

MEKA

MSI-MSIH SERIES IMPACT CRUSHERS

EFFICIENT SOLUTION FOR
CRUSHING SOFT, MEDIUM HARD
AND HARD MATERIALS

MEKA GLOBAL is reliable equipment manufacturer and supplier of spare parts and service to aggregate production, mining and associated crushing industries more than 90 countries.

www.mekaglobal.com



MEKA MSI-MSIH SERIES IMPACT CRUSHERS

With its comprehensive range of types MEKA offers the right machine for every performance requirement. MSI and MSIH series impactors are widely accepted as the machine of choice as secondary reduction units for materials of medium to low silica contents such as limestone, dolomitic limestone, dolomite and gypsum.

Large feed opening, cubical products, high reduction ratio, high capacity, low investment and operating costs are some of the features which make these crushers ideal as secondary crushers in complete crushing plants.

Ease of maintenance is another prime advantage of these crushers. Hydraulic opening of the frame, external breaker plate adjustment, quick and easy blow bar change-out and liner replacement are a few of the features which make operation as simple as possible.



MEKA SECONDARY IMPACT CRUSHERS

MEKA MSI Series Secondary Impact Crusher is ideally suited to crush soft to medium hard materials down to a highly cubical, well graded product size of 0-80 mm in a single pass. Although this crusher is normally offered within a plant where tertiary crushing is also present, due to its high reduction ratio, the need for tertiary crushing can be eliminated.

MEKA MSIH Series Secondary Impact Crusher is ideally suited to crush medium hard to hard materials. With their special design heavy duty frames, rotors and special shape of breaker bars, they have demonstrated their effectiveness in replacing cone crushers in many applications.

Stationary and mobile versions are available.

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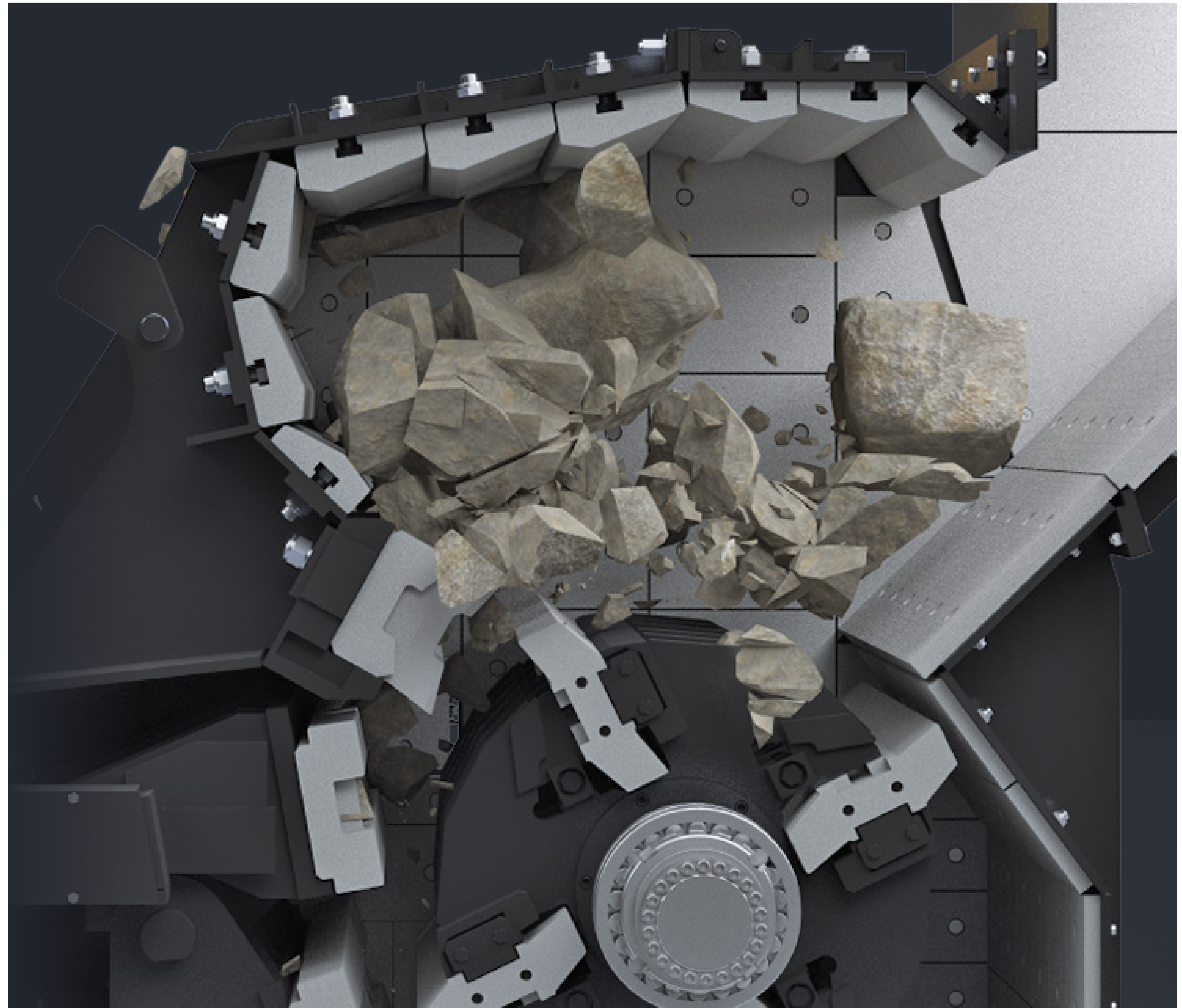


FEATURES AND BENEFITS

OF MEKA SECONDARY IMPACT CRUSHERS

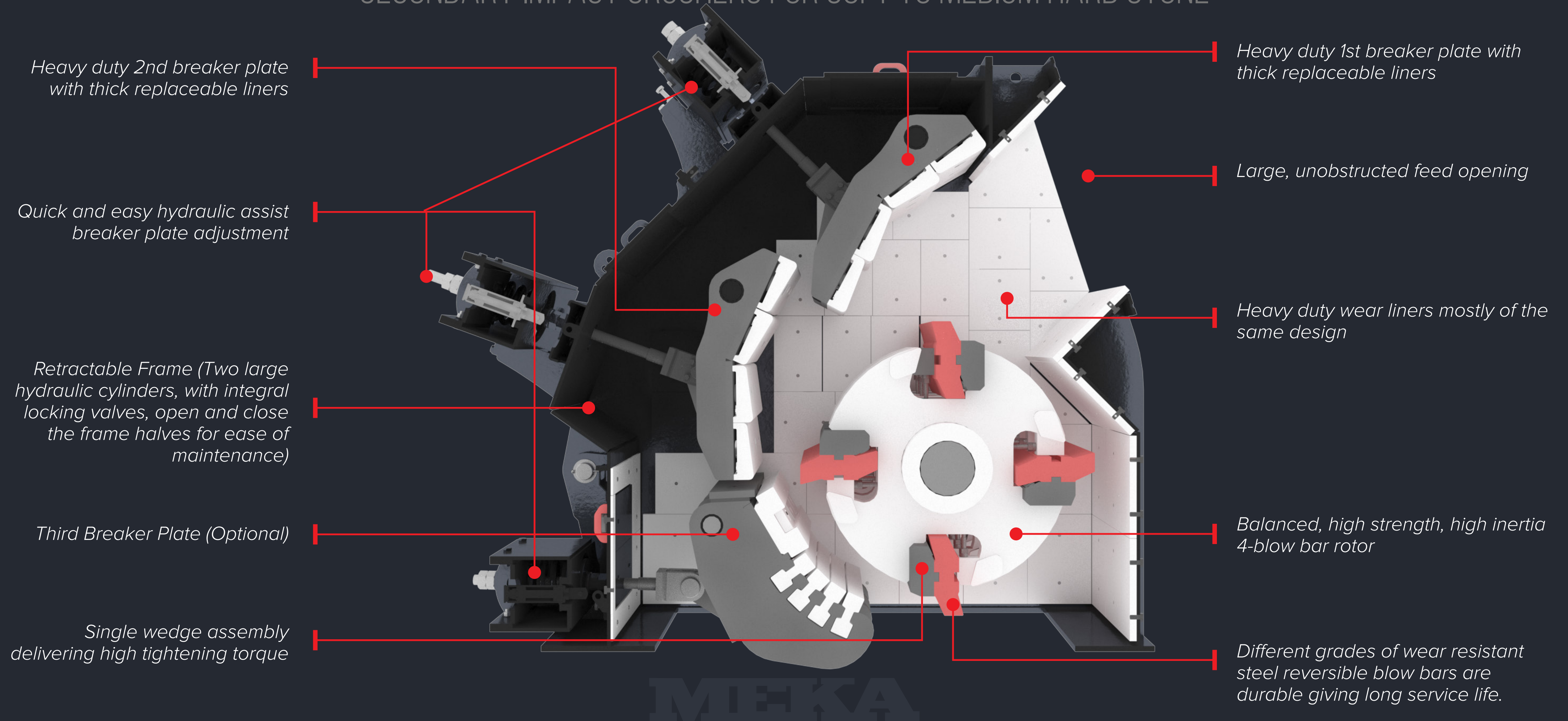
- High degree of crushing
- Selective crushing
- Better product quality and grain shape
- Higher cubicity
- Flexibility to meet varying demands
- Insensitive to larger feed materials
- Saving of up to 2 crushing stages
- Low space and energy requirements
- Low investment costs (in terms of service life)
- Easy maintenance due to simple design
- Low wear costs due to innovative wear materials – even in case of abrasive materials
- Perfect separation of concrete reinforcements in recycling processes

