

# MEKA

## MTI SERIES TERTIARY IMPACT CRUSHERS

For the production of high grade  
concrete and asphalt aggregate.

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

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## MTI SERIES TERTIARY IMPACT CRUSHERS



### WHAT IS TERTIARY IMPACT CRUSHER?

Impact crushers are manufactured with different rotor sizes and the required motor power is selected according to the application. The strength of MTI crushers makes them ideal for every kind of application in many different configurations. MTI crushers have demonstrated their effectiveness in many missions from crushing low abrasive materials to industrial applications and recycling.

### Some application areas;

#### QUARRIES

- Production of aggregates for concrete and asphalt plants,
- Production of manufactured sand
- Shaping of flaky aggregates to obtain cubical aggregates

#### INDUSTRIAL MINERALS

- With minimum capital and operational costs
- Excellent particle shape down to micron sizes

#### RECYCLING PLANTS

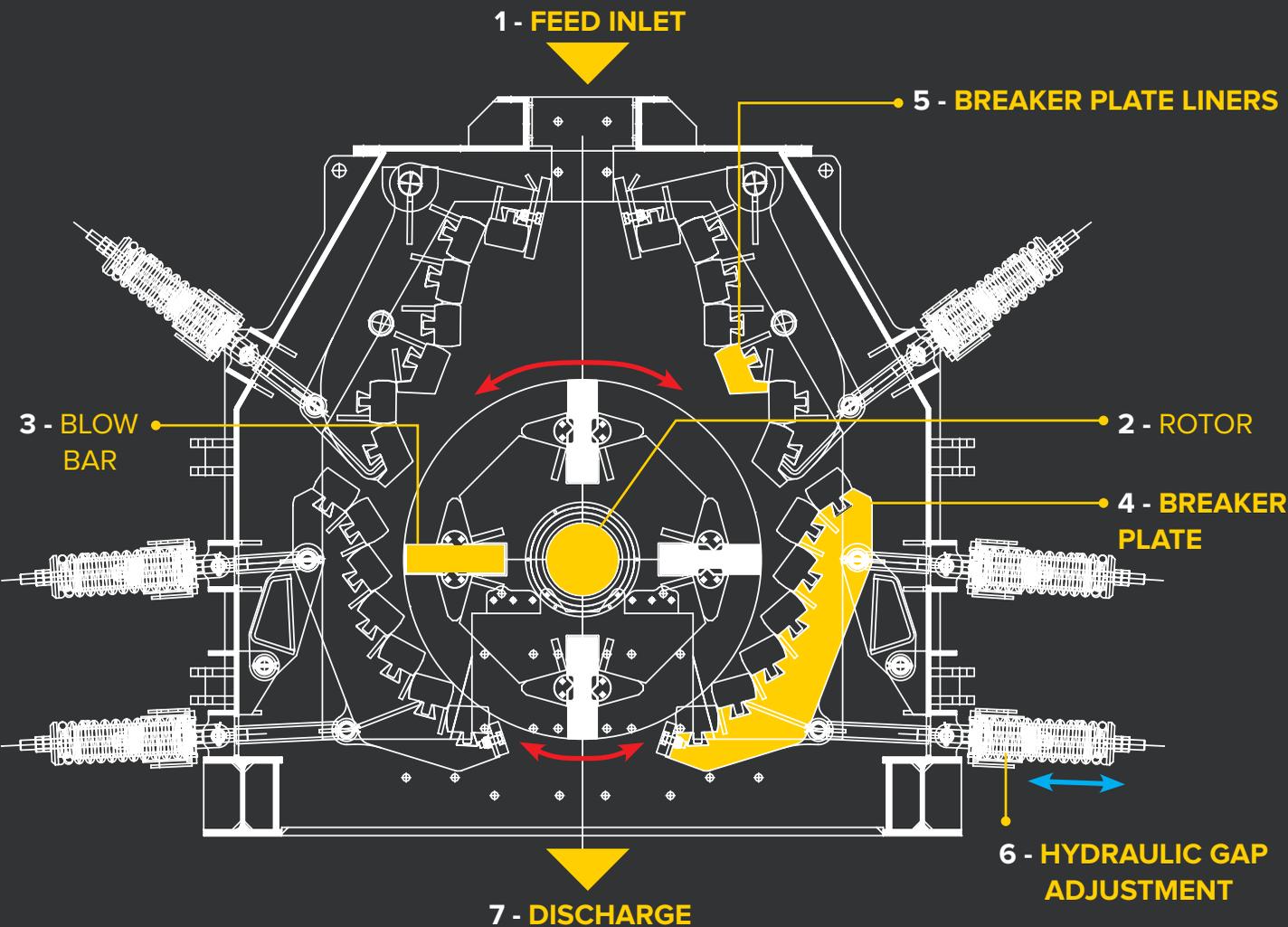
# MEKA

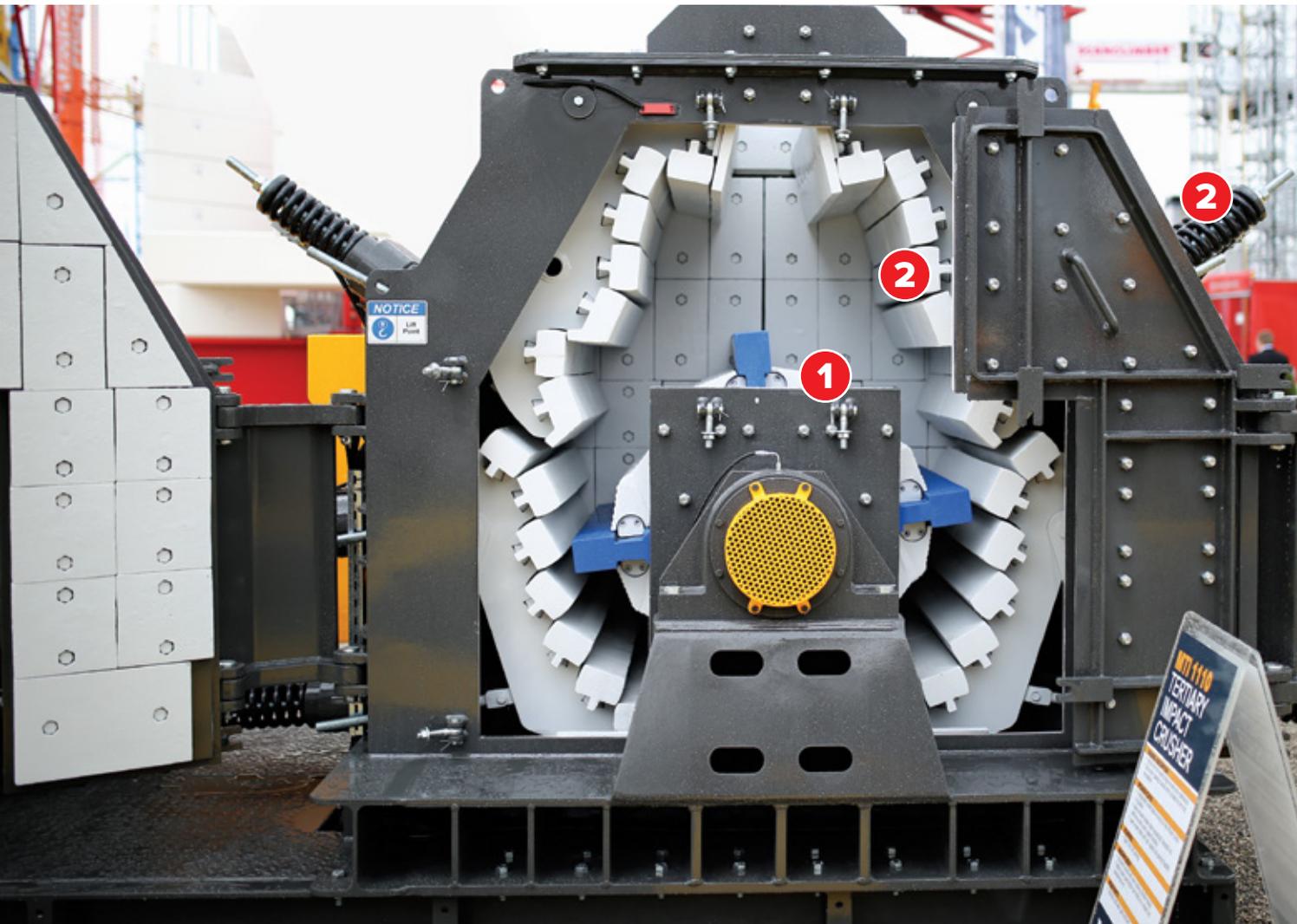
## MTI SERIES TERTIARY IMPACT CRUSHERS

### OPERATING PRINCIPLES OF TERTIARY IMPACT CRUSHERS

Material fed to the crushing chamber through the Feed Inlet (1) is hit by blow bars (3) and thrown against breaker plates (4). This repeated sequence of impacts provides the crushing.

The gap between the breaker plates and the rotor is adjustable by means of the hydraulic system (6) to obtain the required product sizes.





