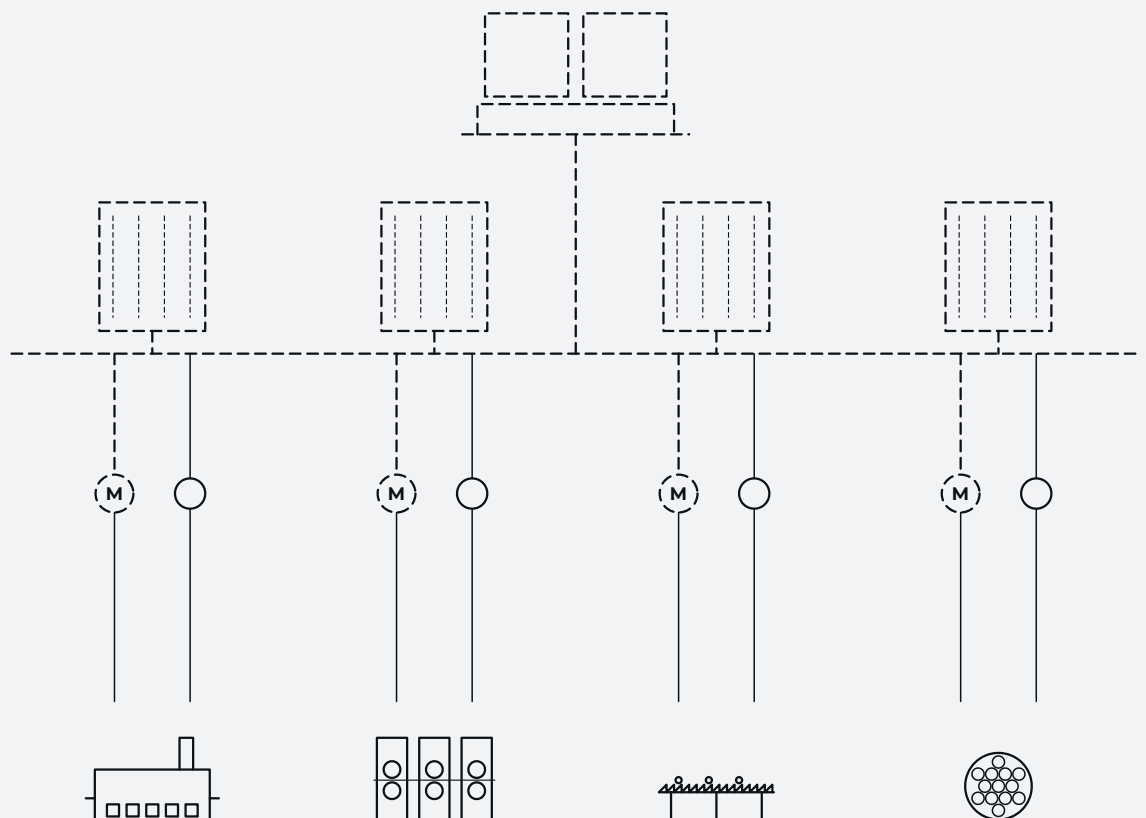
Process control solutions

OPERATOR

CONTROL

FIELD

PROCESS



Schematic of a generic mill control structure, not a specific BERUI supply. Not to scale.

WHERE CONTROL MATTERS IN A ROLLING MILL

Reheating furnace	Charging and discharging sequences, temperature and combustion control: the bar leaves the furnace ready to roll.
Rolling mill stands	Speed matching between stands and loop control: the bar must neither pull nor pile up.
Shears	Cut timing for head, tail and length: a late signal is a wrong cut.
Cooling bed and finishing	Transfer, counting, bundling and binding sequences, timed to the mill.
Meltshop	Sequences, interlocks and monitoring around the furnace and the ladle.

WHAT WE SUPPLY IN AUTOMATION

PLC and control systems

Control systems for new lines and for replacing control that has gone out of date.

Automation equipment

Field devices, remote I/O and the network that connects the line to its control.

Sensors and instrumentation

Position, speed, temperature, pressure and hot-metal detection: the signals the control relies on.

Drives and motors

Drives and motors matched to the mechanical equipment they move, from the stands to the auxiliaries.

Electrical control panels

Control and power panels, built and documented for the plant they go into.

Process control solutions

Process control for the line, from a single machine sequence to the coordination of the mill.

HOW WE WORK

01

The line

We survey the line, the control running today and its spares.

02

The concept

With our partner, we define what to keep, replace or add.

03

The supply

Control, drives, sensors and panels, from one source.

