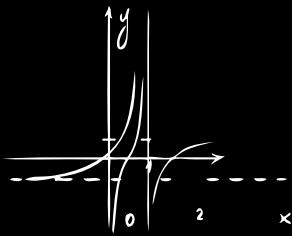


Rock-solid science to master your output



SANDVIK



Faster throughput or reduced fines?

Tune output to your needs.

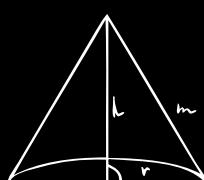
Introducing Optiagg

THE SMART UPGRADE FOR YOUR CRUSHING CHAMBER

We've been in quarries around the world for many years. Not surprisingly, we've learned a thing or two along the way. Like how to engineer machinery to withstand the daily grind. How to create metal that can conquer rock. And how to make a crushing operation far more efficient. We've practically got it down to a science.

Our insight and experience have also led to a new perspective on how we can support our customers' productivity. For example packaging our spare parts together with smart services. We're proud to introduce one of the results – the Optiagg package.

Optiagg is a complete upgrade package for your crushing chamber. It delivers predictable, measurable improvements according to your desired output. Which means more truckloads of the valuable fractions and the power to reduce fines or increase the reduction ratio. The choice is yours.



$$S_p = \pi r^2 \quad S_k = \pi r m \\ S_t = \pi r(r+m) \quad V = \frac{1}{3} \pi r^2 h$$

Need the optimal shape?
Reduce throughput.



14% (25 mtph) 0-2 mm at €0/tonne

CH440 Mf ≈ 180 mtph

Where are the hotspots in your
crushing chamber? Optimize!

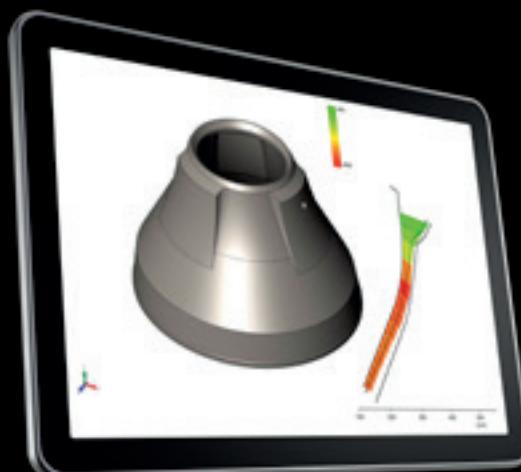
Fine-tune with certainty

SAY GOODBYE TO GUESSWORK

Optiagg includes all the hardware and accessories you need for a complete crushing chamber upgrade – including our brand new, high-efficiency mantle design. But the real breakthrough is the computer modelling and analysis that comes with it.

We can promise the most efficient setup possible and a detailed picture of how your productivity will improve. No guesswork.

With Optiagg, you have much greater control over your production output. We will fine-tune the setup to suit your commercial priorities and provide a forecast of the results you can expect. After the upgrade, we will follow up and validate the outcome. Optiagg's results come from knowledge and insight, not trial and error.



To achieve the customer's desired output, we adjusted the setup so that more material would be crushed in the upper part of the chamber.

Master your output with Optiagg

INCREASE REDUCTION

Crush more, with fine-tuning of the setup to give you more of your desired fractions. Save power and reduce wear and tear with less recirculating load.

- Less recirculating load reduces wear on the mantle and concave ring
- Power consumption is lower as the return conveyor is used less
- Increased proportion of desired fractions
- Particle size is retained

Typical example:

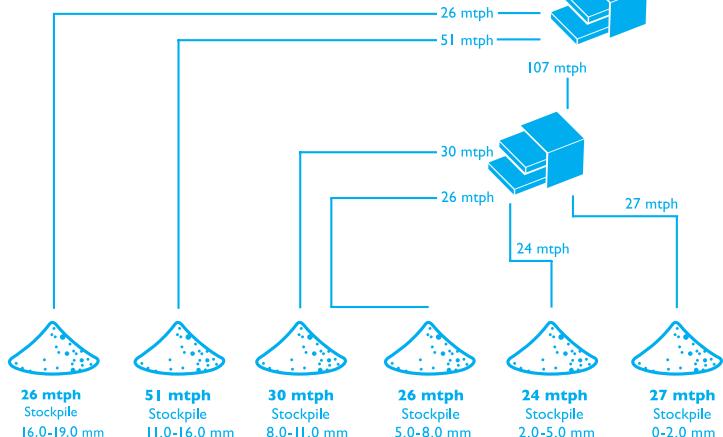
CH440 MF ≈ 185 mtph

Increasing reduction ratio (f80/p80) 3.2 → 3.7

Recirculation from 44 mtph to 22 mtph, 22 mtph more product.

