

Atlas Copco

Powercrusher



Bite into bigger profits

Sustainable Productivity

Atlas Copco

Atlas Copco Powercrusher presents its distinguished line of track-mounted jaw crushers, impact crushers, cone crushers and screening plants equipped to tackle your quarry, mining, construction and recycling tasks. Powercrusher machinery is engineered for mobility, high performance and reliability. Units feature sturdy components crafted with the most resilient, well-tested materials. With rugged equipment from Atlas Copco Powercrusher, you have the power to move mountains.

Jaw Crushers

Main benefits

- **Quattro movement** for efficient primary crushing
- **High output capacity** (200 – 350 t/h)
- **Built to smash** the hardest of materials
- **Reinforced** components
- **Consistent**, high-quality end products
- **Minimal risk** of blockage, even with larger boulders
- **Designed for even wear** over jaw faces for durability
- **Compact design** for easy transport and setup
- **Consistent**, high-quality end products, often with less than 20% on the flaky index scale

Take a bigger bite

Jaw crushers from Atlas Copco Powercrusher are built for brute force and durability in the primary crushing of mid to large-fraction materials in quarrying and recycling applications. These machines shatter even the hardest of boulders with high silica content.

A more crushing experience

Jaw crushers from Atlas Copco Powercrusher incorporate a unique *quattro movement* for maximum processing efficiency. The nip angle between the vertical stationary jaw plate and the oscillating swing jaw is narrow, and the figure-eight motion of the swing jaw, due to an up-thrust toggle plate position, enables continuous crushing. Materials are drawn in due to a more vertical motion of the swing jaw plate and a more effective force is applied over the entire face of the crushing chamber, with an efficient post-crushing effect as rocks exit the crushing chamber. Jaw crushers from Atlas Copco are capable of handling larger feed sizes than more conventional crushers with similar inlet openings while diminishing the risk of blockage. They produce the more consistent, cubically-shaped end product sought by civil engineering companies for backfill, road fill and sub-base as well as high quality railway ballast.

Jaw crusher models from Atlas Copco Powercrusher include the PC 1055 J, PC 2, PC 4 and PC6 with a double-deck independent pre-screen section prior to the crushing chamber.

Technical information

Type	Crusher	Inlet opening	Output	Engine	Transport dimensions			Weight
					Length	Width	Height	
PC 1055	Jaw	1000 x 550	up to 200 t/h	CAT	11.500	2.550	3.350	34 t
PC 2	Jaw	1020 x 730	up to 250 t/h	CAT	12.000	2.500	3.200	40 t
PC 4	Jaw	1250 x 650	up to 300 t/h	CAT	12.200	2.650	3.530	45 t
PC 6	Jaw	1300 x 800	up to 350 t/h	CAT	14.510	3.000	3.960	55 t





Impact Crushers

Flexible and tough

Impact crushers from Atlas Copco Powercrusher are specially designed to accept large feed sizes and can be used as primary or secondary crushers in certain applications. They are ideal for processing soft to medium-hard materials such as natural stone in mining and quarrying applications as well as construction and demolition materials.

A positive impact on profitability

Impact crushers rely on impact rather than compression to fracture materials. Within the crushing chamber, horizontal hammers are fixed to a fast-revolving rotor. The hammers redirect falling rocks to forcefully collide with internal wear plates on swing beams. Rocks are further fractured through high-impact collisions with each other. In the optimally-designed impact crushers from Atlas Copco Powercrusher, the position of the swing beams in relation to the rotor generates more crushing space and allows for larger feed sizes, meaning these units can be used as true primary crushers in soft stone and recycling applications. Impact crushers from Atlas Copco Powercrusher are distinguished for their high reduction ratios and excellent end products with only a minimal percentage of oversized fractions.

Impact crushers from Atlas Copco Powercrusher include the PC 1060, PC 1, PC 3, PC 1375 as well as the PC 5 and PC 1610 that include double-deck independent pre-screen section prior to the crushing chamber.

Main benefits

- **Superior** for both primary and secondary crushing
- **High output capacity** (200 – 500 t/h)
- **Accept large feed sizes**
- **Excellent results**, even with softer materials such as asphalt
- **Consistent**, high-quality end products
- **Reinforced** components for wear resistance and durability
- **Compact design** for easy transport and setup

Technical information

Type	Crusher	Inlet opening	Output	Engine	Transport dimensions			Weight
					Length	Width	Height	
PC 1060	Impact	1000 x 600	up to 200 t/h	CAT	11.500	2.620	3.350	31 t
PC 1	Impact	1070 x 750	up to 220 t/h	CAT	12.000	2.500	3.200	36 t
PC 3	Impact	1250 x 705	up to 250 t/h	CAT	13.350	2.900	3.350	38 t
PC 1375	Impact	1250 x 750	up to 300 t/h	CAT	14.850	2.550	3.300	40 t
PC 5	Impact	1250 x 1020	up to 350 t/h	CAT	14.620	2.980	3.650	53 t
PC 1610	Impact	1560 x 1020	up to 450 t/h	CAT	16.500	3.290	3.830	80 t



Cone Crushers

Main benefits

- **Ideal** for both secondary, tertiary and fines crushing
- **High output capacity** (220 t/h)
- **Accept “all-in” feed** for more efficient crushing with less pre-screening
- **Strong**, reinforced components
- **Tramp-release** system for overload protection
- **Steel rejection system** to boost uptime
- **Lowest wear costs** in the crushing of abrasive materials
- **Designed for easy, on-site maintenance** to minimize downtime
- **Consistent**, high-quality end products
- **Compact design** for easy transport and setup

Best at the daily grind

When it comes to secondary, tertiary and fines crushing, cone crushers from Atlas Copco Powercrusher do the job right, especially when it comes to dealing with abrasive materials. Cone crushers offer the lowest wear costs when processing abrasive matter. Downtime due to maintenance is minimal thanks to an optimized design that allows for easy, on-site wear liner changes.

