FOR SALE BY PRIVATE NEGOTIATION

OUTOKUMPU NIROSTA, KREFELD - MELTSHOP

DUE TO THE CLOSURE OF:

MELTSHOP WITH SLABCASTER AND A STRIPCASTING PLANT

CAPACITY: 600,000 Ton Raw Stainless Steel/Year
OUTPUT: Stainless Steel SLAB and STRIP

KREFELD, GERMANY
NIROSTA, KREFELD - MELTSHOP

Asset Location: Krefeld, Germany
Capacity: 620,000 Ton/Year
Material: Stainless Slabs and Strips
Number of Melts: 20 melts/day

TURNKEY OPPORTUNITY AVAILABLE NOW!

FOR AN INSPECTION, PLEASE CONTACT:
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PROCESS FLOW

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SCRAP STORAGE

- (5) Transfer Cars for transport of Scrap Buckets
- (5) Multiple-Disk Scrap Buckets
- (4) Rectangular Grabs
- (5) Multi-line Grabs
- (3) Clamshell Grabs
- (2) Magnets
- (2) Rotary Disks

INDIVIDUAL SECTIONS AVAILABLE TOO

For more information, please visit us online at www.hilcoind.com
UHP ELECTRIC ARC FURNACE

• DEMAG, 80 (86) Ton Capacity, Diam. 6.35 Meter, in 1998 Electrode Controller Converted to Hydr. and in 2011 new furnace rocker, casing and gantry installed by “BSE” and in 2011 new 80 MVA Transformer “ABB” supplied; Control SimaticWinCC (2011), Siemens SIMELT, Hydr. Electrode Controller (2004) “SMS”; Simelt-Nec Heat Load Monitors; Lip Furnace with with split upper and lower shells; Conventional Tilting; Casing Diam. 6.35 M; Electrode diam. 610 mm, diametral pitch 1.200 mm, Fore-Blow approx. 250 Nm Oxygen on Si; Cooling Wall and Cover, Tap-to-Tap Time 72 Min. Product Range 100% Stainless Steel Types.

• Hot Steam-Cooled Furnace Swivel Arm
• 2 MW Door Burner (natural gas/oxygen) and Oxygen Lance Manipulator, 1 !/4” Pipe, max. flowrate 2.100Nm³/h
• Gunning Material Manipulator “RHI” with Silo (2005)
• Steel and Slag Rail-Carrier, holding Decanting Ladle (96 Ton) and Slag Pot (9M³)
• Slag Rail-Carrier

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AOD CONVERTER SYSTEM

• (2) SIEMENS VAI AOD Converters, revamped in 2009: interchangeable converter casings, converter trunnion rings with cooling system, new converter bearings and stands, new tipping gearbox incl. drives, new converter casing, entire valve station, exhaust manifold hoods, new charge hoppers, converter change rail-carrier, extraction system. Controls "Siemens" Simatic PCS 7 (2005)
• Converter Vessel, AOD Process with (5) submerged nozzles, Volume 88M³ (excluding lining) 46.5 M³ (new lining); Tapping weight max. 96 Ton, Transport Weight (including lining) 170 ton.
• Converter Trunnion Ring, water cooled-trunnion ring

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SECONDARY METALLURGY

• Hopper System; (12) Overhead Hoppers with 3 Discharging Carriers
• Argon Stirring Station; (2) stirring areas

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“SACK” CONTINUOUS SLAB CASTING PLANT

• Controls Siemens PCS-7 (2002)
• Slab Dimensions: 800-1,600 x 175,210,240 mm, Max. Length 12,000 mm
• Melting Weight 90 Ton; Radius 9,800 mm; Average Casting speed 1,0 M/Min.
• Ladle Turret: for (2) Ladles
• Ladle Shroud Manipulator, length 900 – 1,200 mm
• Tundish Turner (2), max. Charge 16 Ton, turning angle 180°
• Stopper Rod “Zimmermann & Jansen”
• Heating Fire System for Tundish

