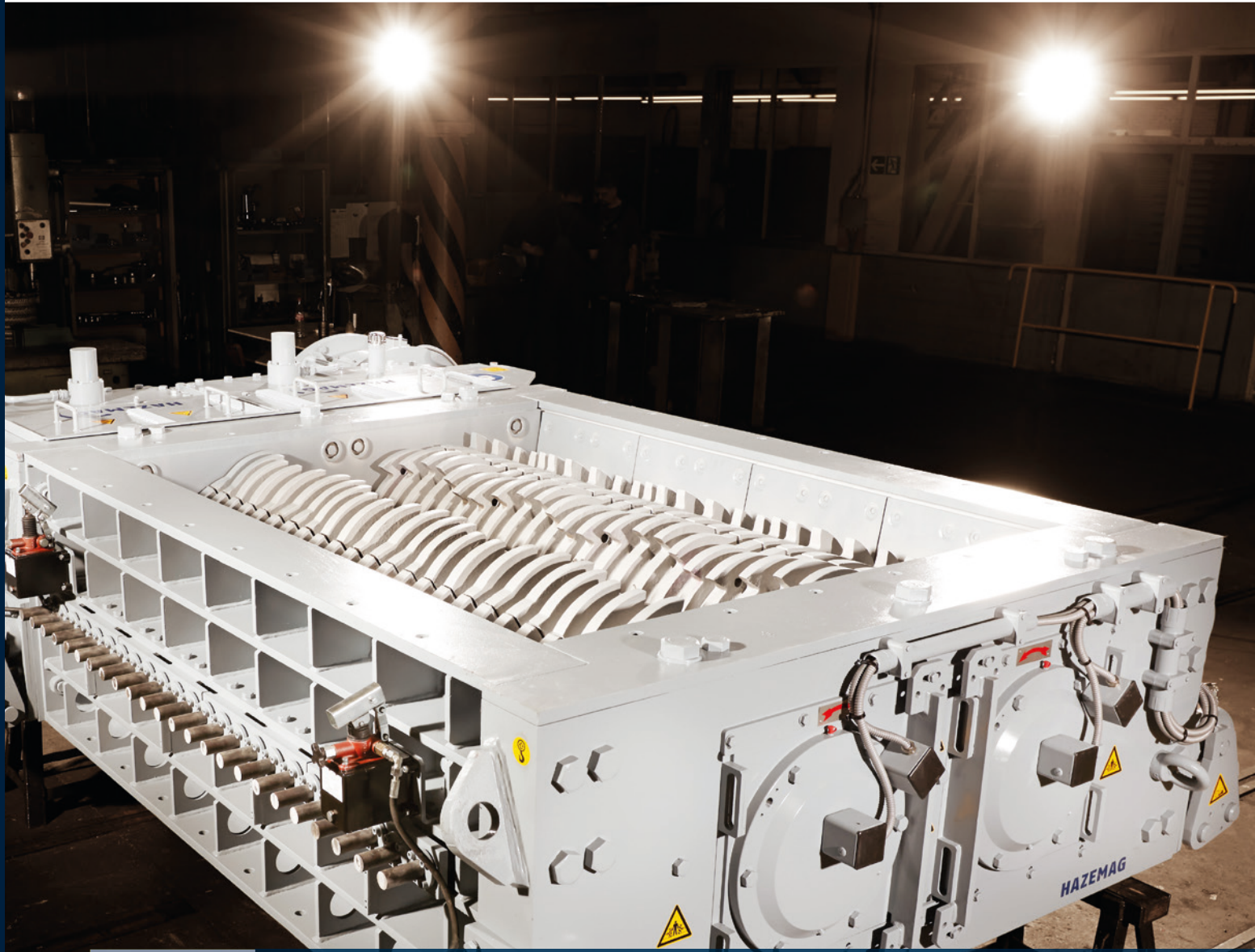



**HAZEMAG**



## HAZEMAG Central Sizer | HCS





## Energy-efficient. Continuous-flow crushing. Grainsize-selective.

For the industrial beneficiation of primary and secondary raw materials, crushing procedures for the production of certain grain sizes, forms, surfaces or for the outcrop of multi-component materials play a central role.

