

[Sizers. HCS]

HAZEMAG

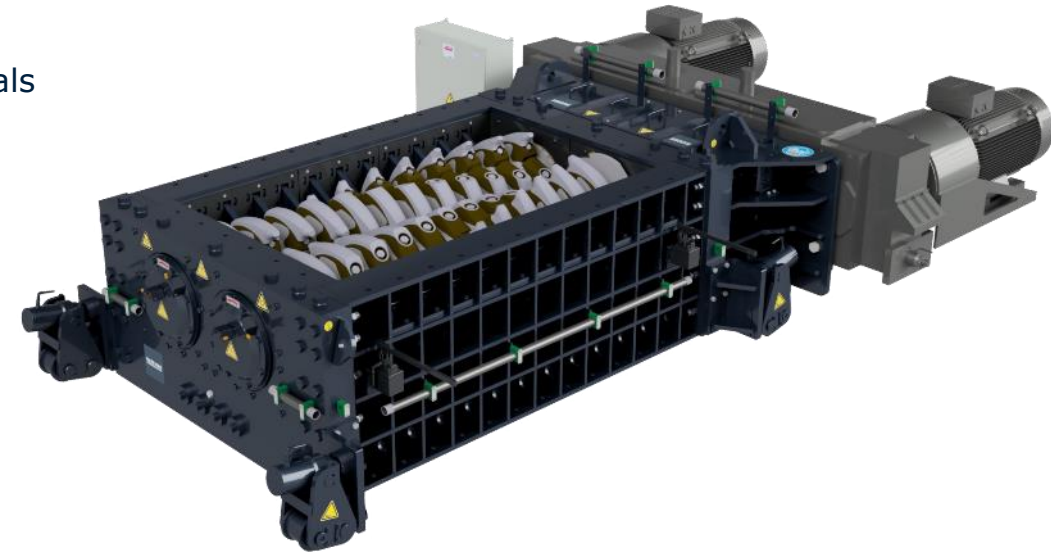
**Experience.
Innovation.
Results.**

Crushing | Screening | Feeding

Center Sizer

Smooth crushing of soft to medium-hard material with a low percentage of fines

- Is used as a primary or secondary crusher for soft to medium-hard raw materials
- Also optimal in the comminution of sticky materials with high moisture content
- The comminution of the feed material is realized by compression and shearing induced by two fixed crushing rolls at low speed with high torque
- A high degree of safety and minimum maintenance requirement



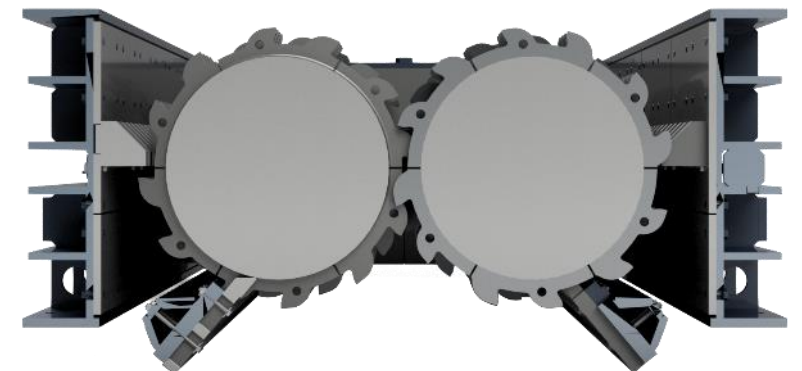
Application

- Center Sizers are typically used in applications in which fines need to be limited
- They are often also associated with the need to deal with difficult materials such as clay
- They are also often used in applications where building height is a concern