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BASIC FEATURES OF **MEKA MSI SERIES CRUSHERS**

SECONDARY IMPACT CRUSHERS FOR SOFT TO MEDIUM HARD STONE



MSI SERIES 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.





BENEFITS AND FEATURES OF MEKA MSI CRUSHERS

MSI SERIES 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.

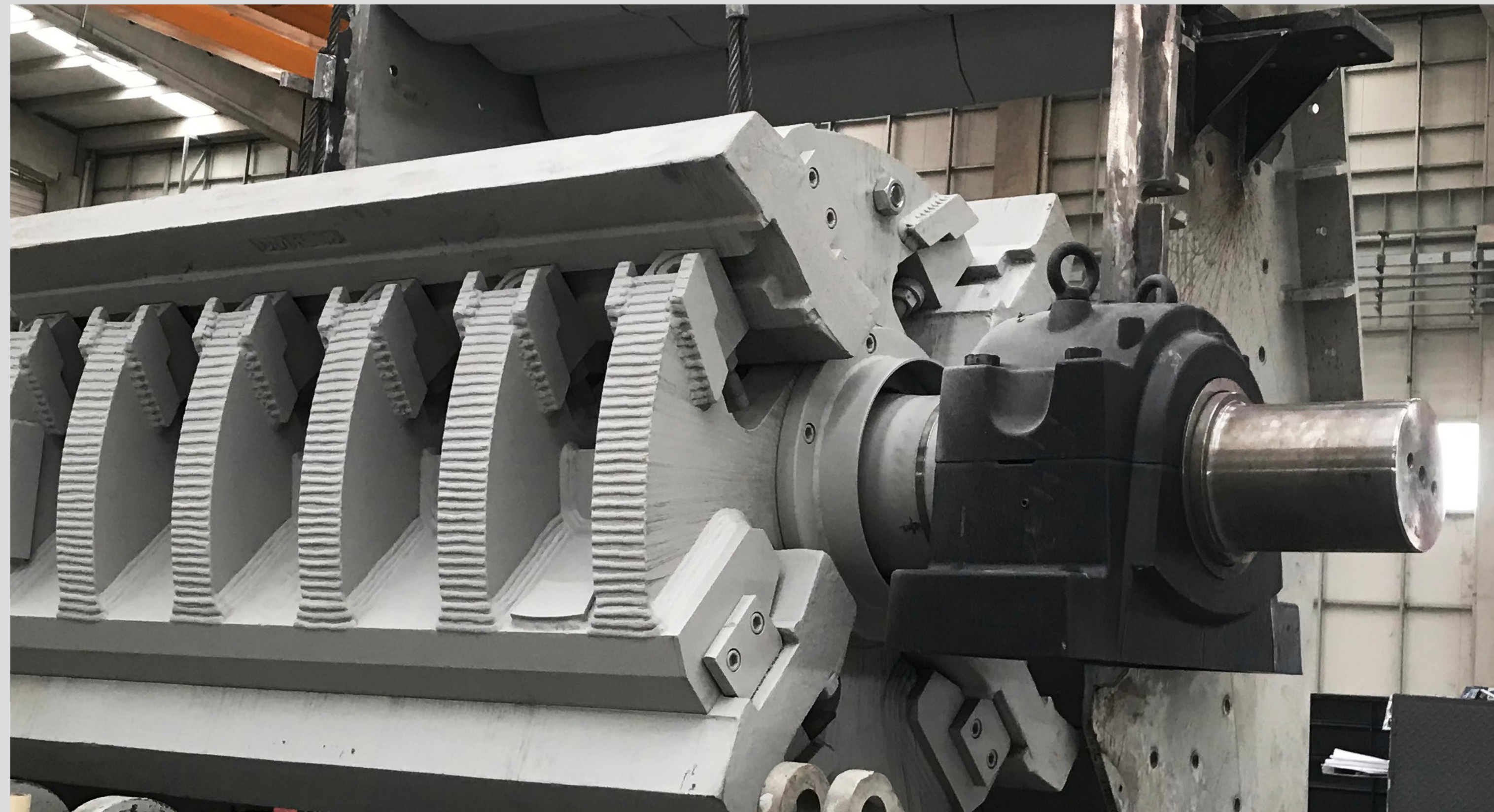
The rotor is of an open rotor design. This design ensures stable power consumption and combined with the ability to handle re-enforcing bar etc. in recycling applications.



MSI SERIES **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.



BENEFITS AND FEATURES OF MEKA MSI CRUSHERS

MSI SERIES 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.