The utilised crusher must meet stringent requirements of today's time when processing rocks, ores and coals. Materials to be crushed become more and more difficult in terms of handling, high throughput capacities are required and the energy input is a key focus. Furthermore, crushing plants have changed to compact solutions due to investment cost. Consequently, crushers with low space requirements are having advantages, even for fully-mobile systems. Therefore the application of energy-efficient roll sizers with high throughput rates becomes more and more important from the economic and ecologic point of view.

### **The HAZEMAG Sizer meets these requirements and is characterized by the following points:**

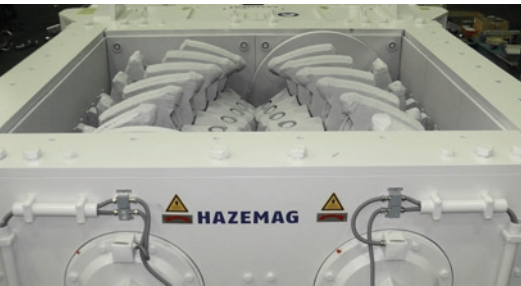
- Low specific energy demand
- High to very high throughput rate
- Intelligent design
- Simple maintenance
- High variety of crushing tools
- Cubicle product with minimal fines
- Trouble-free operation with very sticky and moist materials
- Applicable for adhesive feed material

### **Some key applications**

- Raw material preparation for quicklime production
- Ore-Preparation for roasting processes (make most use of the grain size selective crushing)
- Processing of sticky materials

The operating principle is based on a continuous generation of pressure between two counter-rotating rolls, so that crushing takes place without interruptions in contrast to the intermittent jaw crushers. Due to the small number of high teeth big lumps can immerse deep between the rolls and are crushed immediately. The force acting on material is punctual and even not plane as it is typical for jaw crushers. The result is a minimization of fine generation.

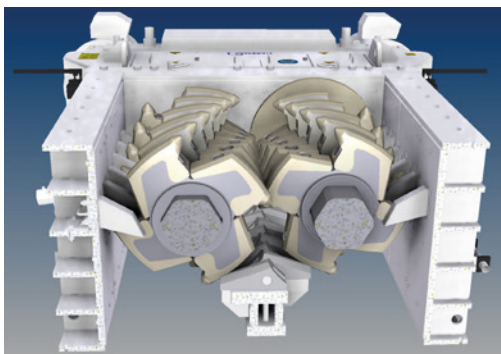
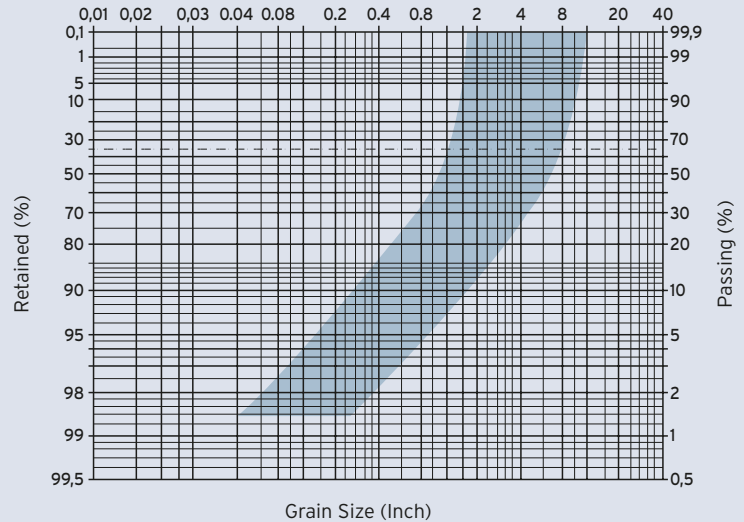
The direct drive consists of electric motor, fluid coupling and gear. The fluid coupling provides excellent protection against blows and impacts in heavy-duty use and therefore serves as overload protection. If a non-breakable tramp metal enters the machine, the fluid coupling will disconnect the drive from the crushing rolls.



