



VIBROTECHNIK

Russian avant-garde equipment for milling



**JAW
CRUSHERS**



JAW CRUSHERS

The jaw crushers are designed to crush brittle bulk materials of various strength and hardness. In the jaw crushers, the material particles are broken down by the compressive and shear strains between the fixed and moving jaws. The grain size of the crushed material is determined by the gap between the jaws in the lower part (the discharge slot) and the physical properties of the material.

ADVANTAGES OF VIBROTECHNIK JAW CRUSHERS:

- The complex movement of the jaw (primarily horizontal vibrations in the upper part of the crushing zone and vertical vibrations in the lower part) provides a high degree of crushing;
- The walls of the housing in the crushing zone are protected by durable steel liners;
- The interchangeability of the fixed and moving jaws increases their service life;
- The configuration of the loading hopper and cover and the connection to a dust removal system prevent crushed material from being ejected and reduce dust;
- There is a hinged (removable) loading hopper for easy cleaning of the crushing chamber and monitoring of the gap between the jaws;
- The attachment of the jaw wedges to the ends of the base and the crank arm prevents damage to the attachment, allowing the jaws to be easily replaced;
- Easy adjustment of the V-belt drive by a rotating slide plate;
- Housings, limit microswitches and an emergency stop button ensure limited access to the drive parts of the crusher and safe operation;
- The use of a large-diameter support thread in the adjustment device reduces the likelihood of it jamming;
- Patented designs. Patent for utility model No. 159277 of September 24, 2015.

INDUSTRIES



Mining



Metallurgical



Construction



Chemical



Pharmaceutical

APPLICATIONS

Ferroalloys, ore, slag, granite, marble, limestone, coal, coke, glass, ceramics, capsules, cores, sodium.



Jaw crushers



Jaw crusher **JC 6M**



Jaw crusher **JC 10M**



Jaw crusher **JC 15**

CHARACTERISTICS	JC 6M	JC 10M	JC 15
Loading door dimensions (mm)	60x100	100x200	150x250
Maximum initial material grain size (mm)	50	70	110
Discharge slot adjustment range (mm)	2-25	3-25	1-25
Average product particle size at minimum aperture (mm)	90%<2,0	90%<2,5	90%<1,0
Maximum output (kg/hour)	200	500	1000
Collecting container/tank volume (L)	2 / 10	20	15
Electric motor power (kW)	1,1	2,2	5,5
50 Hz supply voltage (V)		380	
Overall dimensions (Length x Width x Height/with stand) (mm)	645x340x610/ 1100	710x490x620/ 1090	1000x570x960
Weight/with stand (kg)	140/170	285/ 325	515
Jaw material – iron/steel	GJN-HV600(XCr14)/UNS J91109		



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JAW CRUSHERS JC 6M AND JC 10M

Jaw crusher **JC 6M** is designed for crushing small samples of material in laboratories with low and medium workloads. The small size, low weight and electric motor power make it possible to use the **JC 6M** in mobile laboratories, in low-capacity process installations and in geological surveying.

Jaw crusher **JC 10M** is a more powerful model of the laboratory-class equipment, used for continuous crushing of material in small and medium-sized facilities. When it is equipped with a support stand with a collecting container, it can be used for intermittent crushing of samples.



JC 6M on stand with collecting container



JC 10M on stand with collecting container

CRUSHING AND MILLING EQUIPMENT

ADVANTAGES OF JC 6M AND JC 10M:

- Window for cleaning inner surfaces of crusher;
- Use of a shear pin in the adjustment device protects the crusher against breakage when an uncrushable body falls into it;
- Attachment of the base with a quick-release lug for easy maintenance;
- Increased service life of the **JC 10M** jaws by rotating them 180°.



