



# D55SP/D75KS

ROTARY BLAST HOLE DRILLS





# A HISTORY OF INNOVATION 1862 – PRESENT

Only one thing can take a company from a small town in Sweden to a worldwide operation. Innovation. With it, we've created a legacy of problem-solving with an unwavering commitment to quality.

**That means every Sandvik product is a product you can depend on.**



# VERSATILE PRODUCTION YIELDS MORE PRODUCT

## BUILT TO LAST!

Rotary blasthole drills from Sandvik set the standard for productivity, durability, and cost effectiveness. These machines are built for continuous drilling in some of the harshest operating environments in the world. Proven designs, rigid lattice style masts, heavy duty pulldown chains, and durable power groups place these rigs in a class of their own. Choose the right Sandvik rig for your needs and count on it to perform for years to come.

### PROVEN DRILLS FOR DEPENDABLE OPERATION

The D55SP and D75KS are two unique, large diesel-powered, crawler-mounted blasthole drills. Based on the same platform, but with different standard configurations and well developed options, each machine is built for optimum performance in a broad range of mining applications. With their heavy-duty frames and undercarriages, it is no wonder they have built such a reputation for longevity and solid performance.

### SANDVIK D55SP

The D55SP comes with low-pressure air for rotary drilling or high-pressure air for down-the-hole (DTH) drilling. The drill excels in single pass drilling, where productivity increases significantly, in particular in soft and medium hard rock. Also in angle drilling which is a standard feature.

- 172 to 254 mm (6 3/4" to 10") diameter holes
- Single pass depths up to 17 m (55')
- Pulldown 200 kN (45,000 lbf)
- Bit load up to 232 kN (52,000 lbf)

### SANDVIK D75KS

The D75KS comes with low pressure air for rotary drilling. Optional high pressure compressors add flexibility to drill with 8" hammers. It is a rugged and time-proven design often found in stripping applications in coal or metals mining.

- 229 to 279 mm (9" to 11") diameter holes
- Multi-pass drill for up to 53 m (173') high benches
- Pulldown 334 kN (75,000 lbf)
- Bit load up to 409 kN (92,000 lbf)



# KEY PRODUCT FEATURES

**01**

Rigid lattice style masts and heavy duty pulldown chains are part of the package that make Sandvik's D25KS and D245S blasthole drills top performers in a class of their own. The angle drilling option is one of the many features that drive this performance in an impressive range of applications. The mast can be set in 5° increments, from 0 to 30° for the D75 and 0 to 20° for the D55.

**02**

The effective handling of drill pipe contributes to shorter cycle times and more holes drilled.

**03**

Increasing the driller's comfort and functionality supports a safer environment and contributes to greater work output.

**04**

Sandvik hydraulic systems manage power operation with few moving parts, produce abundant power, work under extreme operating conditions, and are self lubricating.

**05**

Moving and set-up are important parts of the drilling cycle. To overcome the rugged terrain in a mining environment, Sandvik drills deliver top performance from strong, structurally sound undercarriages and heavy duty frames.

**06**

These drills have solid engine and compressor options that provide the right combination for each drilling condition. The engine and compressor range allows for optimized hole flushing and the most power for down-the-hole (DTH) drilling. Operating at lower speeds and load factors assures longevity. Additional factors like load sensing and fan speed controls add performance.

**07**

Operators need an open well-designed work deck area. These drills offer the quick access that keeps you up and running.

