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COMPANY PROFILE

Located in XI 'AN, China, formerly known as Xi'an Zebang Industrial Co., Ltd, which is a subsidiary of China National Heavy Machinery Research Institute (SINO-HEAVYMACH), in 2019, due to the restructuring of (SINO-HEAVYMACH), ZBTECH (Xi'an Zebang Electric Furnace Co., Ltd) was established to operate independently.

Certified by ISO9001 & CE, ZBTECH adheres to the serious and rigorous design concept of SINO-HEAVYMACH, which is a technology-oriented enterprise providing complete steelmaking & ferroalloy equipment for domestic and overseas industry. ZBTECH covers design, manufacturing, erection, and commissions special for steel-making equipment like EAF, LRF, VD/VOD, ESR. Ferroalloy furnace, integrated revamping and upgrading of existing plants, which is one of few recognized in the sector for its excellence and commitment to technological innovations.







MANAGEMENT MODE

Closely cooperating with you means our engineering team translates your wishes into concrete form, we will extensively plan your plant layout, analyze the interfaces and battery limits as well as the various production stages, equipment, and disciplines, optimize the complex interaction between all investment and processrelated factors. This not only reduces interfaces, but also ensures smooth plant integration and short project times.

Our proven procedure will coordinates all activities, guarantees quality, and monitors on-time, on-budget performance. So you always know the exact status of your project because we continually inform you about its progress. Our project management is designed to ensure you are involved in all major decisions. These included in one package are: Project development, Project planning, Project implementation, Project leadership.



State-of-the-art design, high operational availability, maintenance friendly and efficient and economical equipment enable the company sold throughout the country, exported to Vietnam, Iran and Southeast Asia.

ZBTECH established good cooperative relations with Xi'an University of Architecture and Technology, North China University of Technology, Sixth Academy of Aerospace and other scientific research institutes. And long-term cooperation with design institutes such as CERI, WISDRI, MCC-HUATIAN, CISDI, MGDRI on EPC project. At the same time, ZBTECH is a qualified supplier of AN STEEL, ZENITH, SHANDONG SHIHENG, TANGSHAN DONGHUA, TANGSHAN WENFENG and other iron and steel enterprises, On the basis of providing complete sets of equipment and spare parts, we have won customers with excellent technical services.

ZBTECH is taking the lead in entering the stage of 3D modeling and intelligent design in the industry. Applying 3D design software to realize static, dynamic analysis and spatial simulation, parametric analysis, product quality is strongly guaranteed.

People first, innovative developing, ZBTECH is looking forward to work for you.



连铸设备

Casting Machinery



R6米-两机两流弧形连铸机 R6m-2 Strands Countlnuous Casting machine



R6米-130方-150方 钢坯连铸机 R6m-Billet 130x130mm-150x150mm Countinuous Casting machine

主要技术参数表 Main Technical Parameters

序号	名 称	单 位	参 数	
No	Item	Unit	Parameter	
1	连铸机型 CCM Type	/	全弧形连铸机(连续矫直) Fully Arc Continuous Casting Machine (Continuous Straightening)	
2	弧形半径 Arc Radius	m	3,4,6,8,12	
3	台数×机数×流数 Strands	/	1-8	
4	流间距 Strands Space	mm	1000-1500	
5	浇铸铸坯断面尺寸 Cast Billet Size	mm×mm	60×60-200×200	
6	铸坯定尺长度 Billet Length	mm	3000-12000	
7	引锭形式 Dummy Bar Type	1	刚性因锭杆/柔性引锭杆 Rigid/Flexible Dummy Bar	
8	切割形式 Shearing Method	1	液压剪/火焰切割 Hydraulic Shear/Flame Torch Cutting	
9	拉坯速度 Drawing Speed	m/min	2.2-3.5	
10	结晶器长度 Crystallizer Length	mm	850-900	
11	浇铸钢种 Steel Type	/	碳钢、合金钢、特种钢 Carbon Steel,Alloy Steel,Special Steel	
12	铸机年产量 Annual Capacity	t	50,000-800,000	



P3控制箱-连铸机拉速控制 P3 Control Box-CCM Flow Speed Control



多点弧形连铸机 Multiple-Roll Continuous Casting Machine

Z CHNZBTECH CO., LTD.

