[Impact Crusher. HPI]

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Experience. Innovation. Results.

Crushing | Screening | Feeding

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Primary Impact Crusher

Crushing of medium-hard rock and building rubble recycling

- Very high crushing degree of large rocks at high throughput rates
- Choice of hydraulically-actuated impact aprons or HAZtronic electronic control system

Application

- Cement & aggregate industry
- In the aggregate and recycling industry, the HAZEMAG Impact Crusher is used in the pre-crushing role without a grinding path
- In the cement industry the HPI is also used with grinding path, for the production of raw material with an ideal grain size distribution for further grinding in vertical roller mills
- Feed material up to $3m^3$

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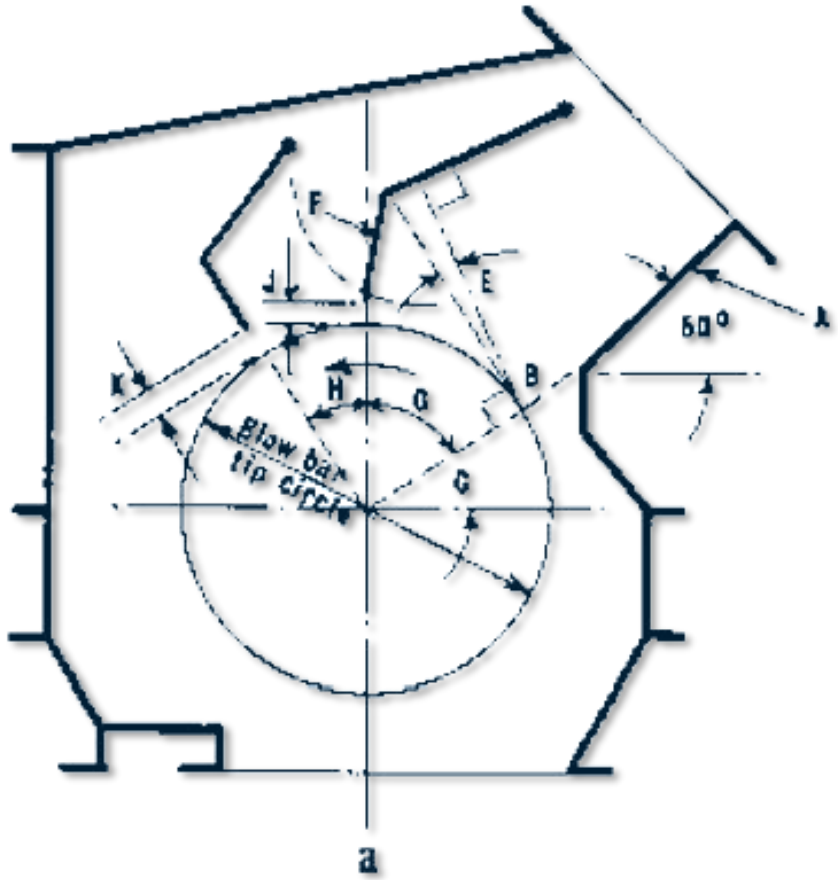
Operation Method

- The “Andreas System” was designed with two gravity hung impact aprons. Today hydraulic or spring supported aprons are commonly used
- This design created two impact chambers assuring high ratios of reduction
- Reduction of the feed materials was achieved by true impact



