

MSI SERIES

SECONDARY IMPACT CRUSHER



FOR THE TOUGHEST WORKING CONDITIONS

› DURABLE › RELIABLE › EFFICIENT

MEKA
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HIGH PERFORMANCE FOR HIGHER PROFITABILITY

The MEKA MSI Series Secondary Impact Crusher is ideal for crushing soft to medium-hard materials into a highly cubic and well-graded product with dimensions of 0-80 mm in a single pass. Thanks to the high reduction ratio, products of the desired dimensions can be obtained without the need for a tertiary crusher. Secondary impact crushers are a type of crusher that works on the principle of impact force and are used in the second stages of the crushing process for soft, non-abrasive or less abrasive materials.

MEKA Secondary Impact Crushers offer high reduction ratio with fewer crushing stages, which reduces investment costs and saves energy. They also provide the best cubic material production to meet asphalt and concrete product specifications. High throughput is achieved with a larger crushing chamber, optimized crusher plates and a rotor designed to increase productivity in every area.

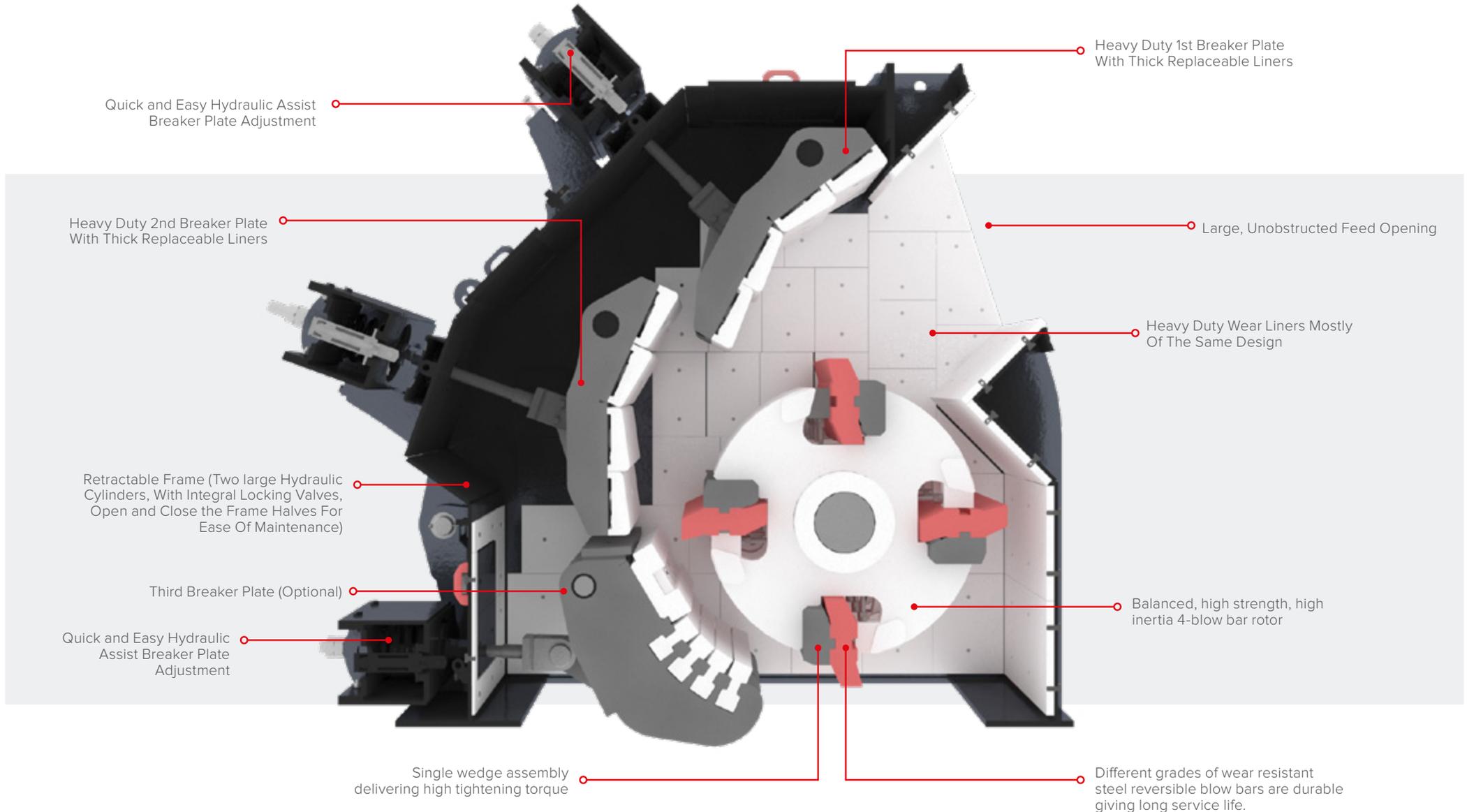


READY FOR THE HEAVIEST WORKLOADS WITH EVERY DETAIL

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WHY MEKA SECONDARY IMPACT CRUSHER?

MAIN FRAME

Crusher frame is a rugged, fabricated high tensile-strength steel plate construction with external bracing for increased strength. The inspection door has been placed on both sides of the frame to check the interior of the crusher. Rear frame can be opened via a hydraulic system during maintenance, and thus, all the wearing parts can be accessed easily. The same hydraulic system is used in the adjustment of the gap between the breaker plates and the rotor. The control of the whole hydraulic system has been gathered at a center powered by a motorized pump. Optionally, this control system can also be supplied with a remote control.

With simplicity and function in mind, the frame is fitted with 30mm thick, interchangeable, wear resistant cast or steel plate liners that have been designed as a common shape. A further benefit with this liner design is realized in the form of increased wear metal utilization. A worn liner, for example, can be repositioned from a high wear zone, to a low wear zone, thus extending its service life. The standardized design of the frame liner system helps to further reduce the impactor cost of operation.



ROTOR

The rotor is the heart and the most severely tested part of the impact crusher and particular emphasis has been placed on the rotor design, development and field of application. Secondary crushing requires heavy-duty rotors with rugged, stress free rotor bodies that provide a very high moment of inertia. MEKA rotors are designed and manufactured of high quality discs that are joined together along a center tube by a special, high quality welding process. The rotor body is stress relieved and dynamically balanced to increase its service life and provide workmanship of the highest quality.

The rotor is of an open rotor design. This design ensures stable power consumption and combined with the ability to handle re-enforcing bar etc. in recycling applications.



