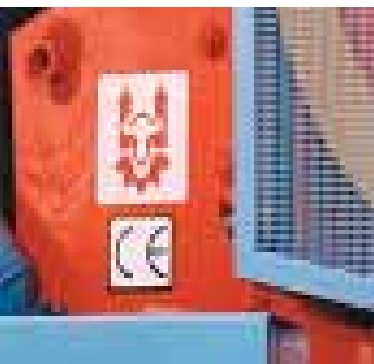




JAW CRUSHERS

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





Jaw crushers DCJ and DCD

- low costs, high capacity

CRUSHING



Jaw crusher DCD 4706 arranged in the treatment line for granite crushing

PSP Engineering supplies jaw crushers that are used mainly for primary crushing of all kinds of aggregate and ore, and building materials such as reinforced concrete, building

debris, bricks and asphalt blocks. The jaw crushers are produced according to the type and capacity size ranging from several tons to more than 1000 t/h.

Jaw crushers are advantageous for their excellent operating properties:

- High operating reliability
- Easily replaceable spare parts
- Low operating and maintenance cost
- Exceptional degree of comminution
- Low specific energy consumption
- High capacity
- Ideal geometry of the crushing space
- Rugged design

PSP Engineering manufactures the following versions of jaw crushers:

▪ **Single-toggle jaw crushers DCJ**

DCJ provides a higher degree of comminution, better shape value of grains, lower weight, smaller dimensions.

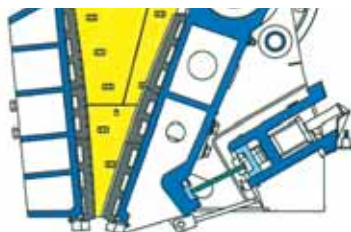
▪ **Double-toggle jaw crushers DCD**

DCD is able to crush extremely hard and abrasive materials.

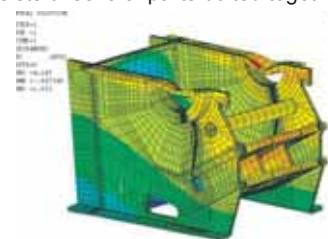
▪ **Slot adjustment**

The slot is adjusted by adjusting shims that eliminate the jaw crusher wear. Adjustment is easy by means of hydraulic cylinders with a hand-operated pump. Some selected types are fitted with a comfort hydraulically controlled adjusting wedges.

Hydraulic single-toggle jaw crushers DCJ-H are remote-controlled with an automatically adjusted outlet setting, hydro-pneumatic overload protection and automatic lubrication. This system is virtually an attendance-free system.



The frame is rugged and well-welded together as one unit or if the crusher is bigger, it consists of several parts bolted together.



Computer analysis of a jaw crusher

Toggle plates

Toggle plates are of a rolling design with a long service life that do not need lubricating, and are non-polluting.

Protection device

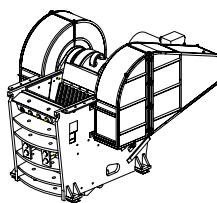
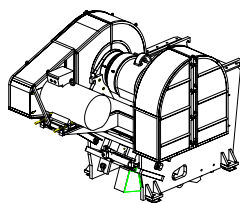
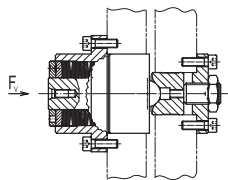
Protection device protects the shaft, bearings, pendulum or bed against damage if non-crushable piece occurs in the crushing chamber. It consists of:

- Breaking plate
- Safety coupling in flywheels.

When non-crushable piece gets into the crushing chamber, the safety coupling arms are released therefore stopping the pendulum while flywheels rotate freely on the shaft. No parts must be replaced and re-assembly takes just several minutes.

Integrated drive

There are several types of drives integrated in the frame of the crusher saving space and extending the service life of V-belts available.



Displacements in the solid model

Liners or jaws with bigger crushers consist of several parts. Worn parts can be exchanged without the assistance of a heavy lift.

