## TECHNICAL SPECIFICATIONS

### Roller Screens

#### Description

**Application:** Construction

**Usage:** Suitable for separating coarse wet and sticky raw materials.

**Roller screens:** Consist of a rigid frame on which a series of rectangular opening in the roller screen at several places. Over 60 mm. The roller screens can be placed horizontally or at any angle.

**Roller discs:** Elliptical in shape and arranged at a pre-determined distance.

**Spherical roller bearings:** Across the width of main frame. These assembly are integral with the frame.

**Intermediate drive:** Transmitting device resulting in less space utilisation and reducing the no-load power loss.

### Double Roll Crushers

#### Construction

**Frame:** Steel-plate frame is fabricated by welding sheets of rolled steel. It is a hexagonal outer shape rigidly mounted on an intermediate plate assembly.

**Roll tyres:** Smooth type, corrugated type or toothed type, depending on the crushing duty.

**Seals and packings:** For preventing leakage of oil and dirt from the bearings.

**Belt drives:** Independent belt drives from two motors, one motor for each roll. This reduces the no-load power loss.

#### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Dia. (D) x L (in MM)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>750 x 750</td>
<td>For crushing ore in coal-fuel power plants.</td>
</tr>
<tr>
<td>A2</td>
<td>1200 x 1200</td>
<td>For crushing coal and waste in sorting plants of mines.</td>
</tr>
<tr>
<td>A3</td>
<td>1500 x 1500</td>
<td>For crushing lime, coal, coke, rock salt, etc. in chemical plants.</td>
</tr>
</tbody>
</table>

### Applications

#### (for crushing ore)

1. **Chemical Plants**
2. **Coal-Fuel Power Plants**
3. **Sorting Plants of Mines**

#### (for crushing coal and waste)

1. **Coal Mines**

#### (for crushing lime, coal, coke, rock salt, etc.)

1. **Chemical Plants**
2. **Coal-Mine Power Plants**

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**Usage:** Suitable for almost any material and for crushing up to 0.5 mm.

**Features:***

- Higher capacity up to 1500 TPH running at low power compared to conventional screens.
- Less space required.
- Higher screen efficiency.
- Non-clogging, smooth, non-vibrating and low noise while running.
- Length and width of roller screens can be adjusted to suit customers’ requirements.
**TECHNICAL SPECIFICATIONS**

**Non clogging, smooth, non-vibrating and low noise while running**

**Higher screen efficiency**

**Higher capacity up to 1500 TPH running at low power compared to conventional screens**

**Description**

Roller screens are most suitable for separating coarse, wet and sticky materials. Roller screens are useful for separation of undersized material ranging from (-) 20 mm to (-) 60 mm. The roller screens can be placed horizontally or at an angle of maximum 10 degrees.

**Construction**

The roller screens consist of a rigid frame on which a series of spherical roller bearings across the width of main frame. These roller discs are elliptical in shape and arranged at a predetermined distance in such a way that they form a square or rectangular pattern. The roll shafts which permits easy replacement of roller discs ensures clog free screening.

**Roller discs**

The roller discs are elliptical in shape and arranged at a predetermined distance in such a way that they form a square or rectangular pattern. The roll shafts which permits easy replacement of roller discs ensures clog free screening.

**Drive**

- The standard Double roll crusher has independent belt drives from two motors, one motor for each roll. This arrangement eliminates the need for an intermediate drive transmitting device resulting in less space utilization and reducing the no-load power loss.

**Application**

TRF Roller screens are most suitable for separating coarse, wet and sticky raw material. Roller screens are used in soft coal, non-ferrous metals and other similar wet and sticky materials. Roller screens are useful for separation of undersized material ranging from (-) 20 mm to (-) 60 mm. The roller screens can be placed horizontally or at an angle of maximum 10 degrees.