# D55SP/D75KS



01 ▲

02 ▲

04 ▲

06 ▼

▼ 03

07 ▲

▲ 05

# 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.

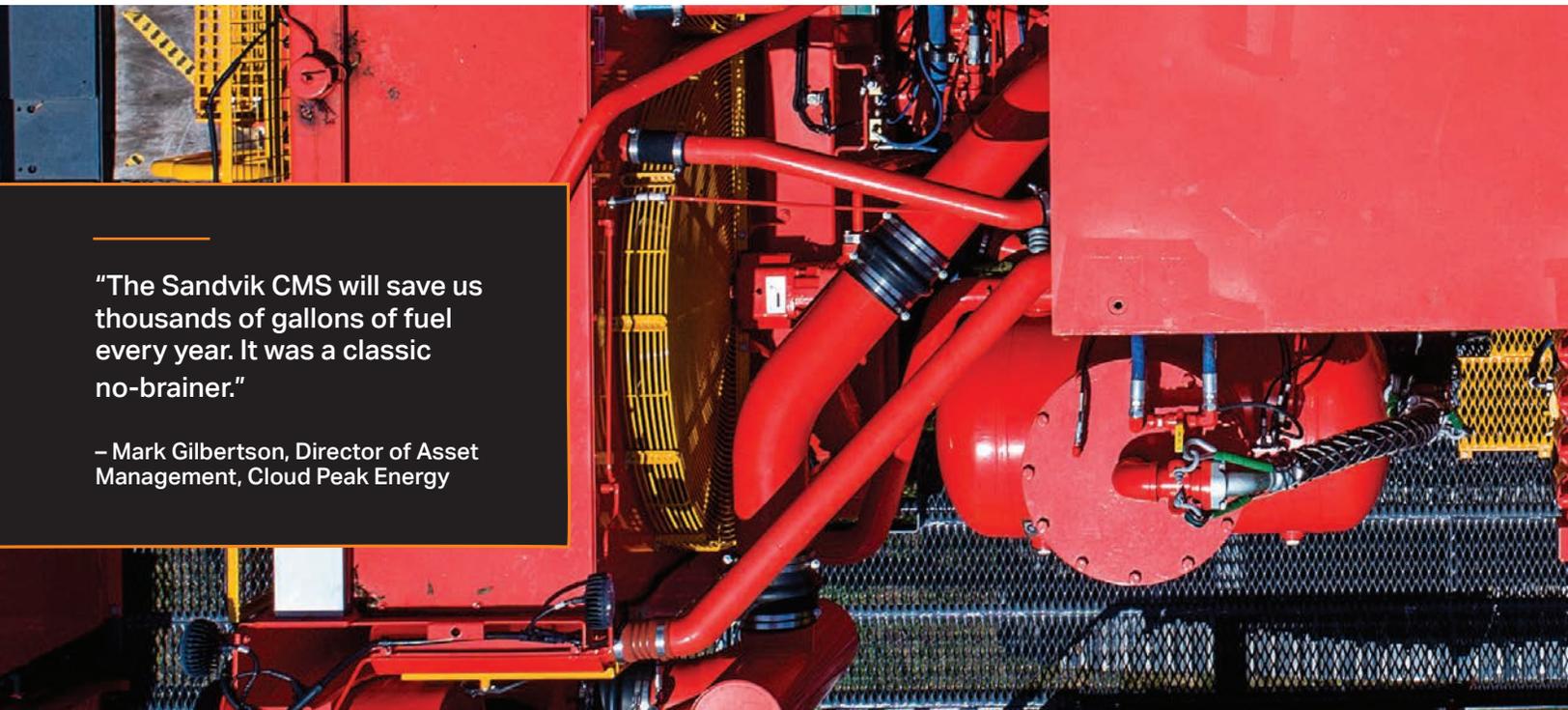
## VALUE IN EVERY MODE

**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 when 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 engine shutdown, extending turbo and engine life.



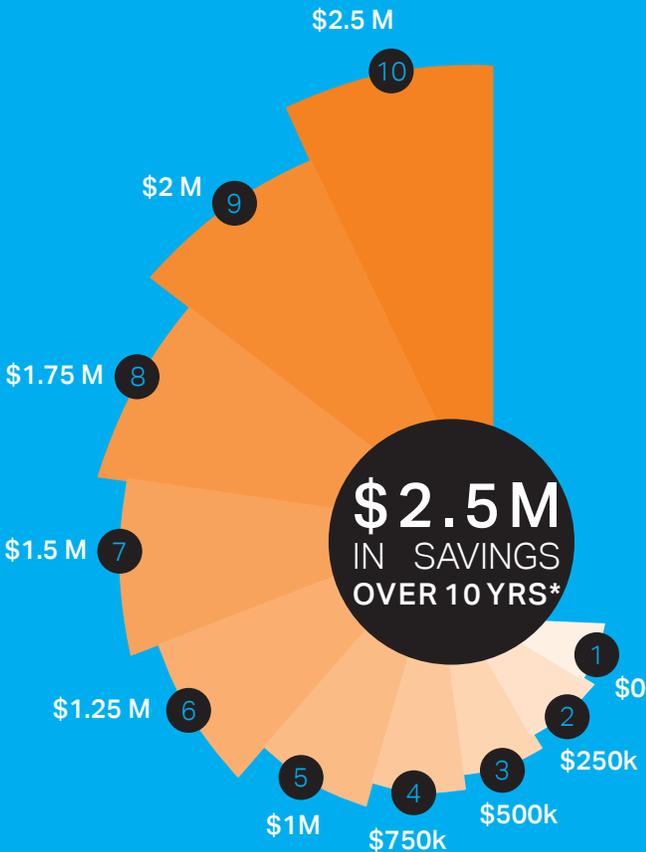
"The Sandvik CMS will save us thousands of gallons of fuel every year. It was a classic no-brainer."