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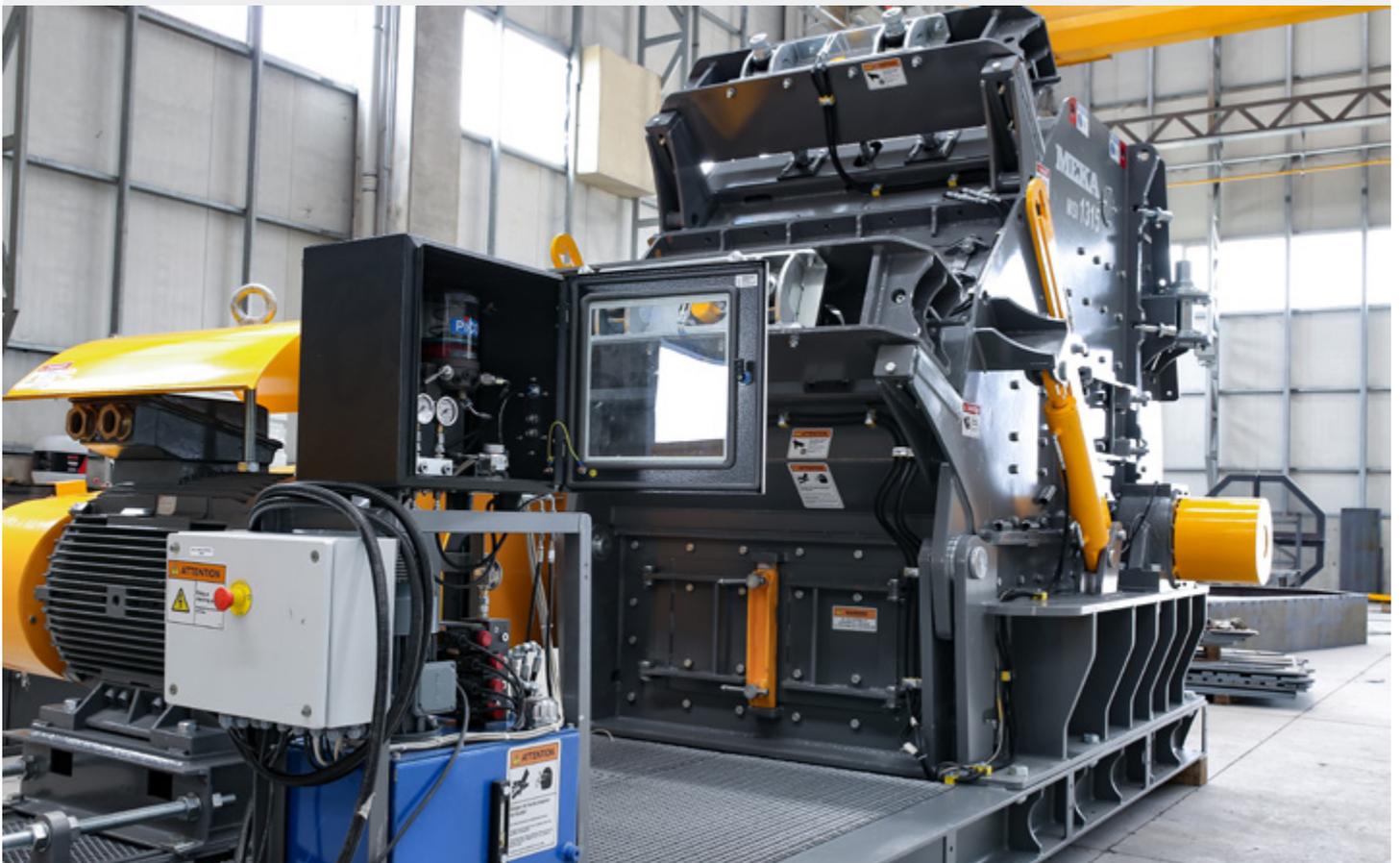
BLOW BARS

The blow bars can be used in both directions (forward-reverse) and they have been designed to be replaced both from the side and from the top. Depending on the specific task, the cast blow bars are made of manganese steel or high-chromium alloy. This unique blow bar design is also self sharpening throughout its life, resulting in more effective shearing of the incoming material and hence improved production.

In order to ensure a full contact between the surfaces where the blow bars lean on the rotor, these surfaces are ground and bound firmly to the rotor via a wedged tightening system. This in turn, minimized the shattering risk of the blow bar and ensures that they can be manufactured from materials with much more hardness.

Blow bars are fixed to rotors by a single wedge assembly delivering high tightening torque. Combined with perfect blow bar alignment on rotor contact faces, this guarantees the enormous advantage of eliminating gaps between the rotor and the blow bars. This simple retaining system saves time and labor and reduces the risk of blow bar breakage.

Rotor shaft is fitted with self aligning, spherical roller bearings which are housed in a heavy duty purpose made housing incorporating labyrinth seals with V and O rings, to ensure no ingress of dust / dirt etc. The housings are fixed to the crusher base via a machined mounting surface. This ensures perfect alignment with no requirement for shimming etc., resulting in extended bearing life and easier future maintenance.



