

## AMK Metallurgical Machinery Group Co., Ltd

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2	Copper Mould Plate	
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5	Spray Nozzles & tube	
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8	Electromagnetic stirrer (E.M.S)	
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## **CCM & Rolling Mill**

**AMK METALLURGICAL  
MACHINERY GROUP CO.,LTD**





## · 企業簡介

江蘇艾米克冶金機械有限公司位於江蘇省無錫市，公司致力於生產和供應煉鋼廠、軋鋼廠、鐵合金廠和鑄造廠等使用的冶金機械設備和配件。

艾米克團隊多年來致力於技術調研、設計、生產和銷售。公司現擁有156個經驗豐富的員工，其中30多個工程技術人員。並且公司和中國多家一流生產商建立了合作關係，確保公司可以為客戶提供一站式供貨服務。

艾米克專注於快捷、耐心、專業和體貼的售後服務。顧客至上是我司的準則和發展基礎。艾米克團隊全年24小時聽候您的差遣。為了第一時間接受顧客的回饋，瞭解客戶的需求，艾米克在多國擁有當地代理。

艾米克正努力成為世界領先的一流供應商，不只是供應產品，更加是供應價值和誠信。以“品質、服務、價值”為信條，艾米克期待和海內外顧客建立長期互利的合作關係！

## · About Us

AMK Metallurgical Machinery Group Co., Ltd is located in Wuxi, Jiangsu province. The company is specialized in producing and supplying metallurgical and mechanical equipments and spare parts for steel works, rolling mills, ferroalloy industries, foundries, etc.

AMK team members have been devoting themselves to technical research, design, production and sales for years. 156 professional and experienced employees including more than 30 technicians and engineers work as a team, we're also working with other Chinese domestic leading manufacturers. AMK is capable of One-Stop Supply for our customers worldwide.

AMK focuses on prompt, patient, professional and considerate after-sale service. Customer first is our principle and basis of development, AMK team is at your service 24/7. AMK is cooperating with global representatives to ensure more convenient communication and fast reaction to customers' feedbacks and demands.

AMK team is dedicated to being a world leading and trustworthy supplier who is not only supplying products but also supplying value and integrity. Guiding by the spirit of "Quality, Service, Value", AMK is looking forward to building long-term and mutually beneficial cooperation with partners and customers all around the world!





## · Copper Mould Tube



### Material of CCM Copper Mould Tube :

The materials of copper mould tubes should be the ones with good tensile strength, fatigue strength, proper hardness, low elongation and high heat conductivity coefficient. As a result, material like phosphorous deoxidize copper (DHP), CUAG, CR-ZR-CU are widely accepted by users of all countries.

### Coatings:

Copper has lower hardness which leads to lower anti-abrasive property. Therefore, the area at the lower part of the moulds, where the stress increases drastically due to shells, will be more severely worn. To increase the life time of copper moulds, Uniform mould interior surface plating with suitable hardness is needed. Most of the copper mould tubes for small size billet casting are not used in any casting system where there are rigid casting stream support, therefore they are very sensitive to be worn. We use hard chrome plating to increase the life of mould tubes. The plating thickness will be controlled in the best range. As for the coating of copper mould plates, based on our years of experience, we are able to provide Cr coating, Ni-Cr coating, Ni-Fe coating and Ni-Cr coating to meet the demand of various customers both at home and abroad.

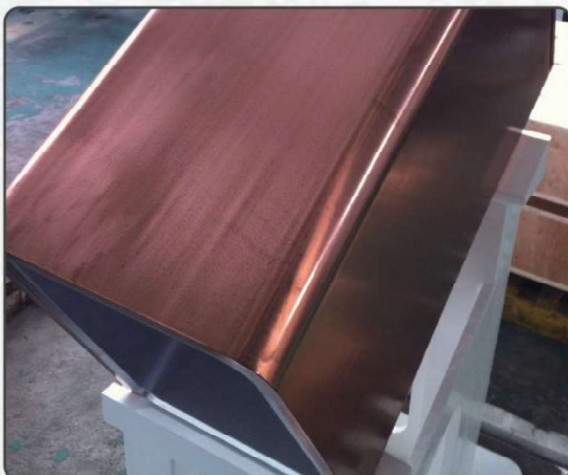


Name	Shape/Size	Item	Radius	Thick	Length	Remarks (Unit: mm)
Square & Rectangular Mould	Square 50x50 ~650x650 Rectangular (100~500)x650		3000 -17000	6~50	602-1100	Design with single taper, double Taper, triple taper, quadruple taper, parabolic taper, double parabolic taper, and various kinds of continuous taper
Round mould	Φ110-Φ1500		5000 -17000	10~50	700-900	Design with double taper, triple taper Multi-taper, parabolic taper and various kinds of continuous taper
Non-standard mould Beam blank mould	As per order		6000 -14000	12~50	700-1000	With single taper, double taper, triple taper, parabolic taper and various kinds of continuous taper



## High-precision Copper Mould Tubes :

We can produce high-precision machining copper mould tubes with a little higher price than regular moulds. The high-precision moulds have higher precision of the external and internal sizes, which leads to even water gap between the moulds and water jackets, as a result the cooling effect is better and the life time of the moulds is longer.







