

## Spare Parts

### 一、Application pictures of CCR products (mark each accessories well)



### 二、Introduction of accessories

#### 1. Casting ring

##### 1) picture display



##### 2) technical parameter

Out diameter(mm)	Inner diameter(mm)	Height(mm)	Cross-sectional area(mm <sup>2</sup> )	Chamfer R(mm)
$\phi 600 \sim \phi 4500$ ( $\phi 1300, \phi 1500, \phi 1600, \phi 1650,$ $\phi 1800, \phi 2100, \phi 2200, \phi 2600, \phi 3100$ )	$\phi 400 \sim \phi 4300$	100~400	1100~10000 <b>(1600: 2380mm<sup>2</sup></b> <b>2100~2200:3320mm<sup>2</sup>)</b>	5~10
<b>Material:</b> T2, TAg0.1, CuCr0.7Zr				

Type	Mechanical property in room temperature(20°C)					
	Tensile strength (Rm/MPa)	Yield strength (Rp0.2/MPa)	Elongation (A%)	Hardness (HBW)		
<b>T2</b>	≥250	≥200	≥10	≥80		
<b>TAg0.1</b>	≥280	≥265	≥17	≥90		
<b>CuCr0.7Zr</b>	<b>M</b>	≥350	≥240	≥25	≥100	
	<b>Y</b>	≥410	≥280	≥18	≥125	
<b>M:</b> by solid solution+aging treatment; <b>Y:</b> solid solution+cold harden+aging treatment						
Type	Physical properties					
	Density (g/cm <sup>3</sup> )	Electric conductivity (%IACS)	Thermal conductivity (100°C) (W/mK)	Soften temperature (°C)	Average grain size (μm)	Linear expansion coefficient (20~200°C) (/10 <sup>6</sup> °C)
<b>T2</b>	8.93	≥98	≥370	≥250	≤50	<17.3
<b>TAg0.1</b>	8.0	≥95	≥340	≥300	≤50	<17.7
<b>CuCr0.7Zr</b>	8.0	≥80	≥310	≥550	≤50	<18

## 2. Steel belt

### 1) picture display



### 2) technical parameter

Material	Thickness	Width	Length	Packing
SUS430 (10Cr17)	2~2.3mm	100~400	9.4~36.65m	Pallet+PE film

#### Aluminum CCR :

φ1600:15.3m, φ1800:16.5m

Copper CCR: about 23m

## 3. Rolling mill stand

## 1) Picture display (12~15# easy to wear)



## 2) Technical parameter

Type	Driving type	Bearing	Body	Rolling shape
Y-type, 3 tollers	Up and down shaft	NSK	Casted steel	Circle-arc triangle-circle

## 4. Rolling mill roller

## 1) Picture display



## 2) Technical parameter

Material		Hardness	Size	rolling shape
5CrMnMo	H13	HRC 48~52	$\varnothing 255 * \varnothing 70 * 60\text{mm}$ $\varnothing 255 * \varnothing 65 * 60\text{mm}$	Circle-arc triangle-circle

## 二、 Product application pictures of the above-cited method (mark each accessory well)



1. Melting ring  
1) Picture display



2) Technical parameter

Shape	Spec	Material	Type	Application
O, W type	150kg~ 5000kg	T1 copper	Single and double ring type	upward casting, horizontal casting machine

2. Induction coil  
1) Picture display





**2) Technical parameter**

Material	Spec	Application
Copper	150kg~5000kg	upward casting, horizontal casting machine

**3. Water cooling jacket**
**1) Picture display**

**2) Technical parameter**

Shape	Spec	Material	Application
Round, rectangle type	150kg~ 5000kg	Stainless steel	upward casting, horizontal casting machine

**4. Graphite mold**
**1) Picture display**


**2) Technical parameter**

Material	Spec	Application
Graphite	φ8mm, φ14mm	upward casting mold