

[Roll Crushers. HRC]

HAZEMAG

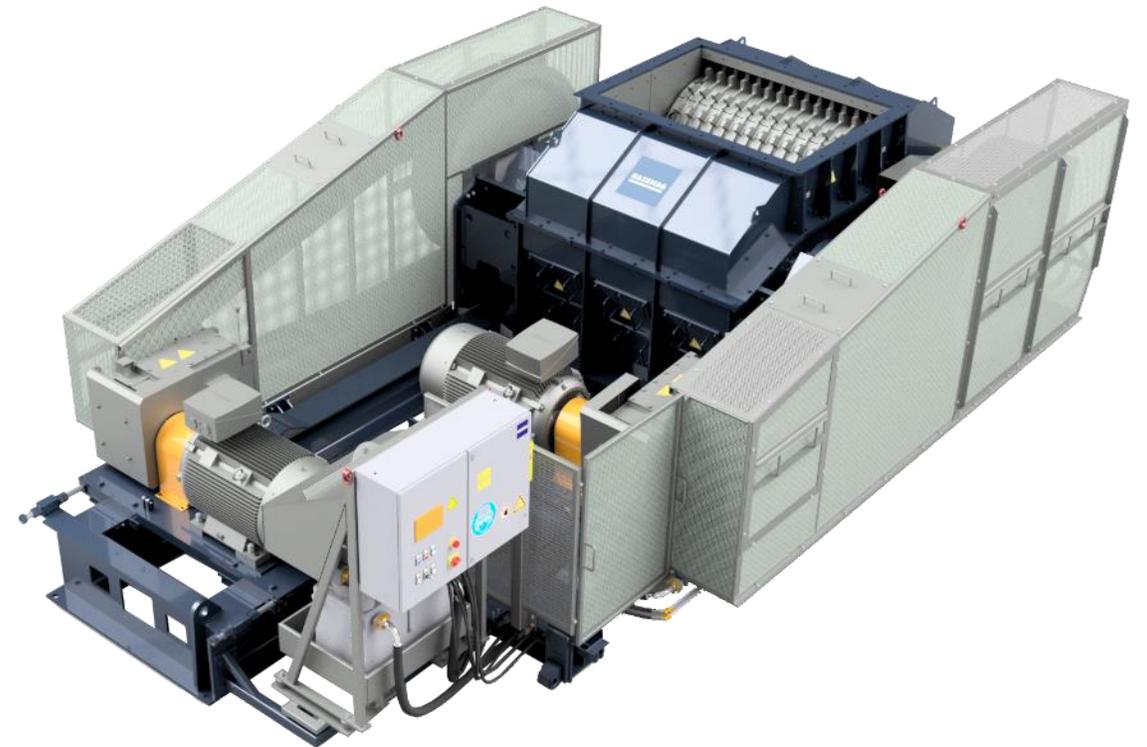
**Experience.
Innovation.
Results.**

Crushing | Screening | Feeding

Roll Crusher

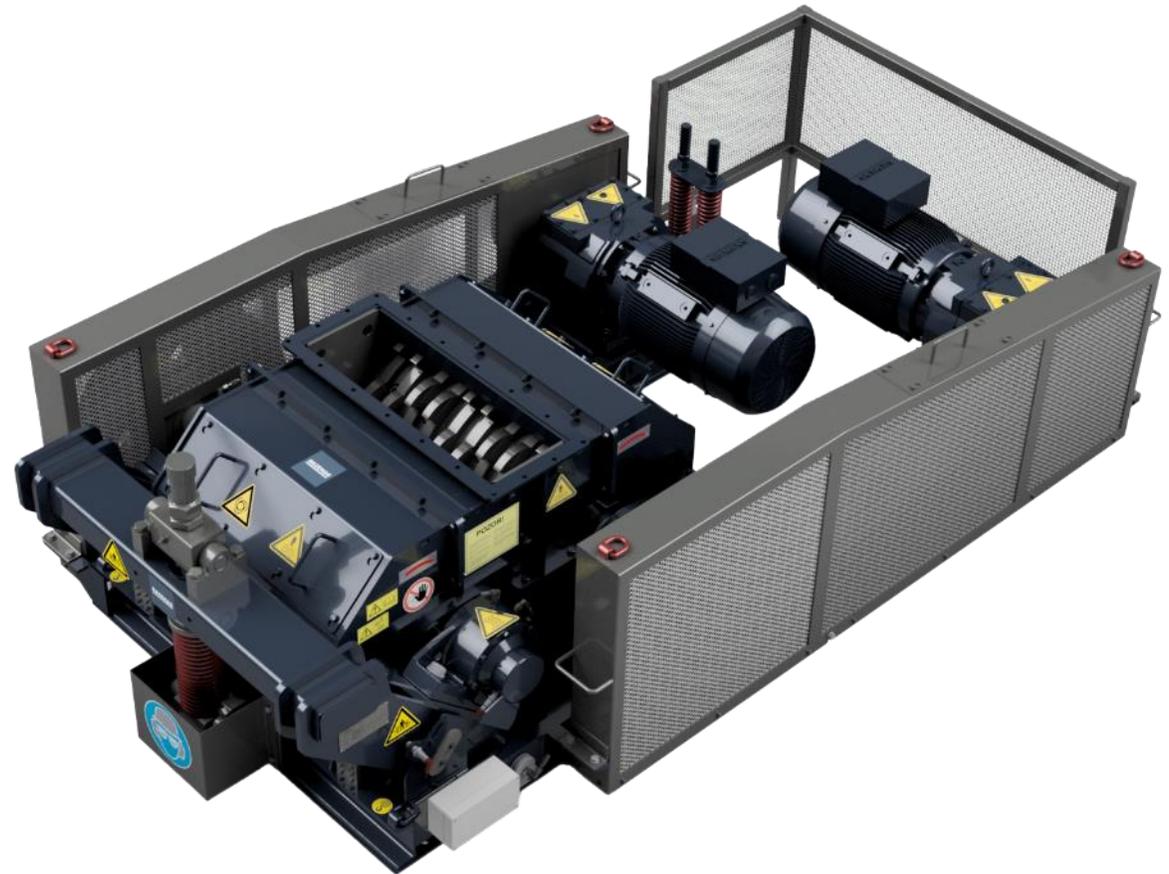
Compression crushing with a low percentage of fines

- Proved their effectiveness in the crushing of cohesive materials with a high moisture content.
- Hydraulically-controlled floating roll, which ensures the retraction in case of overload or feeding of unbreakable pieces.
- Hydraulically-controlled gap setting to guarantee the best usability of crushing segments.