## FEATURES /ADVANTAGES OF MEKA TERTIARY IMPACT CRUSHERS

### 1 ROTOR

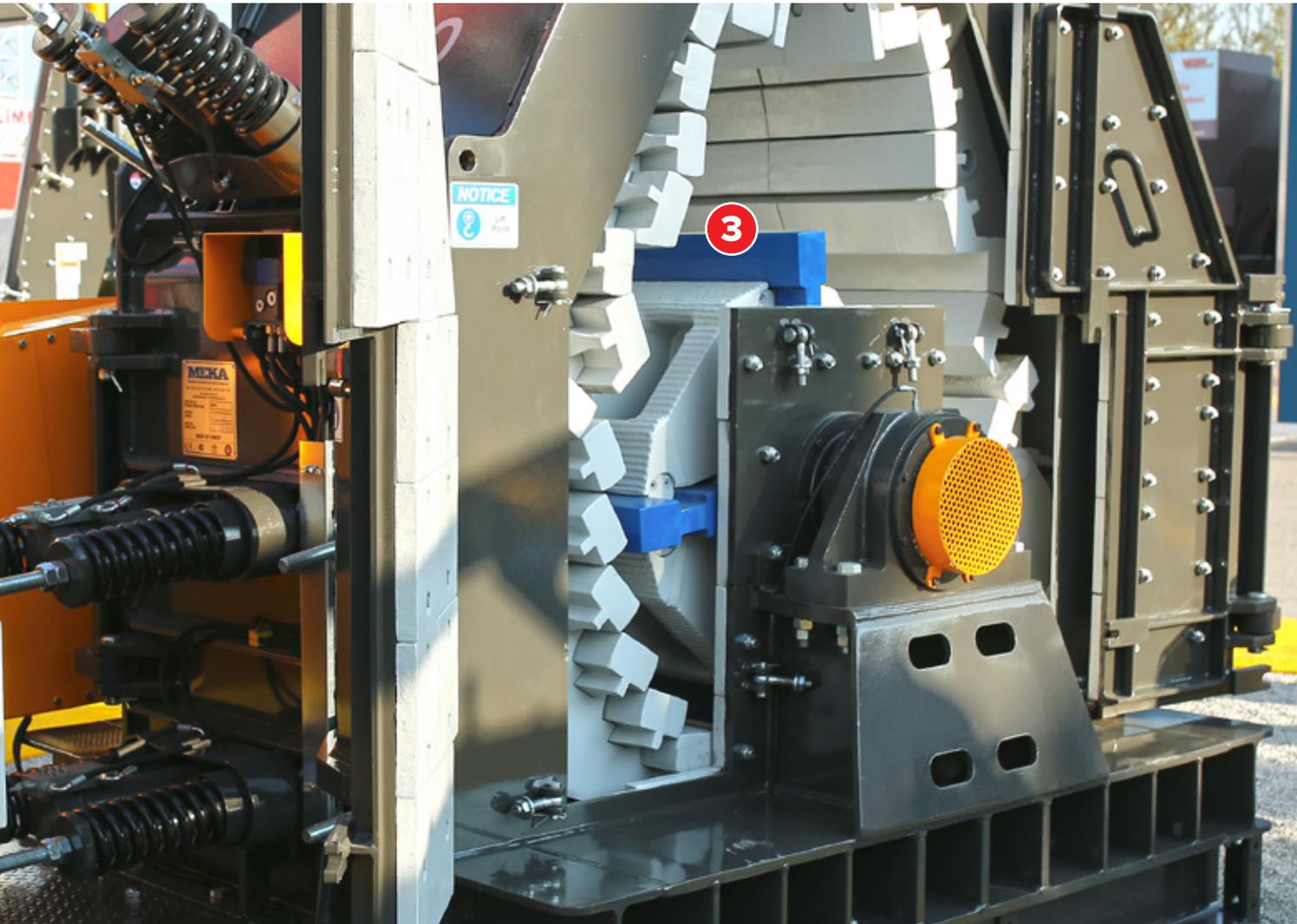
The rotor with high inertia improves crushing reduction and provides stability in the process, reducing energy consumption and increasing long-term performance. Heavy rotor and crushing chamber design in addition to materials selected for their outstanding wear resistance further reducing operating and wear costs. The rotor of the crusher is generally the most stressed component during the crushing procedure. Because of the symmetrical design of the crusher, the rotor's direction of rotation may be changed and reversed.

### 2 BREAKER PLATES AND GAP SETTING

The design of the crushing chamber of the MEKA crushers with comfortably adjustable breaker plate gap ensures an optimum crushing result at a favourable energy demand. Simple and easy hydraulic assisted gap adjustment provides absolute gap settings using a minimum amount of components.

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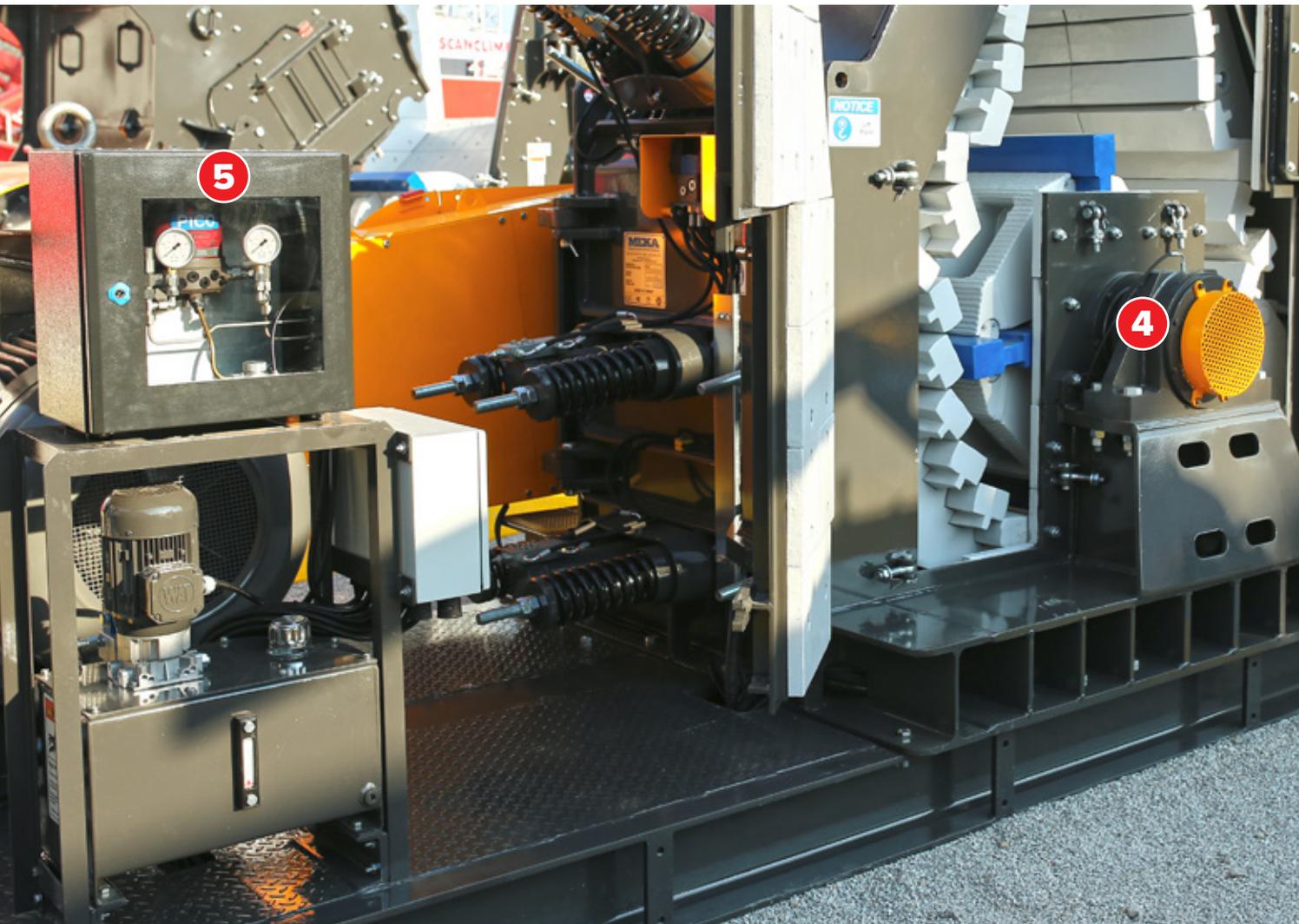
## FEATURES /ADVANTAGES OF MEKA TERTIARY IMPACT CRUSHERS