连铸机配件

Casting Machine Parts



钢包回转台 Turret Ladle





结晶器(含铜管) Crystallizer with Copper Tube





弧形热刚坯-拉矫机 Ithdrawal&Straightening Machine



震动装置 Oscilator Device



自动火焰切割 Auto Flame Torch Billet Cutting

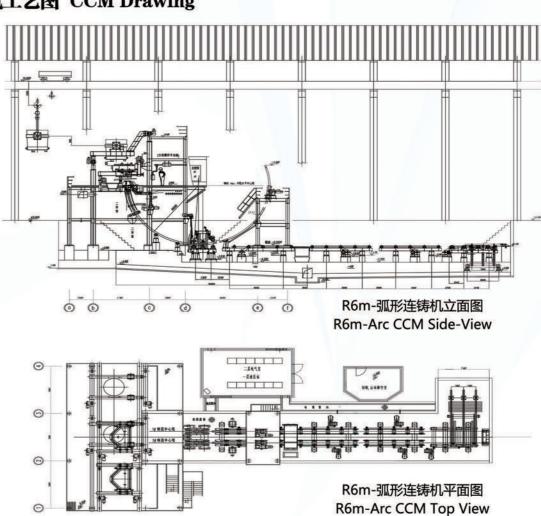


45度钢坯液压剪 45 Deg-Hydraulic Shear



45度钢坯液压剪 Billet Hydraulic Shear

连铸机工艺图 CCM Drawing



Chinzbrech co., Ltd.

Copper mould tube

Product specification:

covering all sizes required by the market

Billet: from 60mm x 60mm to 700mm x 700mm

Round billet: from Φ 80mm to Φ 1000mm

Rectangular: from 70mm x 110mm to 550mm x 720mm



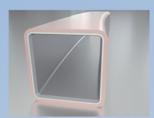
800 round petal copper tube



Edge chamfered copper pipe



Flanging tube



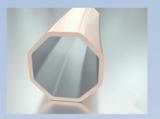
Convex tube



Diamond copper tube



1m round copper tube



Octagonal copper tube



Grooved copper tube



Copper tube with arc hole



Inner corrugated copper tube Outer corrugated copper

Slab



Slab 1



Slab 2



Slab 3



Slab 4



Slab 5



Slab 6



Slab 7



Slab 8

Product specification:

covering all sizes required by the market

Billet: from 60mm x 60mm to 700mm x 700mm

Round billet: from Φ 80mm to Φ 1000mm

Rectangular: from 70mm x 110mm to 550mm x 720mm

Water jacket

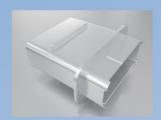
Product specification:

covering all sizes required by the market

Billet: from 60mm x 60mm to 700mm x 700mm

Round billet: from Φ 80mm to Φ 1000mm

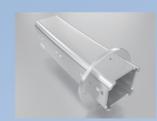
Rectangular: from 70mm x 110mm to 550mm x 720mm



Large rectangular billet



Arc template



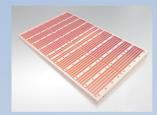
High precision water jacket

Copper plate



240x320 slotted copper plate 400x500 slotted copper plate CSP wide face copper plate







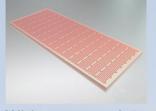
CSP narrow copper plate



H-type copper plate



Chamfered copper plate



Wide copper plate



Funnel copper plate

Copper plate



Copper plate assembly



Narrow copper plate



Product description:

supplies traditinal copper plate, CSP plate, FTSC plate, ESP plate, QSP plate,

Beam blank plate, Combined big billet plate and their repairing.

Thickness: 40mm-125mm Capability: 2000 pcs / year

Material: CuAg, CuCrZr, CuNiBe

Coating: NiCo, Alloy coating, Cermic coating

09 |

Assembly

Product specification:

covering all sizes required by the market

Billet: from 60mm x 60mm to 700mm x 700mm

Round billet: from Φ 80mm to Φ 1000mm

Rectangular: from 70mm x 110mm to 550mm x 720mm



Assembly 1



Assembly 2



Assembly 3



Assembly 4



Assembly 5



Assembly 6



Assembly 7



Assembly 8



Assembly 9





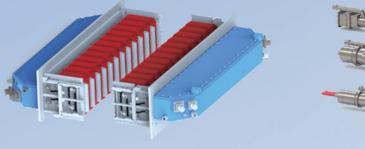


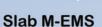
Electromagnetic Stirring

Billet/Round F-EMS:

It is generally installed in the final stage where the molten core is 25%-35% of the width of the billet. The main function is to improve the equiaxed crystal rate of the billet, improve the center porosity and shrinkage, and improve the center segregation and v-shape segregation.







