



# **MEKA**

## **PRIMARY IMPACT CRUSHERS**

HIGH PERFORMANCE FOR  
HIGHER PROFITABILITY

MEKA CRUSHING SCREENING AND  
CONCRETE BATCHING TECHNOLOGIES  
[www.mekaglobal.com](http://www.mekaglobal.com)



# MEKA

## PRIMARY IMPACT CRUSHERS



### VERSATILE AND ECONOMICAL MEKA MPI PRIMARY IMPACT CRUSHERS

MEKA MPI crushers, offering high reduction ratios, reduced power consumption, easier and safer maintenance are the solution for operating conditions where output and productivity demands are increasingly stringent.

#### APPLICATIONS

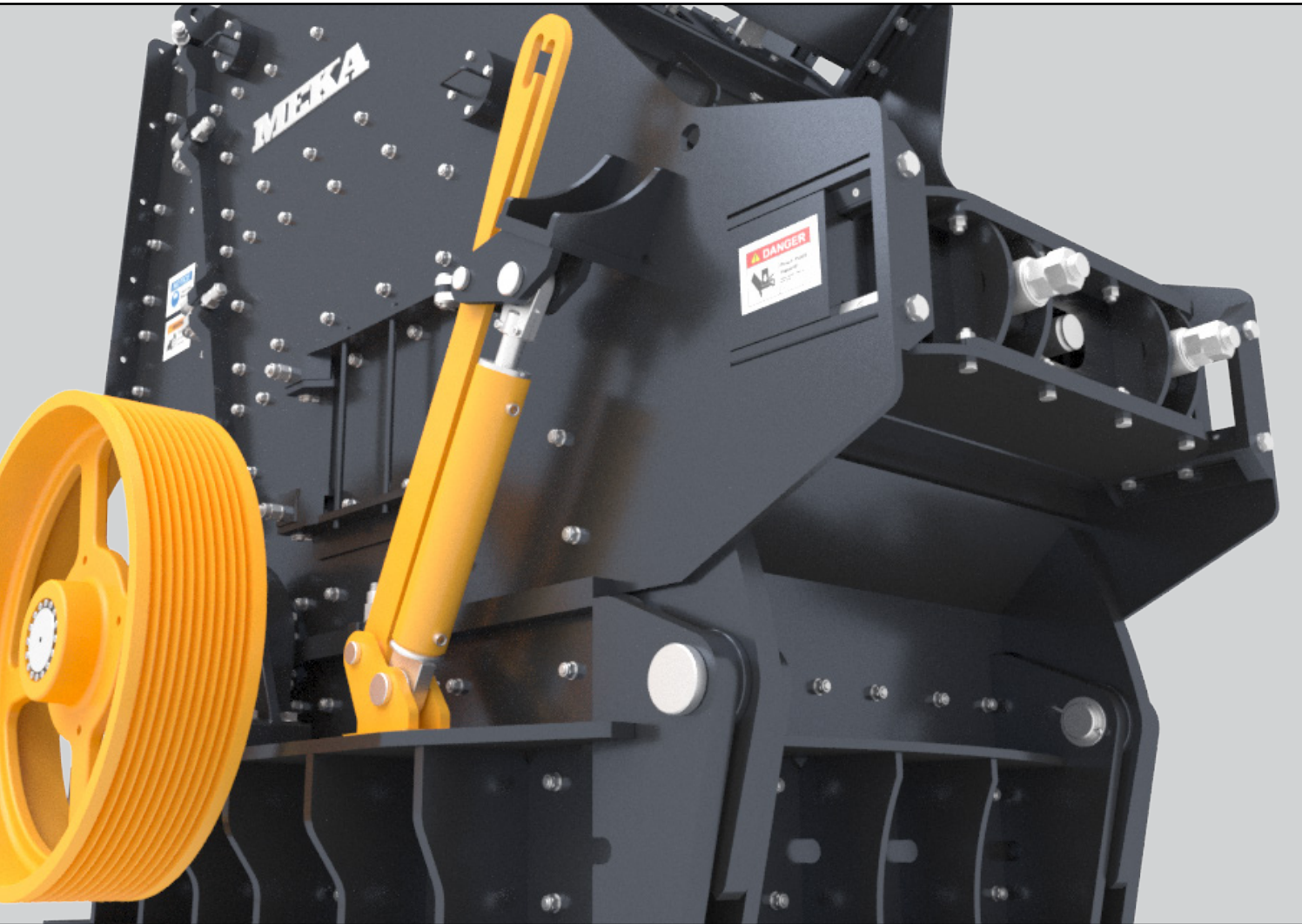
The strength of MPI crushers makes them ideal for diverse applications and configurations.