## Notice:

1. Please use the copper mould tubes within one year.
2. Please store the copper mould tubes in someplace dry and well ventilated.
3. Keep the copper mould tubes from acidic materials, especially the internal coating surface.
4. Polish the external surface of the copper mould tubes with sand paper if oxidized.
5. Pouring the molten steel to the center of the copper mould tubes.
6. Avoid internal surface scratch of the moulds caused by manual operation.

Material					
Item	Temp	Unit	Material		
			CuDHP	CuAg0.1	CuCrZr
Chemical Composition					
			P0.015~0.040	Ag0.08~0.12 P0.004~0.012	Cr0.30~1.20 Zr0.03~0.30
Physical properties					
Electical conductivity	20	%IACS	83	95	80
Thermal conductivity	20	w/(m.k)	340	372	330
Coefficient of thermal expansion	20-300	10 <sup>-6</sup> /K	17.1	17.1	17.2
Recrystallisation temperature		℃	345	360	690
Modulus of elasticity	20	10 <sup>3</sup> MPa	120	123	126
Melting point		℃	1083	1083	1078
Specific gravity		g/cm <sup>3</sup>	8.9	8.9	8.9
Mechanical properties					
Ultimate tensile strength	20	Mpa	240-310	240-310	375-445
Ultimate tensile strength	100	Mpa	190-270	230-270	365-425
Ultimate tensile strength	200	Mpa	140-190	205-240	365-410
Ultimate tensile strength	300	Mpa		175-210	335-375
Ultimate tensile strength	400	Mpa		145-160	315-350
0.2Yield point strength(Rp0.2)	20	Mpa	190-250	200-225	280-355
0.2Yield point strength(Rp0.2)	100	Mpa	185-260	195-240	270-345
0.2Yield point strength(Rp0.2)	200	Mpa		180-225	260-330
0.2Yield point strength(Rp0.2)	300	Mpa		165-215	250-320
0.2Yield point strength(Rp0.2)	400	Mpa		130-145	240-290
Elongation(A5)	20	%	25_10	16_10	20-13
Hardness	20	HB	80-95	110-125	115-130
Mark: TP2 (GB/T5231-2001) = SF-Cu/DHP-Cu(DIN1787)					



## Equipments :

To make sure the good quality and sufficient production capacity, we have 5 sets of large, medium and small hydraulic press, 18 sets of CNC machine centers, 2 sets special CNC processing machines, which can produce max. Dia.1500mm round tubes and max 3800x1000x70mm copper plates.





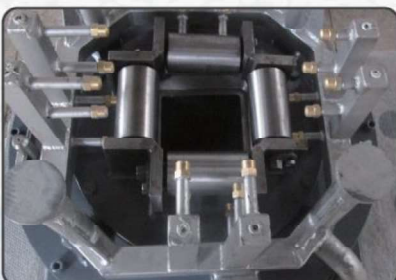


## · Mould Assembly

Mould assemblies are key equipment for continuous casting. We produce round, square, rectangular and beam blank mould assemblies of different sizes with material of stainless steel and carbon steel. We have vertical and curved types in structure, the precision of mould assemblies are guaranteed as the forged stainless water jackets are produced by extrusion and machined by high precision CNC machines.



## · Mould Assembly Spare parts







## · Water Jackets

High precision water jackets along with convex type copper moulds could effectively improve the casting speed.

And not like copper mould tubes, good water jackets could be used for years.

We could design the drawing and manufacture the water jackets accordingly as per your requirements.



· Spray tubes



· Spray Nozzles



· Continuous Caster Rollers



· Continuous Caster Components



· Straightening Rollers



· Dummy bar

## · **Coupling shaft**

The universal coupling shaft is used to connect driving shaft and driven shaft of two different mechanisms, so that torque could be transferred.







## · Metallurgical Blades

We supply shear blades in different materials, such as high-grade alloy tool steel, high-speed steel, carbide alloy, cladding steel and inserted steel. They have different profiles, such as rectangular, V-shaped, circular, curved and section. The products weigh from 10g to 600kg ,up to 1.5meters in diameter, 4.8 meters in length and IT4 class in machining precision. The blades are not only sold to all major Chinese steel plants but also exported to Japan, Germany and other countries.