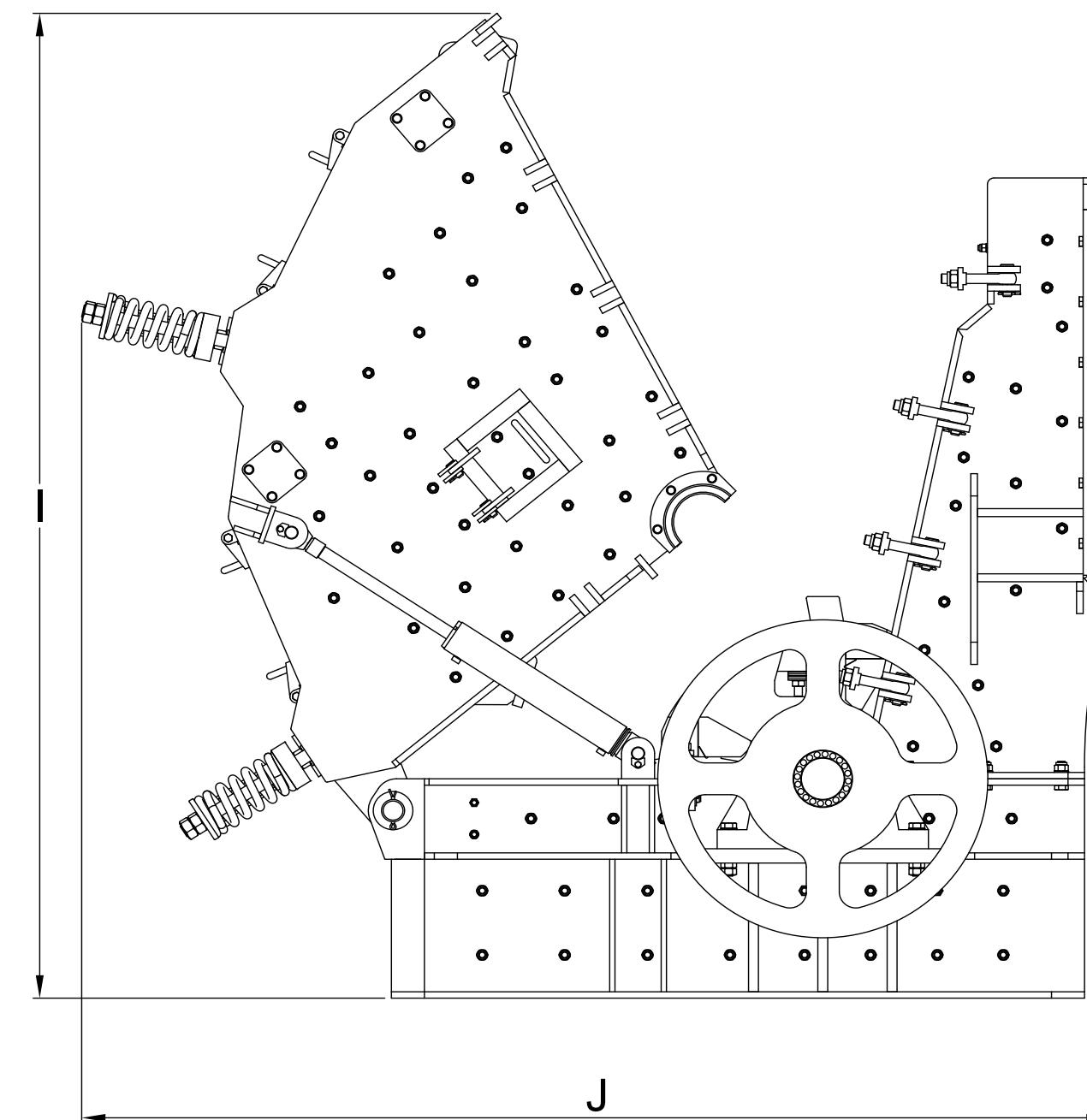
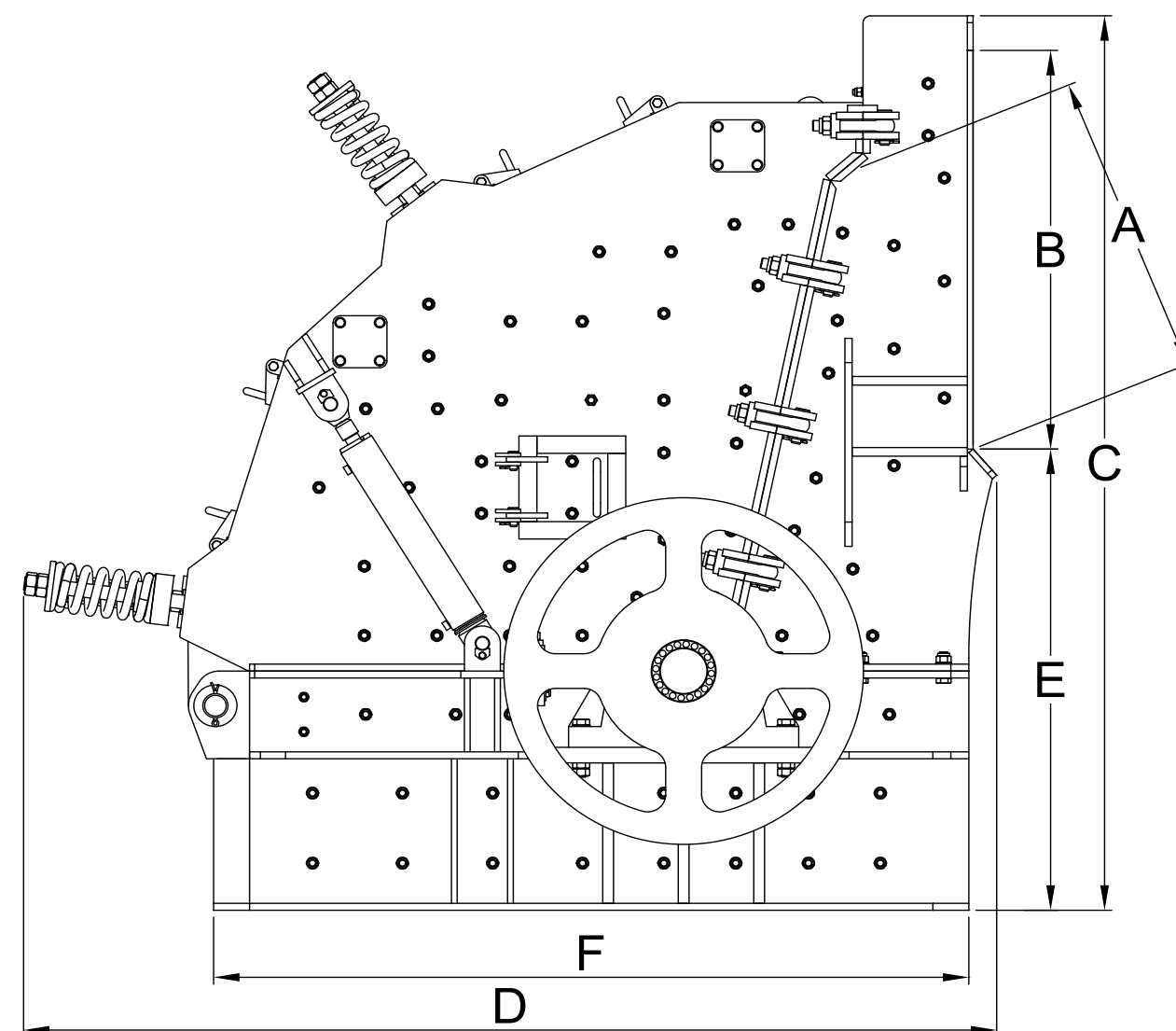
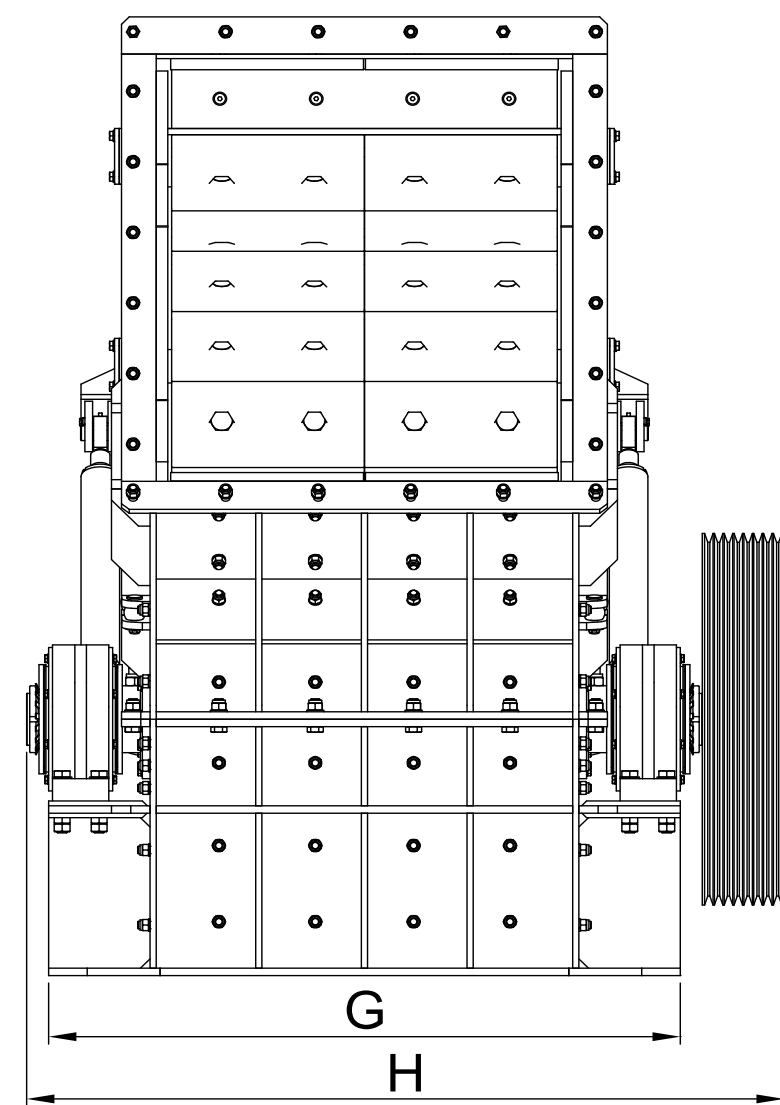
THIRD BREAKER PLATE (OPTIONAL)

