

[Sizers. HCS]

HAZEMAG

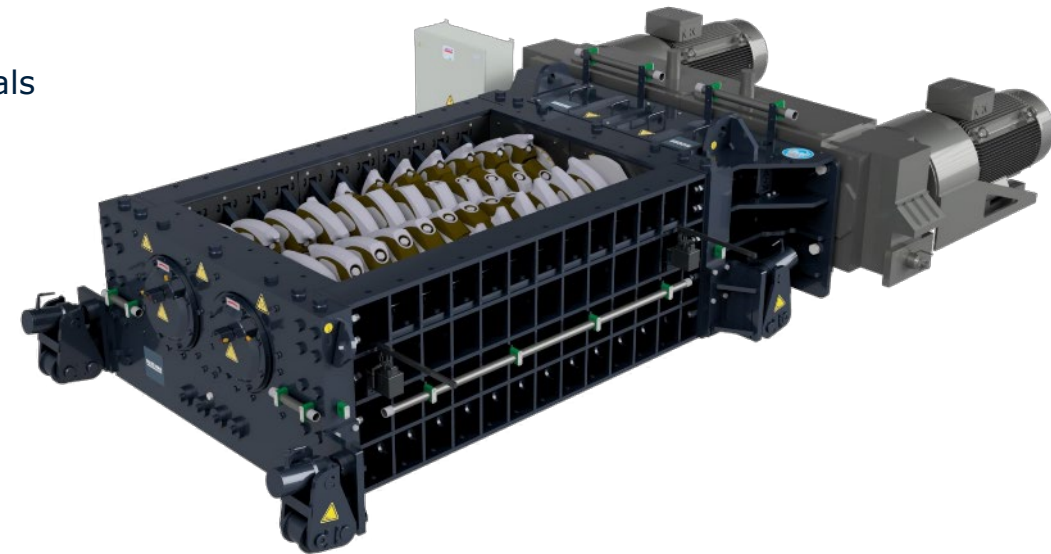
**Experience.
Innovation.
Results.**

Crushing | Screening | Feeding

Center Sizer

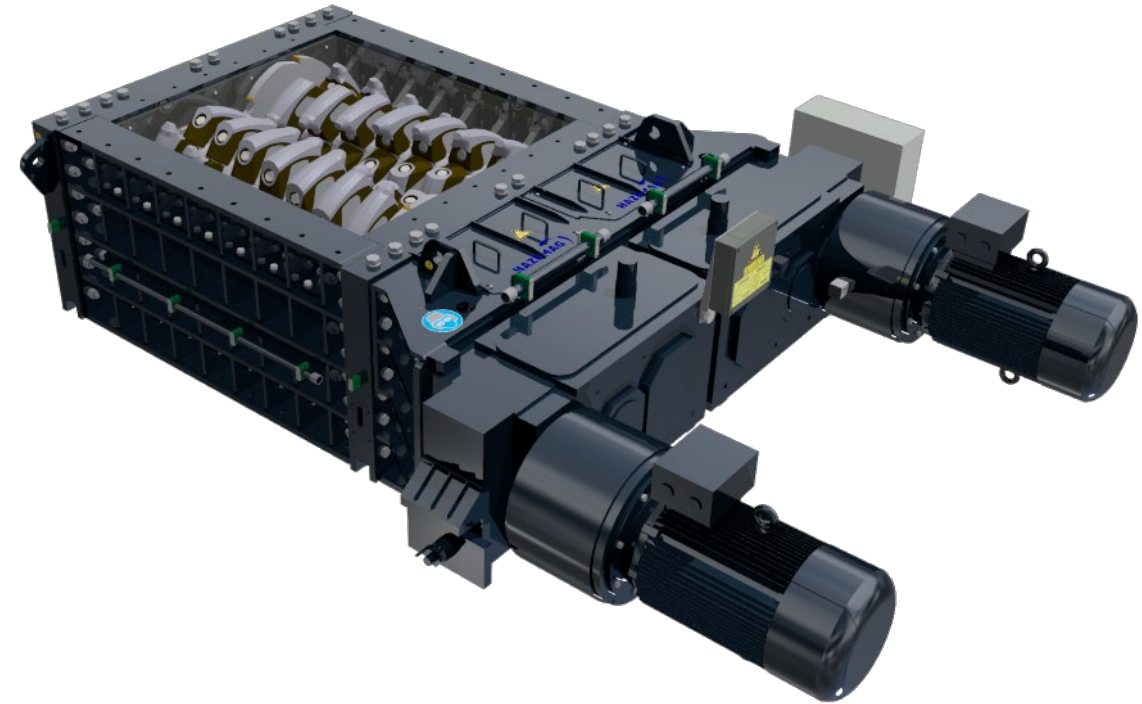
Smooth crushing of soft to medium-hard material with a low percentage of fines

