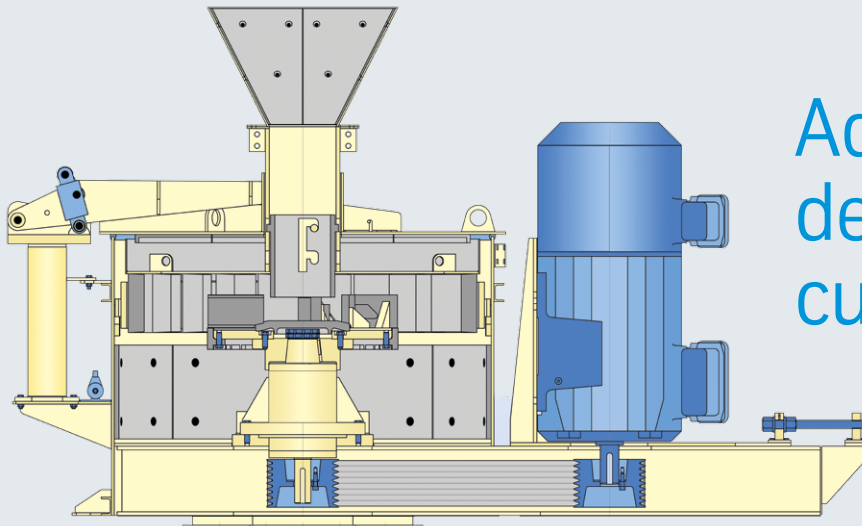




# Vertical Shaft Impactor – MULTIROK® 9



Advanced design for a cubical product

## Proven quality – great flexibility – easy operation

thyssenkrupp's VSI MULTIROK® is used in the last crushing stage for producing chippings and sands with high portions of cubical product. Feed material drops onto the rotor and gets thrown against the side wall of the crushing chamber breaking into cubical product. The side wall can be fitted with an anvil ring or a material bed depending on the customer's requirement. For the rotor the customer has the choice between the open rotor and the closed rotor.

## Features

### Best cubic shape of product

Constant outlet curve of crushed material during complete life cycle of the wear parts

### High rotation speeds with high throughput

### Highly versatile crusher

- Optimal applicability for medium hard rock
- Optional variable frequency drive makes frequent changes of the end product easy and simple

### Rotor

- Two types of rotors available
  - Open rotor: Non abrasive material
  - Closed rotor: Abrasive rock
- Pedestal assembly uses heavy duty spherical roller bearings lubricated by a full flow filter protected system
- Well balanced rotor with easy to exchange carbide tips
- Minimum wear rate by utilizing high alloyed steel

### Crushing chamber

- Walls can be equipped with:
  - Material bed for autogenous crushing with less wear cost
  - Anvils for optimal cubical shaping
- Wear protection plates inside the crushing chamber

### Compact design resulting in a low overall height

- Suitable for easy integration into existing plants

### Housing and base frame

- Enduring housing thanks to rugged design
- Base frame carrying rotor, housing and motor

### Monitoring devices

- Condition monitoring by vibration sensors

### Hydraulically lifted crusher lid

- Guarantees easy access to all wear parts

### Drive

- Space saving upside down arrangement of the motor



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## Technical Specification

### General data

Materials:	Medium to hard rock, limestone, dolomite, basalt, granite	
Capacity	– open rotor:	200 – 300 t/h
	– closed rotor:	150 – 220 t/h
Max. product size:	0 – 63 mm	
Min. product size:	0 – 4 mm	

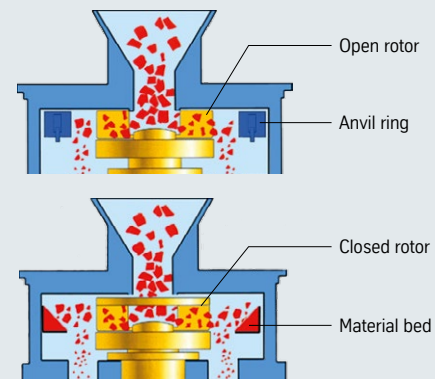
### Crusher

Max feed size	– open rotor:	125 mm
	– closed rotor:	63 mm
Rotor diameter	– open rotor:	965 mm
	– closed rotor:	889 mm
Weight of complete rotor	740 kg	
	– open rotor:	710 kg
	– closed rotor:	710 kg
Feed opening:	380 mm	
Number of anvils (if applied):	18	
Main dimensions (l x w x h):	4,500 mm x 2,270 mm x 2,080 mm	
Total weight without motor	up to 8.9 mt	
	– with anvil ring:	up to 8.9 mt
	– with material bed:	up to 7.9 mt

### Drive

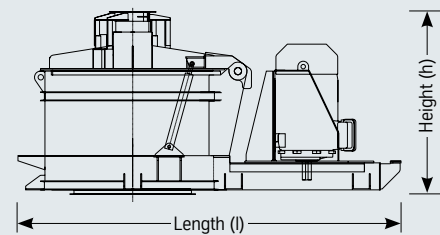
Drive concept:	V-belt
Motor power:	250 kW

### Working mode

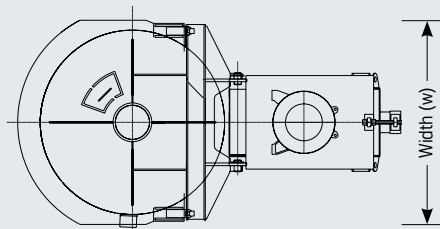


### Main dimensions

#### Side view



#### Top view



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