## · Stretch reducing and sizing rolls

Material: ductile cast iron, chilled cast iron and indefinite chill casting  
Hardness: HSD 52~75( as per required)  
Metallurgical structure : pearlite, bainite +carbide+ graphite  
Manufacturing procedure: centrifugal and monoblock casting  
Production capacity: 4000T/Year



## · Rings for rod mills

Material: Alloy ductile iron  
Hardness: HSD50~75( as per required)  
Metallurgical structure : bainite,pearlite  
Manufacturing procedure: centrifugal and monoblock casting



## · Rolls for rod mills

Material: Alloy ductile iron, indefinite chill casting  
Hardness: HSD 48~72(as per required)  
Metallurgical structure : bainite  
Manufacturing procedure: centrifugal and monoblock casting

*We supply hot rolling rolls as well as cold rolling rolls as per customers' requirements.  
Forged and cast rolls are available with required materials.*



## ▪ Tungsten Carbide Roll Rings

High quality tungsten carbide roll rings for rolling mill are widely used as seal faces with resistant-wearing, high fracturing strength, high thermal conductivity, small thermal expansion coefficient. It is the best material to resist heat and fracture in all hard face materials.



### Property :

- 1.High hardness & good wear resistance. Normal hardness reaches HRA 78-89, under temperature 600 ,beyond hardness of high speed steel
- 2.High elasticity modulus
- 3.High mechanical strength, compressive strength is up to 6000MN/M2
- 4.High density
- 5.Good thermal conductivity
- 6.Good corrosion& oxidation resistance

## ▪ Gear Shafts

Gear shaft is a mechanical part which support rotating parts for passing movement ,torque and flexural moment.

Production standard: DIN 3972,DIN867 Standard.

Material: According to customers' requirement.







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# Rolling Mill Rolls

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MACHINERY GROUP CO.,LTD**



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## 企业简介：

江苏艾米克冶金机械有限公司位于江苏省无锡市，公司致力于生产和供应炼钢厂、轧钢厂、铁合金厂、铸造厂和选矿行业使用的冶金机械设备、配件和耗材。我司还为国内外生产商提供代理服务。

艾米克团队多年来致力于技术调研、设计、生产和销售。公司和中国多家一流生产企业建立了合作关系，确保公司可以为客户提供一站式供货服务。

艾米克专注于快捷、耐心、专业和体贴的售后服务。以顾客至上为发展基础和准则。艾米克团队全年 24 小时为您服务。为了第一时间接受客户的反馈，了解客户的需求，艾米克在各国拥有代理并与当地贸易公司合作。

艾米克正努力成为世界一流供应商，不只是供应产品和服务，更是供应价值和诚信。我们的产品已经远销希腊、土耳其、伊朗、沙特阿拉伯、美国、厄瓜多尔、南非等国。以“品质、服务、价值”为信条，艾米克期待与海内外贸易伙伴和顾客建立长期互利共赢的合作关系！



## About Us:

AMK Metallurgical Machinery Group Co., Ltd is located in Wuxi, Jiangsu province. The company is specialized in producing and supplying metallurgical & mechanical equipments, spare parts, consumables for steel mill, rolling mill, ferroalloy industry, foundry, mineral processing industry, etc. We also provide agency services for domestic and worldwide manufacturers.

AMK members have been devoting themselves to technical research, design, production and sales for years. We're also working with other Chinese domestic leading manufacturers to ensure One-Stop Supply for our customers worldwide.

AMK focuses on prompt, patient, professional and considerate after-sale service. Customer first is our principle and basis of development. AMK team is at your service 24/7. AMK is cooperating with global representatives and trading companies to ensure more convenient communication and fast reaction to customers' feedbacks and demands.

AMK team is dedicated to being a world leading and trustworthy supplier who is not only supplying products and service but also value and integrity. We've been exporting products to Greece, Turkey, Iran, Saudi Arabia, America, Ecuador, South Africa, etc. Guiding by the spirit of "Quality, Service, Value", we look forward to building long-term and mutually beneficial cooperation with partners and customers all around the world!



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### Rolling Mill Rolls

#### Cast Iron Roll

- ◆ Alloy Infinite Chilled Cast Iron Roll
- ◆ Alloy Chilled Cast Iron Roll
- ◆ Alloy Graphite Roll
- ◆ Pearlitic Nodular Cast Iron Roll
- ◆ Bainitic Nodular Cast Iron Roll
- ◆ High Chrome Cast Iron Centrifugal Roll

#### Cast Steel Roll

- ◆ Alloy Cast Steel Roll
- ◆ Adamite Roll
- ◆ Graphite Steel Roll
- ◆ High Chrome Steel Roll
- ◆ High-speed Steel Roll( HSS Roll)

#### Forged steelrolls



#### Alloy Indefinite Chilled Cast Iron Rolls

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
AICCI	≤1400mm	≤4600mm	55-83HSD	35-55HSD	Small steel, wire rods and finishing hot rolled sheets, strip finishing mill

#### Alloy Chilled Cast Iron Roll

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
CCI	≤500mm	≤1000mm	60-85HSD	32-52HSD	Profile material, Rods and bars, Wire rod rolling mill and narrow strip steel rolling mill finishing stand