04

The start-up

Installation and commissioning support on site, with the mill.

With leading partners.

BEISCO solves automation together with leading partners in the field. We know what the mechanical equipment has to do; they bring their control products and the engineering behind them. For the mill, that means one contact for all of it.

Tell us about the line and the control you run today.

08

Integrated steel industry solutions

ROLLING MILL · MELTSHOP · MATERIAL HANDLING · REVAMPING · ENGINEERING

One line. One point of contact.

A steel plant is one process, from the furnace to the finishing area. BEISCO can address its engineering, equipment and technology needs as a whole: from one contact.

STEEL PLANT SOLUTIONS

Rolling mill equipment

Meltshop equipment

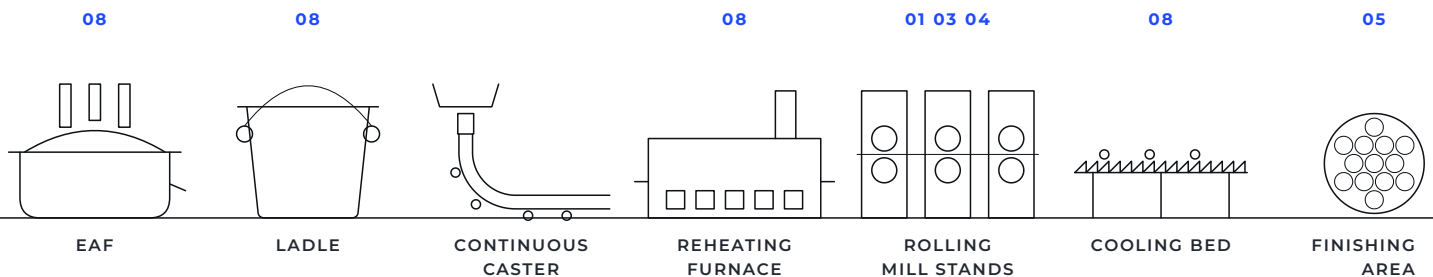
Material handling

Plant revamping

Industrial engineering services

Send us the line layout and what has to change. We will tell you where to start.

BEISCO's engineering scope: p. 4. Refractories by HOFENG: pp. 29–30.



06 HYDRAULICS · 07 AUTOMATION: ACROSS THE WHOLE LINE

Schematic, not to scale. Numbers: the chapters of this catalogue that serve each part of the line.

Refractories

MELTSHOP · EAF AND STEEL LADLE LININGS

Every heat starts with the lining.

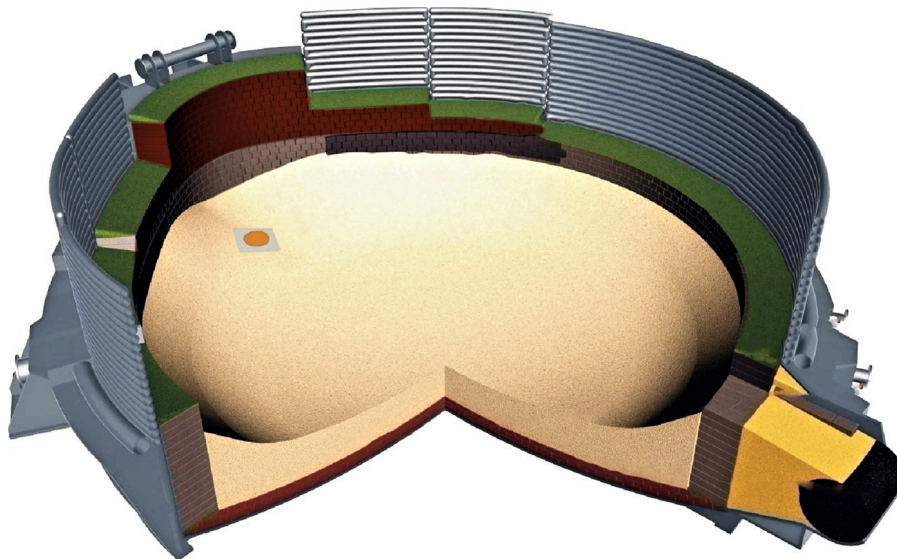
The lining decides how many heats a furnace delivers before the next reline.

HOFENG covers **the whole refractory job**, from design and production to masonry, maintenance and demolition. For an electric arc furnace, that means a lining specified zone by zone (slag line, walls, EBT taphole, bottom, door), with each grade chosen for the wear that zone sees. Mills in Türkiye and the region work with HOFENG through one point of contact: **BEISCO**.