- 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



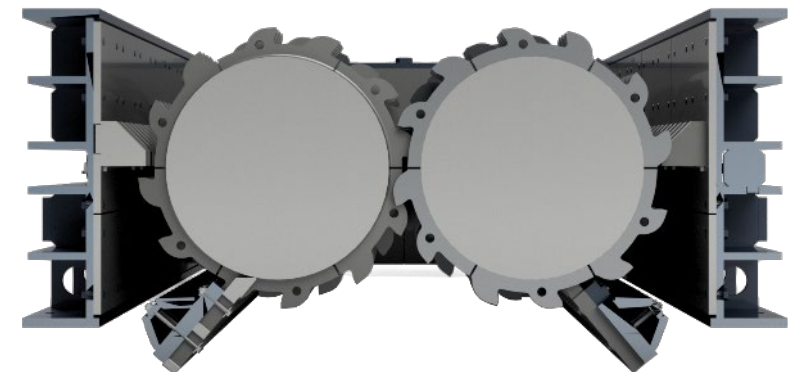
Application

- 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



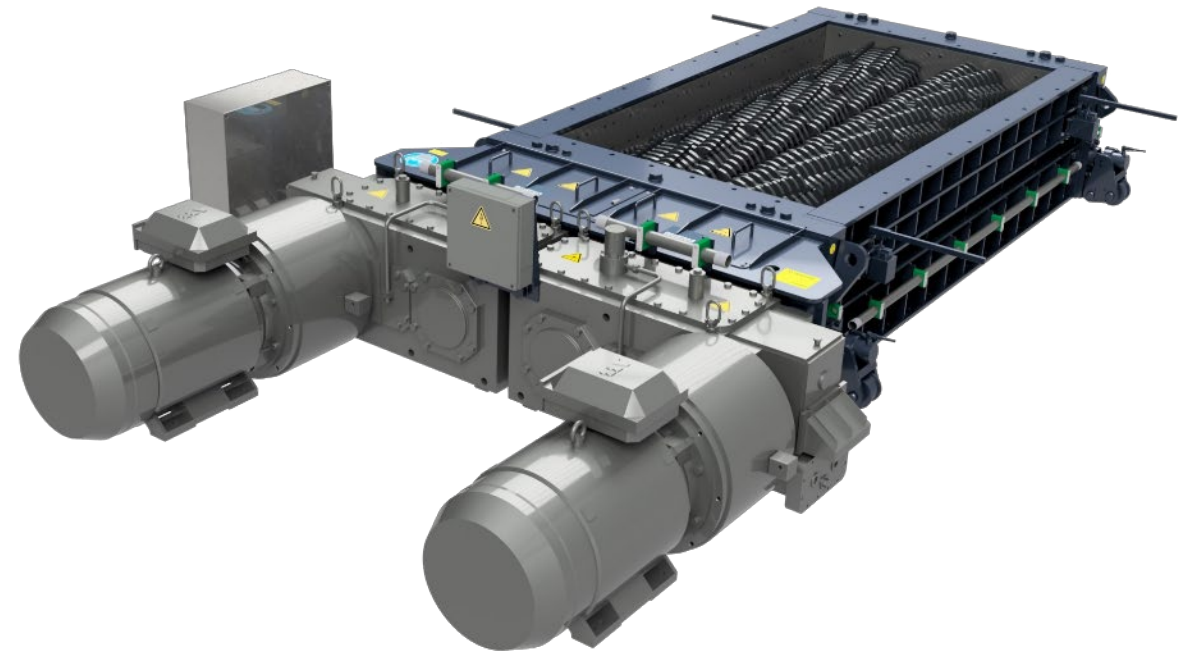
Primary vs. Secondary

- 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



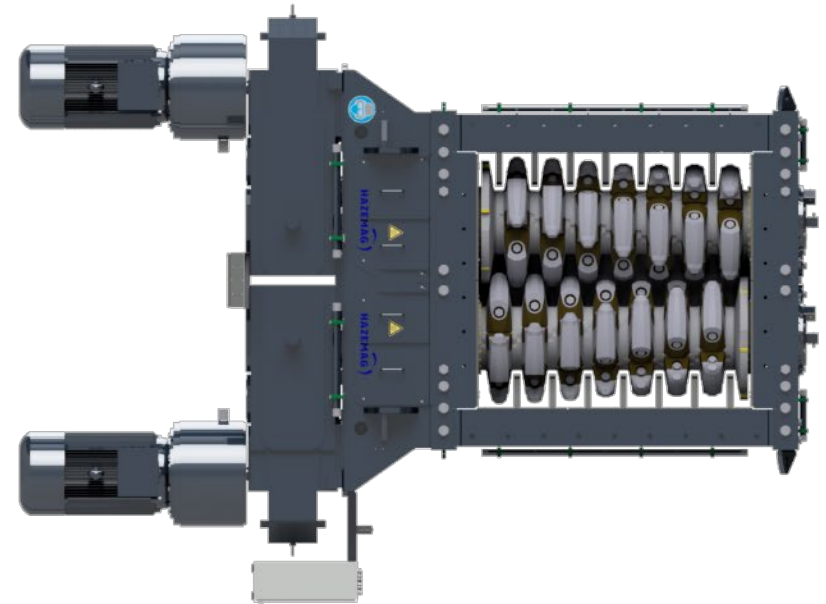
Operation Method

- 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



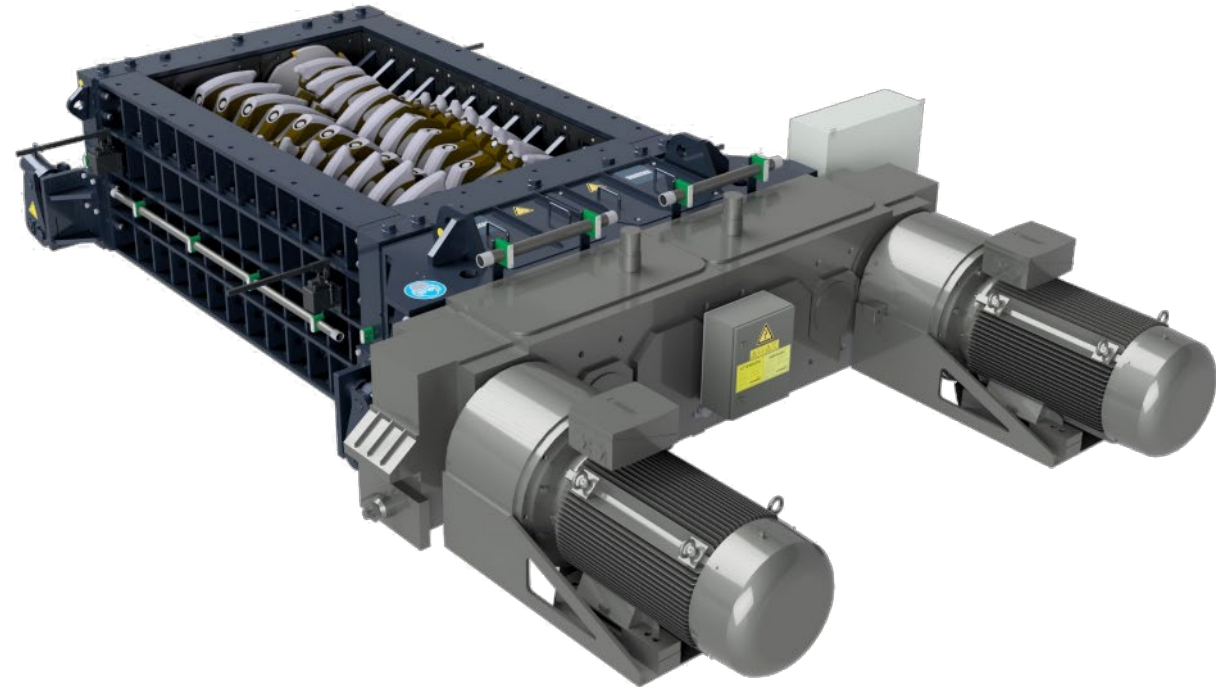
Equipment

- 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



Primary Product Description

Type	Maximum Capacity [t/h]	Inlet Size [mm]	Maximum Feed Size [mm]	Center Distance [mm]	Roll Length [mm]	Weight [kg]
HCS 0610	650	1.550 x 1.005	1.000	680	970	33.050
HCS 0616	1.050	1.550 x 1.650	1.000	680	1.615	36.850