### 3 BLOW BARS

Blow bars are fixed to the rotor by a single wedge assembly, delivering high tightening torque. The reversible blow bars are machined to ensure a flat fit with the rotor. Combined with perfect blow bar alignment on rotor contact faces, guaranteeing the advantage of eliminating gaps between the rotor and blow bars. This reduces the risk of blow bar breakage. Due to the application of different grades of wear resistant steel for the blow bars with a degree of utilization of more than 50 percent, the operating and maintenance costs of the MEKA crushers are clearly reduced. Re-sharpening of the blow bars in reverse operation is another advantage for the lifetime of blow bars.

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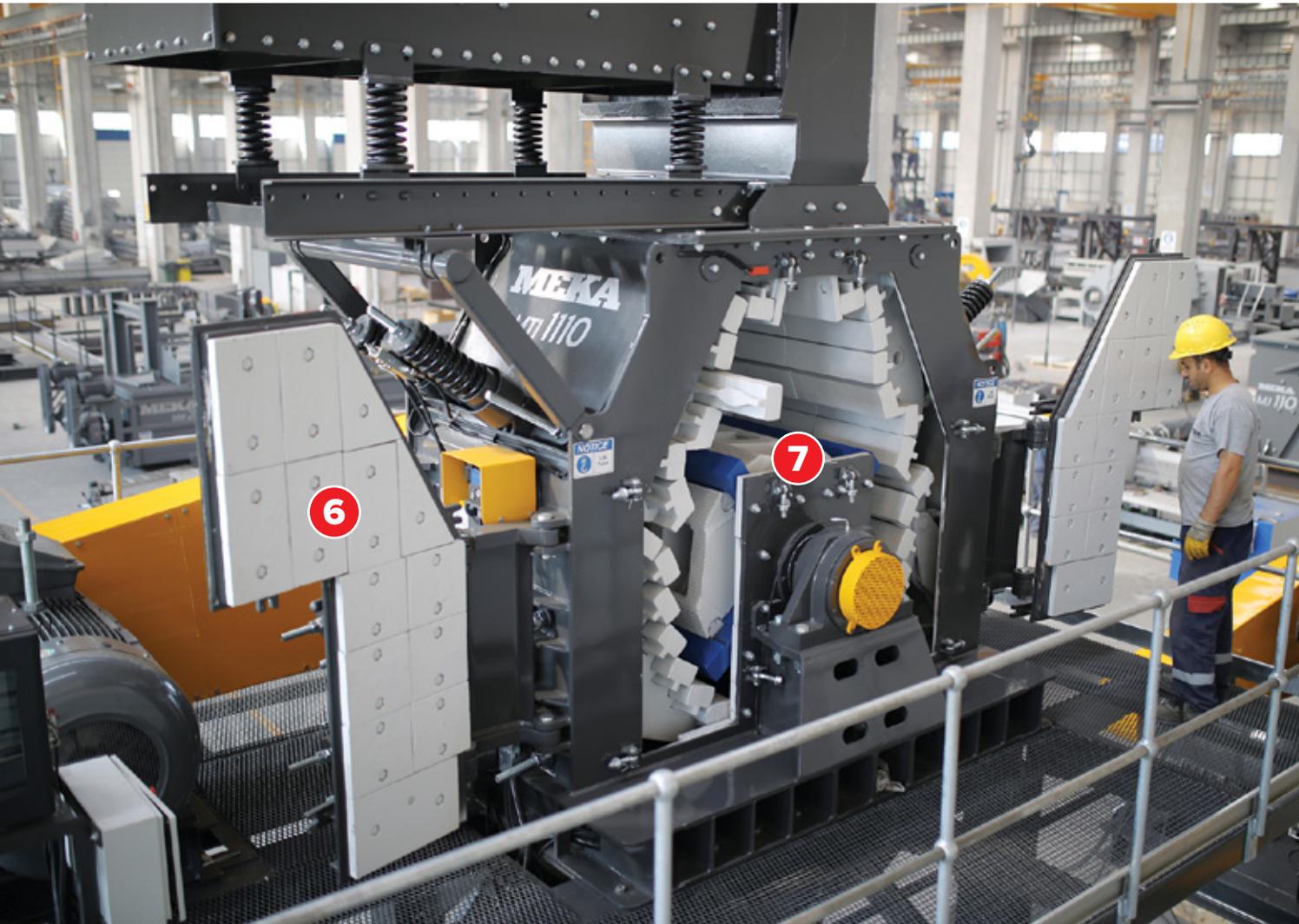
## FEATURES /ADVANTAGES OF MEKA TERTIARY IMPACT CRUSHERS

### 4 HOUSINGS

Power is transmitted to the rotor by means of a V Belt drive. By changing the rotor speed, it is possible to specifically produce a desired grain size distribution from the wide potential range of products. In case of an advanced wear on the blow bars, it is possible to change the speed and keep the product grain curve constant. As optional equipment, crusher can be equipped with temperature sensors for the housings.