These crushers can replace large jaw crushers and be fed with material blocks the size of their feed opening.

MPI crushers are extremely versatile machines and have proven their effectiveness in a host of missions like crushing low abrasive materials for quarrying, cement industry, concrete and asphalt recycling, and slag recycling.

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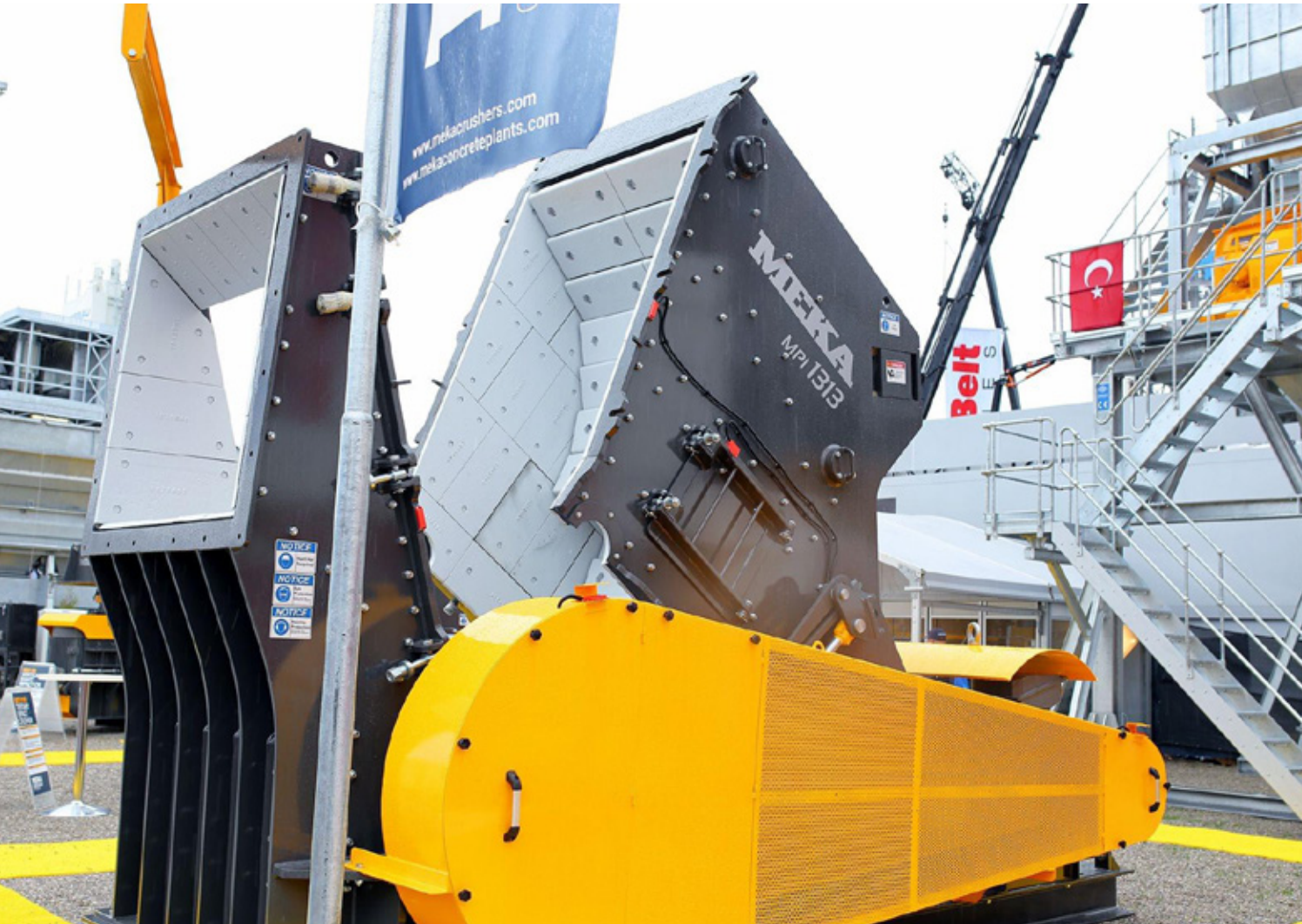
### CRUSHER WORKING BENEFITS