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



MEKA MSI CRUSHERS CLEARANCE DIMENSIONS

| | | A | B | C | D | E | F | G | H | I | J |
|-----------------|------|--------|--------|---------|---------|--------|--------|--------|--------|---------|---------|
| MSI 1210 | mm | 870 | 1150 | 2580 | 2710 | 1330 | 2100 | 1638 | 1965 | 3098 | 3116 |
| | inch | 34 1/4 | 45 1/4 | 101 5/8 | 106 3/4 | 52 3/8 | 82 5/8 | 64 1/2 | 77 3/8 | 122 | 122 5/8 |
| MSI 1312 | mm | 910 | 1250 | 3140 | 3630 | 1720 | 2500 | 1840 | 2165 | 3230 | 3650 |
| | inch | 35 7/8 | 49 1/4 | 123 5/8 | 142 7/8 | 67 3/4 | 98 3/8 | 72 1/2 | 85 1/4 | 127 1/8 | 143 3/4 |
| MSI 1315 | mm | 910 | 1250 | 3140 | 3630 | 1720 | 2500 | 2150 | 2465 | 3230 | 3650 |
| | inch | 35 7/8 | 49 1/4 | 123 5/8 | 142 7/8 | 67 3/4 | 98 3/8 | 84 5/8 | 97 | 127 1/8 | 143 3/4 |



MEKA MSI CRUSHERS SPECIFICATIONS

MSI SERIES

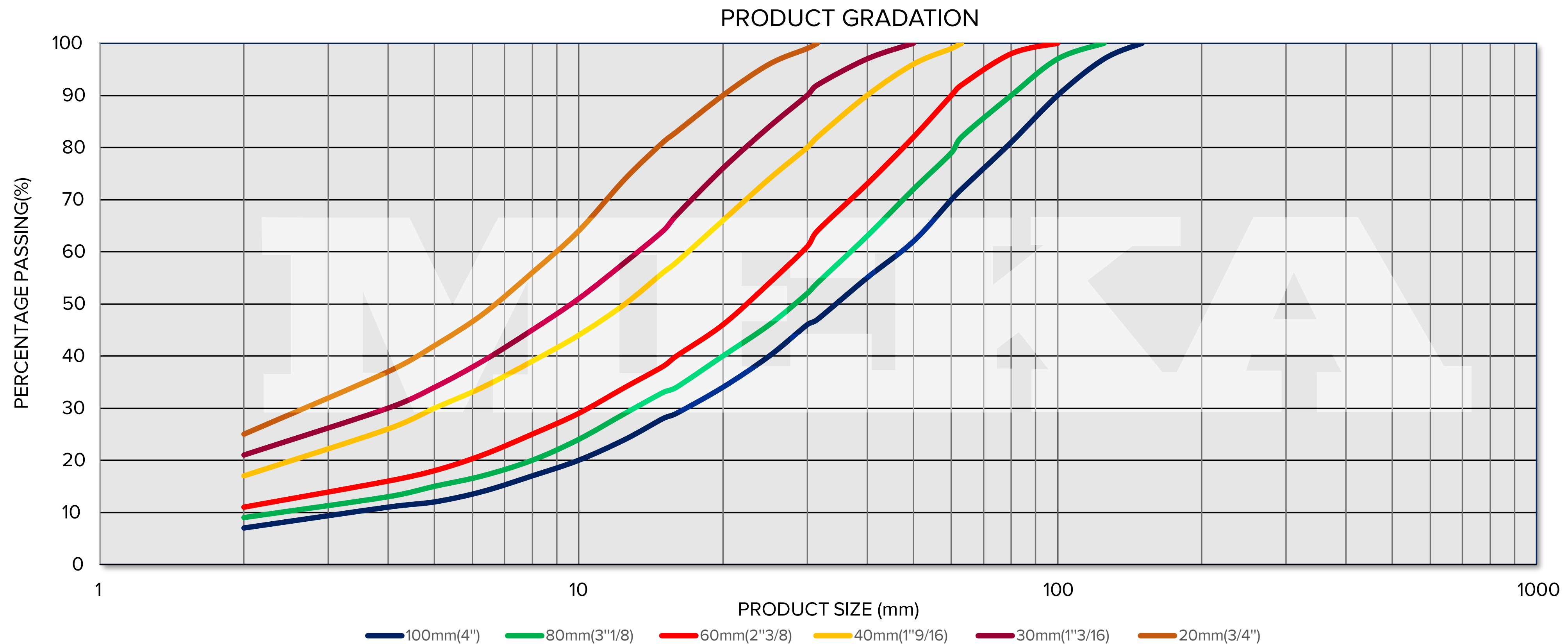
MSI 1210 MSI 1312 MSI 1315

| | | | | |
|-------------------|------|---------|---------|---------|
| Rotor Diameter | mm | 1200 | 1300 | 1300 |
| | inch | 48 | 51.2 | 51.2 |
| Rotor Width | mm | 1000 | 1200 | 1500 |
| | inch | 40 | 48 | 59 |
| Maximum Feed Size | mm | 250 | 350 | 350 |
| | inch | 10 | 14 | 14 |
| Capacity | mtph | 100-150 | 150-250 | 250-350 |
| | stph | 110-165 | 165-275 | 275-385 |
| Power | kW | 132-160 | 200 | 250-315 |
| | HP | 180-215 | 270 | 340-428 |
| Weight | kg | 17500 | 23000 | 25000 |
| | lbs | 38600 | 50700 | 55100 |

>> Results may vary depending on feed material gradation, density, moisture content, friability and crushing application.



MEKA MSI CRUSHERS PRODUCT GRADATION TABLE



These product curves are to be used as a guide only. Crusher product is dependant on feed material properties. Please consult MEKA for advice on product gradations for specific feed materials.

BENEFITS AND FEATURES OF MEKA MSI CRUSHERS

MSIH CRUSHERS

MEKA secondary impact crushers of type MSIH are the economical alternative to cone crushers for hard stone up to a feeding size of 350 mm. This is successfully demonstrated day after day by a multitude of crushers of type MSIH.