Decreased usage of return conveyor, reduced power draw, less wear and tear.

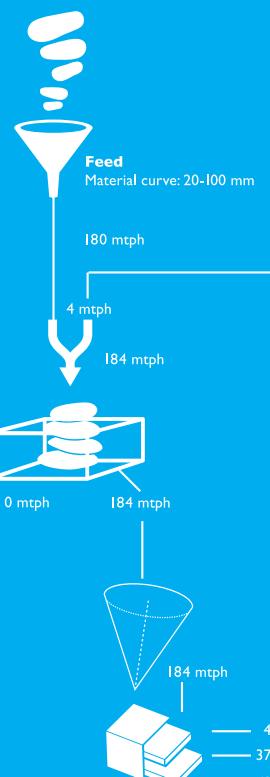
At €1/tonne margin and 1,500 h/year yields €33,000/year



REDUCE FINES

Achieve a significant decrease in fines with minimal loss of productivity. The balance between fines reduction and capacity can be fine-tuned to suit your preference.

- Fines can be reduced without significant loss of capacity, e.g. 25% less fines with only 10% less capacity
- Fines-to-capacity ratio is adjustable



Typical example:

CH440 MF ≈ 180 mtph

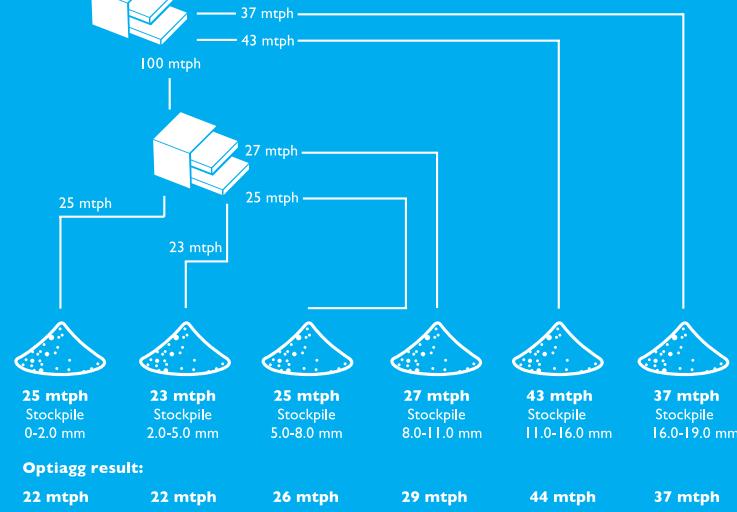
14% (25 mtph)

0-2 mm at €0/tonne

Reducing 0-2 mm by 10% 2.5 mtph more product at €10/tonne €25/h.

Additional sales: Running 1,500 h/year: €37,500/year

Or save material: €15,000 in material cost if raw material cost is €4/tonne



The Optiagg process

SEVEN STEPS TO SUCCESS

When you order the Optiagg package, you can be sure of a thorough and methodical approach to securing the output you want from your Sandvik cone crusher. We always start with a detailed discussion of the specifics of your application and the results you would like to achieve. Then we analyze your current setup and output.

The next stage is computer modelling of your crushing chamber to identify the optimal setup and combination of parts. Following the upgrade, we will analyze your output to confirm the improvement.

DETERMINE YOUR NEEDS

2

SAMPLE CURRENT CRUSHER

3

ENTER RESULTS INTO SOFTWARE

4

OPTIMIZE CRUSHING CHAMBER
SELECTION & PARAMETER VALUES

Want full control
over your output?

Talk to me.

No one can optimize a
Sandvik cone crusher
like we can!

