SANDVIK

Tough crushing, smooth operating

The Sandvik jaw crushing range

Tough crushing has never been smoother

More than

3,000

jaw crushers in operation

Sandvik jaw crushers are reliable, high-performing crushers built to optimize primary crushing applications in mines and quarries.

These tough crushers are delivered with everything you need for plug-and-play installation and safety features to keep operators out of danger. Backed up with a complete Reliability and Protection package, they get you up-and-running fast. And keep your operations running for a long time to come.

5 reasons for choosing Sandvik Jaw Crushers

Manufactured for high performance in tough environments, Sandvik jaw crushers are built to optimize primary crushing applications. They include a complete plug-and-play option for fast installation and start-up, and a reliability and protection package to ensure greater uptime.

Complete jaw crushing solution

Sandvik Jaw crushers come with everything you need for plug-and-play primary crushing operations. Each jaw crusher comes with feed hopper, feed hopper interface, drive and subframe with v-belt guard and motor bracket, our unique guarding retraction arrangement and toggle plate stop. The wide range of jaw plates can be mixed and reversed to ensure optimal, versatile crushing.

Easy to set up and install

When you order from Sandvik you order from a global supplier with equipment, parts and service close to your operations. Choose a complete crusher solution, or adapt according to your needs, and we make sure you're up and running in the shortest possible time–driving up profits while driving down costs.

Putting safety first

Your safety is our number one priority. Which is why Sandvik uses the highest quality materials and parts in our equipment. Our Jaw crushers include lifting tools for safe maintenance and a unique guarding retraction to keep people safe during operation. We can provide a modular service platform to ensure safe maintenance when working in the crushing chamber.

Smart, sustainable working

Sustainability is about doing what we can to protect the planet. That's why all Sandvik jaw crushers are built for the circular economy. You can recycle the complete machine – all the metal, and even the rubber seals. The main motor is IE4 approved to give you the best combination of energy efficiency, reduced operational costs and carbon footprint.

Reliable crushing

When you buy Sandvik Original Equipment and parts you know you are buying quality that's built to last – in the tough conditions they are built for. Backed up by a Sandvik Reliability and Protection package you are assured of trouble-free ownership through extended warranty coverage, periodic inspections, on-site troubleshooting and trend analysis. A product range with a uniform plug-and-play solution that ensures easy and safe service and guaranteed productivity through reliability and availability.

Tough crushers, smart features

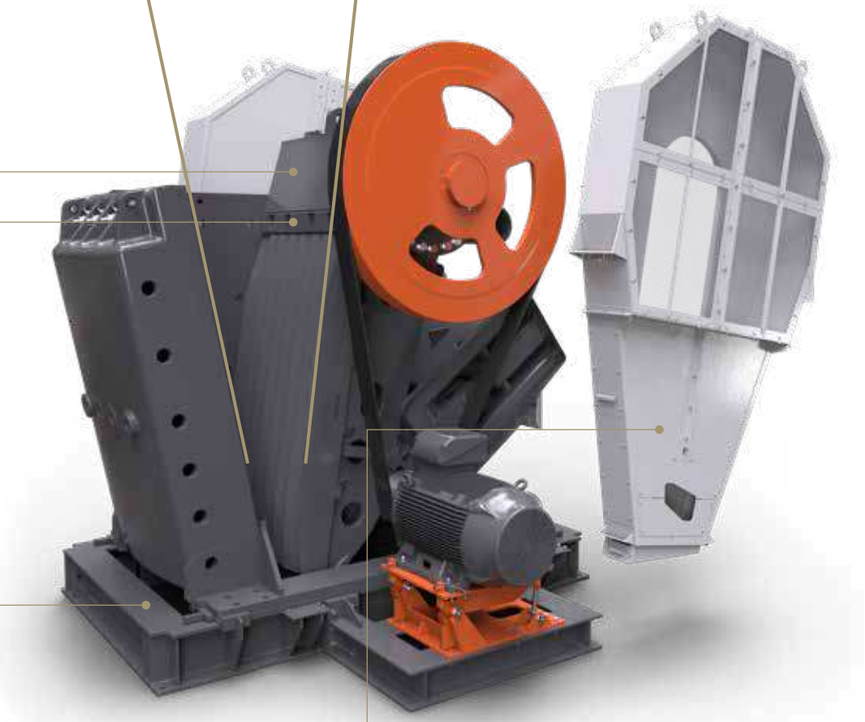
Sandvik jaw crushers have advanced features for optimized performance, easy maintenance, greater safety, long life and a lower cost per ton.

