

MVI-G SERIES

# VERTICAL SHAFT IMPACT CRUSHERS

G MODEL



**FOR THE TOUGHEST WORKING CONDITIONS**

› DURABLE      › RELIABLE      › EFFICIENT

**MEKA**  
www.mekaglobal.com

# EXCEPTIONAL MINERAL ENRICHMENT CAPABILITIES

MEKA MVI-G Series Vertical Shaft Impact Crushers are designed for use in the final stages of the crushing process. Offering a high-performance solution in stationary, compact or mobile units, vertical shaft crushers provide a versatile solution for the production of homogeneously shaped aggregates and sand, as well as industrial minerals.

Vertical shaft impact crushers are a type of crusher used in the final crushing stage, accelerating the material fed into the rotor and throwing it towards a crushing chamber. Configuration options include closed rotor and rock shelf (ROR) and closed rotor and anvil rings (ROS). The ROR type vertical shaft impact crusher is used for rock crushing to meet the specifications required for concrete and asphalt and is effective in sand and aggregate production. The ROS type vertical shaft impact crusher is preferred for rock crushing for less abrasive materials.

The rock shelf design created in the crushing chamber reduces operating costs. This crushing principle minimizes metallic wear, leading to low maintenance and wear costs. Low wear on internal components ensures extremely low contamination of final products by wear of metal parts. In the ROS models, a higher rate of fine material production is achieved thanks to the anvil rings. This model is suitable for soft and less abrasive materials and has a high reduction ratio.

The adjustable cascade provides control over the final product gradation. The cascade feed system introduces a second material stream into the crushing chamber turbulence in a controlled manner, offering a more efficient crushing process. Depending on the aggregate types and required properties, this crusher can be operated in open or closed circuit after the cone crusher. It can accept up to 50 mm feed size, but this feed size can vary depending on the type of material to be crushed.



# READY FOR THE HEAVIEST WORKLOADS WITH EVERY DETAIL

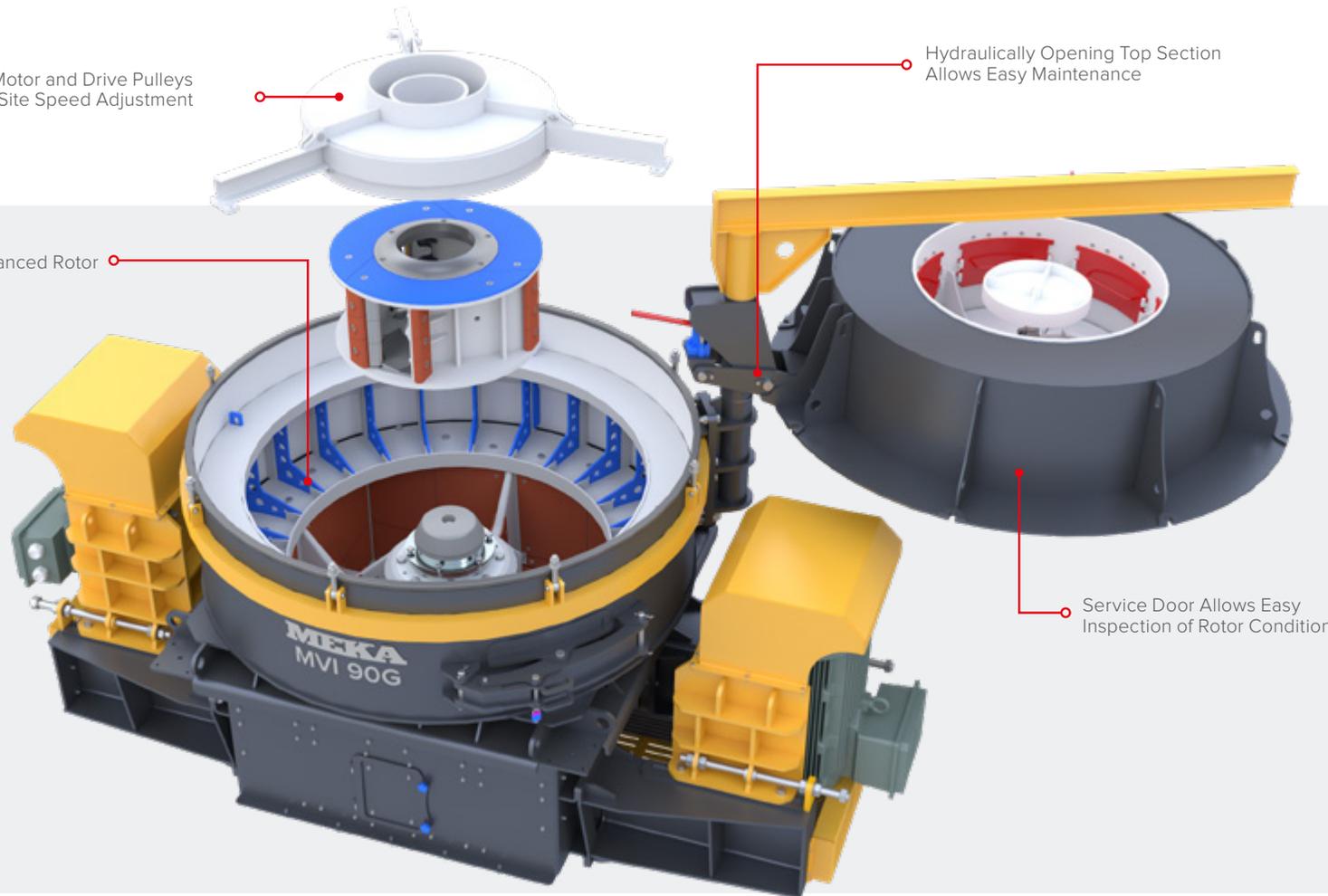
**MEKA**  
MVI-G SERIES  
VERTICAL SHAFT IMPACT CRUSHERS  
G MODEL