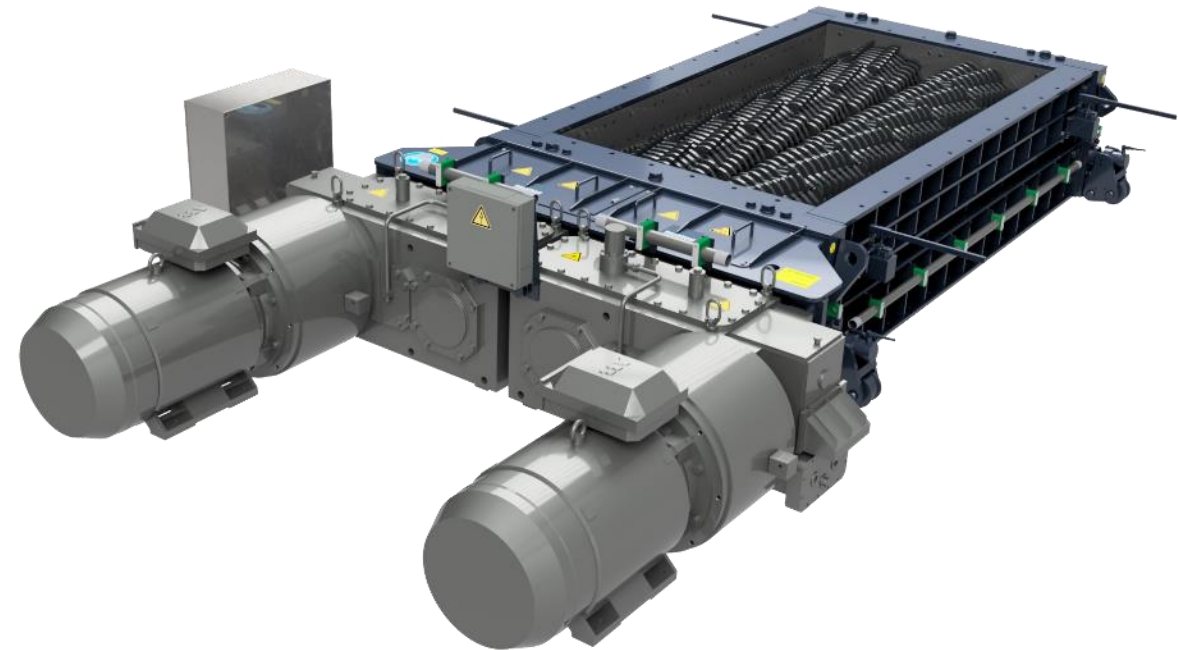
Primary vs. Secondary

- Primary applications:
 - Heavy duty crushing caps with special helical arrangement
 - Patented form-fit crushing rings
 - Adjustable gap setting between the crushing roll and breaker bar
 - Exchangeable wear caps and breaker bar
 - Easy, safe and quick exchange of the breaker bar
- Secondary applications:
 - Exchangeable crushing segments
 - True-fit / dovetail segment securing system
 - Wear resistant crushing segments
 - Product size variation by adjusting the shaft distance
 - High variety of scraper options



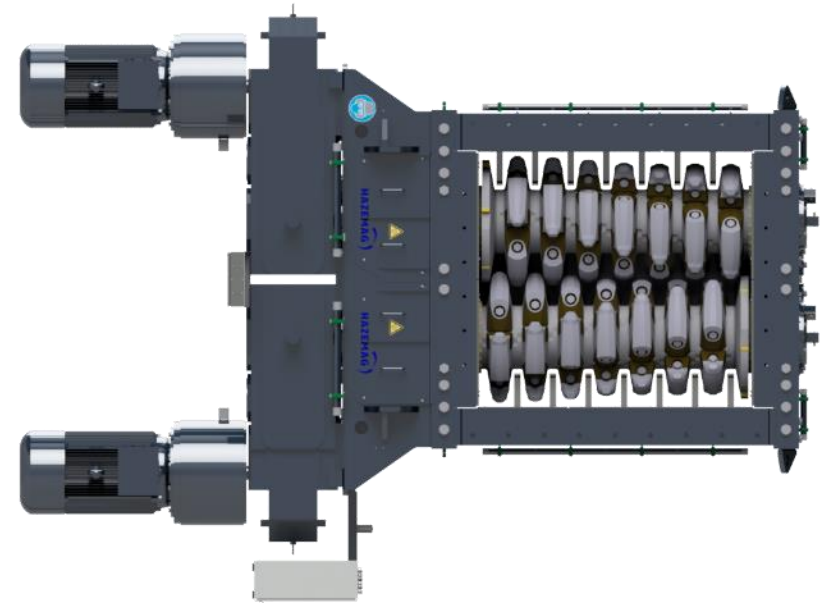
Operation Method

- Two toothed rolls are running towards each other
- Based on a continuous generation of pressure between counter-rotating rolls
- Deep immersing between the rolls due to the small number of high teeth
- Punctual force acting on material
- Both crushing rolls are turning at low speed with high torque
- Result: Minimization of fines



