



# DESIGNED TO WORK SMART DELIVERED TO WORK HARD

THE SANDVIK CH/CS 400–600 CONE CRUSHER RANGE



# HARD WORKING, SMART OPERATING CRUSHERS

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 has a connection to Sandvik cloud portal and ASRI 2.0 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.





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MORE THAN  
**6,000**  
CRUSHERS IN OPERATION



**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

## ASRi 2.0

ASRi automatically controls your crusher in real-time to match variations in feed curve and material hardness. Its innovative design enables a wide range of adjustments to promote capacity, product size or both, to maintain optimal crushing performance.

# 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.



## TRAMP IRON PROTECTION

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

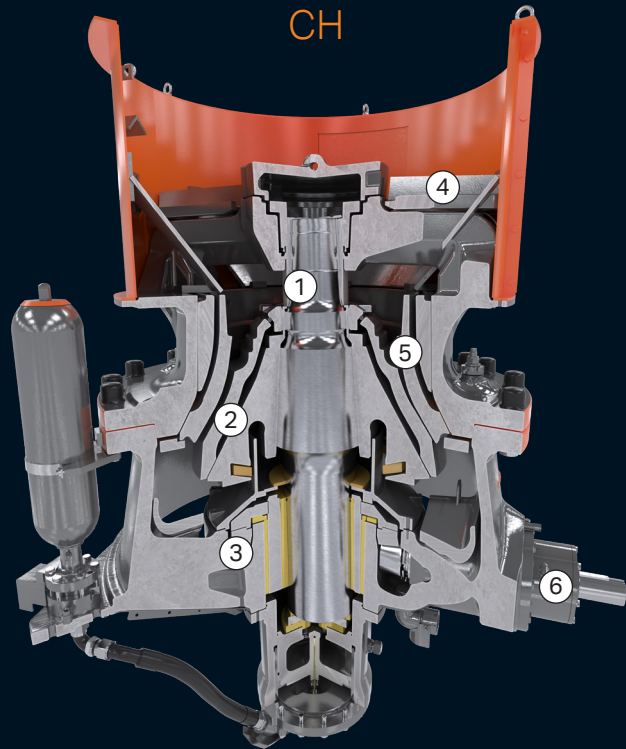
## CONSTANT LINER PERFORMANCE

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

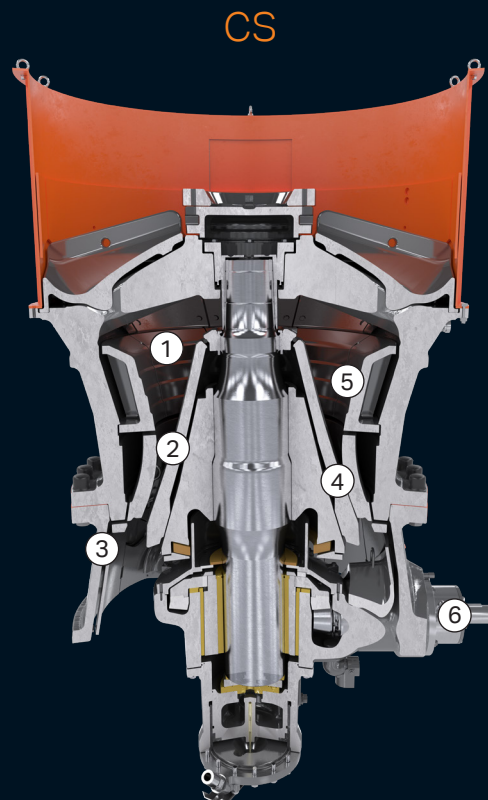


# BEST-IN-CLASS FEATURES

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



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. 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





# WHICH CRUSHER IS BEST FOR YOUR OPERATIONS?

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



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## BUDGET

Your current crushing budget determines the type of crusher you buy.

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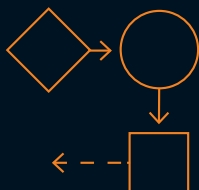


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## PLANS FOR EXPANSION

Are you looking to increase output as your quarry or mine expands operations? If so, then you may need a crusher with the ability to expand capacity as your needs grow.

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## YOUR SPECIFIC PROCESSES

Your processes govern the type of crusher you choose. Our crushers are versatile enough to be quickly adapted to different processes as required, saving the time and cost of installing a new crusher.

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## OUR EXPERTS AT YOUR SERVICE

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. They can also help with the Sandvik Selection Tool to help you choose the crusher you need. There's even a quick guide of which crusher suits you best on our web.



## TOTAL CAPACITY INCREASED BY 25%

National Quarries replaced its existing cone crusher with the CH660. "The results have been amazing and our investment paid off much quicker than we thought possible.

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.

NATIONAL QUARRIES, UAE

## 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 – all backed up by Sandvik's Reliability and Protection package.

## 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 extended 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





## 9 ON A SCALE OF 1-10

"We've been very happy with our CH 430 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

## REPAIR

Sandvik overhaul kits offer you a cost-effective way to trouble-free crushing. You get:

- Genuine parts to ensure your crusher works at its best and safest
- Years of testing in harsh conditions to reduce risk of breakdowns
- Backward compatible component upgrades including bottom shell

## 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.

## RELIABILITY & PROTECTION PACKAGE (R&P)

The Sandvik Reliability and Protection Package gives you peace of mind you need and continuous crushing performance. You will know all about any potential failures or maintenance ahead of time and be able to deal with them proactively, avoiding costly breakdowns and protect against unnecessary expenses. Offering an 85% major component coverage, certified Sandvik engineers document trends and regularly and recommend data-supported maintenance procedures.