#### Alloy Graphite Roll

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
SGV	≤1500mm	≤3000mm	50-70HSD	33-55HSD	Profile material, Rods and bars, Wire rod and narrow strip steel rolling mill set, Intermediate rolling stand

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### **Pearlitic Nodular Cast Iron Roll**

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
SGP	≤1500mm	≤3000mm	45-72HSD	35-55HSD	Profile material, Rods and bars, Wire rod and narrow strip steel rolling mill set, Intermediate rolling stand

### **Bainitic Nodular Cast Iron Roll**

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
SGA	≤1500mm	≤3000mm	55-80HSD	32-45HSD	Profile material, Rods and bars, Wire rolling mill rough rolling, Intermediate rolling, Pre-finishing mill stand, Seamless steel tube tandem mill reducing-sizing stand

### **High Chrome Cast Iron Centrifugal Roll**

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
HCr	≤1500mm	≤4300mm	60-90HSD	32-45HSD	Profile material, Rods and bars, Wire rod rolling mill finishing stand, Hot strip tandem rolling rough rolling, Working roll in the front part of finishing rolling mill, Working roll for wide/mid-thick plate rolling mill

### **Alloy Cast Steel Roll**

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
AS	≤1500mm	≤3000mm	35-50HSD	Max.45HSD	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling, Narrow strip steel support roll

### **Adamite Roll**

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
AD	≤1800mm	≤3000mm	35-65HSD	Max.60HSD	Rods and bars, Wire material, Profile steel, Plate strip rough intermediate rolling, Vertical Roll, Roll collar, Support roll

### **Graphite Steel Roll**

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
GS	≤1800mm	≤3000mm	36-65HSD	Max.50HSD	Intermediate-small-sized profile steel, Rod wire rough rolling mill, Hot-rolling strip steel shaping roll, Roller cover of universal rolling mill

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### High Chrome Steel Roll

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
CS	≤1500mm	≤4300mm	70-85 HSD	35-45 HSD	Hot-rolling strip steel rough rolling, Working roll in the front part of finishing rolling mill, Working roll for wide/mid-thickness rolling mill, Mill roll of universal rolling mill for profile steel

### High-Speed Steel Roll

Code	Roll diameter	Roll length	Roll Body Hardness	Roll Neck Hardness	Range of Application
HSS	≤1000mm	≤3000mm	75-98 HSD	30-45 HSD	Rolled strip, Bar finishing roller, High-speed wire pre-finishing, Steel roller universal rolling mill, wide plate mill work rolls

### Forged Steel Roll

Name	Material	Hardness	Depth of quenching	Uniformity of hardness
Working Roll	2%Cr,3%Cr,5%Cr	70-104HSD	10-50mm	+/-1 HSD
Intermediate Roll	2%Cr,3%Cr,5%Cr,SSH	70-85HSD	10-50mm	+/-1 HSD
Back-up Roll	9Cr2Mo,86CrMoV7,70Cr3Mo,45Cr5NiMoV	60-80HSD	10-75mm	+/-1.5 HSD

### TC Roll Rings

High quality tungsten carbide roll rings for rolling mill are widely used as seal faces with resistant-wearing, high fracturing strength, high thermal conductivity, small thermal expansion coefficient. It is the best material to resist heat and fracture in all hard face materials.

Property:

1. High hardness & good wear resistance. Normal hardness reaches HRA 78-89, under temperature 600 ,beyond hardness of high speed steel
2. High elasticity modulus
3. High mechanical strength, compressive strength is up to 6000MN/M<sup>2</sup>
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### Rolling Bearings

We can supply all kinds of SKF or FAG rolling bearings for rolling mills.

We can also design and make adjustment for the bearings according to your requirements!



Cylindrical Roller Bearings



Angular Contact Ball Bearings



Spherical Roller Bearings



Deep Groove Ball Bearings

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### Bearing Housing

Bearing housing is mainly used to support and fix the bearings.

Materials: Cast steel, nodular cast iron, grey iron, stainless steel.



### Coupling Spindle

The universal coupling shaft is used to connect driving shaft and driven shaft of two different mechanisms, so that torque could be transferred.

Universal Joint Shaft (Universal Coupling) is used as the main transmission connecting shaft for the main transmission of hot continuous rolling rough mill, large section steel rolling mill, punching machine, medium width plate mill, steckel mill and other heavy machinery.



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### Gear Shafts

Gear shaft is a mechanical part which support rotating parts for passing movement, torque and flexural moment. Production standard: DIN 3972, DIN867 Standard.

Material: According to customers' requirement.



### Rolling Mill Guide

High speed wire rod guide

Rebar guide

Section steel guide

Sliding guide

Twisting guide

Slitting guide



### Water Quenching System

WQS is used for rebar production in hot rolling mill.

