

Kiln support roller



Weight : 7~42 t

Material : ASTM: 1055 / DIN: 42CrMo4

Application : Rotary Kiln

Customizable : Yes

一、Introduction

Support roller(support wheel) bears the whole weight of rotary kiln (including barrel, inside bricks, heat exchange device inside kiln, raw material, rolling ring, gear ring), which makes the barrel and the rolling ring rotates smoothly on kiln support roller. Therefore supporting roller with strong endurance has become one important standard to judge quality of rotary kiln.

二、Advantages of Kiln support roller:

1. Bear heavy load, good continuous operation.

Great Wall Casting adopts ZG55, ZG42CrMo etc. so as to guarantee the quality but also has advantages of bearing heavy load and good continuous operation.



2.Simple structure, easy adjustment and repair.

Great Wall Casting adopts rolling bearing wheel and has the characteristics of simple structure, convenient maintenance.

3.Using process of normalizing and tempering, high product hardness.

Great Wall Casting adopts process of normalizing and tempering, surface hardness of encircle is more than 200HB to ensure its great quality.

三、

Item	Introduction
1.material	Carbon alloy, low alloy steel ZG20SiMn,ZG35SiMn,ZG35CrMo etc.
2.process	molding-pouring-cooling-shaking out-heat treatment
3.Test	chemical composition, mechanical property, UT/MT and so on.
4.Machine	rough machined, semi-finished machined, finished machined
5.Certificate	ISO9001:2000,CE etc.
6.Application	The products can be widely used in the area of cement mill,rotary kiln etc.
7.Heat treatment	Normalized,Normalized and Tempered, Quench and Tempered.
8.Molding pit	The deepest molding pit is 45m*16.1m*(-6.0m), the largest casting pit is 87m*16.1m*(-3.5m),2 sets bell type heat treatment furnace(max 18m*7m*4m).

四、 Kiln support roller Quality assurance:

The fabrication route is governed by the provisions of the implemented Quality System ISO 2000 :9001. The standard documentation ensures the full traceability of every process step:

- Manufacturer test certificates according to DIN EN 3.1 § 10.204



including chemical composition, mechanical properties and non-destructive examination;

- Dimensional check supported with a “as-built“ sketch;
- Record of the heat treatment chart;

五、 Kiln support roller Manufacturing Process:

1. Wooden pattern Production
2. Molding
3. Pouring
4. First cleaning
5. Heat treatment – grinding (inspection)
6. Rough machining (inspection)-finishing machining (inspection)
7. Packing-delivering



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