R&P includes:

- Warranty coverage
- Periodic inspections
- On-site troubleshooting
- Trend analysis

# OVERVIEW CH/CS 400-600 CONE CRUSHER RANGE



SPECIFICATION	CH420	CH430	CH440	CH660
Nominal capacity - mtph (stph)	23 - 132	26 - 220	50 - 336	116 - 646
Max. feed size - mm (in)	31 - 155	42 - 214	47 - 250	62 - 321
Motor power - kW (hp)	90	132 (177)	220 (245)	315 (422)
Closed side setting (CSS) range - mm (in)	4 - 35	4 - 41 (0.2 - 1.6)	4-48	13 - 51 (0.5 - 2.0)
Eccentric throw range - mm (in)	13 - 28	16 - 36	16 - 44	18 - 50 (0.7 - 1.9)
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, HC, FlexiFeed B
Concaves (outer liners)	EC, C, M, MF, F, EF	EC, C, MC, M, MF, F, EF	EC, C, MC, M, MF, F	EC, CX, C, MC, M, MF, F, EF
Weight - kg (lb)	5,745 (12,665)	10,516 (23,183)	16,620 (36,640)	29,335 (64,672)
Automation (ASRi)	Optional	Optional	Optional	Optional
Lubrication tank	Standard	Standard	Standard	Standard
Offline lubrication filtration unit	Optional	Optional	Optional	Optional



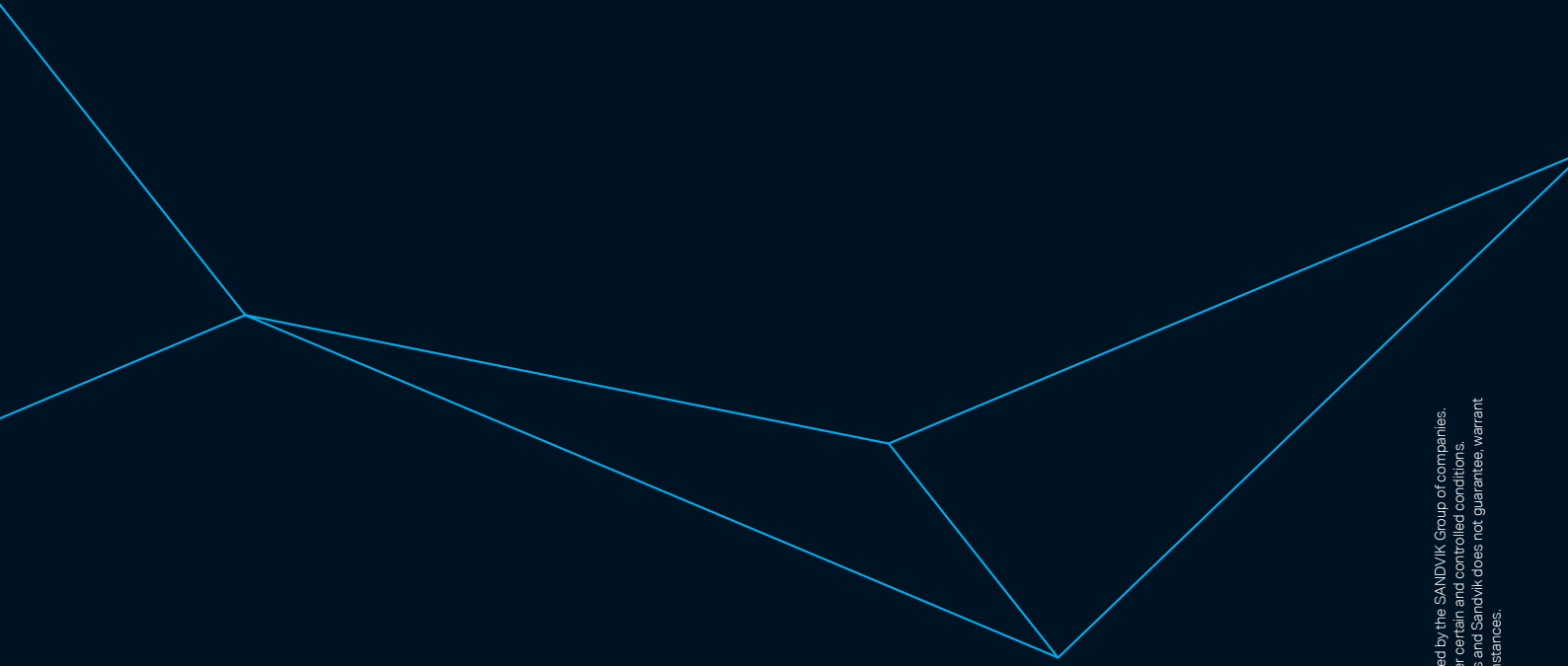
## UNIBODY MAINFRAME

ensures optimal strength  
and less maintenance.



SPECIFICATION	CS420	CS430	CS440	CS660
Nominal capacity - mtph (stph)	77 - 172	99 - 298	291 - 510	314 - 908
Max. feed size - mm (in)	223 - 267	400	335 - 500	556 - 622
Motor power - kW (hp)	90	132	220 (295)	315
Closed side setting (CSS) range - mm (in)	13 - 35	16 - 54	25 - 57	29 - 83
Eccentric throw range - mm (in)	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)	7,200 (15,873)	13,000 (28,660)	21,637 (47,700)	40,255 (88,747)
Automation	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 or Rock Processing Guide helps you estimate new operating conditions and select the right crushing chamber profile. Contact your local Sandvik rep for more information.



BS-1136ENG CH/CS-400-600 Cone Crushers Brochure  
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