### 5 PERFECT LUBRICATION SYSTEM

The Centralized automatic lubrication system, continuously supplies the crusher labyrinth seals, with sensors on each seal, to ensure, you are informed of a failure, before it is too late.



## FEATURES /ADVANTAGES OF MEKA TERTIARY IMPACT CRUSHERS

### 6 MAINTENANCE DOORS

For service, inspection and maintenance work, the machine's housing is fitted with large doors on both sides. The blow bars are laterally inserted into the rotor, so that they may be simply and quickly exchanged. The housing's plating largely consists of handy and easy to exchange wear plates. Sensors for the doors make all the maintenance interventions safe by forbidding machine start-up.

### 7 REVERSIBLE ROTATION

The rotors in our MTI Series crushers are able to operate in both directions, so when the wear parts are worn out for one side of the crusher, the operators can change the rotor's operating direction to the other side. This method decreases inventory costs for clients by reducing maintenance requirement time and parts cost.

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## MTI SERIES TERTIARY IMPACT CRUSHERS

### HIGH PERFORMANCE

- High capacity to boost profitability
- High reduction ratio
- High quality and product cubical shape
- Best grain shape with high quality grain proportion
- Low filler content

### ADAPTABLE TO ALL APPLICATIONS

- Wide choice of blow bars and liners
- Triple breaker plate
- Full hydraulic setting
- Designed for stationary, skid or portable mounting

### MAINTENANCE FRIENDLY

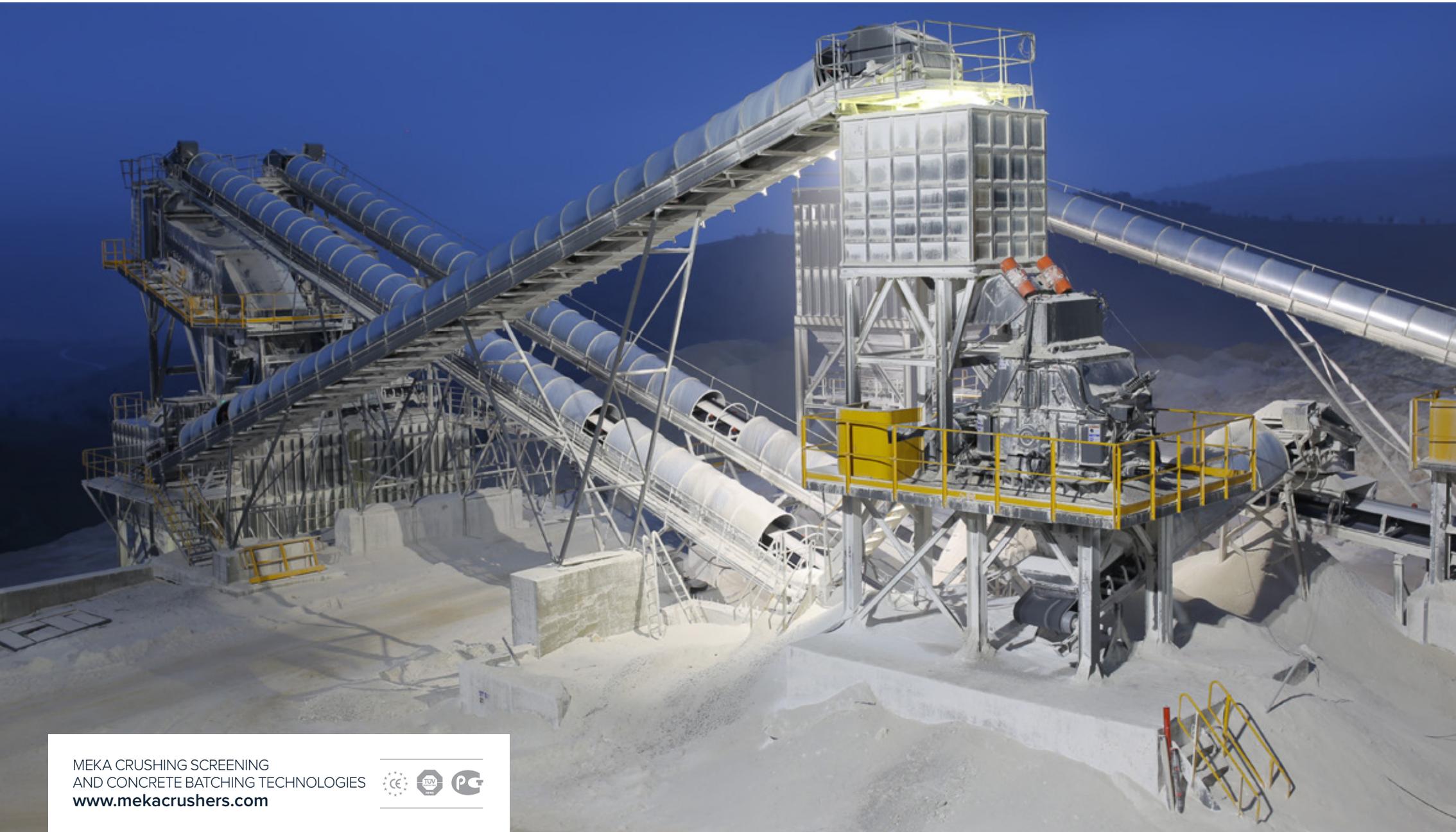
- Designed to minimize maintenance
- Easy blow bar attachment system that provides a higher degree of reliability
- Safety devices
- Perfect Lubrication System