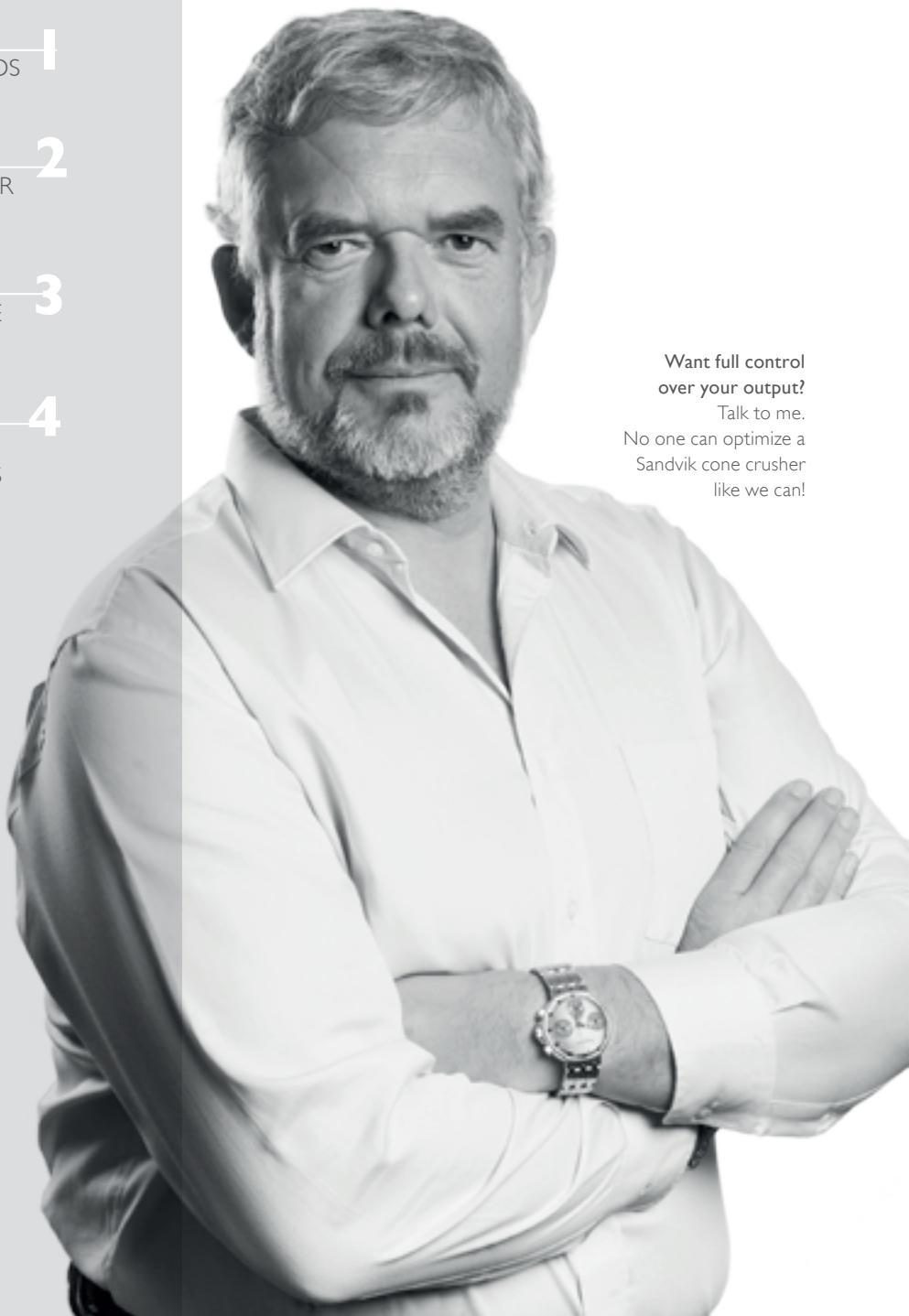
PROPOSAL FOR IMPROVEMENT 5

6

INSTALL HARDWARE
& FINE-TUNE SETUP

7

VERIFY OUTPUT RESULT



Christian Riquet,
Business Line Manager Customer Services
Sandvik Construction France

What's in the package?

The Optiagg package includes everything you need to upgrade your crushing chamber – including the mantle and concave ring as well as all the small additional parts needed to carry out the installation.



“ The Optiagg package has enabled us to reduce production of 0-4 mm and 4-8 mm fractions. We are extremely pleased with the result.

Hans Petter Haugsrud
Litra Grus AS, Lillehammer, Norway

Optiagg in action

Litra Grus, a subsidiary of Veidekke Industri AS, is a leading producer of stone products used in concrete and road surfacing. Over the past 20 years, Sandvik has helped the company deliver a highly consistent product.

Litra Grus was one of the first companies to test the Optiagg package. The challenge was to minimize fines and reduce the proportion of smaller fractions (4-8 mm), where there was some overproduction.

Sandvik sampled current output and analyzed the crushing chamber arrangement. We then proposed a new setup with a different mantle type.

The new setup led to a major improvement. The ratio of fines to premium product (8-11 mm) decreased from 2.5 to 1.7. Independent tests have confirmed the result, which will lead to significant savings.



Sandlock™: raising safety standards

We've made it safer, easier and faster to change the mantle and concave ring on Sandvik cone crushers. Sandlock™ is a specialized lifting device that greatly simplifies the process. Self-locking jaws attach and release easily from the wear parts, eliminating the need to weld on attachment points. Fully CE certified, Sandlock™ handles the weight of the main shaft and is designed to fit new and worn crushing chambers.



The Optiagg package includes a brand new mantle design for the ultimate in crushing-chamber efficiency.

Discover what Sandvik can do for your bottom line. Visit:

www.construction.sandvik.com



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