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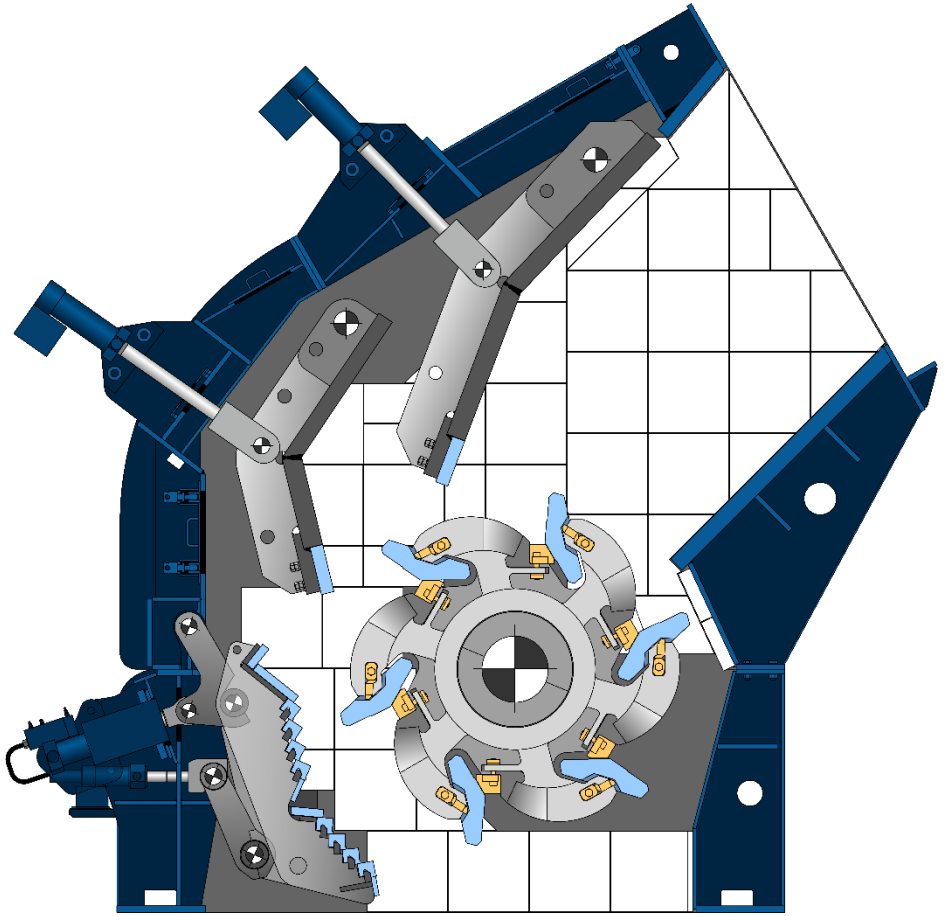
Equipment

- Two impact aprons
- Optional grinding path (Grinding path restricts the amount of oversize)
- Gap setting of impact aprons and grinding path can be varied by means of spindles or via hydraulic cylinder



GSK-Rotor

- Patented HAZEMAG rotor design
- Cast and welded steel construction
- With individual cast rotor discs welded to the rotor body to accommodate the proprietary blow bars as primary crushing implements
- Blow bars are locked in position in the holders by means of wedges
- Wedges can be easily removed for blow bar changing

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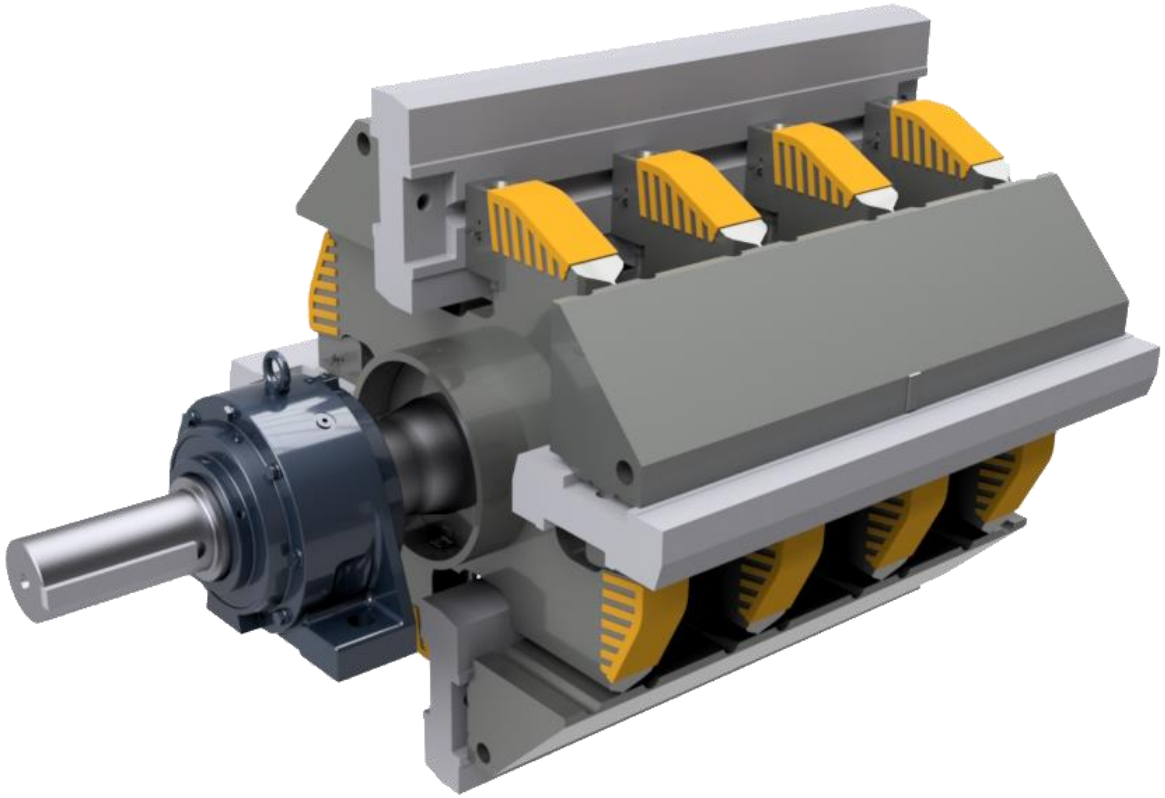
QB-Rotor