### HIGH EFFICIENCY

- Quick and easy installation
- Easy to operate
- High mechanical availability
- High machine availability

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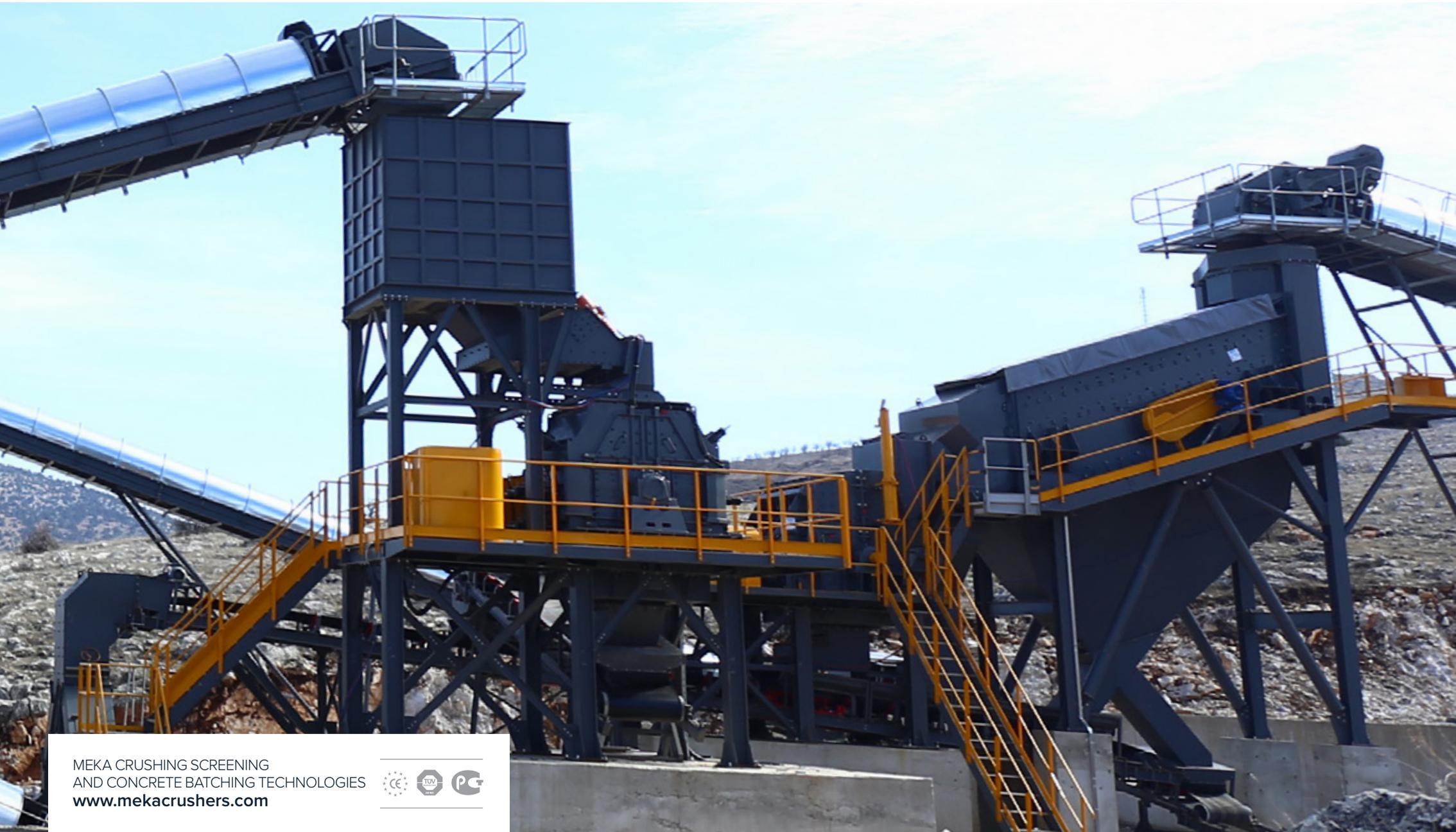