Interchangeable Motor and Drive Pulleys  
Allow On-Site Speed Adjustment

Hydraulically Opening Top Section  
Allows Easy Maintenance

Dynamically Balanced Rotor

Service Door Allows Easy  
Inspection of Rotor Condition



# WHY MEKA VSI CRUSHER?

## FLEXIBLE CRUSHING CHAMBER OPTIONS

2 crushing chambers are available;

### CLOSED ROTOR AND ROCK SHELF ROCK ON ROCK (ROR)

Recommended when crushing the most abrasive materials, such as basalt, granite for feed sizes up to 50mm.

Produces the best shaped and most consistent material with the lowest wear cost.

### CLOSED ROTOR AND ANVIL RING ROCK ON STEEL (ROS)

Recommended for low and medium abrasive materials such as gravel, limestone, dolomite for feed sizes up to 50mm. Combines the grinding action of the rotor with the high efficiency reduction of anvil resulting in cubical and high quality products in medium abrasive materials.

## IMPROVED EFFICIENCY AND THROUGHPUT

Adjustable cascade ports allow operator to control cascade flow which leads to improved crusher efficiency and increased throughput, giving the operator more value for money by providing more inter-particle action where it is needed most - in the crushing chamber. This also has the effect of changing the product curve and product shape if increased amounts of cascade are used.

## USER FRIENDLY

Designed with ease of installation in mind. Assembly, installation and commissioning can be achieved by two people in 2-3 days. Foundation requirements are minimal due to the light weight of the machine and the

minimal dynamic forces when in operation.

Roof lifter gives rapid access to the inside of the crusher meaning minimum time is required to carry out servicing and maintenance tasks. This allows for rapid rotor and wear part changes and minimises down time while maximising availability. The simple and reliable design of the roof lifter means only one person is required for operation and can eliminate the requirement for an external crane.

## EASE OF OPERATION AND MAINTENANCE

- \* Quick access through inspection and service door allows insitu parts replacement,
- \* Large feed hopper gives room for staff to work in when servicing the crusher,
- \* Simple feed tube replacement with automatic realignment after crusher servicing and rotor replacement,
- \* Adjustable spreader plate angle and height controls the flow of feed.