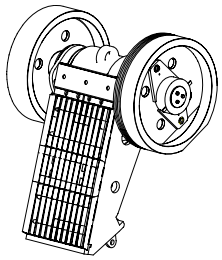
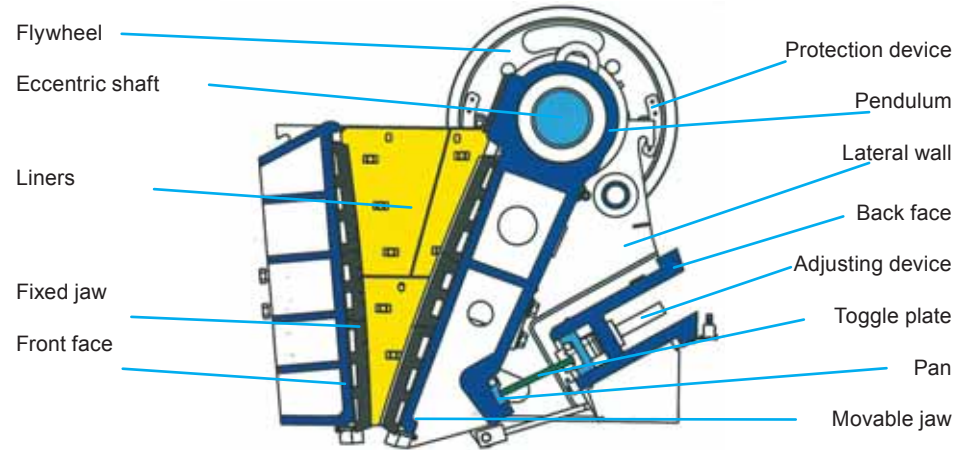
Jaw crushers DCJ and DCD

- low costs, high capacity



Large-diameter shafts are made of a treated chrome-vanadium forged pieces. Automatic lubrication is available.
High-percentage manganese jaws are reversible, which extends their service life.

Flexible seating of crushers on rubber springs decreases the forces on foundations significantly.



Pendulum is a rigid casting.



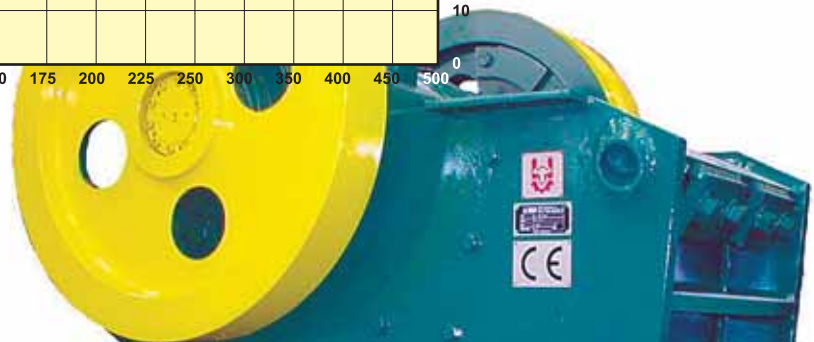
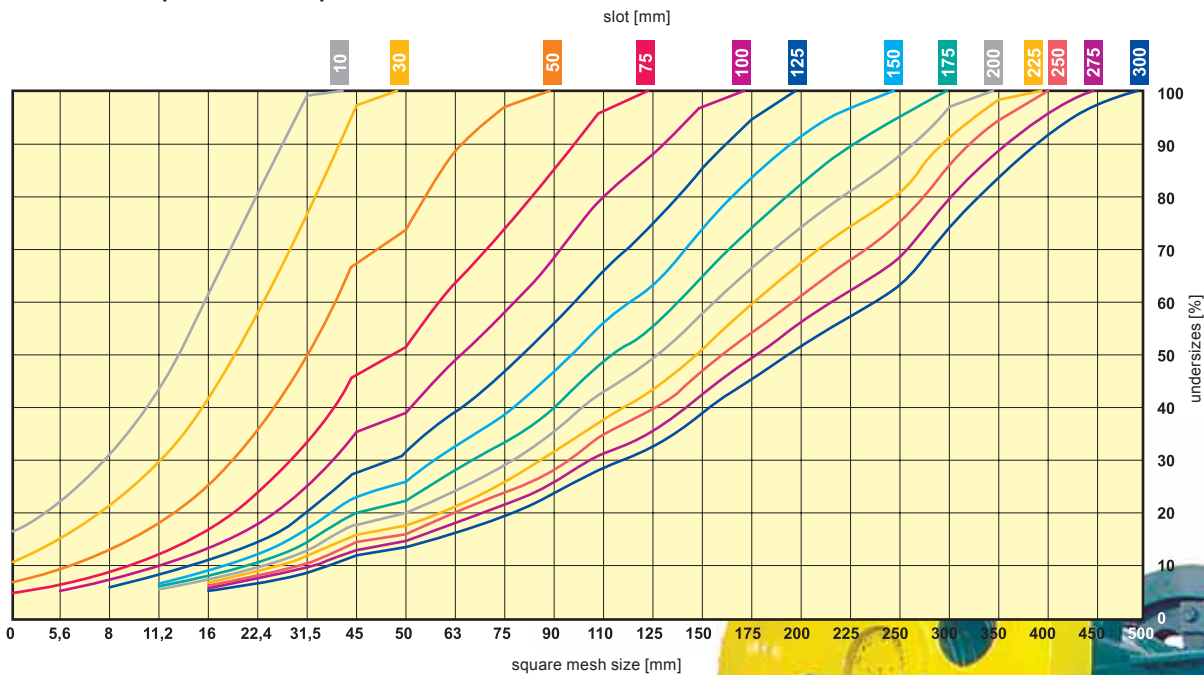
Computer analysis of the pendulum of jaw crusher. Displacements in the solid model.

