Alloy Steel Industrial Plasma Arc Furnace Electric Iron Furnace High Current Conductor System

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: OEM
- Certification: CE Certification
- Model Number: OEM
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Carton, pallet, wooden case or according to customer's package requirements
- Delivery Time: 30 working days
- Payment Terms: 30% deposit + 70% T/T before shipping
- Supply Ability: 20 sets per month

Product Specification

- Type 1: Water Cooled Roof
- Type 2: Water Cooled Body
- Type 3: Water Cooled Pipe
- Type 4: EAF
- Type 5: LF
- Type 6: EBT
- Highlight: **eaf electric arc furnace**, **direct arc electric furnace**

Product Description

Electric Arc Furnace Tubular WCP and WCR Eccentric bottom tapping (EBT)

Electric Arc Furnace is a steelmaking equipment utilizing the thermal energy of arc generated
Between electrodes and scrap or metallic material, and is widely used for production of plain steel, top quality carbon steel, alloy steel, stainless steel in steelmaking works and steel-casting
plant.

Technical features

The following advanced technologies are to be applied to our electric arc furnaces such as tubular water cooled wall panel, water cooled roof panel, eccentric bottom tapping,
Copper-clad conductive electrode arm, intellectual electrode regulator of energy saving, PLC industrial screen monitoring system, etc.

♦ Flexible control of temperature.
In the steelmaking process the temperature of liquid steel can be flexibly controlled by means of adjustment of current and voltage, so to meet the requirements for production of various grades of steel.

♦ Higher thermal efficiency

♦ Atmospheric pressure inside furnace is controllable

♦ More inclusions, such as phosphor, sulfur, oxygen and other hazard elements can be removed from liquid steel so as to improve the steel quality,stable and higher yields of alloy elements,the chemical composition of liquid steel can be precisely trimmed,much grades of steel can be produced.

♦ Simple structure of furnace, compact process route

Latest technologies utilized :

Optimum selection for parameters of furnace
Tubular WCP and WCR
Eccentric bottom tapping(EBT)
Copper-clad conductive electrode arm
Large section flexible water cooled cable
Optimization configuration of high current conductor system)
Hydraulic system with proportional valves block
PLC basic level + process level industrial control system
Frequency change technology and network technology

Scope of work

Turnkey engineering with complete project design,
Equipment supply in complete or partial, revamping of existing equipment, services
Training and advice

Specifications of Electric Arc Furnace with Copper-clad conductive electrode arm

Inner dia. of furnace shell,	Rated tapping capacity	Rated Capacity of TFR	Primary Voltage Of TFR	Secondary Voltage of transformer	Diameter Of electrode	PCD of electrodes	Flow-rate Of cooling water	Total weight Of mechanical equipment
mm	ton	KVA	KV	V	mm	mm	M3 / hr	ton
2100	0.5	650	6-10	200-98	150	450	30	5
2500	1.5	1250	6-10	210-104	200	650	45	9
3000	3	2200	6-10	220-110	250	750	50	24
3400	5	3200	6-10	240-131	300	850	80	34
3500	10	6300	10	260-139	350	950	130	74
3800	15	8000	10	260-139	350	1000	180	85
4200	20	10000-12500	35	280-100 314-116	400	1050	240	98
4300	30	12500-18000	35	314-116 353-137	400	1050	405	178
4600	40	18000-25000	35	392-158 489-201	450	1150	455	205
5200	50	25000-31500	35	436-184 547-223	500	1300	504	224
5500	60	40000-50000	35	547-223 610-250	550	1350	900	252
5800	75	50000-63000	35	610-250 673-277	600	1450	1100	274
6400	100	50000-80000	35	673-277 760-310	600	1450	1200	294
6800	125	63000-100000	35	760-310 880-330	650	1500	1300	330

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