D45KS/D50KS
ROTARY BLAST HOLE DRILLS
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.
SOLID PERFORMANCE IN MID-RANGE DRILLS

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 D45KS and D50KS are two of the most trusted mid-range diesel powered, self propelled 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. First pass capability is 8.7 m (28’ 6”).

SANDVIK D45KS
The D45KS comes with high pressure air for down-the-hole (DTH) drilling, most commonly in gold mining or quarrying. The drill excels in most applications where DTH is used and maximum reliability is a requirement

- 165-222 mm (6 1/2 to 8 3/4”) diameter holes
- Drilled depths up to 63 m (208’)
- Pulldown 200 kN (45,000 lbf)
- Bit load up to 244 kN (55,000 lbf)

SANDVIK D50KS
The D50KS comes with a low pressure compressor for rotary drilling. Thanks to its upgraded and heavy duty hydraulic system, the D50KS delivers the rotary horsepower for maximum productivity throughout its hole size range. It is often found in coal mining applications

- 152 to 229 mm (6” to 9”) diameter holes
- Drilled depths up to 45 m (148’)
- Pulldown 222 kN (50,000 lbf)
- Bit load up to 267 kN (60,000 lbf)
KEY PRODUCT FEATURES

01 Rigid lattice style masts and heavy duty pulldown chains are part of the package that make Sandvik’s D45KS and D50KS 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 drilling angle holes.

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.
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 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
IN ADDITION TO REDUCING THE CARBON FOOTPRINT OF MINES AND DRILL SITES, THE CMS MAKES A TANGIBLE IMPACT ON 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.
MACHINE SPECIFICATIONS
D45KS/D50KS

<table>
<thead>
<tr>
<th></th>
<th>D45KS</th>
<th>D50KS</th>
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<tbody>
<tr>
<td><strong>HOLE</strong></td>
<td></td>
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</tr>
<tr>
<td>Diameter</td>
<td>165-222 mm</td>
<td>152-229 mm</td>
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<tr>
<td>Maximum depth</td>
<td>63 m</td>
<td>45 m</td>
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<tr>
<td>First pass</td>
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<td><strong>FEED</strong></td>
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<td>Pulldown</td>
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<tr>
<td>Bit load</td>
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<td>267 kN</td>
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<tr>
<td>Up/down rate</td>
<td>0-38 m/min</td>
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<tr>
<td>Power</td>
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<tr>
<td>RPM</td>
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<td>6.9 bar</td>
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<tr>
<td>Rate</td>
<td>0-49 m/min</td>
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*Optional power group shown - consult factory for other configurations*