- Quick and easy installation.
- Very simple design with high mechanical reliability.
- Easy to operate.
- Less sensitive to sticky material than other crushers.
- Fixed or wheel mounted applications.



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### PROCESS BENEFITS

#### 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.



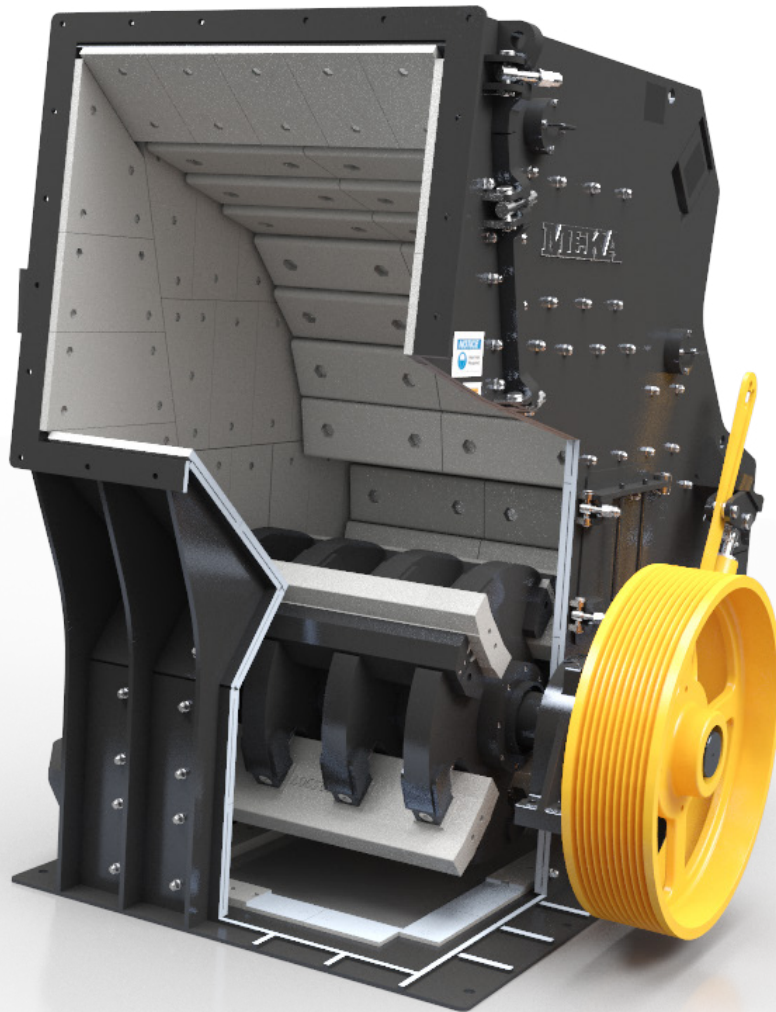
## FEATURES

### 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.



### **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

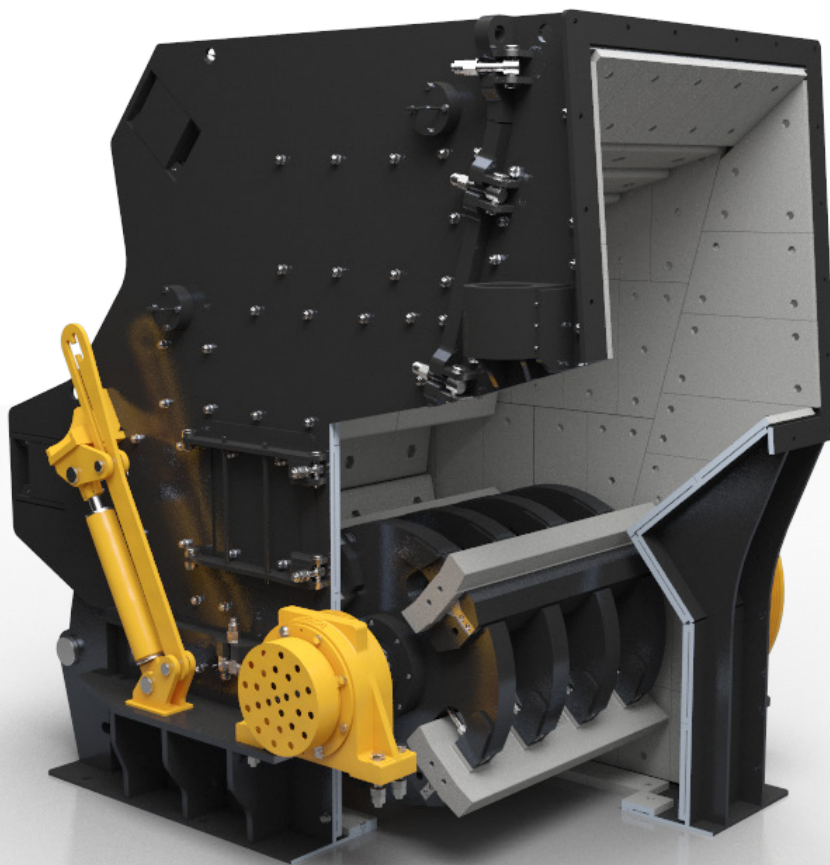