- Rotor discs are welded together with rugged holding beams to provide the backbone for the blow bars
- Blow bars are secured to holding beams by means of wedges
- Wedges can be removed easily for blow bar changing



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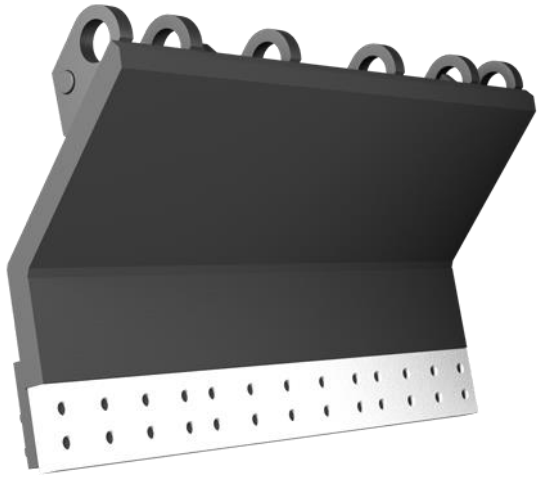
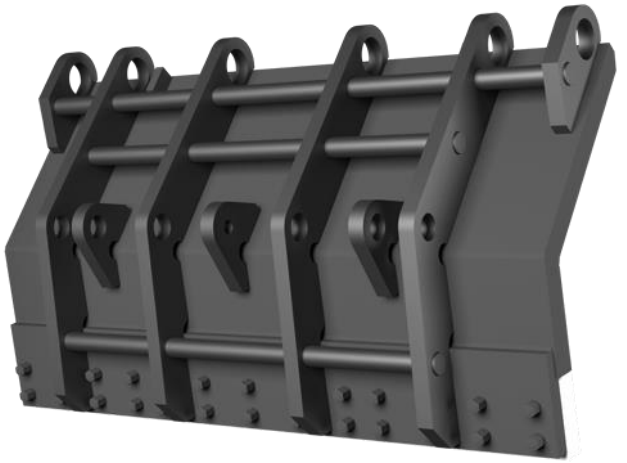
Retracting Mechanism

- Ensures protection of rotor body and blow bars
- Mechanical system
  - Impact apron is held in position by means of a thrust device with pressure springs
  - Spindle adjustment by auxiliary hydraulics





