

MPI SERIES

# PRIMARY IMPACT CRUSHERS



**FOR THE TOUGHEST WORKING CONDITIONS**

› DURABLE › RELIABLE › EFFICIENT

**MEKA**  
[www.mekaglobal.com](http://www.mekaglobal.com)

# HIGH PERFORMANCE FOR HIGHER PROFITABILITY

MEKA Primary Impact Crushers (MPI) offer high crushing rates, low power consumption and easy maintenance. With these features, they are preferred in working conditions where product and productivity demands are becoming increasingly important. Primary impact crushers are horizontal shaft impact crushers operating on the principle of impact force and are used in the first stages for crushing soft, non-abrasive or low abrasive materials. MEKA Primary Impact Crushers reduce investment costs and save energy by achieving high reduction with fewer crushing stages.

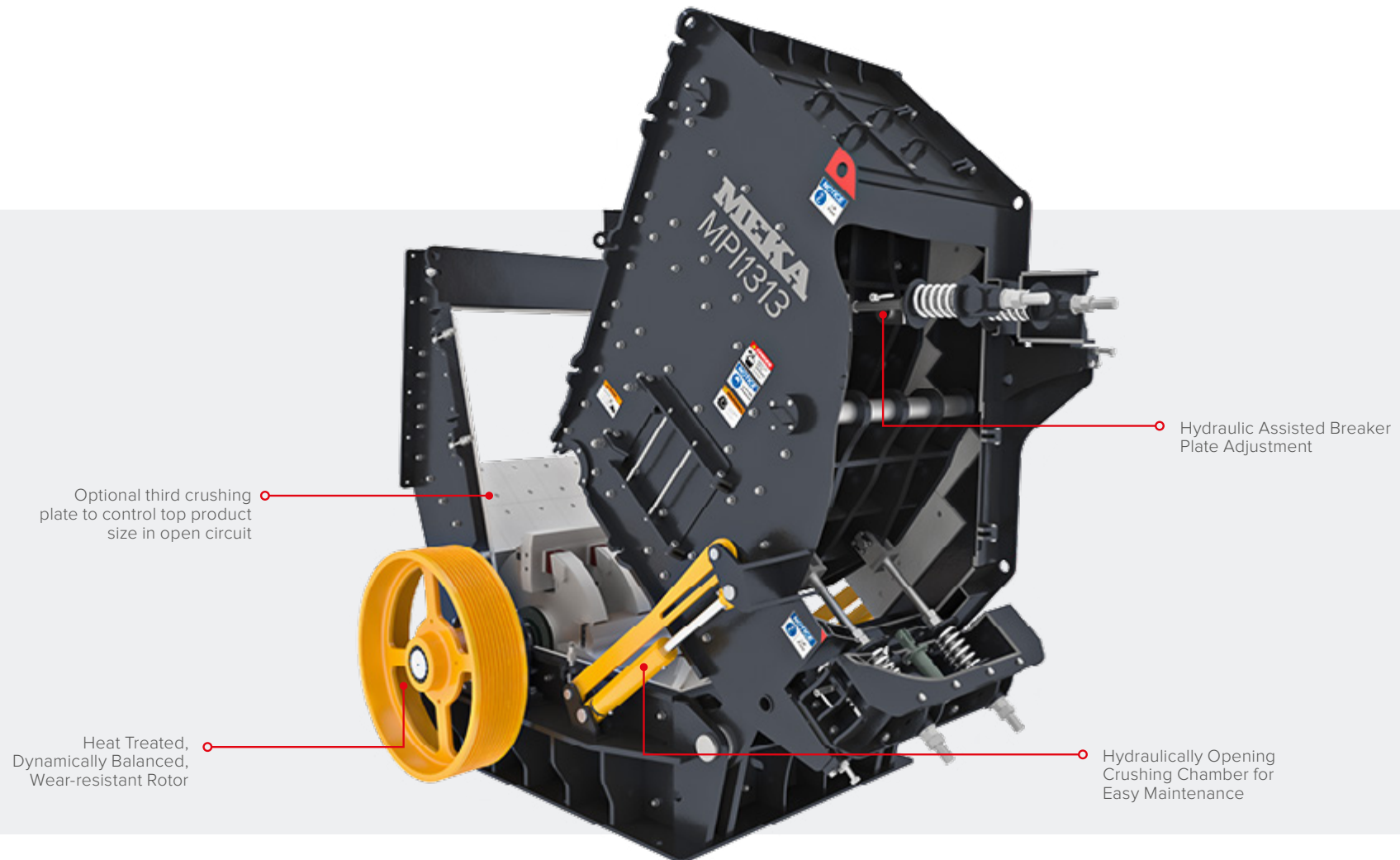
The double crushing chamber design offers excellent size reduction ratios. Furthermore, with the addition of a third plate, the reduction ratio can be increased even further. MPI crushers allow single-stage crushing with material recirculation. This allows customers to build lower-cost plants and start producing aggregates quickly.

The large feed opening and designed rotor are optimized to accept large feed sizes for high production. This design improves loading efficiency and provides more productive results.



# READY FOR THE HEAVIEST WORKLOADS WITH EVERY DETAIL

**MEKA**  
MPI SERIES  
PRIMARY IMPACT CRUSHERS



SCAN OR CLICK QR CODE TO WATCH  
A VIDEO OF A FACILITY WHERE  
MEKA PRIMARY IMPACTOR IS USED



# WHY MEKA PRIMARY IMPACT CRUSHER?

## HIGH CAPACITY

Large unobstructed feed opening, heavy-duty breaker plates and heavy rotor are designed to accept big feed size for high production.

These features maximise loading, and with a bigger crushing chamber, the result is a boost in productivity in every type of application.

