

Designed to work smart Delivered to work hard

The Sandvik CH/CS 400–600 cone crusher range



30% increase in aggregate output

Lafarge Pitt River put a CH660 on line and experienced a 30% increase in aggregate output, reaching 1,200 metric tons an hour. The increase was double than predicted.

“Before, it was hard to hit 1,000 metric tons, the cost per ton was the deciding factor. We typically were running a shift and a half to get the same tonnage as we now are doing with regular shifts.”

Lafarge Pitt River granite quarry British Columbia, Canada



Hard working, smart operating crushers

More than

6,000

crushers on operation

The Sandvik CH/CS 400-600 cone crusher range of smart cone crushers are flexible, agile and reliable. Built for the toughest conditions, they offer a proven design, long life and a low cost per ton.

These crushers offer optimal crushing for quarries of all sizes and mines. They're smart too. Each new crusher comes with the latest automation system and is connectable to SAM, our ever-evolving cloud-based digital service for monitoring and optimizing crusher performance and productivity. The Sandvik CH/CS 400-600 cone crusher range is the smart choice – in more ways than one.





Robust, reliable crushing

Sandvik crushers are engineered to deliver the highest productivity in quarries and mines. Whether you want to produce different fractions or maximize the reduction, our solutions deliver the robustness and versatility you need.

Sandvik cone crushers are an excellent choice as secondary crushers or in the third or fourth crushing stage when you need high quality product. They can easily be matched to changes in production by selecting the crushing chamber and eccentric throw.

Sandvik CS crushers are designed for high capacity and large intake, which makes them the right choice for secondary applications.

Sandvik CH crushers are suited when high reduction is needed or when the quality demand on shape is high on the final product.

ACS-c 5 ASRi automation system

The CH/CS 400-600 series comes equipped with the Sandvik ACS-c 5 ASRi automation system, our most powerful and user-friendly automation. ACS-c 5 ASRi provides crusher control, including automated setting regulation, and makes it easy to assign role-based permissions for system monitoring, troubleshooting and performance optimization.

Tramp iron protection

The accumulator helps to restore the original setting after the tramp iron passes through.

Constant liner performance

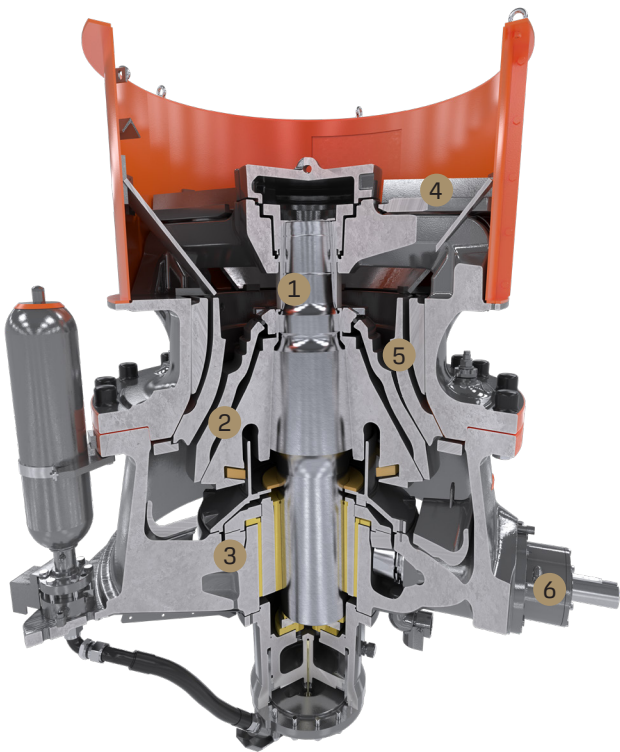
Crushing chamber feed size and profile remain constant, maintaining production rate.



Best-in-class features

CH

- 1. Main shaft protected by replaceable sleeve and inner head nut.
- 2. Long life from liners of special alloy manganese steel.
- 3. Quiet operation and long life thanks to bevel gears with hardened, spiral-cut teeth.
- 4. Large feed opening. The two top-shell arms are protected against wear by robust liners of special alloy steel.
- 5. CLP crushing chamber design maintains feed opening throughout the entire life of the liners.
- 6. Robust design of the pinion shaft assembly. Pinion shaft and its bearings are built as a single unit which can be removed without taking the crusher apart.



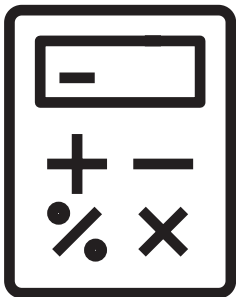
CS

- 1. Large intake opening in relation to crusher size.
- 2. The angle in the crushing chamber is more aggressive, allowing higher throughput in the crusher.
- 3. CS crushers have the same bottom shell advantages as the corresponding CH crusher.
- 4. Long life from liners of special alloy manganese steel.
- 5. Robust design of the pinion shaft assembly. Pinion shaft and its bearings are built as a single unit which can be removed without taking the crusher apart.