CRUSHING



Jaw crusher DCJ 1031 on the track mounted crushing unit

Grain size composition of the product





Jaw crushers DCJ and DCD

- low costs, high capacity

CRUSHING



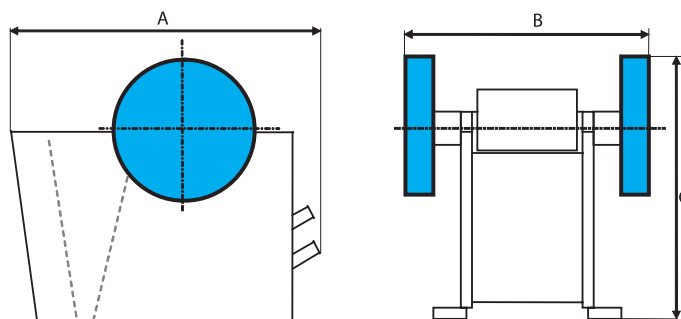
Jaw crusher DCJ 1038 – basalt crushing



Jaw crusher DCJ 1021 – basalt crushing



Jaw crusher DCJ 1038 – limestone crushing



Principle dimensions of a jaw crusher DCJ

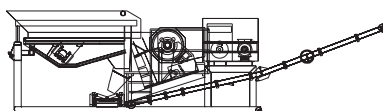
Type	Inlet opening mm	A mm	B mm	C mm
DCJ 1032	500x300	1430	1170	1270
DCJ 1033	700x300	1767	1420	1540
	700x500	1767	1420	1540
DCJ 1031	900x600	2069	1775	1775
DCJ 1039	1100x700	2525	2350	2280
DCJ 1021	1100x800	2650	2430	2660
DCJ 1028	1200x1000	3400	2842	3104
DCJ 1029	1400x1120	3790	3050	3613
DCJ 1038	1600x1250	4148	3338	4165

Principle technical parameters of jaw crushers DCJ

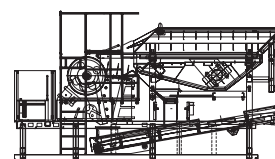
Type	Inlet opening mm	Setting mm	Capacity t/h	Power input kW
DCJ 1032	500x300	20 - 70	16 - 60	30
DCJ 1033	700x300	15 - 50	18 - 60	45
	700x500	30 - 110	37 - 140	45
DCJ 1031	900x600	40 - 170	65 - 285	75
DCJ 1039	1100x700	50 - 180	105 - 395	90
DCJ 1021	1100x800	63 - 200	140 - 460	110
DCJ 1028	1200x1000	85 - 230	200 - 580	132
DCJ 1029	1400x1120	100 - 250	275 - 730	160
DCJ 1038	1600x1250	120 - 300	500 - 990	200

The minimum permitted slot size depends on the hardness and toughness of the crushed material and it must be consulted with a producer. Stated capacities are only informative and depend on properties and composition of the crushed material.