HCS 0620	1.350	1.550 x 2.080	1.000	680	2.045	39.350
HCS 0625	1.650	1.550 x 2.510	1.000	680	2.475	41.900
HCS 0816	1.350	1.860 x 1.730	1.200	850	1.690	45.950
HCS 0820	1.600	1.860 x 1.990	1.200	850	1.950	48.150
HCS 0825	2.050	1.860 x 2.510	1.200	850	2.470	52.550
HCS 0830	2.500	1.860 x 3.030	1.200	850	2.990	57.000
HCS 1020	2.100	2.300 x 2.020	1.500	1.050	1.985	64.500
HCS 1025	2.700	2.300 x 2.630	1.500	1.050	2.595	72.000
HCS 1030	3.100	2.300 x 2.935	1.500	1.050	2.900	75.700
HCS 1040	4.400	2.300 x 4.155	1.500	1.050	4.120	90.650
HCS 1320	2.550	3.100 x 1.965	2.000	1.350	1.925	90.300
HCS 1330	3.900	3.100 x 3.015	2.000	1.350	2.975	110.450
HCS 1340	5.300	3.100 x 4.065	2.000	1.350	4.025	130.650

Secondary Product Description

Type	Maximum Capacity [t/h]	Inlet Size [mm]	Maximum Feed Size [mm]	Center Distance [mm]	Roll Length [mm]	Weight [kg]
HCS 0510	290	1.345 x 1.040	250	550	1.020	12.250
HCS 0516	425	1.345 x 1.550	250	550	1.530	14.500
HCS 0520	575	1.345 x 2.060	250	550	2.040	17.500
HCS 0610	400	1.620 x 1.040	350	680	1.020	17.400
HCS 0616	600	1.620 x 1.550	350	680	1.530	20.300
HCS 0620	800	1.620 x 2.060	350	680	2.040	27.800
HCS 0625	1.000	1.620 x 2.570	350	680	2.550	21.000
HCS 0630	1.200	1.620 x 3.080	350	680	3.060	34.000
HCS 0810	500	1.980 x 1.040	450	850	1.020	20.000
HCS 0816	750	1.980 x 1.550	450	850	1.530	35.000
HCS 0820	1.000	1.980 x 2.060	450	850	2.040	39.000
HCS 0825	1.250	1.980 x 2.570	450	850	2.550	44.000
HCS 0830	1.550	1.980 x 3.080	450	850	3.060	52.000
HCS 0840	2.050	1.980 x 4.100	450	850	4.080	64.000



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