The MPI crusher has two breaker plates and can additionally be equipped with a third one. The gap settings of the breaker plates can be adjusted by means of thrust device with pressure springs thus allowing for optimum control of the end product granulometry. The spindle adjustment is assisted by auxiliary hydraulics.

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



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### FRAME

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

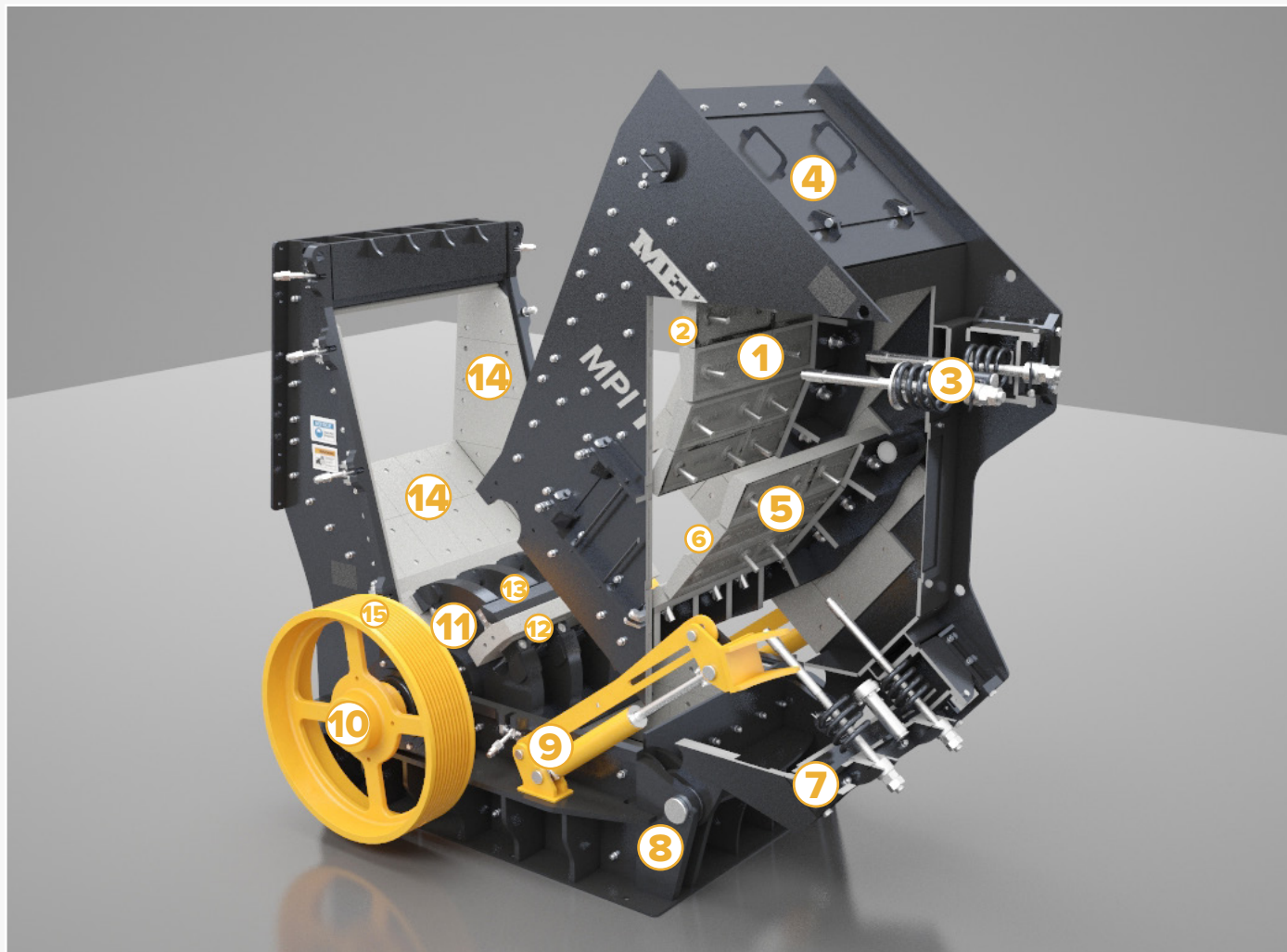
Sensors on the frame make maintenance interventions safer by preventing machine start up. Inspection doors located all around the frame make it possible to reach the interior of the crusher.