# TECHNICAL SPECIFICATIONS



## SPECIFICATIONS

		MVI 90G (ROR SD)	MVI 90G (ROR DD)	MVI 90G (ROS SD)	MVI 90G (ROS DD)	MVI 70G (ROR SD)	MVI 70G (ROR DD)	MVI 70G (ROS SD)	MVI 70G (ROS DD)
		<b>Maximum Feed Size</b>	mm	50	50	50	50	35	35
	inch	2	2	2	2	1 3/8	1 3/8	1 3/8	1 3/8
<b>*Capacity</b>	mtph	200	300	200	300	120	160	120	160
	stph	220	300	220	330	130	175	130	175
<b>Power</b>	kW	200 - 250	2 x 110 - 200	200 - 250	2 x 110 - 200	110 - 160	2 x 110	110 - 160	2 x 110
	HP	275 - 340	2 x 150 - 275	275 - 340	2 x 150 - 275	150 - 220	2 x 150	2 x 150 - 220	2 x 220
<b>Speed</b>	rpm	1400 - 1800	1400 - 1800	1400 - 1800	1400 - 1800	1500 - 2100	1500 - 2100	1500 - 2100	1500 - 2100
<b>**Weight</b>	kg	8600	9400	10990	11800	4900	5550	6300	6950
	lbs	18960	20723	24228	26014	10802	12236	13889	15322

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

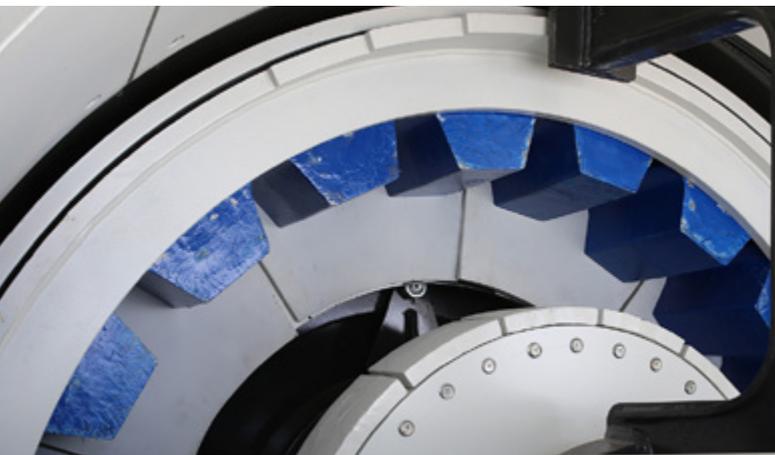
Capacity values are indicative only, crusher performance may vary depending on the feed gradation, feed moisture content, crushability of the material, crusher rpm, installed power and the crushing circuit design.

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

**MEKA**

MVI-G SERIES  
VERTICAL SHAFT IMPACT CRUSHERS  
G MODEL

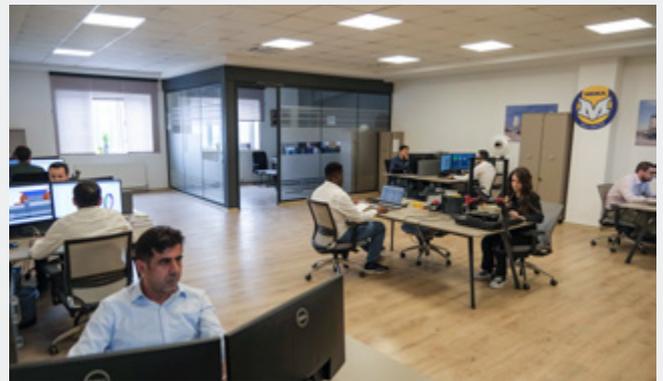
TRUSTED BRAND  
IN MORE THAN  
38 YEARS



# 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



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