The main differences to the MSI impact crushers;

- Special heavy-duty design of frame, rotor and breaker bars,
- Special shape and arrangement of breaker bars,
- No need for third breaker plate

Every company in the crushing and recycling sector that uses a MSIH crusher profits from an increased material throughput and a higher percentage yield of the desired product. By reaching the target volume quicker, fewer resources are needed.

MSIH crusher owes its success to the extraordinary efficiency and outstanding flexibility of the feed material and the final product. MSIH crushers are suitable for all kinds of raw mineral materials with varying degrees of hardness, from soft and brittle materials to hard rock and iron-free recycling material.



BASIC FEATURES OF **MEKA** MSIH SERIES CRUSHERS

SECONDARY IMPACT CRUSHERS FOR HARD STONE

The thickness and the quality of the breaker plates assures maximum wear life.

Simple and easy breaker bar adjustment assures absolute gap settings using a minimum of components.

High Quality wear resistant cast alloy breaker bars

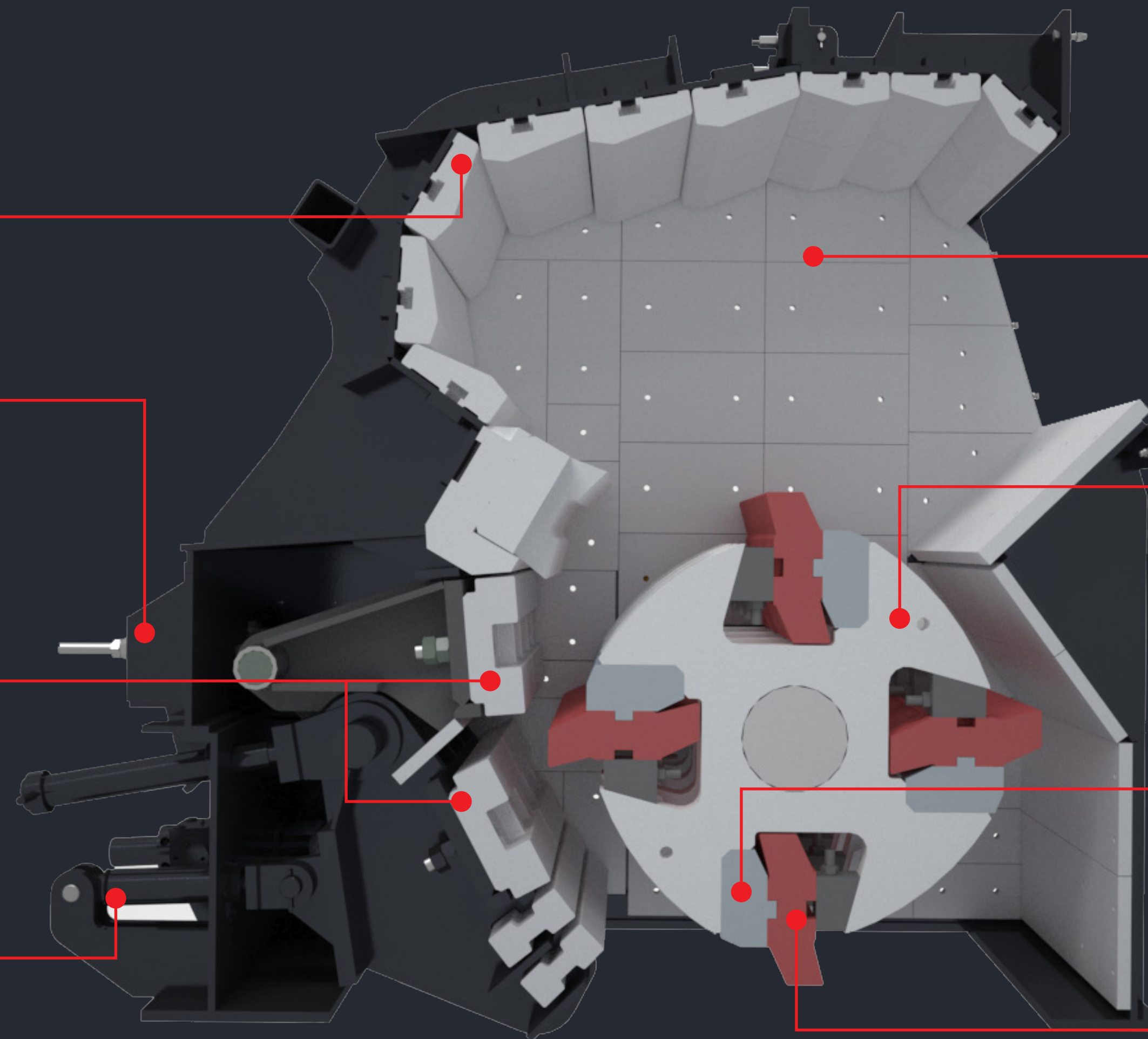
Simple and easy breaker bar adjustment assures absolute gap settings using a minimum of components.

Frame side liners are interchangeable for maximum parts utilization and available in a metallurgy to suit different crushing needs.

