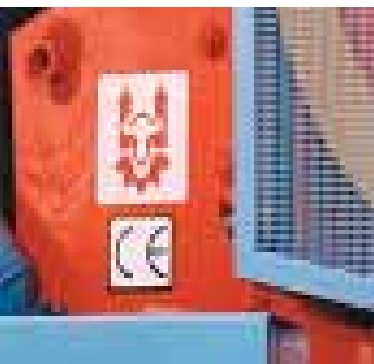




VERTICAL IMPACT CRUSHERS ODV

- high operating reliability
- low costs for operation and maintenance
- simple attendance and maintenance





Vertical shaft impactors ODV

CRUSHING



Vertical shaft impactor ODV 1186SM – gravel crushing



Vertical shaft impactor ODV 1186S – andesite crushing



Vertical shaft impactor ODV 1186M – gravel crushing

Vertical shaft impactors ODV are used for production of aggregates yielding a high content of cubic grains and where a high yield of small fractions is required (0 – 4 mm).

Crushers ODV are utilized in the last stages of crushing as “cubic-grain machines”, they pre-crush the prepared fractions and improve the shape index. By improving the shape index, the portion of defective grains is decreased from 45% to 15% or from 70% to 20% and possibly even higher according to material properties in combination with peripheral velocity of the rotor. The higher the rotor velocity is, the lower the amount of improper

grains.

Crushers ODV can be used for a wide spectrum of materials, hard and soft, abrasive and non-abrasive.

The crusher parts are manufactured of highly wear resistant materials. Great emphasis is placed on the design so that the parts are interchangeable without using a lifting device. The design of the crusher also helps to extend the service life by limiting the contact of the material with the armoring in the crushing space.

The exceptional operating properties of vertical shaft impactors ODV are:

- High operating reliability
- Low cost for operating and maintenance
- Simple maintenance
- Highly wear resistant materials of main crushing components
- Easy exchange of crushing elements

Description of the rotor

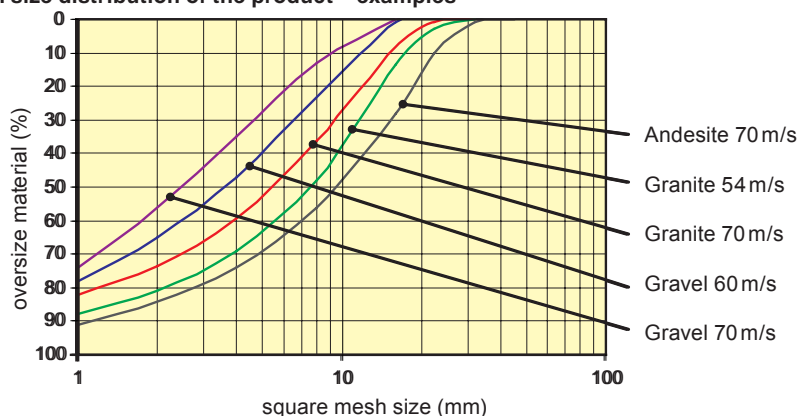
The material is charged to the rotor and forced against the crushing space by centrifugal force. The crushing space is designed with the following type of walls:

- ODV-S – stone-stone system
- ODV-M and ODV-SM – stone-metal system

ODV-S crushers are used in final stages of treatment lines where a very good shape index is required and the degree of comminution does not exceed 2.

ODV-M and ODV-SM crushers are used where a very good shape index is required with a higher degree of comminution up to 5. Crushing efficiency is regulated by changing the peripheral velocity of the rotor when the driving belt is changed or by a frequency converter.

Grain size distribution of the product – examples



Principle parameters of vertical shaft impactors ODV

Type	Entrance*	Peripheral velocity of the rotor	Max. capacity	Total length	Total width	Building height	Power input
	mm	m/s	t/h	mm	mm	mm	kW
ODV 1183S/SM	32	80	10-50	2650	1404	1481	37-55
ODV 1186S/SM	50	75	50-140	3600	2410	1750	90-160
ODV 1186M	50	75	50-140	3290	1950	1750	90-160
ODV 1187S/SM	70	75	100-250	3800	2600	1860	110-200
ODV 1187M	70	75	100-250	3490	2140	1860	110-200
ODV 1188S/SM	70	70	150-450	4710	3310	2400	200-315
ODV 1188M	70	70	150-450	3981	2372	2400	200-315

* undersize of square mesh size

Stated capacities are only informative and depend on the properties and composition of the crushed material, way of feeding and peripheral velocity of the rotor.



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PSP Engineering a.s. is a leading supplier of specialized products and entire processing plants for the building material and mineral processing industries. PSP Engineering has been involved in the design and construction of cement plants, lime works, quarry and crushing plants, as well as gravel and sand pits for more than 50 years.

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