

## Kiln Tyre



Weight : 5-80 t

Material : ASTM: 1045 / DIN: CK45

Applicable devices: rotary kiln

Application: Cement, Metallurgy, chemical industry, building etc.

Customizable : Yes

### 一、Introduction

Kiln tyre, also called rolling ring, is one important part of rotary kiln. It transmits all gravity of rotary barrel (including refractory bricks, internal devices and raw material, etc.) to supporting wheel, and ensures that barrel rotates smoothly on supporting wheel, as well as strengthen radial stiffness of barrel, therefore enough strength, durability and rigidity of rotary tyre are necessary.

### 二、Advantages of Kiln tyre:

- 1.High strength and good durability
- 2.Advanced double medium quenching process
- 3.High quenching hardness



4.Good wear resistance

5.Simple structure and easy to adjust and repair

### 三、 Our main material for Kiln tyre is similar to followings:

Standard Specifications for Cast Steel		
Country	Standard	Grade
United Kingdom	BS EN 10083/2-1991	C45
USA	ASTM A 29/A29M-04	1045
Germany	DIN EN 10083-2-2006	C45/CK45
Japan	JIS G5111	SCC5
International	ISO 683/1	C45/C45E4/C45M2

Standard Specifications for Cast Steel		
Country	Standard	Grade
United Kingdom	BS 970-1	708 A42
USA	ASTM A 29/A29M-04	4140/4142
Germany	DIN EN 10083-1-1996	42CrMo4
Japan	JIS G4053-2003	SCM440
International	ISO 683/1	3

### 四、 Kiln tyre 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:

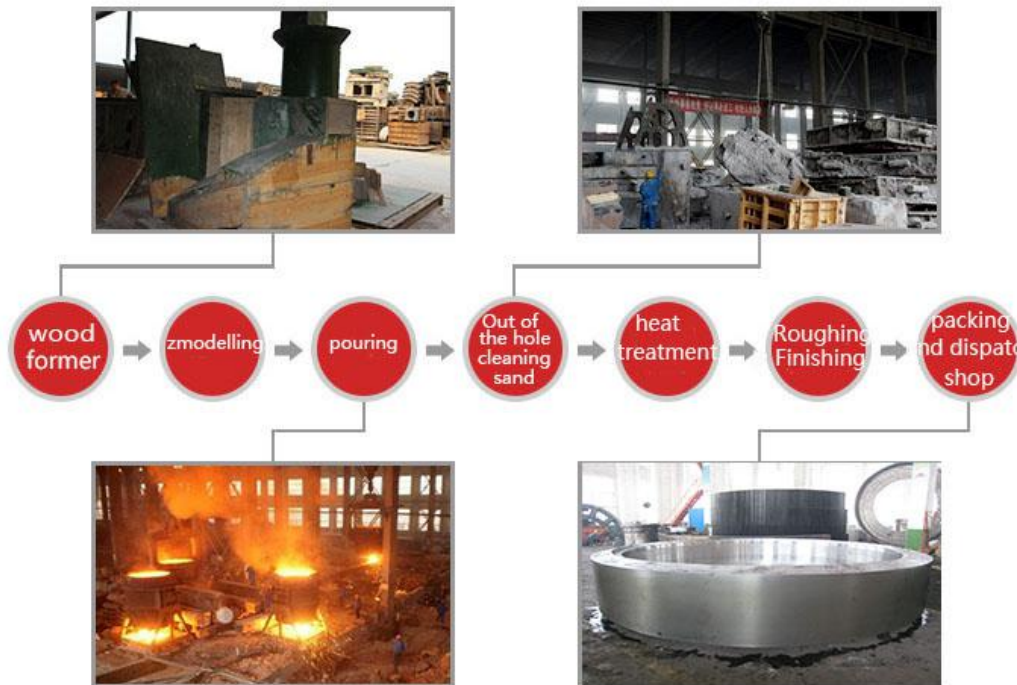
- Manufacturer test certificates according to DIN EN 3.1 § 10.204 including chemical composition, mechanical properties and non-destructive examination;
- Dimensional check supported with a “as-built“ sketch;
- Record of the heat treatment chart;

## **五、Kiln tyre 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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