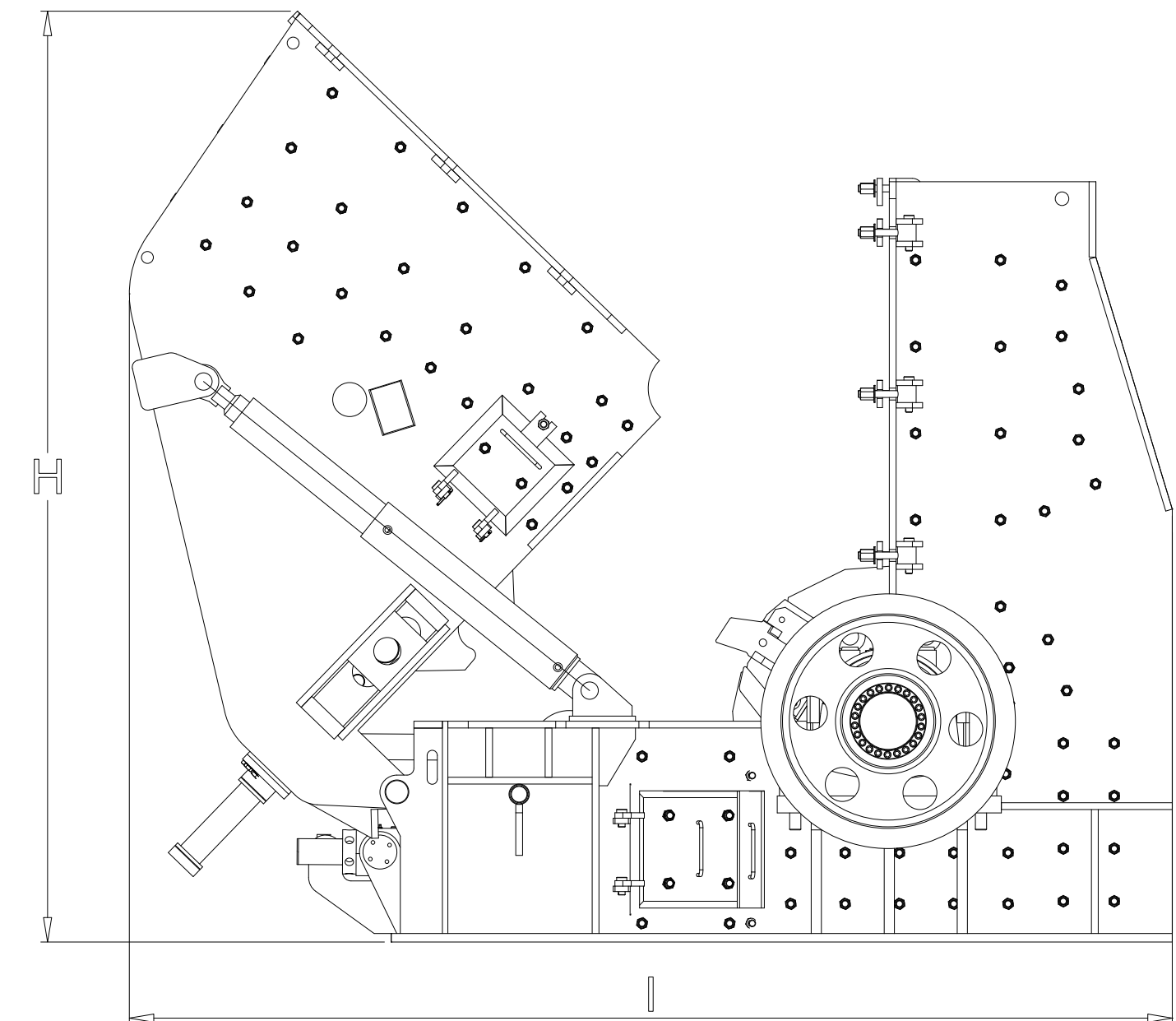
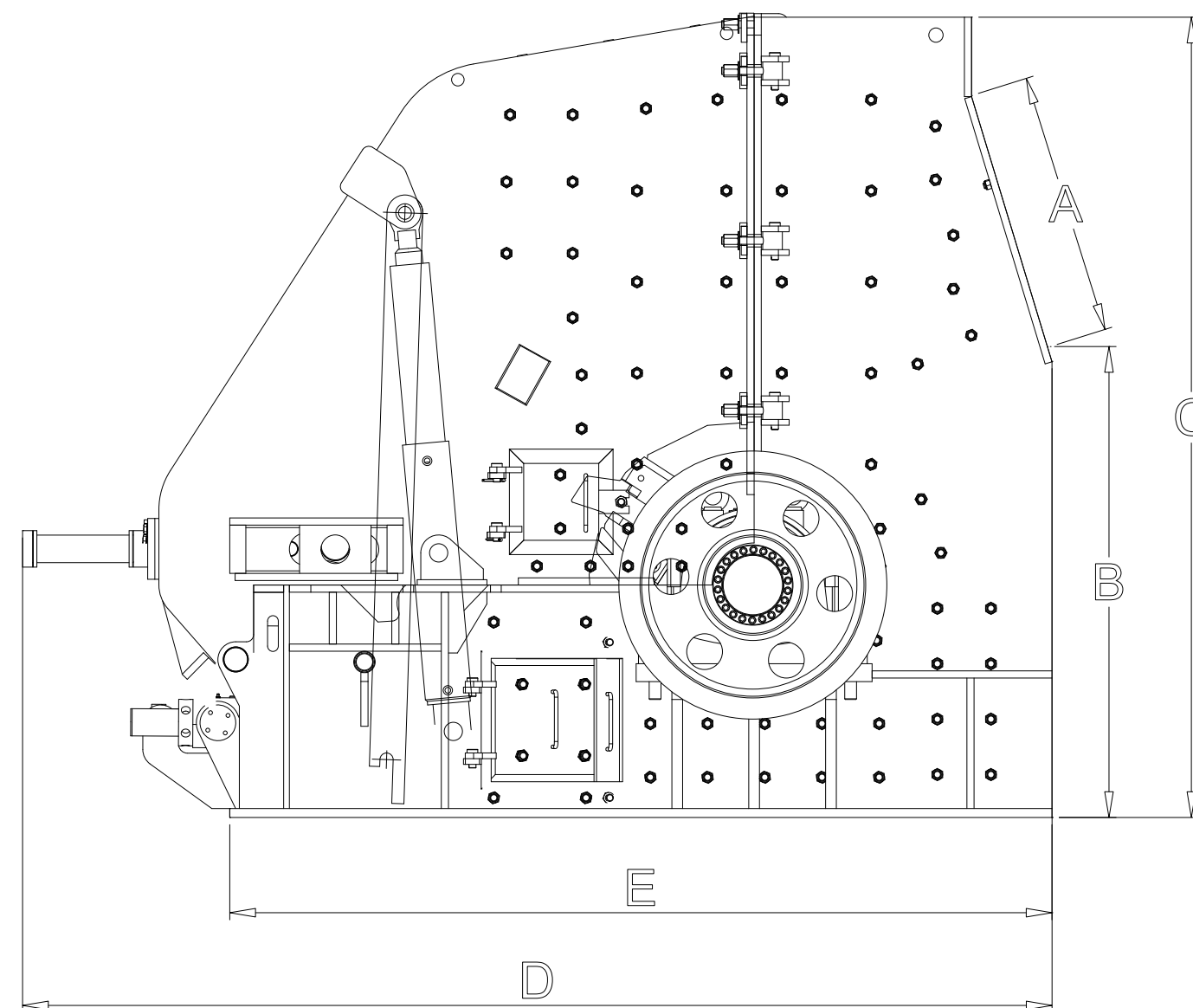
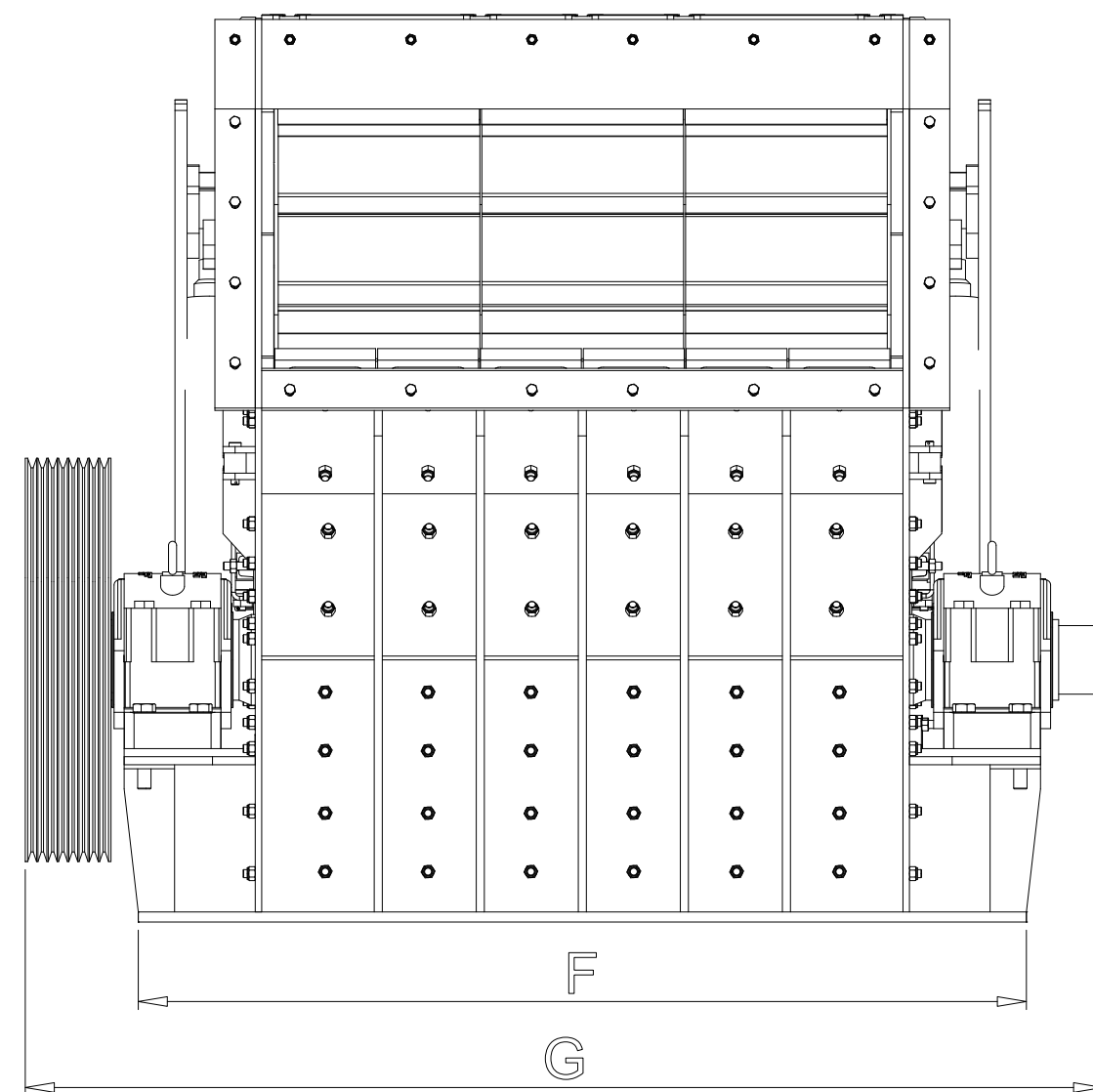
Dynamically balanced rotor delivers both high inertia for optimum crushing performance and solid backing support for the blow bars.