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BREAKER PLATES

1st and 2nd breaker plates are gravity suspended and are fixed at the top part and opening of the bottom part is infinitely adjustable. Via the standard supply electric hydraulic power pack hydraulic adjustment of both plates is achieved. This system ensures that the plates are held in place for normal operation. Should an uncrushable object enter the crusher, the system is designed to allow the plates to lift, thus allowing the object to pass through the crusher without causing severe damage.

Both breaker plates are heavy-duty fabricated components equipped with thick, replaceable bolt-on liners of high quality, wear resistant cast alloy. The liners have been standardized to a common shape yielding extended service life and reduced spare parts stocking. This standardized design of the liners helps to further reduce the impactor cost of operation.

THIRD BREAKER PLATE (OPTIONAL)

To manufacture fine grains, the MSI Impact Crusher can be equipped with a lower section grinding track beneath the rotor shaft. The third breaker plate provides an excellent level of control over the product grading, enhanced product soundness and very high cubical product shape. The third breaker plate can be adjusted through external hydraulic cylinders.

With this flexible solution, you benefit from excellent crushing results and can respond at any time to changing project requirements.

DRIVE

- Standard V-belt drive
- Flexible, for damping of shock loads
- Simple changing of rotor circumferential speed, rotor speed affects throughput, quality as well as grain distribution of the crushed material.



TECHNICAL SPECIFICATIONS



SPECIFICATIONS

	MSI 1210	MSI 1312	MSI 1315
Rotor Diameter	1150 mm	1300 mm	1300 mm
	45"	51"	51"
Rotor Width	1000 mm	1250 mm	1500 mm
	39"	49"	59"
Feed Opening	1020 x 815 mm	1290 x 800 mm	1540 x 800 mm
	40" X 32"	51" X 31"	61" X 31"
Maximum feed size	250 mm	350 mm	350 mm
	10"	14"	14"
*Capacity	100 - 150 mtph	150 - 250 mtph	250 - 350 mtph
	110 - 165 stph	165 - 275 stph	275 - 385 stph
Power	132 -160 kW	200 kW	250 - 315 kW
	180 - 220 HP	275 HP	340 - 430 HP
**Weight	12400 kg	18000 kg	22600 kg
	27340 lbs	39680 lbs	49820 lbs

*For material weighing 1.6 t/m³ or 100 lbs/ft³.

Capacity values are indicative only, crusher performance may vary depending on the feed gradation, feed moisture content, crushability of the material, crusher rpm, installed power and the crushing circuit design.

**Weights shown do not include drive motor package, support legs, maintenance platform, inlet and outlet chutes.

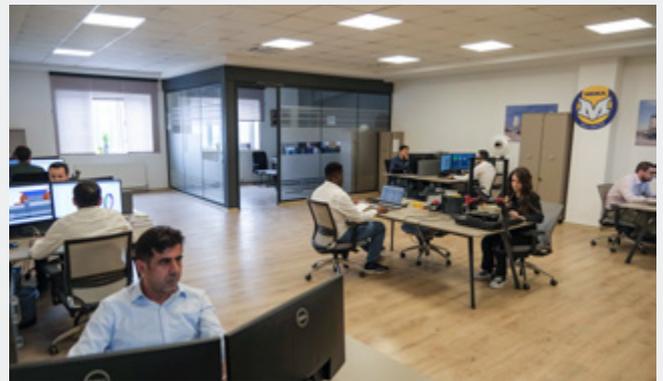
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IN MORE THAN
38 YEARS



THE CHOICE OF PROFESSIONALS IN MORE THAN 110 COUNTRIES: **MEKA**

MEKA has a global capacity with more than 80 engineers, nearly 500 employees and experience of producing more than 4500 complete plants. With 5 separate production facilities and a worldwide service network, MEKA is a reliable manufacturer.

With its after-sales services network and strong infrastructure in spare parts, MEKA does not only produce equipment or plants, but also offers you the comfort of predictable production and uninterrupted earnings.





Reliable Solutions for
Aggregate Production, Mining,
Recycling and Ready Mixed
Concrete Industries



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