HAZEMAG

MINERALS

HAZEMAG
Primary Impactors | HPI

HAZEMAG

GROUP

Cost-effective primary crushing with patented blow bars

Application
This series of primary impact crushers is used in the cement, aggregate and recycling industries.

- for aggregate production and recycling industry, the HPI impact crusher is used in the pre-crushing role without a grinding path.
- the single rotor primary impact crusher of the HPI series is used in the cement industry with grinding path, for the production of a raw material with an ideal grain size distribution for further grinding in vertical roller mills.

Equipment
The rotor can handle feed material up to 3 m^3. The HPI crusher has two impact aprons and can additionally be equipped with a grinding path. The gap settings of the impact aprons grinding path can be varied by means of spindles or via hydraulic cylinder, thus allowing for optimum control of the end product granulometry. The grinding path restricts the amount of oversize.

Rotor
The rotor is the key component in the crushing process. Its body together with shaft and bearings forms the »heart« of the impact crusher.

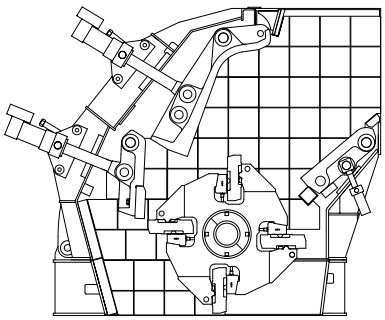
GSK-Rotor
This patent rotor is HAZEMAG's own design and is a cast and welded steel construction, with individually cast rotor discs welded to the rotor body to accommodate the proprietary blow bars as primary crushing implements. The blow bars are locked in position in the holders by means of wedges, which can be easily removed for blow bar changing.

QB-Rotor
The rotor discs are welded together with rugged holding beams to provide the backbone for the blow bars. The blow bars themselves are secured to the holding beams by means of wedges, which are easily removed for blow bar changing.

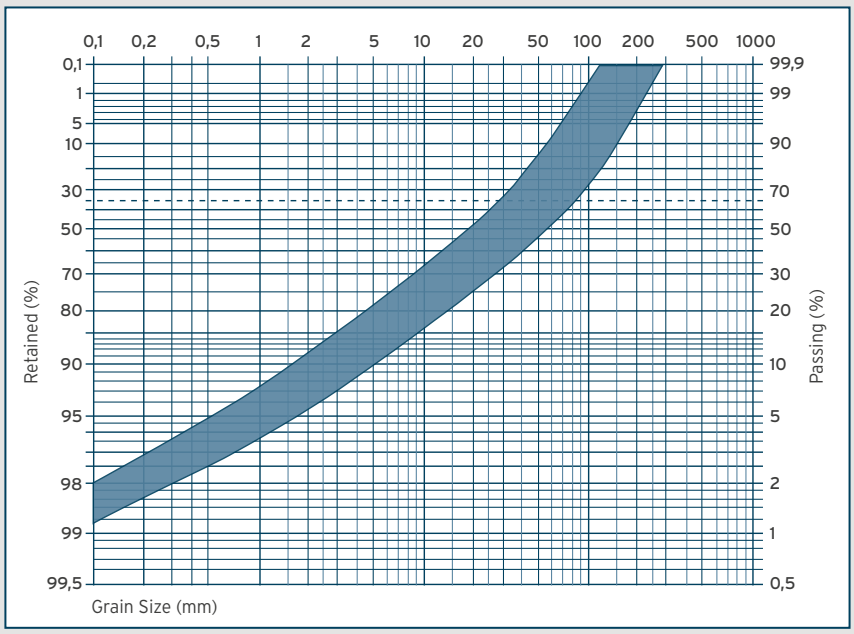
Retracting mechanism
For the protection of the rotor body and blow bars, the impact aprons retract under excessive load. Two versions are available:

- *Mechanical system*
  The impact apron is held in position by means of a thrust device with pressure springs. The spindle adjustment is assisted by auxiliary hydraulics.
- *Hydraulic system*
  The impact aprons are retained in position by hydraulic cylinder, allowing adjustment and securing at the touch of a button. The instant a pre-set limiting value is overstepped in the crushing chamber, the impact apron retracts in a controlled manner. As soon as the load value returns to normal, the impact apron resumes its pre-set position, and operation continues without interruption.

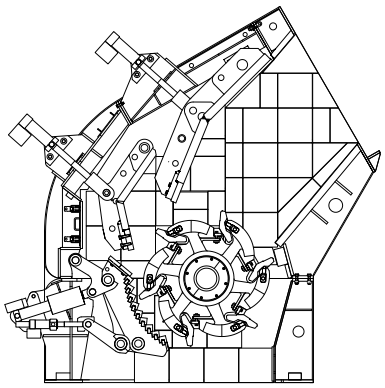
Grinding path
The HPI series may optionally be fitted with a grinding path which ensures an oversize limitation. Adjusting the grinding path is effected hydraulically. Hence the product grain size may be optimally adjusted at the HAZEMAG HPI series.