– Mark Gilbertson, Director of Asset Management, Cloud Peak Energy

# INCORPORATING OUR REVOLUTIONARY CMS SYSTEM TO BOOST PRODUCTIVITY.

Sandvik's patented CMS solves the inherent inefficiencies of rotary blasthole drills that have a direct connection between the engine and compressor. Isolating the compressor reduces the load on the engine by eliminating the need to maintain pressure when the machine is not drilling.

IN ADDITION TO REDUCING THE CARBON FOOTPRINT OF MINES AND DRILL SITES, THE CMS MAKES A TANGIBLE IMPACT ON PRODUCTIVITY.



\*actual results may vary depending upon operating conditions.



REDUCED CARBON EMISSIONS by 300t



INCREASED ENGINE AND COMPRESSOR LIFE

20-35% LESS FUEL CONSUMPTION



MAINTENANCE intervals EXTENDED



# MACHINE SPECIFICATIONS

## D55SP/D75KS

<b>D55SP</b>	<b>METRIC</b>	<b>IMPERIAL</b>
Hole diameter	172-254 mm	6 3/4"-10"
Maximum hole depth - Single-pass	32 m	105'
First pass capability - Single-pass	17 m	55'
<b>FEED</b>		
Maximum pulldown	200 kN	45,000 lbf
Maximum bit load	232 Kn	52,000 lbf
Feed rate up/down - Single-pass	0-35.4 m/min	0-116 fpm
<b>ENGINE, CAT C27* (NON TIER 4)</b>		
Power	652 kW	874 hp
RPM	2,100 rpm	
High pressure	38.2 m <sup>3</sup> /min	1,350 scfm
DTH	24.1 bar	350 psi
<b>ENGINE, CUMMINS QSK23* (NON TIER 4)</b>		
Power	708 kW	949 hp
RPM	1,800 rpm	
Low pressure	56.6 m <sup>3</sup> /min	2,000 scfm
Rotary	6.9 bar	100 psi
<b>HOIST</b>		
Hoist rate	0-61.6 m/min	0-202 fpm

\*Optional power group shown - consult factory for other configurations

<b>D75KS</b>	<b>METRIC</b>	<b>IMPERIAL</b>
Hole diameter	229-279 mm	9"-11"
Maximum hole depth - Single-pass	63.4 m	208'
First pass capability - Single-pass	102. m	33.6'
<b>FEED</b>		
Maximum pulldown	334 kN	75,000 lbf
Maximum bit load	409 kN	92,000 lbf
Feed rate up/down - Single-pass	0-27 m/min	0-89 fpm
<b>ENGINE, CAT C27*</b>		
Power	652 kW	874 hp
RPM	2,100 rpm	
High pressure	41.0 m <sup>3</sup> /min	1,450 scfm
DTH	24.1 bar	350 psi
<b>ENGINE, CUMMINS QSK23*</b>		
Power	708 kW	949 hp
RPM	1,800 rpm	
Low pressure	56.6 m <sup>3</sup> /min	2,000 scfm
Rotary	6.9 bar	100 psi
<b>HOIST</b>		
Hoist rate	0-49 m/min	0-114 fpm

\*Optional power group shown - consult factory for other configurations





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