



SHANGHAI ELECTRICAL MACHINERY GROUP CO., LTD.

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Add: No. 258-268, ZhaoJiaBang Road, Shanghai China Website: <http://www.semgroup.com>

Advance technology of coticaster / CCM introduction

Design according Italy technology and Italy CCM OEM factory. Biggest factory with 1000 workers in china

No	Name	Main composition and technical explain	Remark
1	150X150 or (120x120) mould 	Water jacket: carbon steel type The sealing ring of silicon rubber copper tube The width of water seam: 4mm Water flow rate: 10m/s The material of copper tube: Cu-P Coating of inner wall: Cr The length of copper tube: 900mm	150x150mm 1.8-2.6m/minutes 120x120mm 2.0-2.7m/minutes
1.1		Mould(crystallizer)150x150mm:	5100USD/set MOQ: 2sets
1.2		Copper tube 150x150mm	920USD/pc MOQ: 10pcs
2	Primary cooling system	The cooling water be connect automatically after mould on place Flow adjustment mode: manual switch for supply water, manual flow adjustment With: pressure meter, butterfly valve, elbow, etc.	
3	Mould oscillation device Complete leaf spring oscillation  Half leaf spring oscillation	Half leaf spring oscillation(standard supply) or operational supply according end user . Complete leaf spring oscillation table(Advance technology, almost no wear and tear ,long working time, top quality) Main parameter Oscillation frequency: 50~205/min Amplitude: 2.5~6 mm Oscillation mode: sine Motor: 11KW4 grade	



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4	Secondary cooling system	Automatic /manual water distribution Water distribution tank, gate valve, spring pressure meter, three-way, elbow, etc..	
5	Guide section of secondary cooling	The diameter of down holding roller: $\phi 170$ The diameter of up holding roller: $\phi 160$ The diameter of both sides vertical roller $\phi 160$	
6	150X150 spray piping 	Structure form: arc type stainless steel square pipe Total be divided to 3 sections: secondary cooling section 0 (down mouth of mould), secondary cooling section 1, secondary cooling section 2 Spray mode: 5265, water spray	
7	Withdrawal and straightening machine 	No.1, roller, bearing base be cooled with water, AC frequency invert drive The material of roller: alloy forging steel, wear-resistant materials on roller surfacing The roller diameter of turbine warm rod reducer: $\phi 270\text{mm}$. Design according the Italy technology . This gearbox is our advance technology.	
	AC frequency invert motor	YZP112M-4, power 4.0KW Rotary speed: 1500r/min	
	Reducer	1. Cycloid reducer: BLVB2-9-4.0 drive ratio $i=11$ 2. Turbine warm rod reducer DSW29-4.0	



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		drive ratio $i=35$ 3. The reduce box adopt water connection type	
	Rotary joint	Structure form: built-in type	
	Withdrawal and straightening hydraulic cylinder	Diameter of cylinder: 125mm, diameter of rod: 80mm (oil cylinder)	
	Off billet hydraulic cylinder	Diameter of cylinder: 125mm, diameter of rod: 80mm (oil cylinder)	
8	Dummy bar assembly 	Structure form: rigid dummy bar, section size: 170X150mm, material of dummy head: alloy forging steel	
9	Dummy bar storage device 	1. Cycloid reducer: BLVB2-9-4.0 drive ratio $i=11$ 2. Frequency invert motor: 4.0KW	
10	Hydraulic cutter/flame cutting 		
10.1	Flame cutting machine 		
10	Roller table before cutting (operational)	Structure form: free short roller (bearing base be cooled with water) Diameter of roller: $\phi 219\text{mm}$ Length of roller: 320mm	



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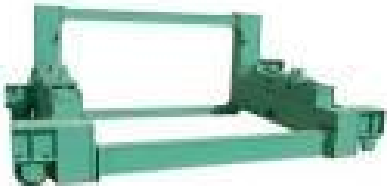
			
11	Roller table after cutting and transportation	Structure form: distributary short roller, centralized chain drive (bearing base be cooled with water) Spacing of roller: ~760 Diameter of roller: $\phi 219\text{mm}$ Length of roller: 320mm Motor: 4.0KW Cycloid reducer: 1:35	
12	Discharge roller table 	Structure form: centralized chain drive (bearing base be cooled with water) Diameter of roller: $\phi 219\text{mm}$ Length of roller: $\phi 320\text{mm}$ Motor: 4.0KW Cycloid reducer: 1:35	
13	Fixed baffle		
14	Pusher and cooling bed 	Hydraulic push motor driver	
15	Main hydraulic control	Motor: 7.5KW manual control	
16	Hydraulic pump 	Model: CB-31.5-FL18 Valve and pump: Taiwan YULI brand	
17	Electrical control system 	PLC 300 automatic control (SIEMENS) or (Taiwan DELTA) The power of withdrawal and Straightening frequency inverter: 15KW The power of oscillation frequency Inverter 15KW Low voltage component of control	



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		Cabinet: adopt Omron, Schneider. 	
18	Steel structure platform		
	Ladle support : Ladle moving car support 	Ladle Rotor Tower 	
19	Tundish 	Capacity: 1-1.5ton	
20	Tundish Car	Motor moving Driving.	



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21	Platform 	Construction platform with ladle moving mechanism 	
		Above is CCM complete online equipment Supply scope from under ladle to cooling bed.	
	Operational: Ladle 	 Preheating Equipment	
	Billets Clamp 	 Hydraulic Ladle tilting machine.	

Continuous casting machine factory introduce

Our company specializes produces metallurgical equipment, continue casting machine, electric furnace. Our company found in 1986, and covers the area over 30 hectares(300000M2), has more than 1000 employees, among of them there are more than 80 engineers and technicians with 20 senior and 25 intermediate title.



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Our company has modern machinery and processing equipment more than 100sets include German and Russia CNC Gantry Milling Machine, large CNC boring and milling machine, Large CNC cutting machine and so on. We mainly produce electric furnace, continue casting machine, rolling mill, blast furnace, converter and so on, we can do all of design, manufacture, installation, commissioning. Our products were exported to Italy, Philippines, Indonesia, Mongolia, Kazakhstan, Malaysia, Ukraine, Honduras, Iran, Zambia, Nigeria, Myanmar, Vietnam, Syria, Angola, etc. We produce and sale various metallurgical equipments more than 100sets yearly.

Our continue casting machine series produces were awarded "China Top Ten Brands of the well-known continuous casting machine", and passed the ISO9001: 2008 standard certification. Our metallurgical equipments include electric arc furnace, ladle refining furnace adopt the technology of conductive across arm, tubular water-cooled furnace wall, tubular water-cooled furnace lid and so on with the world advanced level, and equip the PLC control, they are more energy-saving, environmental protection. Our automatic hydraulic cutter which we research and development independent possess reasonable structure, stable performance, and is controlled by PLC, with high cutting precision, fast speed, and reduced waste.





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