### 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.





## MAIN COMPONENTS

1. First Breaker Plate
2. Plate Liners
3. Plate Adjustment Cylinder
4. Access Door
5. Second Breaker Plate
6. Plate Liners
7. Plate Adjustment Device
8. Frame Hinge
9. Hydraulic Cylinder and Safety Arm
10. Rotor Shaft
11. Rotor
12. Blow Bar
13. Blow Bad Locking Wedge
14. Frame Liners
15. Drive Pulley

### TECHNICAL DATA

Model	Feed Opening	Maximum feed size	Maximum Speed	Power
<b>MPI 1111</b>	1110 x 924 mm / 44" x 36"	600 mm / 24"	650 RPM	160 kW / 220 HP
<b>MPI 1114</b>	1000 x 1400 mm / 40" x 55"	600 mm / 24"	650 RPM	200 kW / 280 HP
<b>MPI 1313</b>	1320 x 1200 mm / 54" x 47.2"	900 mm / 36"	700 RPM	250 kW / 350 HP
<b>MPI 1515</b>	1540 x 1360 mm / 60.6" x 52"	1000 mm / 40"	600 RPM	315 kW / 440 HP
<b>MPI 1620</b>	2040 x 1630 mm / 80.3" x 64.3"	1300 mm / 52"	500 RPM	500 kW / 700 HP

Model	Rotor Diameter	Rotor Width	Capacity *	Crusher Complete **
<b>MPI 1111</b>	1100 mm / 43 "	1070 mm / 42 "	150-200 mtph / 170-225 stph	14500 kg / 32000 Lbs
<b>MPI 1114</b>	1100 mm / 43 "	1400 mm / 55 "	250-350 mtph / 275-385 stph	17500 kg / 38600 Lbs
<b>MPI 1313</b>	1300 mm / 51.2 "	1300 mm / 51.2 "	300-500 mtph / 330-550 stph	17800 kg / 39160 Lbs
<b>MPI 1515</b>	1500 mm / 59 "	1500 mm / 59 "	400-600 mtph / 440-660 stph	21820 kg / 48100 Lbs
<b>MPI 1620</b>	1600 mm / 63 "	2000 mm / 78.7 "	600-950 mtph / 660-1040 stph	40500 kg / 89300 Lbs