## HIGH REDUCTION RATIO

MPI crushers achieve a higher reduction with fewer crushing stages, lowering your capital costs and saving energy.

The design of crushing chamber with double breaker plates ensures great reduction ratios and with the addition of a third plate, reduction ratio can even be improved.

## CUBICAL PRODUCT

Our MPI crushers are high capacity crushers that are designed to reliably produce cubical product shapes. The final shape delivered aims to meet the exacting specifications for flakiness and elongation required to produce asphalt and concrete products.



## ROTOR

Rotor is the key component in the crushing process and together with shaft and bearings forms the heart of the crusher, that's why we have ensured that the rotor is robust and efficient to handle up to 1 m<sup>3</sup> large lumps.

Rotor is manufactured from solid-cast steel with heavy duty rotor discs, essential for delivering the high inertia required for optimum crusher performance. Solid forged steel shafts are precision machined for assembly. Rotor shaft is supported on grease lubricated, self aligning large spherical roller bearings with labyrinth type seals for extended life. The bearings have a pedestal mounted split pillow block housing for easy maintenance. The open rotor design additionally provides the ability to handle re-enforcing bars etc. in recycling applications.



# WHY MEKA PRIMARY IMPACT CRUSHER?

## BLOWBARS AND ATTACHMENT SYSTEM

A wide selection of blow bar metallurgies are available to maximize wear life of parts, including manganese and various compositions of chrome.

Blow bars are fixed to rotor by a single wedge assembly delivering high tightening torque. Combined with perfect blow bar alignment on crossbeam contact faces, this guarantees the enormous advantage of eliminating clearance between the rotor and the blow bars. This reduces risks of breakage and makes it possible to push the use of blow bars to maximum limits.



## BREAKER PLATES

The MPI crusher has two breaker plates and can additionally be equipped with a third one.

The gap settings of the breaker plates can be adjusted by means of thrust device with pressure springs thus allowing for optimum control of the end product granulometry. The spindle adjustment is assisted by auxiliary hydraulics.

Robust steel coil springs provide tension on the secondary breaker plate to maintain a consistent gap setting to help produce a uniform product.

## HYDRAULIC OPENING

MPI crushers are equipped with two large hydraulic cylinders, with integral locking valves, to open and close the body halves for ease of maintenance. The easy access to the chamber makes the MPI crushers particularly easy to maintain.



## FRAME

Crusher main body is fabricated from low carbon steel. Crushing chamber is completely lined with thick, interchangeable, bolt-on abrasion resistant (AR) liners.

Sensors on the frame make maintenance interventions safer by preventing machine start up. Inspection doors located all around the frame make it possible to reach the interior of the crusher.

# TECHNICAL SPECIFICATIONS



## SPECIFICATIONS

	<b>MPI 1111</b>	<b>MPI 1012</b>	<b>MPI 1114</b>	<b>MPI 1313</b>	<b>MPI 1515</b>	<b>MPI 1620</b>
<b>Rotor Diameter</b>	1100 mm	1100 mm	1100 mm	1300 mm	1500 mm	1600 mm
	43"	43"	43"	51"	59"	63"
<b>Rotor Width</b>	1100 mm	1100 mm	1400 mm	1300 mm	1500 mm	2000 mm
	43"	43"	55"	51"	59"	79"
<b>Feed Opening</b>	1140 x 950 mm	1140 x 840 mm	1410 x 950 mm	1340 x 1000mm	1540 x 920 mm	2040 x 1400mm
	45" X 37"	45" X 33"	56" X 37"	53" X 39"	61" X 36"	80" X 55"
<b>Maximum Feed Size</b>	600 mm	600 mm	600 mm	900 mm	850 mm	1300 mm
	24"	24"	24"	35"	33"	51"
<b>*Capacity</b>	150 - 200 mtph	150 - 200 mtph	250 - 350 mtph	300 - 500 mtph	400 - 600 mtph	600 - 950 mtph
	165 - 220 stph	165 - 220 stph	275 - 385 stph	330 - 550 stph	440 - 660 stph	660 - 1050 stph
<b>Power</b>	160 kW	160 kW	200 kW	250 kW	315 kW	2x250 kW
	220 HP	220 HP	275 HP	340 HP	430 HP	2x340 HP
<b>**Weight</b>	15100 kg	13150 kg	16800 kg	22400 kg	26800 kg	40500 kg
	33290 lbs	28990 lbs	37037 lbs	49380 lbs	59080 lbs	89290 lbs

\*For material weighing 1.6 t/m<sup>3</sup> or 100 lbs/ft<sup>3</sup>.

Minimum capacities are for top feed size of 800 mm (31") and end product of 100 mm (4").

Maximum capacities are for top feed size of 600 (24") mm and end product of 200 mm (8").

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.



# TRUSTED BRAND IN MORE THAN 38 YEARS





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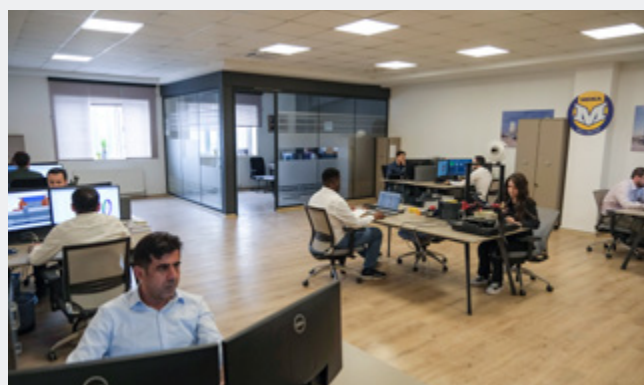
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# THE CHOICE OF PROFESSIONALS IN MORE THAN 110 COUNTRIES: **MEKA**

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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