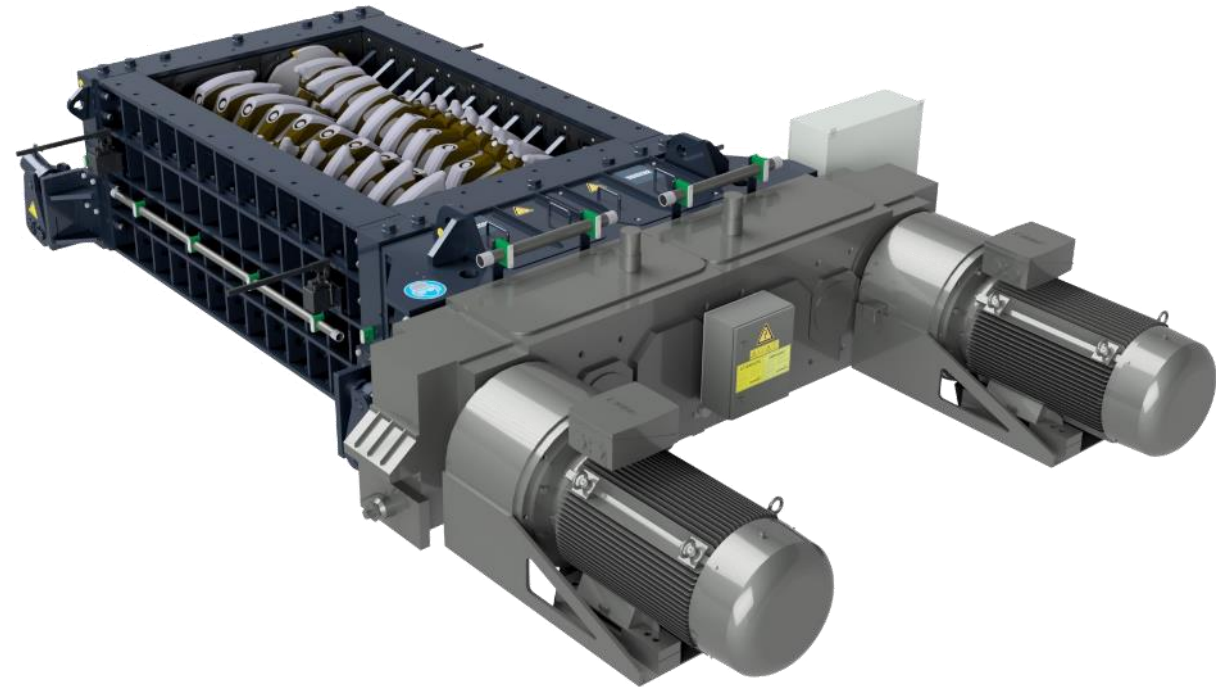
Equipment

- Housing
 - Solid, very heavy duty front wall to absorb the stress
 - A very rugged, welded steel side wall construction fitted with wear liners and exchangeable scrapers
 - Internal wall with wear plates, protection for bearings and gap-setting components breaker bar
- Drive
 - The drive system consist of motor, fluid coupling, gear box and mechanical gear coupling (placed between gear box and crushing roll)
 - The advantage of the mechanical gear coupling is realized during a crushing roll exchange



Equipment

- Track Roll Lifting Device
 - A system allowing for easy retraction of the sizer into maintenance position; thus, permitting full access to the sizer and its internal parts
- Roll Locking Device
 - With safety in mind all HAZEMAG sizer rolls can be fixed in position for safe maintenance
- Bearing System
 - Grease filled spherical roller bearing with axial fixation
 - Double sealing: labyrinth and rotary shaft sealing
 - Temperature monitoring



Center Sizer Primary

- Crushing rings with screwed, hard faced crushing caps mounted on a solid shaft
- Standard crushing caps
 - Hard faced crushing caps
 - Four caps at circumference
- Heavy-duty crushing caps
 - Hard faced crushing caps
 - Three caps at circumference
 - Wear plates at the flanks
- Breaker bar with screwed wear caps
 - Caps of wear resistance steel





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