Heavy-duty deflector plate
The plate takes heavy impacts from material, protects the swing jaw, shaft and bearing during crushing.
It also helps to direct material into the crushing chamber.

Clamping bar
Replaceable support strips protect the swing jaw and frame from wear. The clamping bar facilitates longer life of the main components.

Subframe
The subframe offers a clear interface that enables faster installation by providing a plug-and-play solution.

Nip angle
Sandvik Jaw crushers have nip angles between 16–23°. A good nip angle means high throughput capacity of the crusher.

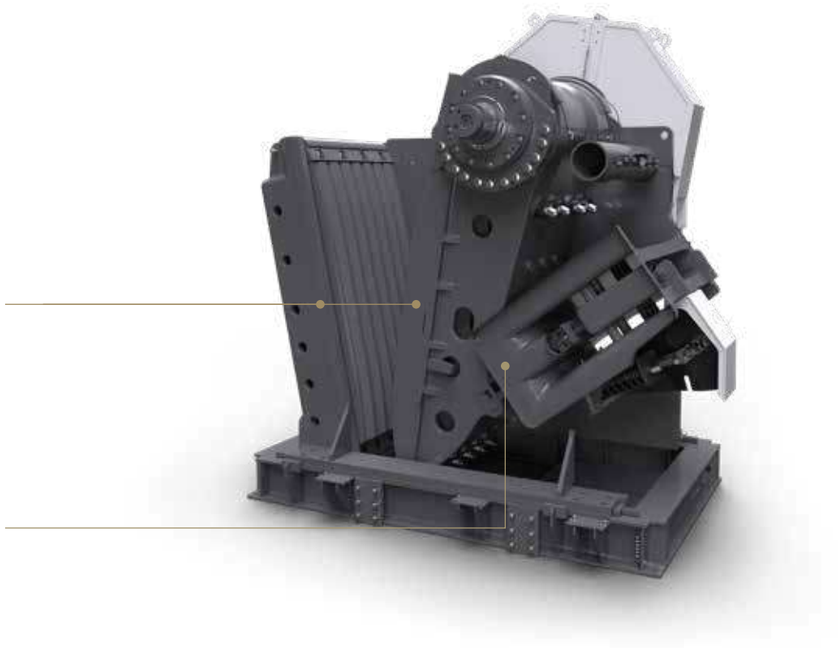


Drive and V-belt guard
The subframe with motor bracket lets you use standard flywheel guards that protect operators from moving parts. The guards eliminate the need for local engineering, manufacturing and assembly.

Bearings
The bearings have taper shaft ends for flywheels to provide easy assembly and removal. They also have labyrinth and lip seals to prevent dust. The solid split free housing with a good seal system guarantees long bearing life.

Shim plates for protection
The shim plates prevent impact and wear on the swing jaw and frame in the event of the jaw plates becoming loose. They provide cost-effective insurance. You can use optional shim plates with extra thickness to recover a poor nip angle at tighter settings.