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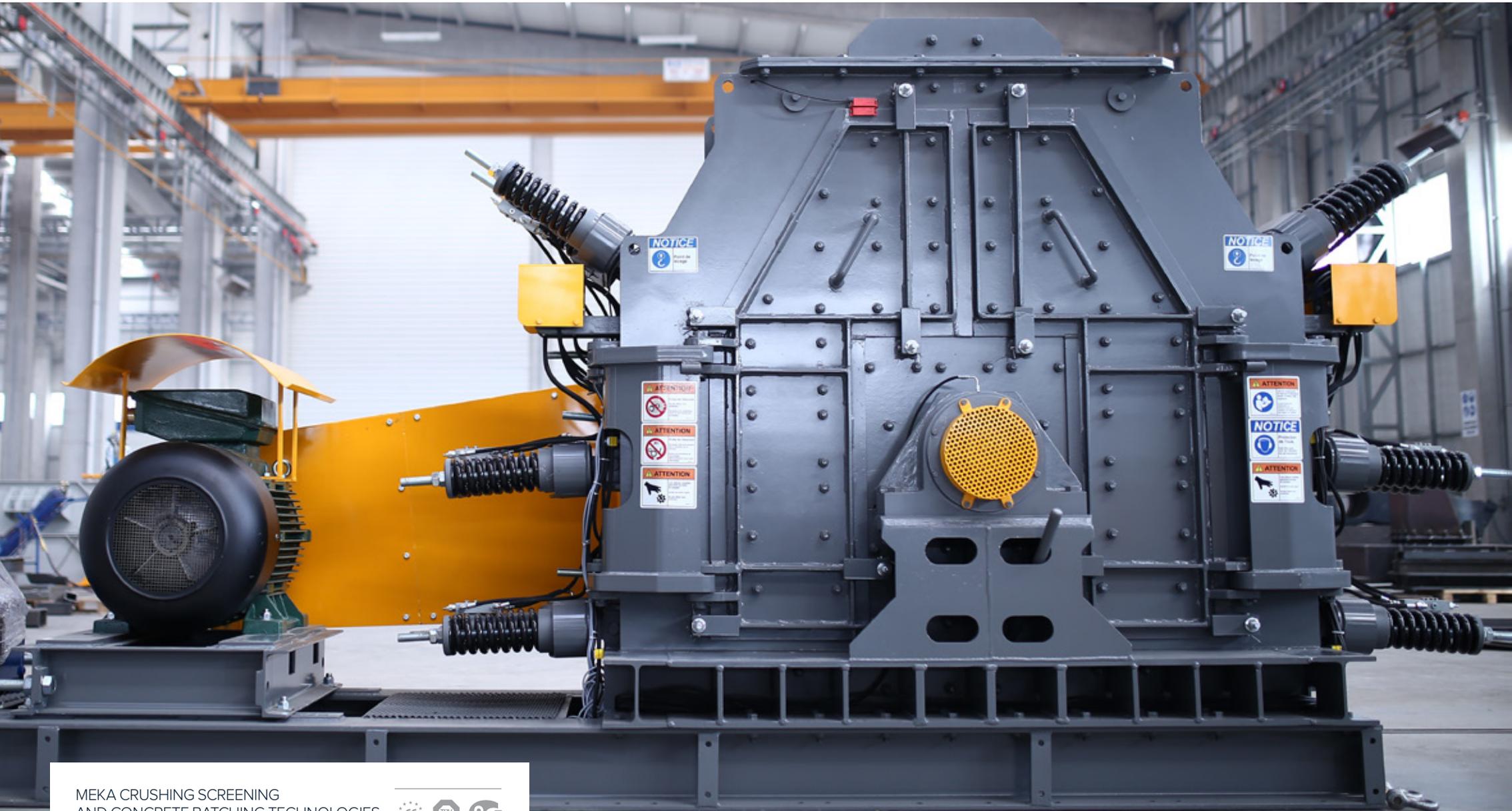


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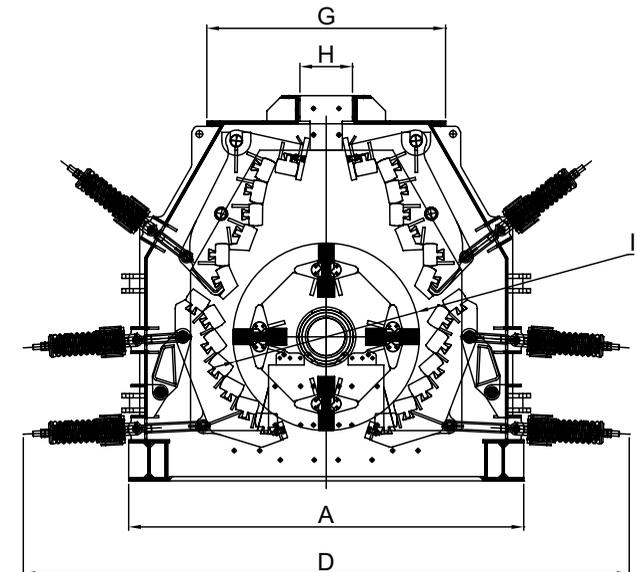
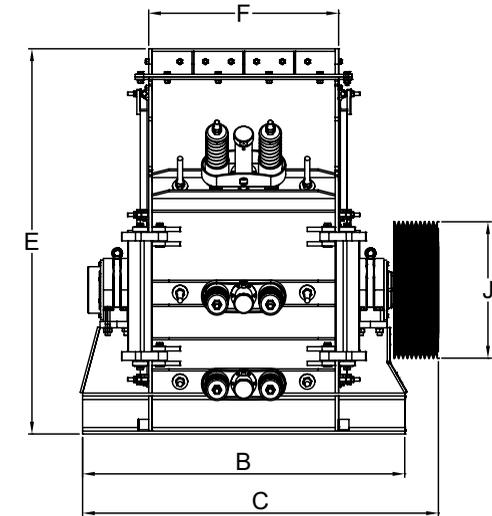
### CLEARANCE DIMENSIONS

Models	A	B	C	D	E	F	G	H	I
<b>MTI 1115</b>	2330 91 3/4	2500 98 3/8	2685 105 3/4	3574 140 3/4	2320 91 3/8	1620 63 3/4	1408 55 3/8	310 12 1/4	1100 43 1/4
<b>MTI 1110</b>	2330 91 3/4	1900 74 3/4	2099 82 5/8	3574 140 3/4	2260 89	1120 44 1/8	1408 55 3/8	310 12 1/4	1100 43 1/4
<b>MTI 1105</b>	2330 91 3/4	1210 47 5/8	1381 54 3/8	3574 140 3/4	2220 87 3/8	620 24 3/8	1408 55 3/8	310 12 1/4	1100 43 1/4