1. Single strand
2. Double strands
3. Three strands

We can make the design for your choice



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### Mandrel Bars

When rolling seamless tubes, a pre-pierced steel billet is rolled over a mandrel bar by grooved rolls in a stretch reducing rolling process to produce a tube or a tube blank. The mandrel bar determines the shape of the inner tube surface.

We supply mandrel bars max. dia. 350mm, L 17500mm.  
Our biggest advantages:

1. Competitive price with superior product quality
2. Cost effective
3. Considerate after-sales services



### Copper Bushes

In the field of bearing applications, it reduces the wear between the bearing and the and acts bearing house as a lubricant.



### Casting Wheel

It's one of the important components used in the production of wire and cable continuous casting and rolling mills.







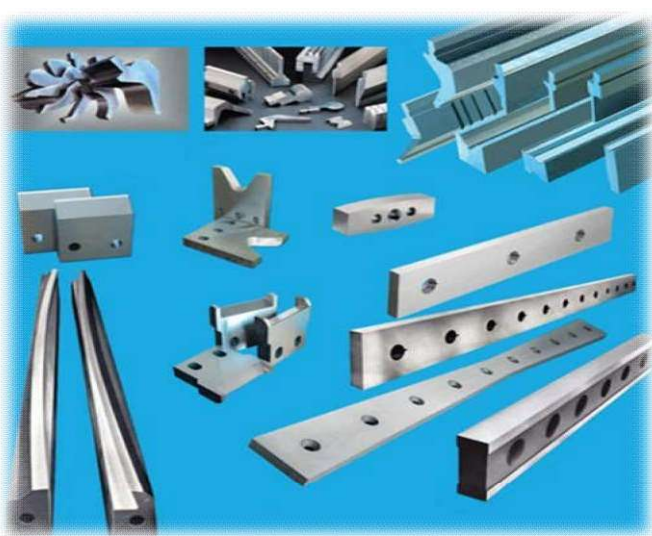
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### Metallurgical Blades

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### Tube Sheet

Standard: ASME(ANSI), DIN and Chinese standard GB, JB, SH, HG

Material: Alloy steel, stainless steel, titanium, brass. Copper Tube Sheet for Heat Exchanger.



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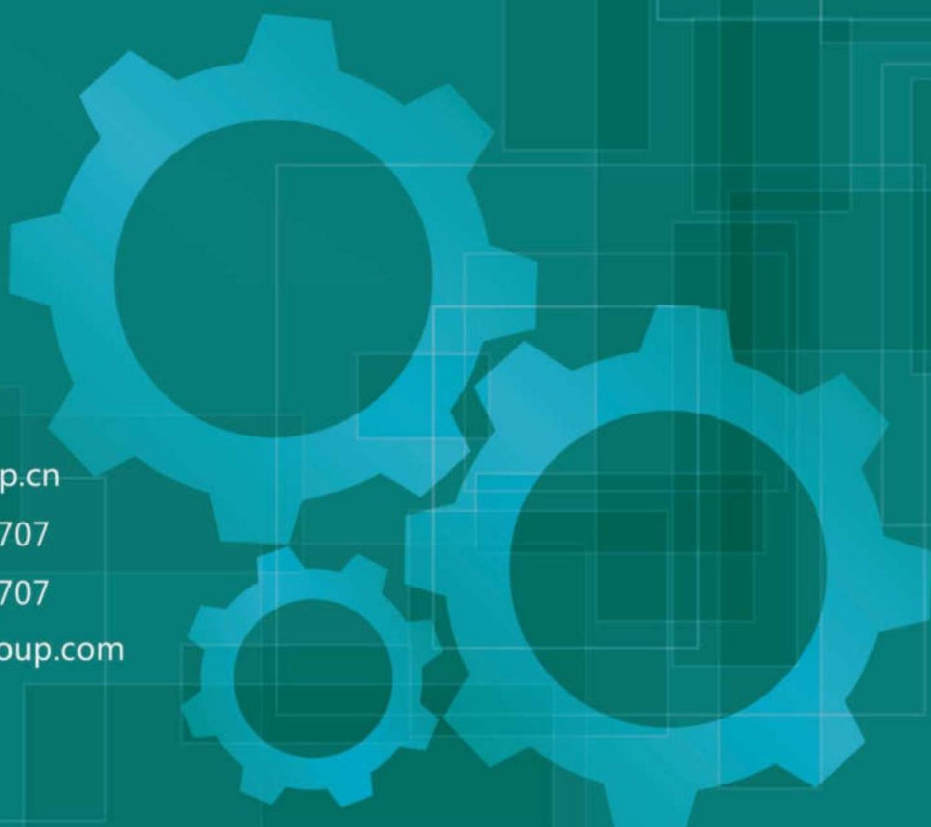
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## **Steel Mill Consumables**