The pressure to succeed

Cone crushers from Atlas Copco Powercrusher are able to accept *all-in* feed, which minimizes the need for pre-screening of material entering the crusher and maximizes processing efficiency due to more particle-on-particle crushing action. Crushing occurs in a chamber between an external fixed cone and an internal moving mantle mounted on an oscillating shaft assembly. Material fragments as it is compressed between the wear liners around the chamber and as it is compressed against itself. A spring-release system provides overload protection by allowing tramp to pass through the crushing chamber without damaging it. A new Atlas Copco innovation is a steel rejection system that further increases operational uptime.

Atlas Copco Powercrusher presents the PC 1000 cone crusher.

Technical information

Type	Crusher	Inlet opening	Output	Engine	Transport dimensions			Weight
					Length	Width	Height	
PC 1000	Cone	1000 mm	up to 220 t/h	CAT	11.980	2.510	3.380	35,5 t



Screening Plants

Sifting through the rubble

Screening plants from Atlas Copco Powercrusher are built for sorting efficiency, mobility and easy maintenance, making them just what the contractor requires in ore and aggregate production. All models can be used in combination with crushers or fed independently by a loader.

Sorting it all out

Material to be sorted travels onto vibrating screening beds (mesh, bofar plates or fingers – depending on the model). Larger fractions rise to the top of the screening beds, while smaller fractions filter down through apertures in the beds. Double-deck screening plants include lower-deck screening media to further divide materials into accurate fractions. A five-degree incline of the screen box and meshes that are bowed in the middle to allow material to remain on them longer produces a *banana effect* for more efficient screening. Meshes from Atlas Copco come in a wide range of sizes and configurations to suit specific applications.

Portable screening units from Atlas Copco Powercrusher include the HCS 3715, HCS 5515, HCS 3D, HCS Grizzly and HS 1. An independently-driven vibrating grid is available to provide additional fractioning on the HCS 3715, HCS 5515 and HCS 3D models.

Main benefits

- **High performance** in multiple applications
- **Large screening area**
- **High output capacity** (200 – 600 t/h)
- **Accurate fractions** in ore and aggregate production
- **Strong**, reinforced components
- **Bolted screen box** for resistance to stress
- **Inclined screen box** and bowed meshes for more efficient screening
- **Designed for easy mesh tensioning** and maintenance
- **Compact design** for easy transport and setup

Technical information

Type	Number of decks	Mesh dimensions	Throughput	Engine	Transport dimensions			Weight
					Length	Width	Height	
HCS 3715	2	4267 x 1524	up to 300 t/h	CAT	14.967	2.855	3.365	27 t
HCS 5515	2	5500 x 1500	up to 400 t/h	CAT	17.900	3.300	3.470	35 t
HCS 3D	3	6000 x 1500	up to 600 t/h	CAT	17.850	2.890	3.610	35 t
HCS Grizzly	2	4700 x 1446	up to 300 t/h	CAT	14.020	3.150	3.440	29 t
HS 1	1	2360 x 1550	–	–	6.930	1.970	1.820	3,7 t



Equipment from Atlas Copco Powercrusher is manufactured at the company's modern production facilities in St. Valentin, Austria. Key machine components are constructed in-house by highly experienced personnel using state-of-the-art laser cutters and other machinery. All units are painted using the newly developed Atlas Copco polyurethane based wet painting system, offering unparalleled surface coating quality.

Service you can depend on

Wherever you work, service engineers and product specialists are available to help you optimize the use of your products from the Atlas Copco Group. Trained specialists at our authorized distributors and service partners are proficient in the full range of equipment from Atlas Copco Powercrusher, including optional accessories and replacement parts that ensure your machinery always maintains the highest levels of output, endurance and cost efficiency. We provide on-site service and advice, helping you choose the right machinery and options. Our trained service personnel receive regular updates to ensure they can provide you with conscientious service and competent assistance. Your Atlas Copco service partner is always as close as the nearest phone.

Up and running with CRUSH Care

Even the finest equipment requires regular service to ensure optimal performance. CRUSH Care™ is an optional service package for crushing and screening plants from Atlas Copco. The package includes regularly-scheduled inspections and service plus extended warranty. CRUSH Care allows you to operate with peace of mind during your crusher or screener's first 5,000 engine hours or first four years of operation. CRUSH Care makes good sense. Planned service prevents costly, time-

consuming breakdowns to keep your equipment up and running at maximum capacity.

Financing

The mission of Atlas Copco Customer Finance, a subsidiary of the Atlas Copco Group, is to help you find the most suitable financing options for the equipment you require. We offer a wide range of financing alternatives that include leasing, hire purchase, supplier credit and various types of project financing. We have vast knowledge of the industry and have provided financing solutions to customers in more than 60 countries since 1999. By being a part of the Atlas Copco Group we operate in close cooperation with Atlas Copco's worldwide sales and service network that in turn are ready to support you with your financing requests. Contact your nearest Atlas Copco sales company to get more information.

Smashing features to come

At Atlas Copco, we continuously strive to improve your productivity. Stay tuned for innovative new options for your crushing and screening plants. Revolutionize your operation with products from Atlas Copco.