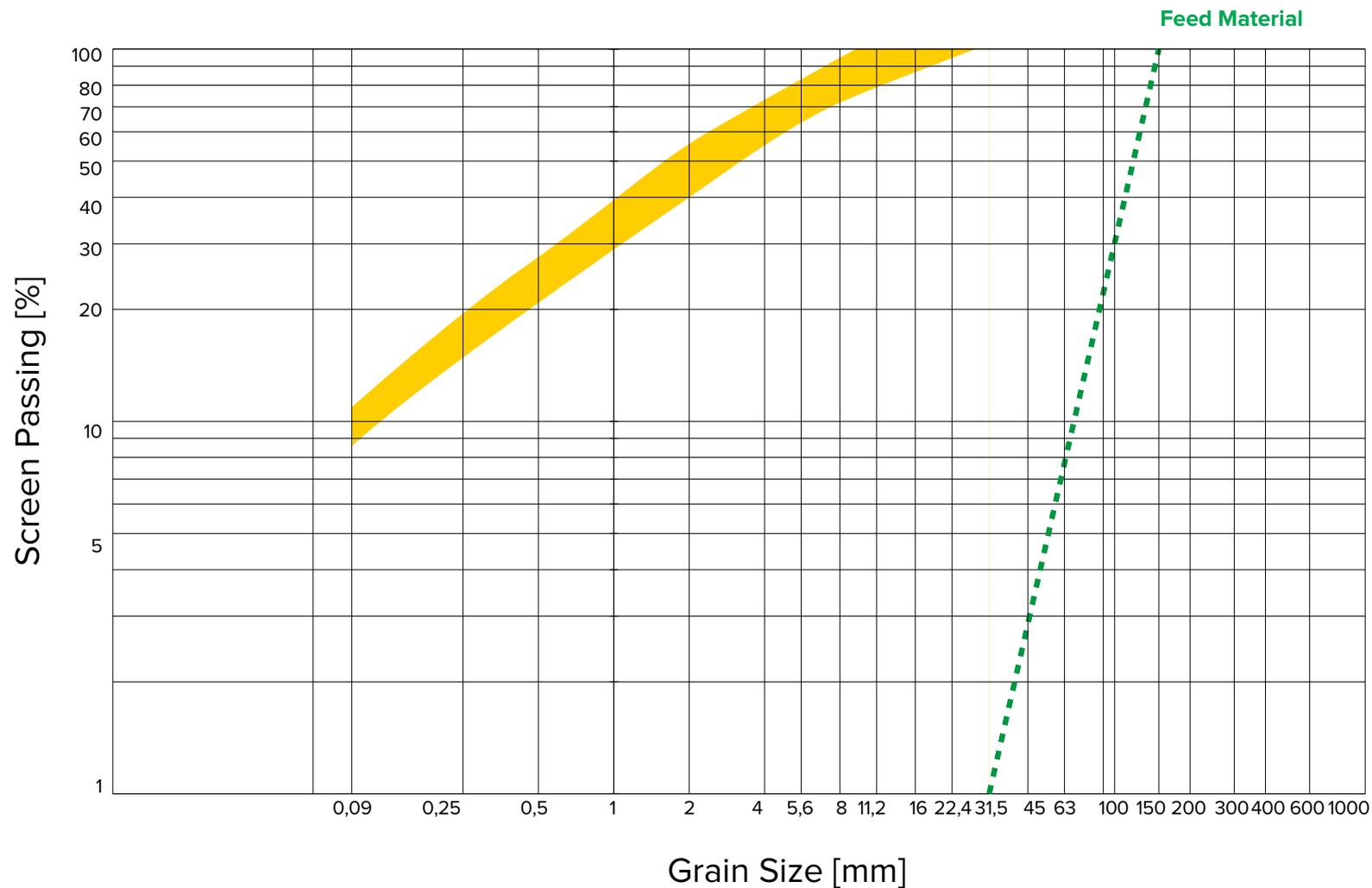
### TECHNICAL DATA

Models	Feed Opening	Maximum Feed Size	Power (kW/HP)	Capacity
<b>MTI 1115</b>	1520x200 mm 59 7/8" x 7 7/8"	150 mm 6"	315/428	280-320 mtph 310-350 stph
<b>MTI 1110</b>	1120x200 mm 40 1/8" x 7 7/8"	150 mm 6"	200/270 250/340	220-250 mtph 240-280 stph
<b>MTI 1105</b>	520x200 mm 20 1/2" x 7 7/8"	150 mm 6"	110/150	100-120 mtph 110-130 stph

Models	Rotor Diameter	Rotor Width	Body Weight	Rotor Weight
<b>MTI 1115</b>	1100 mm 43 1/4"	1500 mm 59"	22850 kg 50377 lbs	4150 kg 9149 lbs
<b>MTI 1110</b>	1100 mm 43 1/4"	1000 mm 39 3/8"	18750 kg 41336 lbs	3750 kg 8267 lbs
<b>MTI 1105</b>	1100 mm 43 1/4"	500 mm 19 5/8"	13500kg 29762 lbs	2150 kg 4740 lbs



### Production Curves



**Feed Material** : Limestone

**Speed** : 50 m/s

*The gradation and capacities shown are dependent on feed gradation, material density and its crushability.*

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## MTI SERIES TERTIARY IMPACT CRUSHERS



## 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. Today, 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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