Blow bars are perfectly aligned on rotor contact faces with a wedge locking assembly delivering high tightening torque

Different grades of wear resistant steel reversible blow bars are durable giving long service life.



MEKA



MEKA MSIH CRUSHERS CLEARANCE DIMENSIONS

MSIH 1110

| | A | B | C | D | E | F | G | H | I |
|------|--------|--------|--------|---------|--------|--------|------|---------|------|
| mm | 675 | 1370 | 2230 | 2670 | 2300 | 1640 | 2135 | 2740 | 3100 |
| inch | 26 5/8 | 53 7/8 | 87 3/4 | 105 1/8 | 90 1/2 | 64 5/8 | 84 | 107 7/8 | 122 |

MSIH 1112

| | | | | | | | | | |
|------|--------|--------|--------|---------|--------|--------|--------|---------|------|
| mm | 675 | 1370 | 2330 | 2670 | 2300 | 1890 | 2385 | 2740 | 3100 |
| inch | 26 5/8 | 53 7/8 | 87 3/4 | 105 1/8 | 90 1/2 | 74 3/8 | 93 7/8 | 107 7/8 | 122 |

MSIH 1115

| | | | | | | | | | |
|------|--------|--------|--------|---------|--------|--------|---------|---------|------|
| mm | 675 | 1370 | 2330 | 2670 | 2300 | 2140 | 2635 | 2740 | 3100 |
| inch | 26 5/8 | 53 7/8 | 87 3/4 | 105 1/8 | 90 1/2 | 84 1/4 | 103 3/4 | 107 7/8 | 122 |

MSIH 1415

| | | | | | | | | | |
|------|--------|--------|------|---------|---------|--------|---------|---------|---------|
| mm | 1273 | 1705 | 3225 | 3501 | 2900 | 2190 | 2935 | 3826 | 3686 |
| inch | 50 1/8 | 67 1/8 | 127 | 137 7/8 | 114 1/8 | 86 1/4 | 115 1/2 | 150 5/8 | 145 1/8 |

MEKA MSIH CRUSHERS SPECIFICATIONS

MSIH SERIES

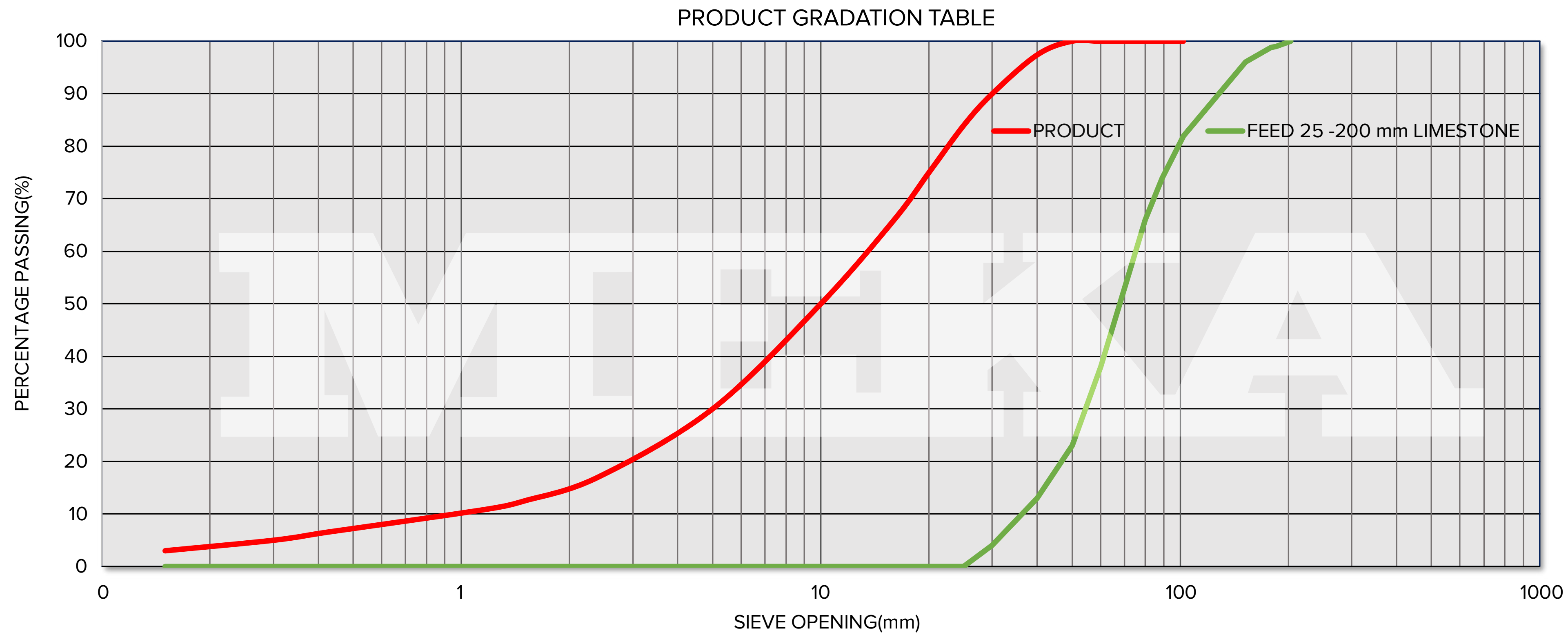
MSIH 1110MSIH 1112MSIH 1115MSIH 1415

| | | | | | |
|-------------------|------|---------|---------|---------|---------|
| Rotor Diameter | mm | 1120 | 1120 | 1120 | 1400 |
| | inch | 44 | 44 | 44 | 55 |
| Rotor Width | mm | 1000 | 1200 | 1500 | 1500 |
| | inch | 40 | 48 | 59 | 59 |
| Maximum Feed Size | mm | 300 | 300 | 300 | 350 |
| | inch | 12 | 12 | 12 | 14 |
| Capacity | mtph | 130-200 | 170-250 | 250-350 | 350-450 |
| | stph | 145-220 | 190-275 | 275-385 | 385-495 |
| Power | kW | 160 | 200 | 250-315 | 400 |
| | HP | 215 | 270 | 340-428 | 540 |
| Weight | kg | 20500 | 22500 | 27000 | 32000 |
| | lbs | 45200 | 49600 | 59500 | 70600 |

>> Results may vary depending on feed material gradation, density, moisture content, friability and crushing application.



