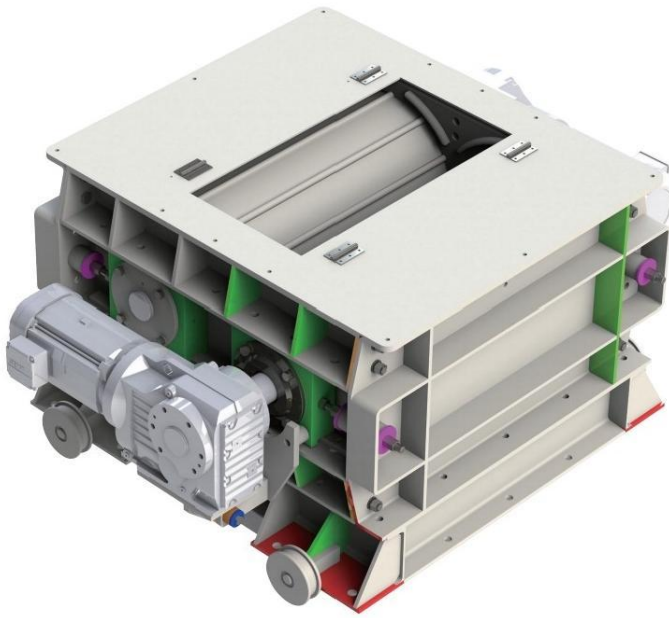


Crusher



What it for

The crusher is suitable for medium and fine crushing of cement, glass, building materials, refractory materials, metallurgy, mining, chemical industry, coal and other brittle ores with a compressive strength of no more than 700kg/cm² with medium hardness. By adjusting the gap between the two rollers, the output particle size is 10-40mm.

Structures and Features

Main Components:

- Rollers
- Roller support bearings
- Clamping and adjustment devices
- Driving mechanisms

Roller Configuration:

- Rollers are mounted on two rotating shafts using keys.
- Each shaft is supported by two sets of bearings.
- The entire assembly is mounted on a base frame.

Driving Mechanism:

Two types of drive:

- Belt drive
- Hollow shaft reducer direct connection
- Enables counter-rotating motion of the crushing rollers.

Active and Driven Rollers:

Active roller:

- Fixed on the base frame using bolts.

Driven roller:

- Equipped with a safety spring and a movable bearing.
- Allows horizontal movement of the roller shaft to:
- Adjust roller gap.
- Prevent damage when metal debris enters the roller area.

Operational Process:

- Material enters through the feed port.
- Crushed between the rotating rollers.
- Crushed product is discharged from the bottom of the base frame.

Products Parameters

Roller Diameter	460mm	Capability	10-22t/h
Roller Length	720mm	Number of Rollers	2
Maximum Feed Size	≤100mm	Roller Speed	120r/min
Discharge Size	10-40mm	Total Weight	2850t
Motor Power	7.5kW*2	Roller Gear Ring Material	Wear-resistant cladding

Installation

Installation Requirements:

- **Foundation:**
 - Machine must be installed on a cement foundation of sufficient strength.
 - Foundation surface must be level.
 - A discharge space should be reserved in the center of the foundation.
 - Foundation design should consider local geological conditions and plant structural requirements.
- **Pre-Installation Checks:**
 - Inspect all equipment components to ensure they are complete and undamaged.
 - Proceed with installation only after confirming all parts are intact.

Roller and Drive Installation:

- Install active and driven rollers based on the assembly drawings.
- Ensure correct leveling before securing the components.
- Adjust the transmission belt to the proper tightness.
- Fill each lubricating part with clean lubricating oil.

Final Assembly Checks:

- Inspect all fastening parts, ensuring no bolts are loose.
- Reconfirm that the reducer and all lubrication points are in a proper lubrication state.