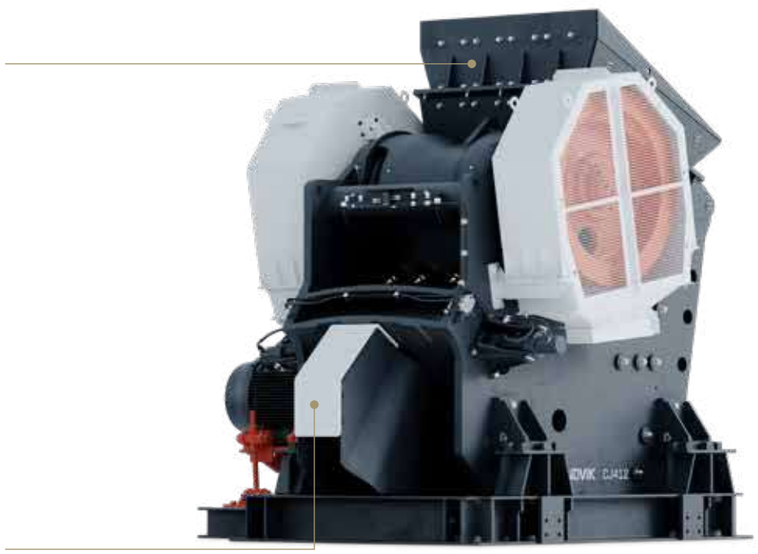
Toggle plate stop
Prevents the toggle plate from moving sideways.



Feed hopper + interface
The feed hopper facilitates a safe environment for operators. It prevents large stones falling down from the side. The modular feed hopper can also be used to create a clear interface (lower part of the feed hopper) for attaching a different type of feed hopper, or an existing one where needed.

Welded frame
The frame consists of two side plates of rolled steel plus hollow castings at the front frame end and a moving jaw which gives a high rigidity/weight ratio. Large-radius transition areas reduce stress concentrations. Welds are positioned in low-stress areas. Welded frames have the advantage of being equally strong in all directions and ensures excellent durability against shock loads.

Guarding retraction arrangement
Protects operators from moving parts during operation.



Modular service platform
The modular service platform ensures safe maintenance when working in the crushing chamber.

Handrails with adjustable length for safe usage

Defined lifting points for safe handling during use

Adjustable backplate with hinge that will self adjust with the swing jaw plate

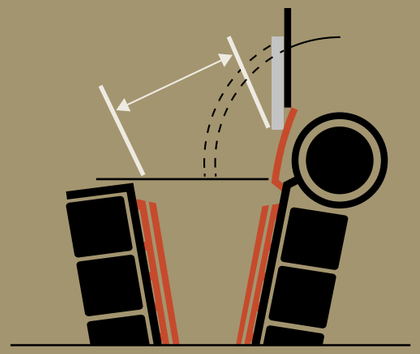
Adjustable length of platform for usage in various sizes of jaw crushers

Feed opening
The largest rock suitable is 90 % of the dimension between the jaw plates.

Motor bracket for main motor
Enables easy access and quick, accurate and safe V-belt tensioning which will improve power transfer from motor to crusher. The V-belt lifetime is improved since there will be no movement between the crusher and the motor bracket.

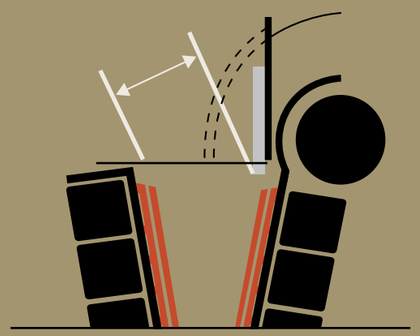
Sandvik deflector plate

A deflector plate at the top of the moving jaw means no intrusive cross-wall is required in the feed hopper. All the effective feed opening is active. Material is crushed at the top of the crushing chamber.



Competitor deflector plate

Cross-wall required in feed hopper to protect top of moving jaw. Stationary cross-wall reduces effective feed opening. Material cannot be crushed until it has dropped a good distance into the crushing chamber.



Real = nominal

Sandvik feed opening
Symmetrical crushing chamber. Effective feed opening = Nominal feed opening.

Real

Competitor feed opening
Conventional crushing chamber. ffective feed opening < Nominal feed opening.

The jaw crushing range

The Sandvik jaw crusher series offers everything you need for plug-and-play primary crushing operations.