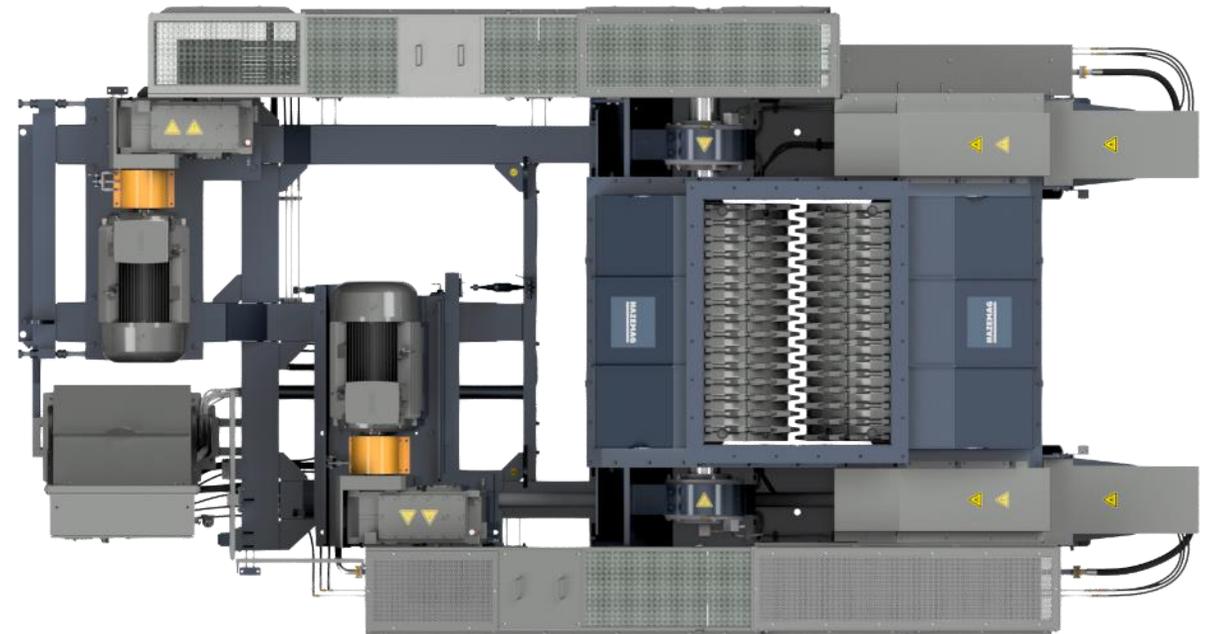
Application

- HAZEMAG Roll Crushers can process following materials:
 - Limestone
 - Clay
 - Gypsum
 - Coal
 - Coke
 - Phosphate



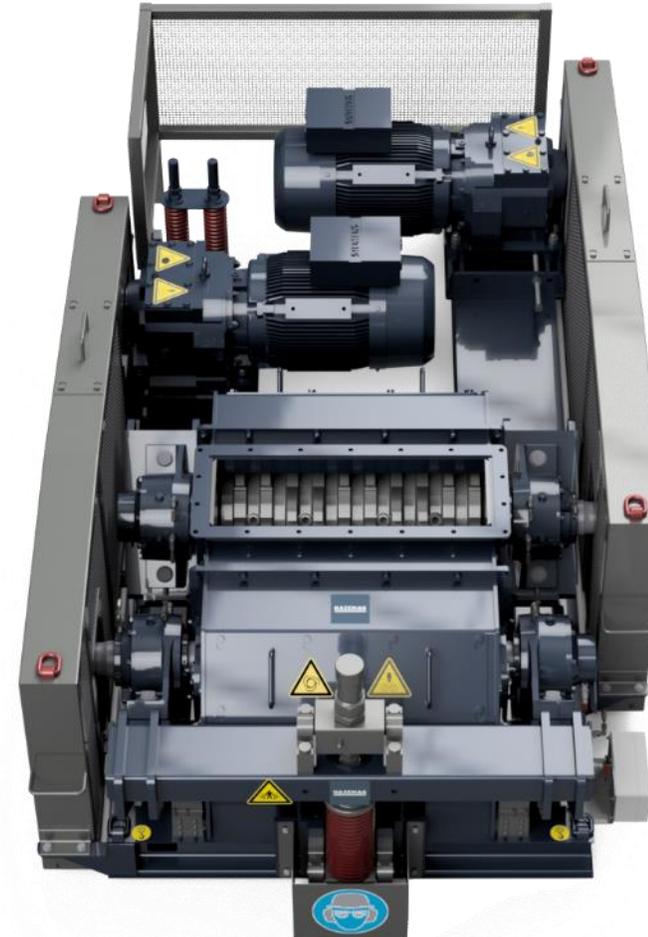
Operation Method

- Two toothed rolls running toward each other
- Feed is nipped between rolls and teeth and pulled downward through the gap
- Different kinds of forces for crushing material applies:
 - Shear the material by the teeth
 - Compressive forces between the rolls