MEKA MSIH CRUSHERS PRODUCT GRADATION TABLE



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WHO IS MEKA?

THE CHOICE OF PROFESSIONALS IN THE AGGREGATE PRODUCTION,
READY-MIX CONCRETE AND MINING INDUSTRIES



ESTABLISHED IN 1987

We have over 33 years of experience
and the passion of the first day.

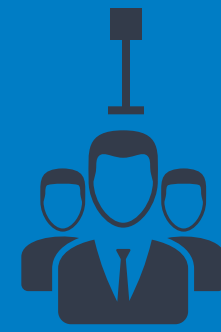


focused on manufacturing of
**CONCRETE PLANTS AND
CRUSHING & SCREENING
EQUIPMENT**



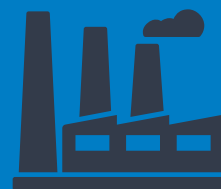
MANUFACTURING CAPACITY

600 Crushing Screening Equipment
200 Concrete Batching Plant / year



EXPERT ENGINEERING

Highly experienced engineers
within Meka work to design
machines that are
the most suitable
for our clients' needs.



MANUFACTURING FACILITIES

4 technological facilities
provide a total production area
of 75.000 m².

- 5.000 m² closed area in Ostim -ANKARA
- 18.000 m² in Temelli1 -ANKARA
- 22.000 m² in Temelli2 -ANKARA
- 30.000 m² in Eskişehir



WE PROVIDE A COMPLETE SCOPE OF SERVICES SUCH AS

- identifying customer's needs,
- project planning,
- design,
- engineering,
- manufacturing,
- quality control, commissioning,
- personnel training and
- after-sales support.

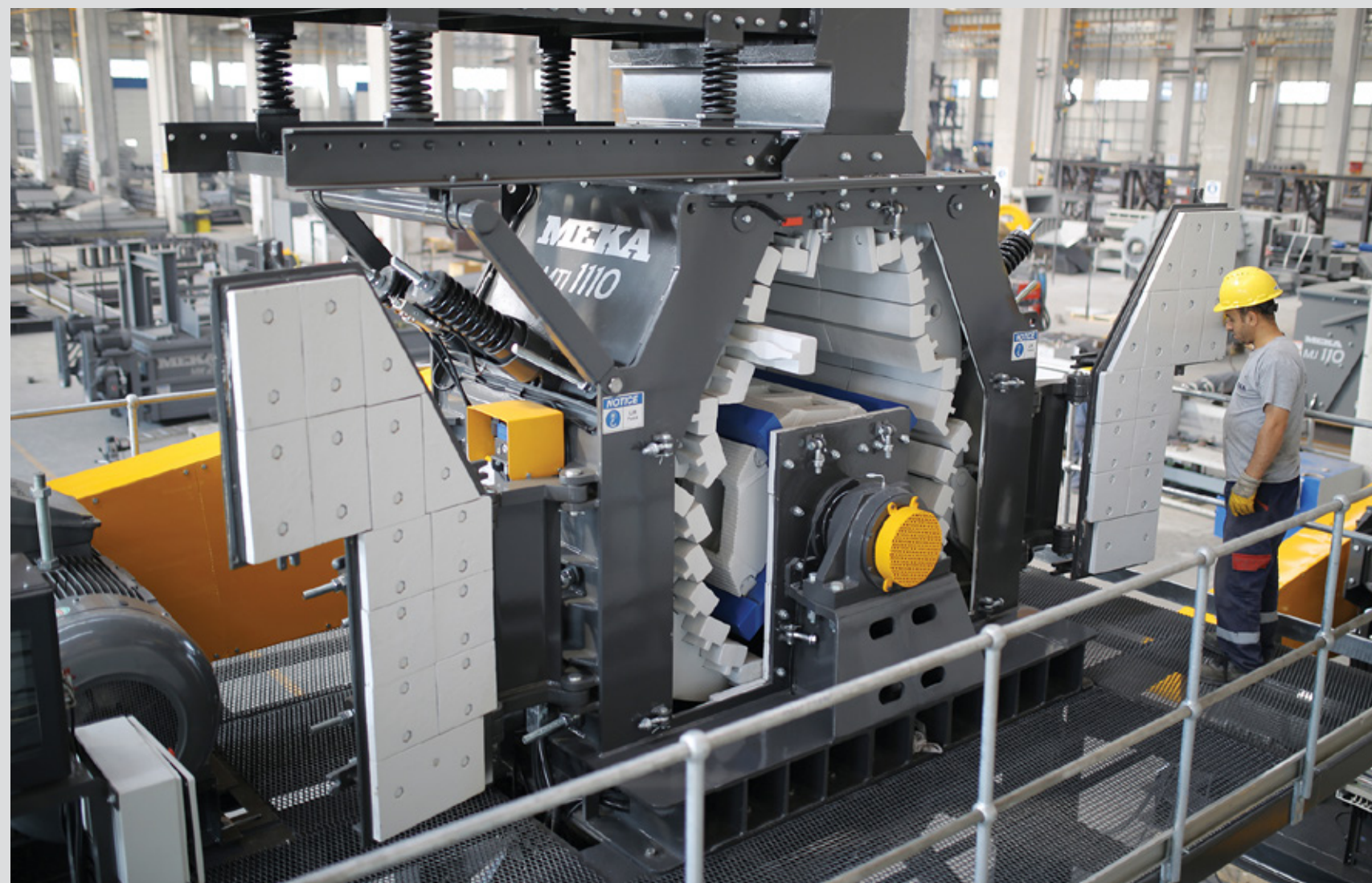


SERVICE STAYS FOREVER

MEKA supervisors are ready
to be on your site within the
shortest possible time.

MEKA

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MEKA Global is a prominent manufacturer of crushing&screening and wet processing equipment and engineering solutions to aggregate production, mining, cement and ready mix concrete industries all over the World.

We are based in Ankara (Turkey) and currently we are providing industrial services and products to customers in more than 80 countries including USA, Russia, Chile, England, Poland, Estonia, Romania, Bulgaria, Serbia, Kosovo, Bahrain, Kuwait, Qatar, UAE, Oman, Lebanon, Iraq, Iran, Jordan, Syria, Saudi Arabia, Yemen, Algeria, Sudan, Morocco, Bangladesh, Cameroon, Libya, Burkina Faso, Uganda, Nigeria, Ethiopia, Kazakhstan, Ukraine, Georgia, France, Tajikistan, Azerbaijan, Austria, Afghanistan etc

Experienced MEKA engineering team with excellent engineering background provide cost-effective and efficient products and solutions to our customers.

MEKA Global also manufacturing and supply spare parts including jaws, concaves, mantles, blow bars, piano wires, punch plate, mesh, polyurethane mats, springs, couplings, bearings, filters, rollers, hydraulic pumps/motors, gearboxes, valves, wear parts, engine parts, cushion and skirting rubber to suit a whole range of other OEM crushers and screeners.

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MEKA PROVIDES QUALITY SPARE PARTS AND
EXCELLENCE SERVICE FOR CONTINUOUS PRODUCTION
AND PERFORMANCE



JUST IN TIME

As we are aware that our customers are in need of non-stop production anytime and anywhere, we not only deliver quality parts for continuous performance but also maintain a sales network entire world. As a result, you can always rely on MEKA Global.

MEKA can deliver the spare parts in crushing&screening, cement and mining industries including electrical, mechanical and electronic components, anywhere in the world and just in time in a very short deliver time.



MEKA

THE CHOICE OF PROFESSIONALS
IN THE AGGREGATE PRODUCTION,
READY-MIX CONCRETE AND MINING INDUSTRIES

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