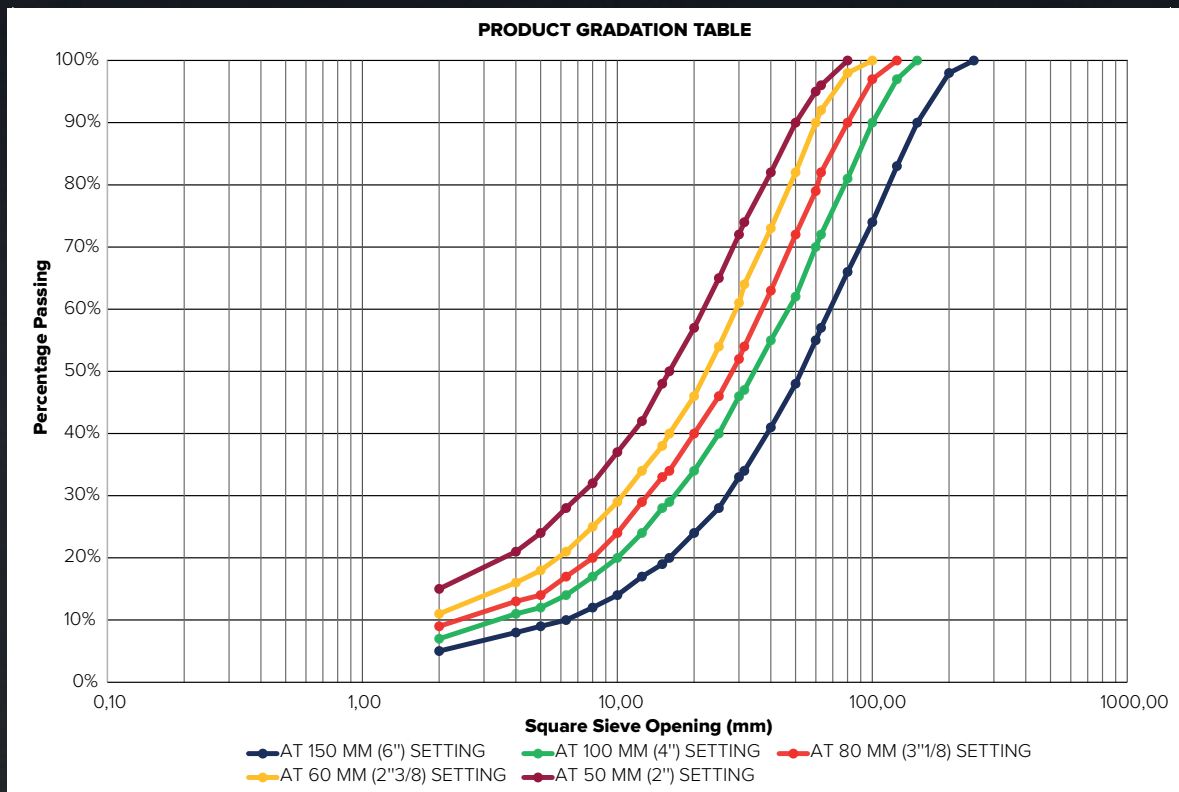
\* Minimum capacities are for top feed size of 800 mm (31") and end product of 100 mm (4").  
Maximum capacities are for top feed size of 600 (24") mm and end product of 200 mm (8").  
Capacity figures shown apply to material weighing 1,6 tons per cubic meter or 100 pounds per cubic foot.  
The gradation and capacities shown are dependent on feed gradation, material density and its crushability.

\*\* Weights shown do not include drive motor package, support legs, maintenance platform.





### TECHNICAL DATA





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## MEKA IS A PROFESSIONAL SOLUTION

Meka has developed and manufactured crushing-screening machines, washing equipment, stationary and mobile crushing and screening plants, recycling plants for concrete and asphalt, and concrete batching plants for a great number of customers. To-day, there are more than 2,000 Meka plants in over 65 countries on four continents contributing to the construction of a better world. Meka is preferred by global leaders such as Holcim, Lafarge, Cemex, and Heidelberg, and our brand is acknowledged as “the choice of professionals” worldwide.







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CRUSHING  
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