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# Products

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Oxygen lance Pipe

## ***Page 4***

Slag Pot

## ***Page 5***

Ingot Mould

## ▪ **About Us**

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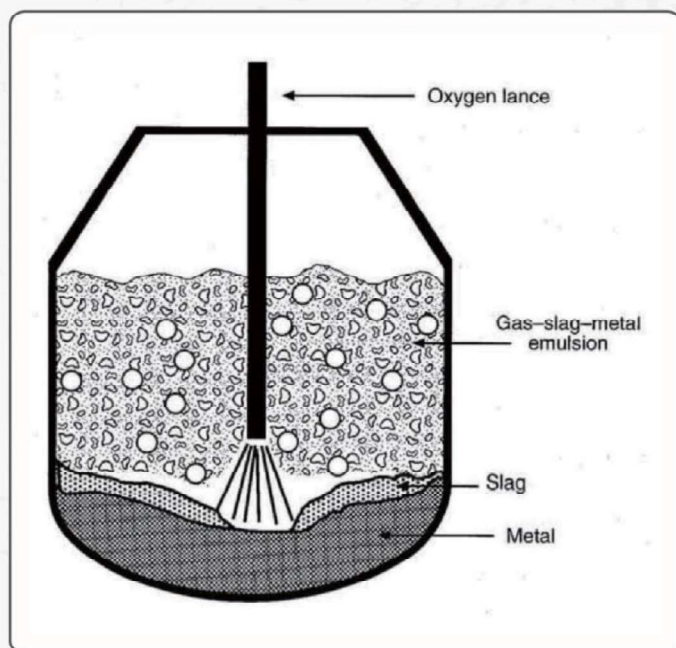
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AMK team is dedicated to being a world leading and trustworthy supplier who is not only supplying products and service but also value and integrity. We've been exporting products to Greece, Turkey, Iran, Saudi Arabia, America, Ecuador, South Africa, etc. Guiding by the spirit of "Quality, Service, Value", we look forward to building long-term and mutually beneficial cooperation with partners and customers all around the world!



## · Oxygen Lance Pipe

Oxygen lance pipe is mainly used for oxygen injection into electric arc furnace. During the steelmaking process, a desired carbon content is attained by injecting oxygen into the molten metals. This process is used in blast furnaces, basic oxygen furnaces. Induction and electric furnaces lance pipes are used for opening furnace tap holes, cleaning ladle well blocks, unclogging tundish nozzles, cutting ferrous materials, etc. In short, oxygen lance pipes also could be used for powder injection, tap hole cleaning and opening nozzles in ladles, tundishes.



**Material:** welded steel ( Q195-Q235)

**Specification:** Customized

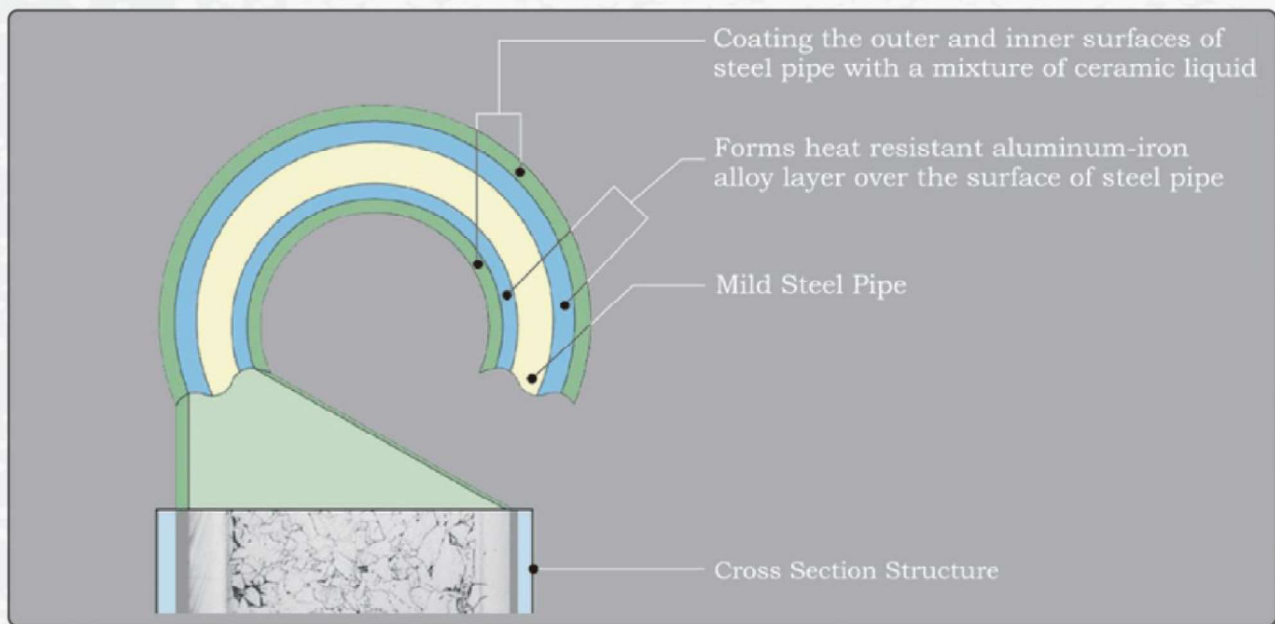






## · Calorized&Ceramic Coated Lance Pipe

Calorized/ ceramic coated or both calorized and ceramic coated lance pipes greatly extend the service life, improve the efficiency and cost effective eventually.