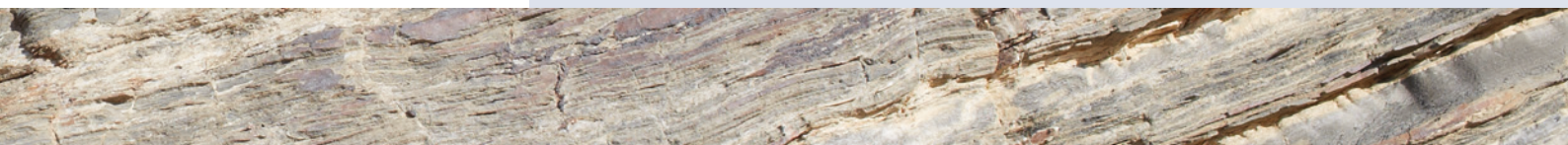
Housing and drive bracket of the HAZEMAG Sizer are very sturdy and thus suitable for heavy-duty applications. They are fitted with easy to exchange wear parts. The modular design of the housing-system allows matching specific customer requirements. For example, a track lifting device for moving the crusher from the working position into maintenance position is available.

The crushing rolls for primary and secondary crushers consist of rolls with crushing rings which are fitted with exchangeable crushing caps. The crushing rolls for secondary and tertiary crushers are respectively made up of shafts being equipped with exchangeable crushing segments. As a result of the specific geometry between roll body and crushing segments an optimum tight fit is achieved, thus being able to stand up to the high crushing forces. Depending on the respective task definition, the shape of teeth and their number are selected.

**Granulation Curve HCS**



HAZEMAG Sizer | HCS



## Sizer – HAZEMAG is the specialist

HAZEMAG HCS							
Type	Installed drive power [HP]	Length [Inch]	Roll dimensions [Inch]	Weight [lb]	Product size [Inch]	Feed size [Inch]	Feed capacity** [t/h]
HCS 0810	2 x 40 – 101	40	30 – 33	29,500 – 40,300	2 – 7	8 – 20	550
HCS 0816	2 x 75 – 200	60	30 – 33	42,500 – 53,100	2 – 7	8 – 20	850
HCS 0820	2 x 100 – 200	80	30 – 33	59,700 – 62,400	2 – 7	8 – 20	1,100
HCS 0830	2 x 100 – 300	120	30 – 33	72,300 – 80,700	2 – 7	8 – 20	1,600
HCS 1016	2 x 100 – 300	60	35 – 40	58,400 – 69,400	2 – 7	10 – 30	850
HCS 1020	2 x 100 – 350	80	35 – 40	80,200 – 91,000	2 – 12	10 – 40	1,500
HCS 1026	2 x 200 – 350	100	35 – 40	91,300 – 96,800	2 – 12	10 – 40	1,900
HCS 1030	2 x 200 – 350	120	35 – 40	115,300 – 120,800	2 – 12	10 – 40	2,300
HCS 1220	2 x 200 – 500	78	45	139,300 – 157,000	10 – 15	45	2,300
HCS 1226	2 x 200 – 500	100	45	180,800 – 189,600	10 – 15	45	2,800
HCS 1230	2 x 200 – 500	115	45	217,800 – 226,600	10 – 15	45	3,400
HCS 1520	2 x 300 – 500	75	57	216,000 – 253,500	11 – 16	60	2,600
HCS 1530	2 x 300 – 800	115	57	–	11 – 16	60	3,900
HCS 1542	2 x 300 – 800	163	57	–	11 – 16	60	5,200

\* values are variable and can be aligned to the particular requirements

\*\* based on medium hard limestone and typical feed size distribution from 0 – xmm and medium product size

### Further features of the HAZEMAG Sizer series:

- A rotary and slip monitoring of the crushing rolls
- Monitoring of bearing, gear and fluid coupling temperatures
- Track roller lifting device for displacing in maintenance positions
- a quick exchange of the crushing segments
- Adjustable scrapers
- Adjustable shaft distance

The following typical raw materials are processed with the HAZEMAG Sizer: Limestone, clay, gypsum, coal, coke, phosphate, marl, chalk, salts, quarry material, quicklime, ...