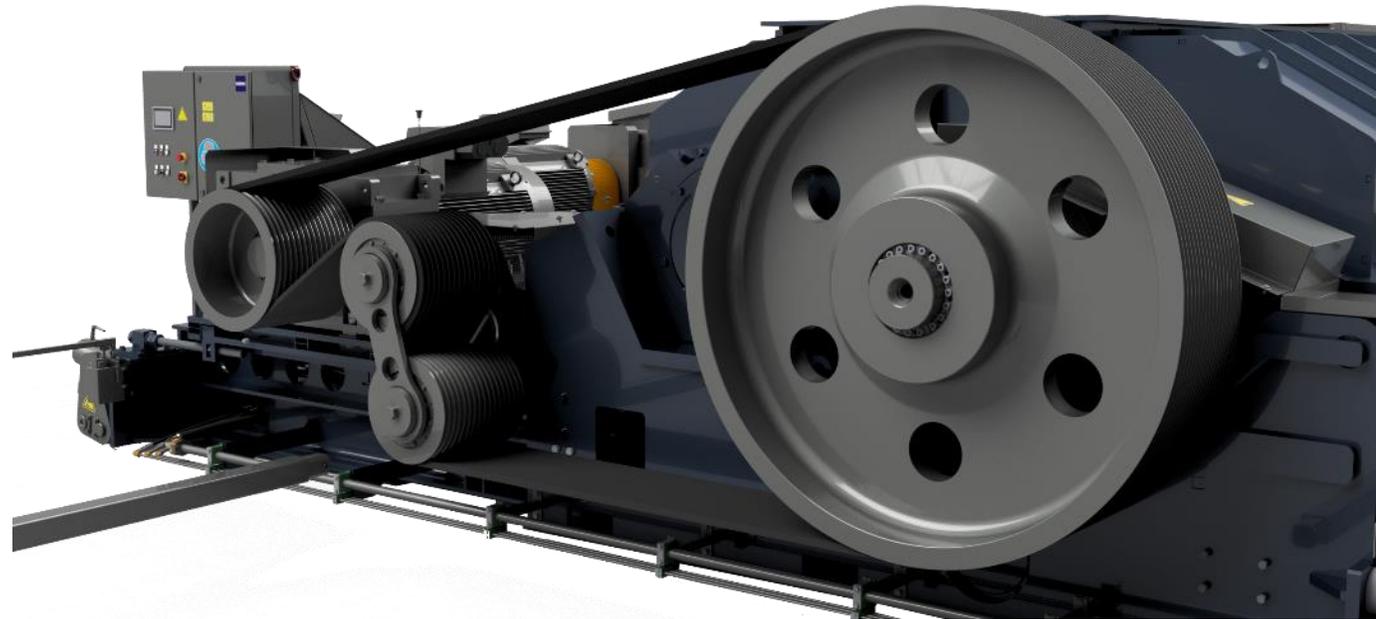
Operation Method

- High rotational energy of the crushing rolls and the drive components reduce peak loads and uniform power consumption is achieved
- Floating roll opens crushing gap, if non-breakable tramp metal enters the machine
- Floating roll is supported in pivoting rocker arms
- Rocker arms are connected with each other to guarantee parallel retraction



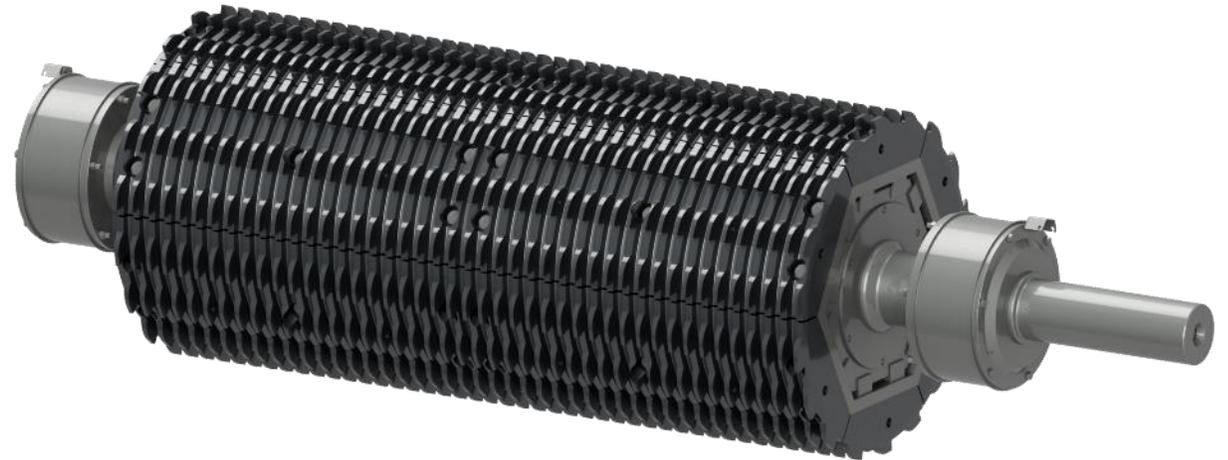
Equipment

- V-belt tensioning device
 - Constant drive belt tension during retraction movement of the floating roll and during adjusting of the gap
 - Unlike other double roll crushers, which loosen their belts upon retraction, HRC continues with operation
- Scraper system
 - Heavy duty and adjustable scraper system
 - Floating roll scraper system mounted on torsion shaft



Crushing Rolls

- Crushing rolls are made up of a roll body in polygon design equipped with exchangeable crushing segments
- Optimum tight fit (dovetail design)
- Able to stand up to high crushing forces
- Depending on the task definition, the shape of the teeth and their number are selected





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