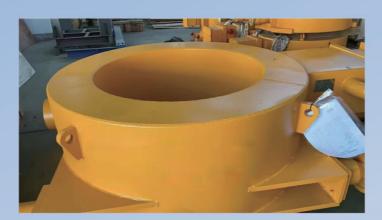


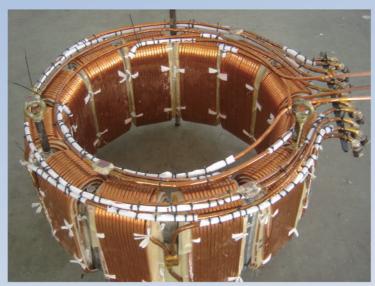
Slab In-roll EMS

Billet/Round M-EMS:

It is installed inside/outside the mould, its main function is to improve the billet equiaxed crystal ratio, reduce subsurface bubbles and pinholes, reduce inclusion, homogenize billet shell and improve center segregation.

Product Photos







Slab M-EMS:

Slab In-roll EMS is driven by two-phase or three-phase current generated by the frequency converter, linear induction motor with alternating magnetic field. The alternating magnetic field causes the molten steel to generate an induced current, which turns the molten steel into a current-carrying conductor, and moves under the action of the alternating magnetic field, that is, stirring the molten steel.

ZCHNZBTECH CO., LTD.

轧钢设备 (钢坯加热)

Rolling Machinery(Billet Reheating)

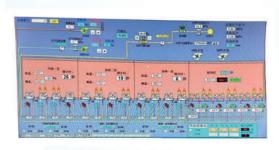
加热炉 Reheating Furnace



加热炉入口 Reheating Furnace Entry



加热炉出口 Reheating Furnace Exit



加热炉温度控制界面 R。F Temp Control Interface

项 目 Section	单位 Unit	设 定 值 Parameter		
	Unit			
炉子产量 Capacity	T/H	5 - 100		
坯料端面尺寸 Billet Size	mm	60x60 - 150x150		
坯料长度 Billet Length	mm	1300 - 12000		
燃料种类 Fuel Type		天燃气,煤炭,重油,渣油 Natural Gas, Coal,Heavy Oil, Residue		
加热温度 Heating Temperature	င	1050 - 1300		

电加热炉 Electrical Reheating



钢坯加热电感应圈 Billet Hating Induction Coil



轧钢设备(传动设备) Rolling Machinery(Transmission Equipment)



单级圆柱齿轮减速箱 Single-stage Gear Reducer



一拖二减速箱 Speed Reducer(1 Input 2 Output)



两芯箱 Dual Core Box



联合减速箱 Joint Speed Reducer

ZCHNZBTECH CO., LTD.

轧钢设备(轧机选型)

Rolling Machinery(Machine Type)



三辊上调整轧机 3-Hi Roller-Seperate Locking Upper Regulation



二棍涡轮蜗杆下调整轧机 2-Hi Roller-Worm Gear Bottom Regulation



二辊液压锁紧上调整轧机 3-Hi Roller-Hydraulic Lock Upper Regulation 2-Hi Roller-Worm Gear Wheel Plate Upper Regulation



二棍涡轮蜗杆上调整轧机



短应力轧机 Short Stress Rolling Mill



无牌坊短应力轧机 Housingless Rolling Mill



平立交替短应力轧机列组 H-V Alternating Short Stress Rolling Mill Production Line

ZCHNZBTECH CO., LTD.

轧钢设备 (辅助设备)

Rolling Machinery(Auxilliary Machine)

飞剪设备 Flying Shear



1#曲柄飞剪 Crank Flying Shear



2#回转飞剪 Rotary Flying Shear



3#倍尺飞剪 Crop Flying Shear

飞剪型号 F.S Model	1#	2#	3#
剪切速度 Shearing Speed	0.5-3m/s	3-10m/s	6-21m/s
剪切规格 Shearing Size	70×70mm² (ø80mm) 80×80mm² (ø90mm) 100×100mm² (ø110mm)	55×55mm²	≤Φ60mm

穿水冷却设备 TMT Water Quenching Box



棒材强穿水设备 Hi-Pressure TMT Water Quenching Box



棒材穿水前 Before Quenching



棒材穿水后 After Quenching

冷床設備

Cooling Bed

该冷床设备主要用于轧后钢材在线缓慢自然冷却。在钢材生产线上,冷床对钢材还具有预弯曲功能,防止钢材在自然冷却过程中因各处质量不等导致出现不规则弯曲。

The cold bed equipment is mainly used for the slow natural cooling of steel after rolling. In the steel production line, the cold bed also has the function of pre-bending the steel, to prevent the irregular bending of the steel due to different quality in different places during the natural cooling process.



