TEASER CONSULTING ENGINEERS PRIVATE LIMITED

OFF. NO-11, 3RD FLR., SCO NO-3 & 4, HUDA MARKET, SECTOR-19,
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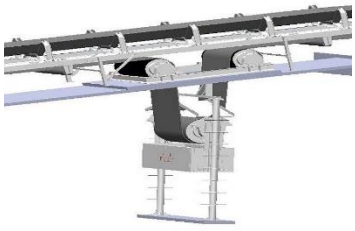
Cement Plant Material Handling Spare Parts

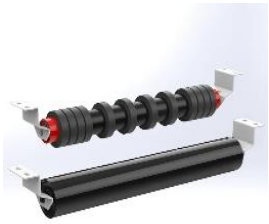
1. Conveyor System Spares: -

Conveyor system spares are replacement parts and components used to maintain and repair conveyor systems in cement plants. These systems are critical for transporting raw materials like limestone, clinker, gypsum, and cement across various production stages.

Used for belt conveyors, screw conveyors, drag chains, etc.

- **Conveyor Belts (Rubber, Heat Resistant, Chevron, etc.)**
- **Idlers & Rollers (Carrying, Return, Impact)**
- **Drive Pulleys & Tail Pulleys**
- **Belt Cleaners & Scrapers**
- **Tensioning Devices**
- **Skirt Rubber**
- **Bearings & Housings**
- **Gearboxes & Motors**
- **Take-up Units**
- **Belt Fasteners & Lacing**





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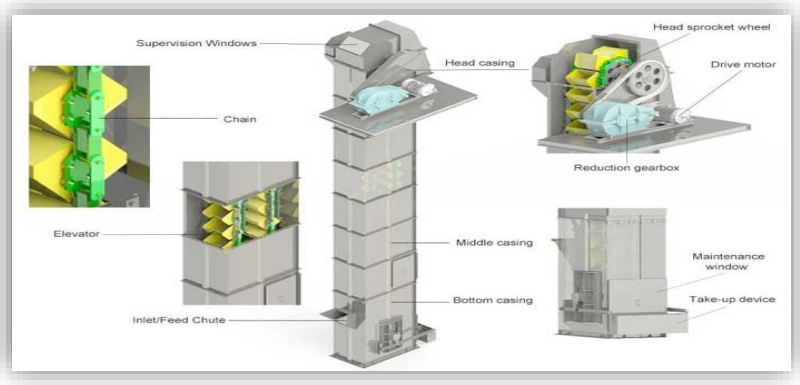
2. Bucket Elevator Spares: -

Bucket elevator spares are essential replacement parts used to maintain and repair bucket elevators, which are vertical conveying systems that transport bulk materials like raw meal, clinker, or cement between levels in a cement plant.

Used for vertical material transport (e.g., raw meal, clinker).

- **Elevator Buckets (MS, SS, Nylon, Polyurethane)**
- **Elevator Belts & Chains**
- **Chain Links, Sprockets**
- **Head & Boot Pulleys**
- **Elevator Bolts**
- **Bearings, Bushings**
- **Drive Assemblies**



3. Chain Conveyor Spares: -

Chain conveyor spares are replacement components used in maintaining chain conveyors, which transport heavy or abrasive materials like clinker, coal, or slag horizontally or at slight inclines in cement plants.

Used for heavy and abrasive materials like clinker.

- **Drag Chain Links**
- **Sprockets**
- **Wear Plates**
- **Rollers & Tracks**
- **Flights (Scraper Plates)**
- **Chain Tensioners**







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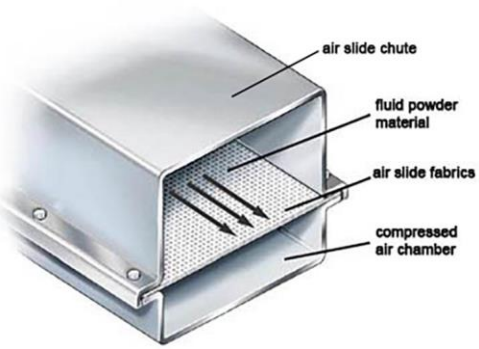
4. Air Slide System Spares: -

Air slide system spares are replacement parts used in air slide conveyors, which transport fine, dry powders (like cement, raw meal, or fly ash) using low-pressure air. These systems are widely used in cement plants for efficient, dust-free material handling over short to medium distances.