Technical comparison matrix

	Feed opening		Weight naked crusher**		Weight complete crusher		Motor power	
Model	mm	inch	kg	lbs	kg	lbs	kW	hp
CJ411*	1,045 x 840	41 x 33	22,800	50,300	27,200	60,000	110	150
CJ412*	1,200 x 830	47 x 33	27,700	61,000	32,200	71,000	132	200
CJ613	1,300 x 1,130	51 x 45	45,800	101,100	52,900	116,800	160	250
CJ615	1,500 x 1,070	59 x 42	55,000	121,100	62,400	137,500	200	275
CJ815	1,500 x 1,300	59 x 51	72,000	158,600	80,600	177,600	200	275

* Calculated with small compact flywheels
** Feed hopper, subframe with guarding and main motor not included.

Nominal capacity* (STPH)

CSS (inch)	CJ411	CJ412	CJ613	CJ615	CJ815
3	165–220	180–245			
4	220–290	245–320			
5	270–360	300–390	365–475	425–495	
6	325–430	360–475	425–555	490–650	530–690
7	375–490 **	425–555	485–635	555–735	600–780
8	425–555 **	490–640	545–715	630–820	670–880
9	475–625 **	545–715	605–805	695–910	745–975
10		605–795	670–895	770–1,015 **	820–1,075
11		665–870	730–975	845–1,100 **	905–1,180 **
12			790–1,060	910–1,195 **	975–1,280 **

Nominal capacity* (MTPH)

CSS (mm)	CJ411	CJ412	CJ613	CJ615	CJ815
75	150–200	165–220			
100	200–265	220–290			
125	245–325	270–355	330–430	385–495	
150	295–390	325–430	385–505	445–590	480–625
175	340–445 **	385–505	440–575	505–665	545–710
200	385–505 **	445–580	495–650	570–745	610–800
225	430–565 **	495–650	550–730	630–825	675–885
250		550–720	605–810	700–920 **	745–975
275		605–790	660–885	765–1,000 **	820–1,070 **
300			715–960	825–1,085 **	885–1,160 **

* Based on material with bulk density of 1,600 kg/m^3 ** CSS dependent on jaw plate patterns

Jaw plates for all types of feed

The wide range of plate options can be mixed and reversed to ensure optimal, versatile crushing.

Corrugated (C)

Suitable for less abrasive material.
Good for small CSS settings.
Good top-size control.

Heavy Duty (HD)

For very abrasive material.
Less top-size control. Can be combined with a CC moving plate.

Coarse Corrugated (CC)

For abrasive material. For feed with a lot of fines. Used for large CSS settings.
Good top-size control.

Wide Teeth (WT)

Good wear resistance. For feed with a lot of fines. Can be used on both fixed and moving sides.

Sharp Teeth (ST)

For flaky feed material with a lot of fines. Good gripping ability. Very good top-size control. Highly recommended if the AI is not too high.

HD Ultra-Thick (UT)

For very abrasive material.
Less top-size control. Fixed plate based on our HD pattern with an extra 30 mm thickness for longer wear life. To be used with the CC moving plate.

Services for optimal performance

Buying a crusher and keeping optimal performance levels is easy with Sandvik. You can choose a variety of options – from a complete crusher line to an overhaul of the one you have – all backed up by Sandvik's Reliability and Protection package.

Reliability and Protection Package (R&P)

The Sandvik Reliability and Protection package gives you the peace of mind you need along with continuous crushing performance. You know all about any potential failures or maintenance ahead of time and can deal with them proactively, avoiding costly breakdowns and protecting against unnecessary costs.

R&P offers 100% major component coverage*. Certified Sandvik engineers document trends and regularly recommend data-supported maintenance procedures.

R&P includes:
— Warranty coverage
— Periodic inspections
— On-site troubleshooting
— Trend analysis

* Terms and conditions apply.

Digital Service Platform

The DSP is our digital support tool that ensures documentation quality by using standardized global inspection procedures and digital protocols.

transparent inspection reports cover:
— Priority actions
— Equipment status report and potential issues
— Preventive measures (i.e. corrective actions)
— Proactive improvements and recommendations