



## TEASER CONSULTING ENGINEERS PRIVATE LIMITED

OFF. NO-11, 3<sup>RD</sup> FLR., SCO NO-3 & 4, HUDA MARKET, SECTOR-19,  
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### Casting Equipment Spare Parts

Common casting equipment and spares in a cement plant include a variety of components for raw material preparation, clinker production, and cement grinding, as well as material handling and auxiliary equipment. These include items like kiln tyres, support rollers, girth gears, ball mill liners, and crusher components like hammers and jaw plates. Additionally, spares for conveyors, bucket elevators, and other material handling systems are also crucial for maintaining plant operations.

#### 1. KILN AND COOLER SPARES: -

In a cement plant, kiln and cooler spares include components like kiln tyres, girth gears, pinion gears, support rollers, and cooler grates. These parts are crucial for the efficient operation of the pyro-processing and clinker cooling stages.

- Kiln Tyres (Riding Rings)
- Support Rollers
- Thrust Rollers
- Girth Gears
- Pinions
- Cooler Plates
- Grate Plates
- Cooler Beams





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### 2. GRINDING EQUIPMENT SPARES: -

Cement plants require various grinding equipment spares to maintain optimal performance and minimize downtime. These spares include components for ball mills, vertical roller mills, and crushers, as well as for material handling systems like conveyors and bucket elevators. Specific parts range from grinding media (steel balls, rollers) and liners to bearings, gears, and wear-resistant components.

- Mill Liners (for Ball Mills, Vertical Mills)
- Grinding Media (Balls, Cylpebs, etc.)
- Diaphragm Plates
- Mill Shells
- Trunnions



### 3. CRUSHER AND PREHEATER SPARES: -

Cement plants rely on numerous spare parts for both crushers and preheaters to maintain optimal performance and minimize downtime. These parts can include components like jaw plates, bearings, and hammers for crushers, and cyclones, air pipes, and seals for preheaters.

- Hammers
- Blow Bars
- Impact Plates
- Jaw Plates
- Rollers (for roller crushers)
- Dip Tubes
- Cyclone Cones
- Inlet & Outlet Chambers





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### 4. MATERIAL HANDLING CASTING PARTS: -

Material handling in a cement plant involves a variety of cast parts that are crucial for the efficient and reliable movement of raw materials and finished products. These parts, often made from durable materials like high-manganese steel, are designed to withstand harsh conditions and heavy loads. Common examples include rollers, pulleys, and various components for conveyors, crushers, and kilns.

- Drag Chain Links
- Clinker Breaker Hammers
- Sprockets
- Buckets (for bucket elevators)



### 5. CUSTOM CASTINGS: -

Custom castings in a cement plant refer to the specialized components, often made of metal, that are manufactured to precise specifications for use in cement production machinery. These castings are crucial for the functionality, durability, and efficiency of various cement plant equipment, including kilns, mills, crushers, and separators.

- Bearing Housings
- Base Frames
- Wear Plates
- Chutes & Liners (Ni-hard, high chrome, manganese steel)





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### MATERIALS TYPICALLY USED: -

- High Manganese Steel
- High Chrome Cast Iron
- Heat-Resistant Steel
- Ni-Hard Castings
- Alloy Steel Castings
- Ductile Iron



### SUITABLE FOR: -

- Cement Kiln Lines
- Raw Mills
- Coal Mills
- Clinker Coolers
- Cement Grinding Units