PSP Engineering supplies jaw crushers DCJ or DCD, built-in mobile or semi-mobile units positioned on a steel structure, or as single machines.



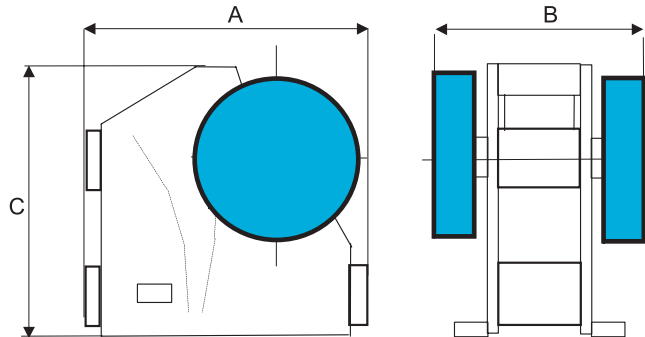
Container crushing unit with the crusher DCJ 1032



Container crushing unit with the crusher DCJ 1033

Jaw crushers DCJ and DCD

- low costs, high capacity



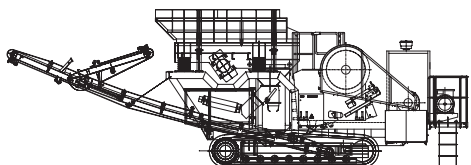
Principle dimensions of jaw crusher DCD

Type	Inlet opening mm	A mm	B mm	C mm
DCD 4701	500x400 (540x400R)	1680	1100	1325
DCD 4702	630x500 (700x500R)	2070	1420	1610
DCD 4703	800x630	3095	1920	2235
DCD 4709	1000x700R	3195	2155	2715
DCD 4704	1000x800	3900	2650	2680
DCD 4775	1100x800R	3165	2095	2510
DCD 4705	1250x1000	4680	2890	3615
DCD 4706	1600x1250	5440	3555	4082
DCD 4707	2000x1600	6750	4365	4730

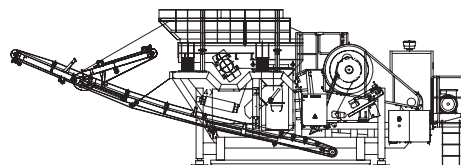
Principle parameters of jaw crusher DCD

Type	Inlet opening mm	Setting mm	Capacity t/h	Power input kW
DCD 4701	500x400	30 - 80	25 - 65	30
	540x400R	10 - 60	9 - 55	30
DCD 4702	630x500	30 - 80	30 - 85	40
	700x500R	10 - 60	12 - 70	40
DCD 4703	800x630	60 - 150	95 - 245	75
DCD 4709	1000x700R	50 - 130	105 - 290	55
DCD 4704	1000x800	100 - 180	200 - 375	90
DCD 4775	1100x800R	50 - 200	100 - 415	75
DCD 4705	1250x1000	130 - 250	300 - 600	132
DCD 4706	1600x1250	150 - 300	405 - 860	160
DCD 4707	2000x1600	200 - 400	630 - 1350	250

The minimum permitted slot size depends on the hardness and toughness of the crushed material and it must be consulted with a producer. Stated capacities are only informative and depend on properties and composition of the crushed material.



Track-mounted crushing unit with the crusher DCJ 1031



Semi-mobile crushing unit with the crusher DCJ 1031

CRUSHING



Jaw crusher DCD 4706 - granodiorite crushing



Jaw crusher DCJ 1039 - basalt crushing



Jaw crusher DCJ 1039 - basalt crushing



www.pspengineering.cz

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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Crushing and screening technology/Raw material crushing, screening, and recycling systems EN 04/09
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