**TURNING INHERENT ISSUES INTO INTRINSIC SOLUTIONS**

Innovation is more than our end goal. It’s our state of mind. We don’t just work towards it — we work within it.

This mindset has powered Sandvik since our founding in 1862. Precise solutions are the natural byproduct of constant improvement. To that end, we’ve created a patented Compressor Management System (CMS) to tackle two of the primary issues facing drillers today — increasing productivity and reducing environmental impact.

**VALUE IN EVERY MODE**

**Start-Up:** CMS holds the inlet butterfly closed to allow the engine to crank, start, and accelerate to low idle, making the drill much easier to start.

**Off Load:** When the compressor is off load, the CMS regulates receiver pressure and evacuates the main compressor, thus reducing engine load and compression where air is not needed.

**On Load:** When the compressor is on load, the CMS throttles the volume of the compressor to deliver the desired up-hole velocity so no air is wasted with excess pipe and bit wear.

**Shutdown:** CMS unloads the compressor from the engine to allow for cooler shutdown, extending turbo and engine life.

*"The Sandvik CMS will save us thousands of gallons of fuel every year. It was a classic no-brainer."*
– Mark Gilbertson, Director of Asset Management, Cloud Peak Energy

“Sandvik’s AutoMine® Technology, complete with Sandvik’s iSure® Monitoring System and Sandvik’s CMS will continue to transform the mining industry by enhancing safety and productivity for our customers. The new features provide an incremental step forward in the evolution of including innovative technology to support sustainable and secure operations.”
– Kåre Bliddal, Global President Sandvik Mining and Rock Technology

*REDUCE IMPACT IMPROVE EFFICIENCY*

**COMPRESSOR MANAGEMENT SYSTEM**
THE SANDVIK CMS ADVANTAGE

BOOST PRODUCTIVITY AND REDUCE EMISSIONS

HOW IT WORKS

The system works by isolating the compressor and eliminating the need to maintain pressure when the machine is not drilling. This reduces the load on the engine, saving you a significant amount of fuel and reducing wear and tear on your engine.

SERIOUS SAVINGS

Customers who implement our compressor management system could achieve a cumulative savings as high as $2,500,000* over 10 years.

CUSTOMER RESULTS

22.9
GALLONS
W/OUT CMS

86.7
LTR/HR
W/OUT CMS

16.9
GALLONS
W/OUT CMS

64
LTR/HR
W/OUT CMS

$0
$250k
$500k
$750k
$1M
$1.25 M
$1.5 M
$1.75 M
$2 M
$2.5 M
$2.5 M IN SAVINGS OVER 10 YRS

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

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MAINTENANCE INTERVALS EXTENDED

CUSTOMERS EXPERIENCED A SAVINGS OF $108,000/YEAR

REDUCED CARBON EMISSIONS by 300t

INCREASED ENGINE AND COMPRESSOR LIFE

+20-35%
LESS FUEL CONSUMPTION

REDUCE DRILL BIT & DRILL PIPE WEAR

20-35%