Device for adjusting gap between jaws of **JC 6M**

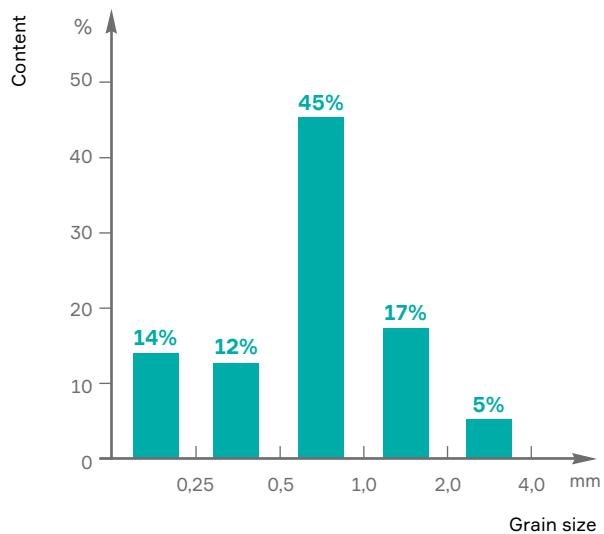


Quick-release attachment lug for the axle of the **JC 6M** and **JC 10M**

Crushing on **JC 10M**

Material: Ferroalloy FS70 10–40 mm;

Output: 30 kg/hour



Pipe for connecting **dust collector** and cleaning window



JAW CRUSHER JC 15

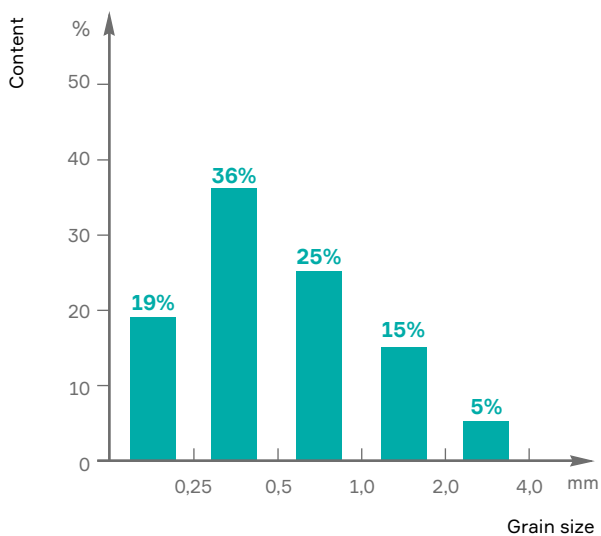
Jaw crusher **JC 15** is a high-power model designed for busy laboratories or small production facilities. The increased wall thickness, 5.5 kW electric motor and durable bearings make it possible to operate the **JC 15** continuously with minimal process interruptions.

ADVANTAGES OF JC 15:

- Increased jaw service life by rotating them 180°;
- Collecting container on cart;
- Bolted attachment of front wall of housing;
- Quick-release liners of crusher housing;
- Dish spring washers in adjustment device:
 - make it possible to adjust product grain size by changing (limiting) the crushing force;
 - protect the crusher against breakage when an uncrushable body falls into it.

Crushing on JC 15

Material: Pink quartzite 90–100 mm;
Output: 55 kg/hour



Pink quartzite before and after crushing



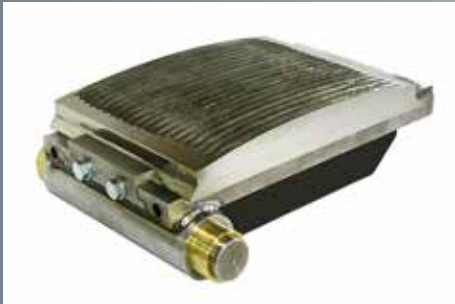
Jaw crusher **JC 15**



Device for adjusting gap between jaws of **JC 15**



Crank arm, armor, jaws and jaw fastening wedge of **JC 15**



Base with jaw of JC 15 crusher



Emergency stop button, limit microswitch and eye bolt attachment opening



Device for adjusting tension of electric motor belts on JC 15


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