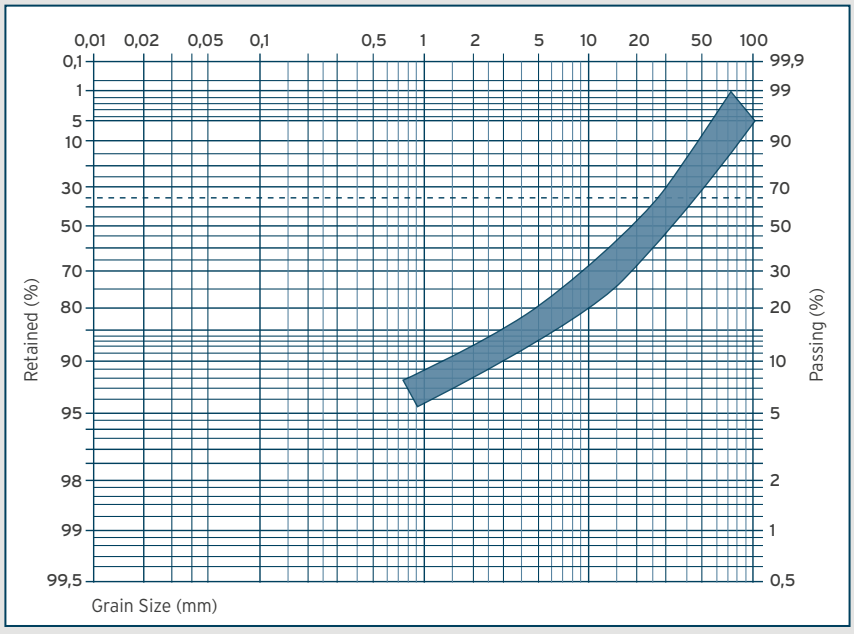
HPI **without** grinding path



Granulation Curve HPI **without** grinding path



HPI **with** retractable grinding path



Granulation Curve HPI **with** grinding path

Primary Impactors – HAZEMAG is the specialist.

Retractable grinding path

In the cement industry the grinding path is the decisive assembly group for reducing the oversize in the field of primary crushing. The grinding path of the HAZEMAG HPI series has been significantly improved:
a technically mature system of hydraulics and mechanics permits the retraction in case of an overload. This patented solution increases the operational safety and availability and potential damages due to foreign particles and resulting downtimes are reduced. With this HAZEMAG once more demonstrates its distinct market competence.

HAZtronic

With the HAZtronic system, the crusher can be controlled and adjusted from the main control panel. All the settings which determine the end product can be input and called up at the touch of a button without interrupting operation. This means that immediate reaction and adjustment to varying operating conditions can be effected at all times to ensure optimum productivity.

	Rotor Dimensions		Capacity*	Feed Lump Volume	Edge-Length of Lump	Inlet	with Grinding Path		without Grinding Path	
Type	Φ x Width [kW]	Type [mm]	95% < 150 mm [t/h]	max. [m³]	max. [mm]	Height x Width [mm]	installed Power* [kW]	Weight [kg]	installed Power* [kW]	Weight [kg]
HPI 1010	1.030 x 1.000	QB	100 - 150	0,3	800	815 x 1.020	-	-	110 - 160	1.1200
HPI 1214	1.200 x 1.340	QB	150 - 200	0,4	1.000	950 x 1.360	200 - 250	17.000	160 - 200	15.900
HPI 1414	1.340 x 1.340	QB	200 - 300	0,5	1.000	1.025 x 1.360	250 - 355	19.200	200 - 315	17.800
HPI 1615	1.640 x 1.500	QB, GSK	350 - 450	1,3	1.200	1.295 x 1.520	400 - 560	45.000	315 - 500	44.000
HPI 1618	1.640 x 1.800	QB, GSK	450 - 550	1,4	1.200	1.295 x 1.820	500 - 710	56.000	400 - 560	55.000
HPI 1622	1.640 x 2.250	QB, GSK	550 - 700	1,4	1.200	1.295 x 2.270	560 - 900	66.000	500 - 710	65.000
HPI 1822	1.800 x 2.250	GSK	850 - 1.000	2	1.500	1.600 x 2.270	900 - 1.200	78.000	710 - 1.000	76.000
HPI 2022	2.000 x 2.250	GSK	1.150 - 1.250	2,2	1.600	1.830 x 2.270	1.250 - 1.500	96.000	1.100 - 1.250	94.500
HPI 2025	2.000 x 2.500	GSK	1.300 - 1.400	2,3	1.600	1.830 x 2.520	1.450 - 1.700	104.000	1.250 - 1.400	102.500
HPI 2030	2.000 x 3.000	GSK	1.750 - 1.850	2,4	1.600	1.830 x 3.020	2.000 - 2.250	120.000	1.700 - 1.900	119.000
HPI 2225	2.200 x 2.500	GSK	1.400 - 1.500	2,4	1.600	1.980 x 2.520	1.600 - 1.800	118.000	1.300 - 1.500	117.000
HPI 2230	2.200 x 3.000	GSK	1.850 - 1.950	2,5	1.700	1.980 x 3.020	2.000 - 2.400	130.000	1.750 - 2.000	129.000
HPI 2530	2.500 x 3.000	GSK	2.150 - 2.250	3	1.900	2.130 x 3.020	2.400 - 2.700	164.000	1.900 - 2.250	162.500

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

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