• Mold, casting radius 10,750 mm; width 800 - 1,600 mm x thickness 175,210,240 mm
• Mold Lifting Table
• Segments 1, total Nr. of Rollers 24
• Segments 2-15
• Intermediate Roller Table
• Flame Cutting Machine with Roller Table
• Exit Roller Table with Emergency Slab Discharge
• Walking Beam Coolant Bed
• Dummy Bar System
• Stamping and Marking Unit.
• Workshop for Mold and Segments
• Tundish Shop

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MISCELLANEOUS

• (13) Ladles + (5) Decanting Ladles + (3) Emergency Ladles
• (9) Ladle Slide Gates + (8) Ladle Fires + (1) Ladle Car
• (12) Tundishes + (1) Tundish Cover + (6) Overflow Buckets
• (2) Lifting tables
• (12) Molds
• Many Segments
• Many Auxiliary Parts
• Spare Parts

LADLE SERVICE AREA

• Ladle Fires and Drying Fires
• Steel-Slag Ladle Carrier

HOPPER SYSTEMS

• (14) Sunken Hoppers
• Lime Storage Hopper
• Hopper System AOD (15) Hoppers and (4) Bunkers

SLAB GRINDING SHOP

• (2) Slab-Grinders “Wilhelm Schlüter”: length 4000-9.800 mm x width 380/800-1.600 mm, thickness 80-250 mm, weight 20/32 Ton; Motors 250kW

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Mfg. VAI (VOEST ALPINE INDUSTRIEANLAGEN)
Year of Mfg. 1999
Strip dimensions: Width 1.130 + 1.450 x thickness 1.8 – 6.0 mm;
Max. Coil dimensions: O.D. 2.200 mm x width 1.600 mm,
weight 30 Ton
Casting Speed 150 M/Min; Rolling Speed 200 M/Min. Fully Automated [1999 and 2013].
• Ladle Turret; (2) Ladles
• Shroud manipulator; length 900 – 1.000 mm
• Tundish Car
• Stopper "Zimmermann & Janssen"

• Heating Fire (for Tundishes and Immersion Tube) "MAPEKO";
1,200 degree
• CASTING MACHINE; 2-Rolling System with (8) Casting Roll Pairs; (2) Casting Frames
• Heating Box and Roller Table [approx. 25 Rolls]
• Steering Driver
• (2) Strip Thickness Gauges "MESACON"
• Four-Roll-Driver; Vertical Rolls hydraulic shift.
• Inductive Strip Heater "ELOTERM" (4) Modules each 2.5 MW
• 4-Hi ROLLING MILL "M&W" Year of Mfg. 2001;
Roll Bending; (10) Pair of Work Rolls and (2) Pair of Back-Up Rolls
(1) Set of Roll Chocks.
Roll Changing Unit.
• Strip Flatness Control “IMS”
• Roller Table
• Strip Surface Inspection
• FLYING SHEAR “M&W”; diam. 600 mm
• CROSS CUT SHEAR “M&W”, max thickness 5 mm
[Stainless Steel]

• Side Guides
• COILER “VAI” (2) Coilers, expanding mandrel Coil ID 725 mm,
  Drive 200 kW each
  Max. Coilweight 30 Ton, Coil OD 2,200 mm
• Scrap Removal
• WORKSHOP for maintenance- and repair work to
  Casting Machine and Rolling Mill
• Overhead Crane 85/40 Ton
• Water Treatment Plant
OVERHEAD CRANES & DUST REMOVAL SYSTEM

OVERHEAD CRANES
• [2] Furnace Cranes 100/16/8 Ton and 100/5/5 Ton
• [3] Casting Cranes 170/150/50, 150/50 Ton and 135/50 T
• [6] Gantry Cranes from 3,2 to 100 Ton
• [2] Slab Transport Cranes 32 Ton
• [2] Dogging Cranes 32/32 Ton
• [4] Cranes with Magnets from 8 to 20 T

DUST REMOVAL SYSTEM
• Electric Filters; Cap. 850.000 M³/h
• Dry Dust Removal; Cap. 335.000 M³/h
• Sunken Hopper Dust Removal; 45.000Nm³/h
• Lime Hopper Dust Removal; 15.000 N/m³

Machinery & Equipment
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