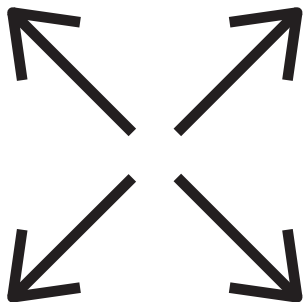


We will help you make the right decision

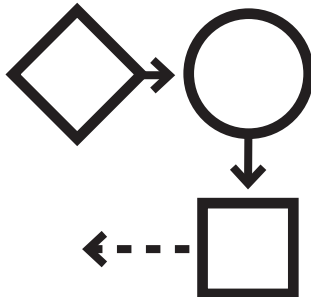
The type of crusher you need of course depends on your specific operations. Reasons to buy include:



Your finacial situation



Future expansionplans



Your processes

Our experts at your service

We will offer you the most cost-efficient solution for your specific needs.

Should the crusher also work with increased output as the quarry/mine expands operations?

Which crusher is best for your particular process?

Our experts can help you decide exactly which crusher is right for you by studying materials and their composition, flows and much more using their experience and smart calculation tools.

All new? Or as new?

Buying a crusher and keeping optimal performance levels is easy with Sandvik.

You can choose a variety of options – from a complete crusher line with all the auxiliaries and infrastructure you need, a reborn crusher, to a complete overhaul of the one you have.

Reborn

Sandvik REBORN rebuilds your crusher system by exchanging your worn-out Sandvik crusher for a new one, reutilizing your crusher auxiliaries and infrastructure. It gives you a new crusher for a fraction of the cost of a complete crusher system. Enjoy design upgrades that come with a brand-new OEM crusher and the service and maintenance costs of a new machine.

The reborn package includes:

- New factory-tested crusher covered by a 3-year standard warranty
- Crusher equipped with all model-specific upgrades that improve reliability
- Expert installation supervision
- Comprehensive on-site training covering crusher operation and maintenance
- Periodic condition inspections and reports based on annual operating hours

Upgrade

Cost-efficient and easy ways to renew crushers with backward-compatible component upgrades to help you improve productivity.

- A cost-efficient and easy way to renew crushers
- Genuine parts to ensure crusher works at its best and safest
- All component upgrades including bottom shell are backward compatible

Replace

Buying a new Sandvik crusher system gives you the reliability, adaptability and longevity you need for cost-efficient operations, all producing the best shape and among the highest capacities for their size in the industry. All Sandvik equipment come with a 3-year standard warranty.

9 on a scale of 1-10

“We’ve been very happy with our CH430 crusher over the last 6 years. On a scale of 1-10 I’d put it at 9. It’s a new, modern machine with some innovative controls on it, but it still operates just like a lot of the older crushers in that once you’ve got it set up correctly, it just keeps going.”

Central Queensland Quarries, Australia



Total capacity increased by 25%

National Quarries replaced its existing cone crusher with the CH660. The total capacity of the plant has increased by 25%, which is great. Another positive result is the fact that the reduction ratio produced by the Sandvik machine is so much higher it has led to a lot of other benefits.

“The results have been amazing and our investment paid off much quicker than we thought possible.”

National Quarries, UAE





Overview CH/CS 400-600 cone crusher range

Specification	CH420	CH430	CH440	CH660
Nominal capacity - mtph	21 - 135	42 - 215	58 - 336	116 - 646
Max. feed size - mm	155	214	250	321
Motor power - kW	90	132	220	315
Closed side setting (CSS) range - mm	4 - 35	4 - 41	4 - 48	13 - 51
Eccentric throw range - mm	13 - 28	16 - 36	13 - 44	18 - 50
Mantles (inner liners)	A, B, FlexiFeed B, EF, HC	A, B, EF, FlexiFeed B, HC, S	A, B, EF, FlexiFeed A/B, HC	A, B, D, EF, FlexiFeed B
Concaves (outer liners)	EC, C, M, MF, F, EF	EC, C, MC, M, MF, F, EF	EC, C, MC, M, MF, F, EF	EC, CX, C, MC, M, MF, F, EF
Weight - kg (lb)	6,130 (13,513)	10,516 (23,183)	16,617 (36,663)	27,540 (60,716)
Automation (ASRi)	Optional	Optional	Optional	Optional
Lubrication tank	Standard	Standard	Standard	Standard
Offline lubrication filtration unit	Optional	Optional	Optional	Optional

Sandvik offers a wide range of standard, premium and customized crushing chamber solutions based on your needs. They deliver consistently high availability and reliability. We work closely with you to find the best solution for your needs – in performance and safety, and application and material feed properties. Our PlantDesigner software helps you estimate new operating conditions and select the right crushing chamber profile. Contact your local Sandvik rep for more information.

Specification	CS420	CS430	CS440	CS660
Nominal capacity - mtph	70 - 172	99 - 298	291 - 510	314 - 908
Max. feed size - mm	267	400	500	622
Motor power - kW	90	132	220	315
Closed side setting (CSS) range - mm	13 - 35	16 - 54	25 - 57	29 - 83
Eccentric throw range - mm	16 - 25	16 - 30	20 - 36	20 - 40
Mantles (inner liners)	A, B	A, B	A, B, S	A, B
Concaves (outer liners)	EC, C	EC, C, MC	EC, C, MC	EC, C
Weight - kg (lb)	7,188 (15,850)	13,098 (28,872)	21,637 (47,699)	39,747 (87,627)
Automation (ASRi)	Optional	Optional	Optional	Optional
Lubrication tank	Standard	Standard	Standard	Standard
Offline lubrication filtration unit	Optional	Optional	Optional	Optional



Test results and calculations are to be considered as results reached under certain and controlled conditions. These test results and calculations should not be treated as specifications and Sandvik does not guarantee, warrant or represent the outcome of test results or calculations in any or all circumstances.

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