裙板步进式冷床 Apron Rack Stepping Type



裙板链条式冷床 Apron Chain Transfer Type



四道跑槽步进式冷床 4 Channel Rack Stepping Type



四道跑槽 4 Channel Input Mechanism



裙板机构 Apron Type Mechanism



转毂步进式冷床 Rotary Drum Rack Stepping Type



转毂机构 Rotary Drum Mechanism



碗槽式机构 Twin Channel Mechanism

"炼钢.连铸.轧钢"一站式服务

集捆打包设备 Bundling Machine



收集震动打包台架 Oscillation Collecting Bundling Platform



PF线材打包机 Wire Rod Coil Packing Machine



棒材自动打包机 Bar Auto Bundling Machine

冷剪冷锯 Cold Shear,Cold/Hot Saw



液压冷剪 Hydraulic Shear

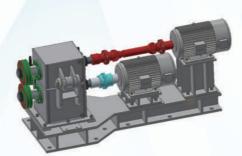


机械冷剪 Mechanical Shear



型钢冷锯 Cold Saw

其他辅助设备 Others Auxilliary Machine



夹送辊 Pinch Roller



角钢、槽钢矫直机 Angle Bar, Channel Beam Straightening Machine



圆盘飞剪 Disc Type Flying Shear



线材吐丝机 Wire Rod Laying Head

备品备件 Spare Parts



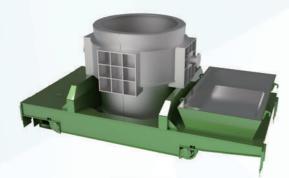








辅助设备 Auxilliary Machinery Equipment



炉前钢包车 Furnace Ladle Car



龙门勾 Gantry Hook



废钢剪切-液压鳄鱼剪 Scrap Cutter - Aligator Shear



废钢液压压块机 Scrap Block Hydraulic Baler



废钢废铁 (大块) Steel Scrap (Large Size)



废钢废铁 (剪切后) Steel Scrap (After Shear)



废钢废铁(压块后) Steel Scrap Block



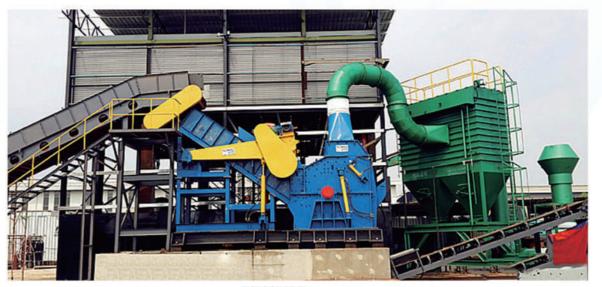
废钢破碎前 Scrap before crush

废钢破碎后 After crush process









破碎机整体 Steel Scrup Crusher Mac hine

Z CHNZBTECH CO., LTD.

周边设备 Peripheral Equipment





厂区内高压变电站 High Voltage Power SubStation





水池处理-水泵房 Water Pool Treatment - Water Distribution Pump Room





炼钢除尘设备 Dust Removal Equipment

机修设备 Machine Repair Equipment













电控控制系统

Electrical Control System

控制方式有直接启动控制、星三角降压启动控制、自藕降压启动控制、变频器启动控制、软启动控制等各种控制方式 The control mode includes direct start control, star delta buck start control, automatic buck start control, inverter start control, soft start control and other control modes

相关标准 Relevant criteria:

- ➤ ISO (国际标准组织 International Standard Organization)
- ➤ IEC (国际电气组织 International Electrical Organization)
- ▶ IEEE (电气与电子工程协会 Association Of Electrical And Electronic Engineering)
- ➤ GB (国标 National Standard Of China)













轧钢品种 Steel Rolling Variety