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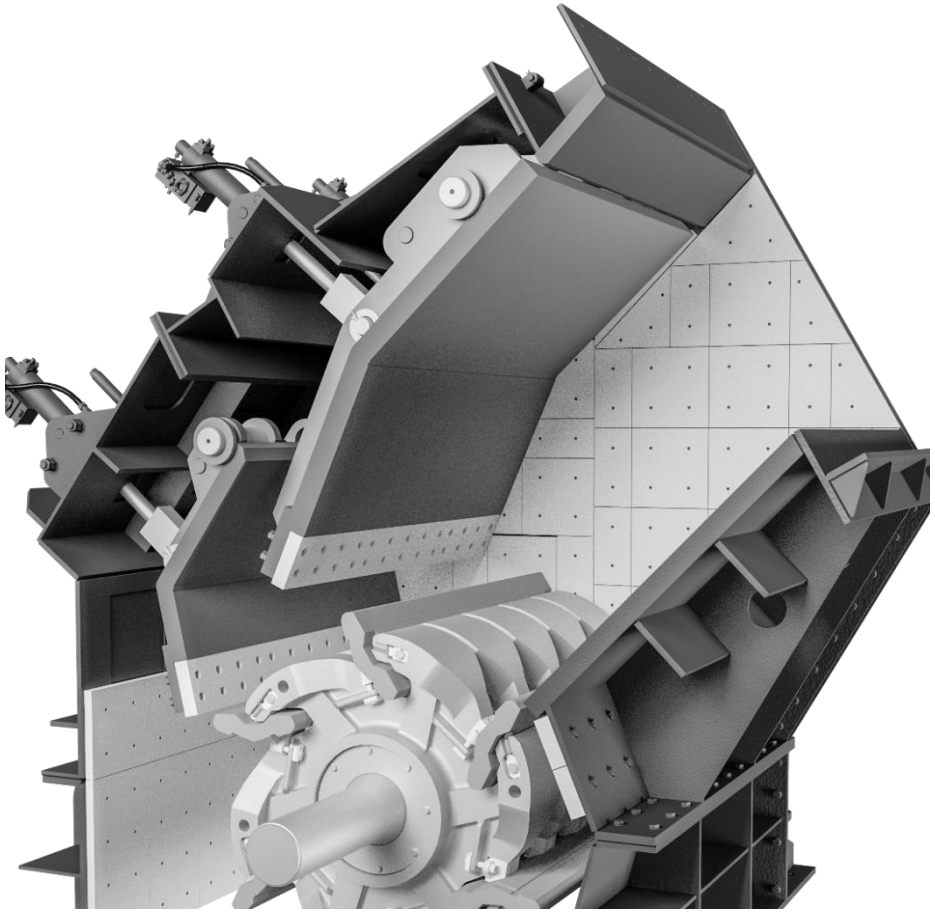
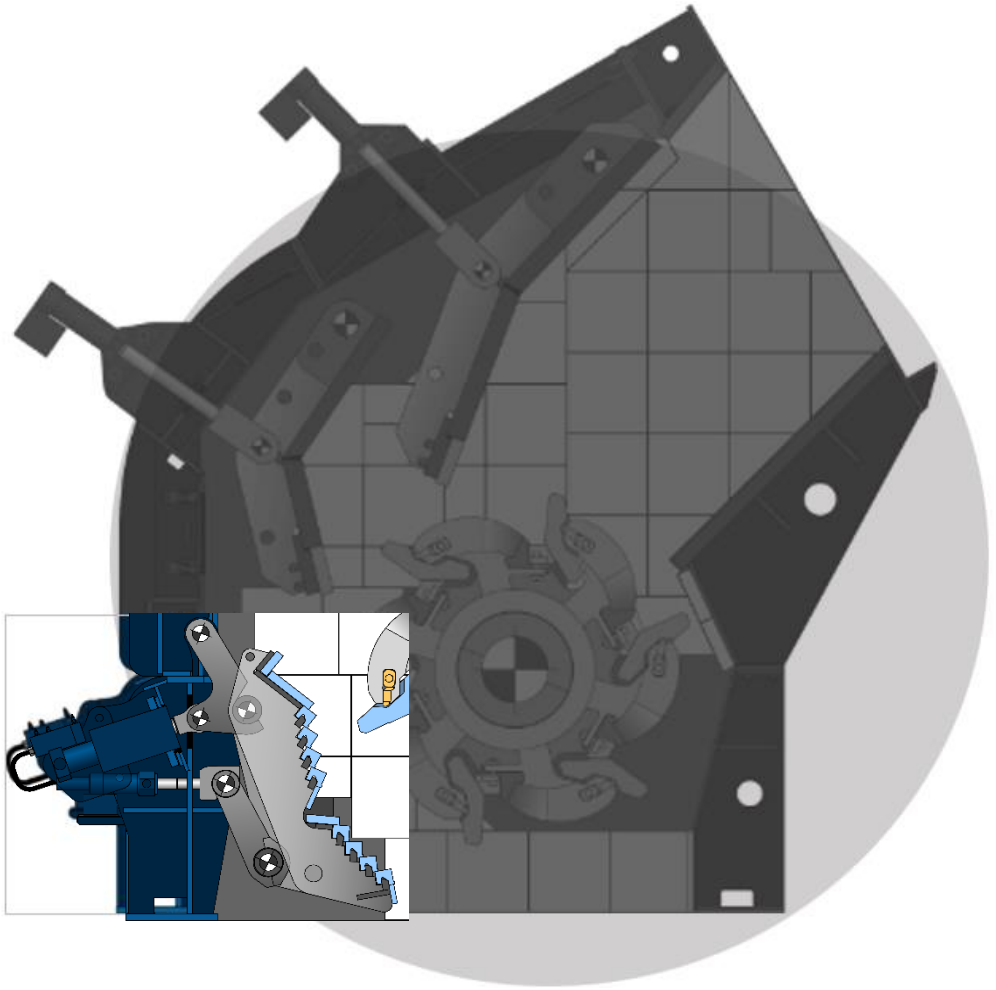
Retracting Mechanism