HOFENG makes refractories and works as a refractory general contractor. BEISCO is HOFENG's distributor and solution partner in Türkiye and the surrounding region.

HOFENG AT A GLANCE

Established	1998
Countries supplied	20+
Shaped refractories	180,000 t / year
Unshaped refractories	80,000 t / year
Scope	R&D, design, production, masonry, maintenance, demolition



EAF lining by zone.

EAF LINING · ZONES

Slag line	MT-14A, MT-16A
Wall, upper part	MT-14B, MT-16B
Eccentric area, EBT taphole	MT-16A
EBT tapping filler	Magnesia-based
Bottom ramming	MC80, MC85
Wall, lower part / door jamb	MT-14A, MT-16A
Furnace door repair	MgO-C
Safety lining	MgO-based brick
Insulation	Nano ceramic insulation board



Magnesia carbon bricks



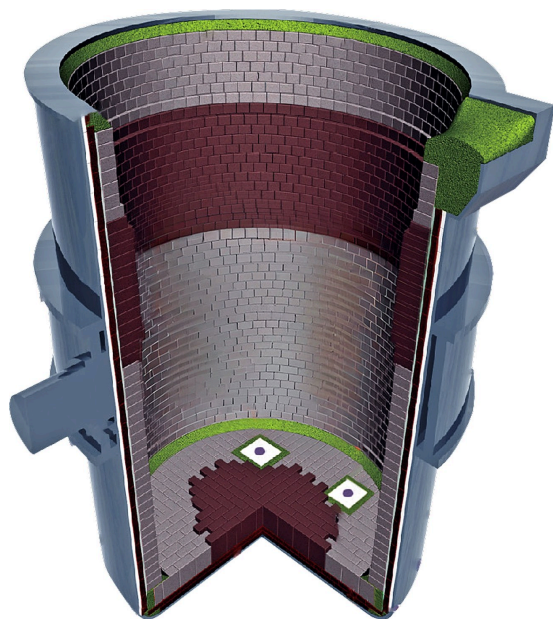
EBT tap-hole blocks



Ramming mass

Steel ladle lining

MgO-C and AMC/MAC · zones and grades



Steel ladle lining by zone.

What the furnace makes, the ladle must hold.

Steel ladle linings in MgO-C and AMC/MAC, zoned from the mouth to the bottom.

STEEL LADLE LINING · ZONES

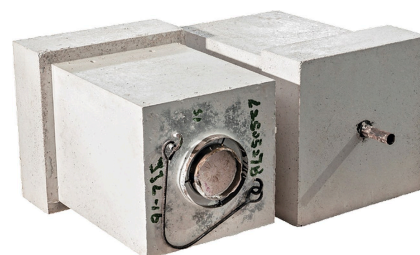
Mouth	High-alumina castable / plastic mix
Slag line	MT-12A, MT-14A, MT-16A
Impact zone	MLT-80, MLT-75, LMT-70
Freeboard	MT-8B – MT-14B, MLT-75, LMT-65
Sidewall	MLT-85/80/75, LMT-70/65, MT-12A/14A
Bottom, non-impact area	MT-10B, MLT-75, LMT-65
Safety lining	High-alumina castable
Insulation lining	Al-silicate / nano ceramic fibreboard



MgO-C bricks



Well blocks



Gas-purging bricks



Steel ladles, 200 t: refractory materials, overall contracting.

Send us the furnace or ladle capacity, the current lining and its campaign life. We will work out a zone-by-zone lining proposal with HOFENG.



Electric furnace, 150 t: refractory materials, overall contracting.

Start with a drawing.

Or a worn part, a lining record, a bundle size. Tell us what the line needs, and an engineer will answer.

FOR	SEND US
Roll remanufacturing	Roll drawing · material · stand position · tonnage per campaign
Service for RHCNC machines	Machine model · year of supply · description of the fault
CNC machine tools	Roll diameter, length and weight range · current machines
Rolls, rings and cutting tools	Roll or ring drawing · grade in use · stand position · quantity per year
Industrial equipment and components	Part list or drawing · machine it belongs to · quantity
Cardan shafts	Drawing or shaft data · position in the drive · flange connection · length
Packaging solutions	Product and size range · coil or bundle weight · output per hour
Automation	Line and section · current control system · what should change
Hydraulics	Machine and function · current problem · existing components
Refractories	Furnace or ladle type and capacity · current lining · campaign life · weak zones
Plant projects	Line layout · capacity · what has to change

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HOFENG

HOFENG

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From people who build mills.



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forms.beisco.com.tr/rolling-mill



Our website:
www.beisco.com.tr

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