### Features:

1. Anti-corrosion, anti-sulphurization, anti-oxidation
2. High thermal resistance
3. Longer service life, steel consumption reduced
4. Oxygen/ powder injection efficiency improved
5. Labor intensity reduced (time to replace the pipes reduced)
6. Graphite electrode consumption reduced
7. Melting time reduced

### Material:

welded steel pipe( carbon steel or seamless steel for your choice)  
Heat resistance: 1650-1850 °C





## Connection methods:

### Type 1

No threads for type 1 with just one pressed coupling



### Type 2

Both ends have threads with one coupling and one plastic cap



### Type 3

Both ends have threads with one coupling and one plastic cap



### Type 4

No threads and no couplings



## Notes:

The connection is not limited to the above four types, your requirement is our standard.

## Supply range:

- 1.Diameter: From 3/8" to 1-1/2" for your choice
- 2.Length: From 2.5 meters to 5.5 meters (customized)
- 3.Coating: 6.5mm-7.4mm ;7.5-9.5mm (customized)







## · Slag Pot

Slag pot is an important equipment in metallurgical industry that used to contain high temperature slag. It could be viewed as three parts, the body, trunnion and turning mechanism. The body is made in cast steel, the trunnion and turning mechanism could be casted or forged according to buyer's option.

### Material:

1. Carbon steel
2. Low-alloy steel
3. Customized

### Specification:

We supply slag pots range from 10Mts to 90Mt.

### Lead time:

About 30-60 days.





## · Ingot Mould

Ingot mould is used to mould steel ingot. We could supply flat ingot mould, round ingot mould, square ingot mould, polygonal ingot mould and etc.

### Materials:

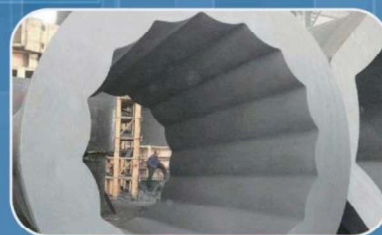
- 1.Gray cast iron
- 2.Ductile cast iron

### Range:

We supply ingot moulds weigh from 1mt to 180mt.







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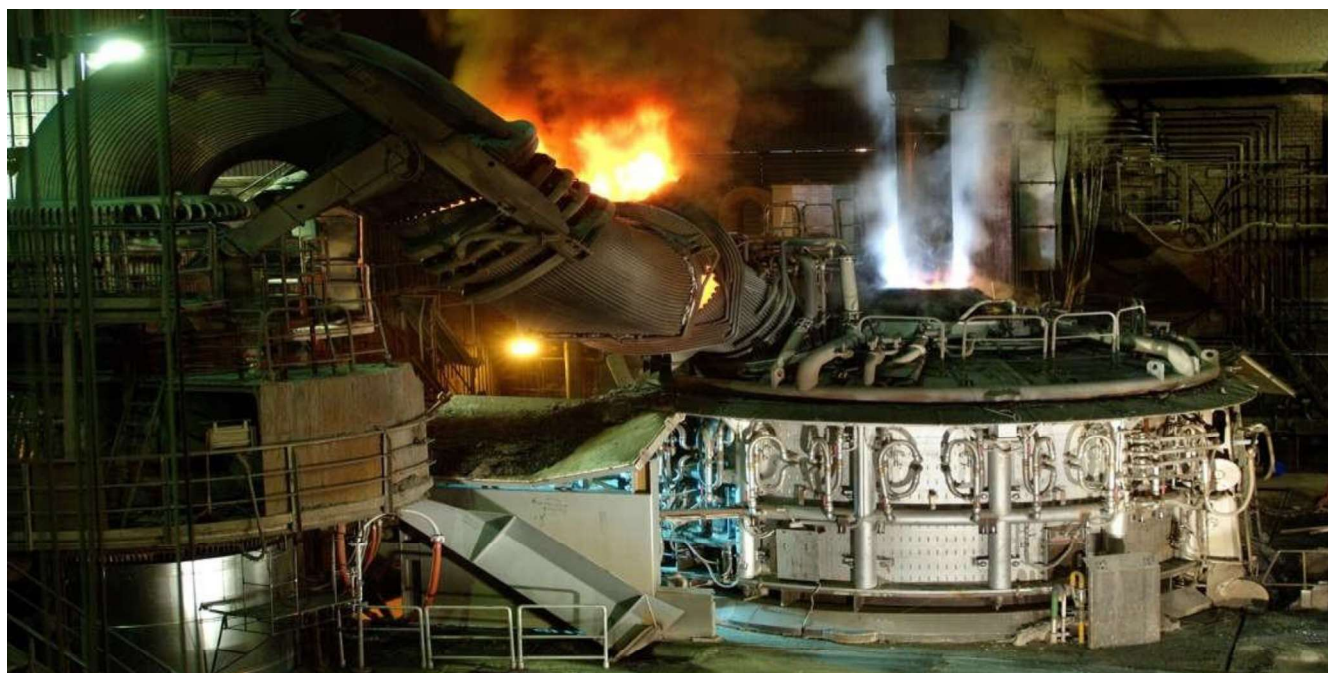
## AMK Metallurgical Machinery Group Co., Ltd