- Hydraulic system
  - Impact aprons are retained by hydraulic cylinder
  - Adjustment and securing (at the touch of a button)
  - Retracts in a controlled manner, in case of overstepping the pre-set limited value in crushing chamber
  - At normal load value the impact apron automatically resumes it’s pre-set position (operation without interruptions)
  - HAZtronic electronic control system for production selection of computer stored recipes according to requirements (optional)



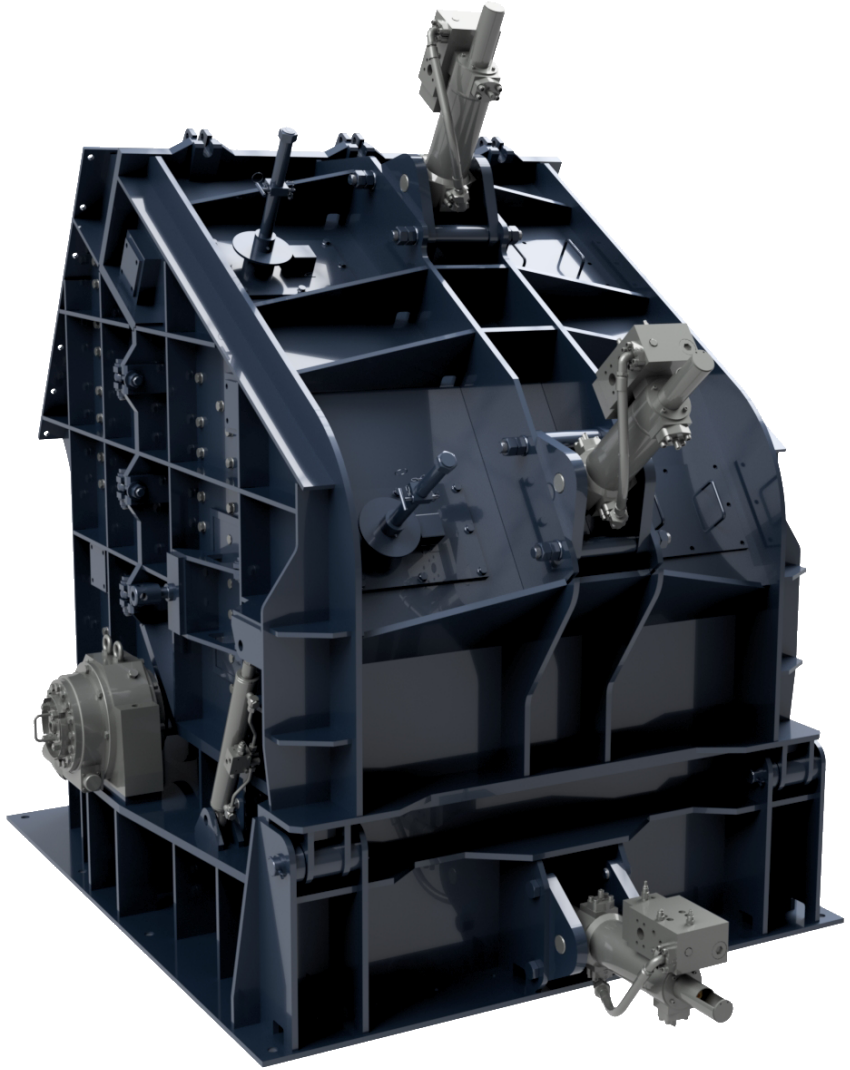
Grinding Path

- HPI and HPI-H may optionally fitted with a grinding path, ensuring an oversize limitation
- Adjustment of the grinding path is effected hydraulically
- Retractable Grinding Path
  - The HPI series can optionally be fitted with a retractable grinding path, which allows the retraction in case of an overload condition



Hydraulic Features

- If material jamming in the crushing chamber, impact aprons can be raised hydraulically
  - Material can pass through the gap
- Gap reverts automatically to its original setting
- Impactor does not have to be cleared
  - Avoiding costly stoppages and safety issues



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