Used for pneumatic conveying of fine material (like cement).

- **Air Slide Fabrics**
- **Blowers & Fans**
- **Airlocks (Rotary Valves)**
- **Ducting & Bends**
- **Filters**

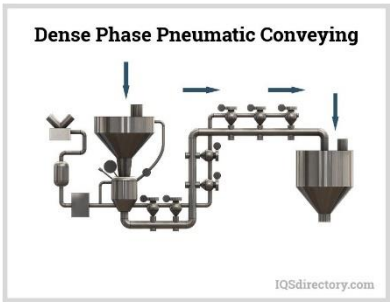


5. Pneumatic Conveying Spares: -

Pneumatic conveying spares are the essential replacement components used in pneumatic systems that transport powdered or granular materials (like cement, fly ash, or kiln dust) through pipelines using pressurized air or gas.

Used for transporting powdered materials.

- **Rotary Airlock Valves**
- **Blowers & Compressors**
- **Conveying Pipes & Elbows**
- **Wear-Resistant Liners**
- **Solenoid Valves & Actuators**
- **Seals & Gaskets**



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6. Gates: -

In a cement plant, gates are essential for controlling the flow of bulk materials like limestone, clinker, coal, and cement powder. The main types are:

- **Slide Gates (Flow Control Gates):** Used to regulate the rate of material flow from hoppers, silos, or feeders. They act like a valve, adjusting how much material is discharged onto conveyors or into mills.
- **Cut-Off / Shut-Off Gates (Isolation Gates):** Designed to completely stop material flow to isolate equipment for safe maintenance or to divert flow. They provide a tight, leak-proof seal and are crucial for safety and process control.
- **Divertor Gates (Diverter Valves):** Used to change the direction of material flow from one destination to another (e.g., routing cement to different silos or sending coal to an alternative line).



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7. Bag Filters & Fans: -

Cement plants generate huge amounts of dust during crushing, grinding, kiln operations, clinker cooling, and material handling. To meet emission norms, almost every section is connected to a Bag Filter + Fan system.

A Bag Filter is an air pollution control device designed to capture dust and particulate matter from industrial exhaust gases. It is widely used in cement plants, steel industries, power plants, chemical factories, and other dust-generating units.

- **Pulse Jet Bag Filter**
- **Reverse Air (Blowback) Bag Filter**
- **Mechanical Shaker Bag Filter**
- **High-Temperature Bag Filter**
- **Multi-Chamber Bag Filter**
- **Kiln Baghouse**
- **Raw Mill Baghouse**
- **Clinker Cooler Baghouse**

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8. Dampers: -

Dampers play a critical role in cement plant operations by controlling airflow, regulating temperature, managing gas flow, and providing isolation for maintenance and safety purposes. These devices are essential components in the complex thermal and ventilation systems throughout cement manufacturing facilities.

- **Butterfly Damper**
- **Guillotine Damper**
- **Louver/Multi-Louver Damper**
- **Ceramic/Refractory Lined Damper**
- **Bypass Damper**
- **Baghouse Inlet & Outlet Damper**

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9. Refractory & Ceramic Lining: -

Refractory and ceramic linings in cement plants are critical components primarily used to protect equipment from extreme heat, abrasion, and chemical attack during the cement manufacturing process.

Refractory lining consists of specialized heat-resistant materials, typically bricks or castable, that line the interior of high-temperature equipment such as rotary kilns and preheaters.

Ceramic linings, especially wear-resistant ones made from alumina ceramics, are often applied to equipment parts exposed to intense abrasion and chemical corrosion, such as powder selectors, conveying chutes, and transport equipment.

- **High Alumina Bricks**
- **Fire Clay Bricks**
- **Magnesite Bricks**
- **Alkaline Bricks**
- **Silica Bricks**
- **Magnesia-Chrome Bricks**
- **Zirconia Bricks**
- **Castable**
- **Alumina Ceramics**
- **Zirconia Ceramics**
- **Silica Based Ceramics**
- **Spinel-Based Ceramics**