NO.39-310 OF YONGKANG HARDWARE CENTER, JIANGYIN 214400, CHINA

EMAIL: sales@amkgroup.cn TEL:+86 510 86028707

### Electric Arc Furnace /EAF

We supply standard and customized HX series Electric Arc Furnace, EAF.



The types we can supply are not limited to the following list.

Type	Nominal Capacity Unit: MT	Transformer Capacity Unit: KVA	Furnace Shell Diameter Unit: MM	Electrode Diameter Unit: MM	Central Circle Unit: MM	Cooling Water Consumption Unit: MT
HX-5	5	3200/4000	3200	300	850	120
HX-10	10	5500/6300	3500	350	950	125
HX-15	15	7000/9000	3800	400	1000	130
HX-20	20	8000/12500	4200	400	1050	150
HX-30	30	12500/25000	4600	450	1150	180
HX-40	40	20000/31500	5000	500	1250	210
HX-50	50	25000/40000	5200	500	1300	250
HX-75	75	50000/63000	5800	550	1450	260
HX-100	100	50000/80000	6400	600	1450	280

We aim to supply not only products, but also considerate service and integrity!

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### Ladle Refining Furnace /LF

The ladle refining furnace is used for refining after tapping from electric arc furnace, converter and open-hearth furnace.

LF refining is conducted through arc heating and argon blowing. During this process, steel deoxidization, desulfurization, the adjustment of steel temperature and chemical composition is completed.



For more than 20 years' experience of manufacturing and researching, we supply standard and customized ladle refining furnace not limited to the following list.

Nominal Capacity Unit: MT	Transformer Capacity Unit: KVA	Ladle Diameter Unit: MM	Electrode Diameter Unit: MM	Central Circle Unit: MM
15	3200	2110	250	450
20	4000	2200	300	560
25	4500	2350	300	580
30	5500	2550	300	650
40	6300	2750	350	650
50	9000	2950	400	700
60	10000	3150	400	700
75	12500	3250	400	750
100	16000	3550	450	750

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### Graphite Electrode Conductive Arm

Conductive Arm is a part of Electric Arc Furnace (EAF) or Refining Ladle Furnace (LF), functioned as lifting system for graphite electrodes. Conductive arm could help to reduce the consumption of electric and graphite electrode and reduce smelting time.

Arm body is made of copper and steel composite panel.

Graphite electrode holder is made of copper.

Water cooled circle for the holder is made of stainless steel.



### Supply Range

Used for EAF: 3-100 Tons, graphite electrode Dia. 250-600mm

Used for LF : 20-250 Tons, graphite electrode Dia. 200-450mm

### Characteristics

- Light in weight comparatively
- Easy installation and maintenance
- High strength
- Small electric resistance
- Good insulation and good cooling effect
- Long service life

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### Spare Parts



Water Cooled Cable



Oxygen lance and Lance tip



Air Compensator



Graphite Electrode Holder



Short Net



Water Cooling Compensator

### Oxygen lance tip

We supply oxygen lance tips with customized size.

The lance tips can be manufactured with one blowing hole and several holes as required.

High temperature resistance and strong fatigue resistance.

It has smaller water resistance and good cooling effect



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### Ladle Heater

Apply to fuel: natural gas, coal gas, liquefied gas, light diesel oil.

Apply to lade: 5-300 Tons.

Baking temperature: Min. 1100°C.



### Heater Burner

We supply heater burner for Ladle and Tundish.







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### Furnace Lid

Electric Arc Furnace Lid				
Item	AMK1	AMK2	AMK3	AMK4
$\text{Al}_2\text{O}_3+\text{MgO}(\%)$	Min.80	Min.90	Min.90	——
$\text{Al}_2\text{O}_3+\text{Cr}_2\text{O}_3(\%)$	——	——	——	Min.88
Bulk Density( $\text{g}/\text{cm}^3$ )	Min.2.80	Min.3.0	Min.3.1	Min.3.05
Bending Strength(MPa)	Min.5	Min.10	Min.12	Min.6
Crushing Strength(MPa)	Min.25	Min.60	Min.60	Min.40
Application	EHF	EHF, LF	EHF, LF	EHF, VD Furnace



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