Sandvik is a high-technology engineering group with world-leading positions in selected areas – tools for metal working, advanced materials technology, and mining and construction. We are represented in 130 countries.

Sandvik Mining and Construction represents one third of the overall Sandvik Group and serves a broad range of customers in construction, mineral exploration, mining and bulk materials handling. Our construction expertise covers quarrying, tunneling, demolition and recycling, and other civil engineering applications. Our mining products and services support customers on the surface and underground, in all mineral, coal, and metal mining applications from exploration to ore transportation.

D45KS/D50KS Brochure

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The D45KS comes with low pressure air for rotary drilling. It can be equipped with high pressure air for down-the-hole (DTH) drilling, most commonly in gold mining or quarrying. The drill also excels in any application where a combination of DTH and rotary drilling is used and maximum reliability is a requirement.

- **D45KS**
  - 152 to 229 mm (6" to 9") diameter holes
  - Drilled depths up to 63 m (208')
  - Pulldown 200 kN (45 000 lbf)
  - Bit load up to 244 kN (55 000 lbf)

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.

- **D50KS**
  - 152 to 229 mm (6" to 9") diameter holes
  - Drilled depths up to 63 m (208')
  - Pulldown 222 kN (50 000 lbf)
  - Bit load up to 267 kN (60 000 lbf)

**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. Structural strength, easy maintenance, and world-wide support, all maximize drilling time and keep you on top of your production schedule. Sandvik also offers the world’s widest range of tools and accessories for rock drilling. Equip these drills with products that are renowned for quality and high performance and you build a complete drilling system unmatched in productivity. 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").

Consider Sandvik your source for equipment that meets the challenges of adapting to rugged mining environments. The D45KS and D50KS have proven their worth around the world in the mines and quarries of Australia, North and South America, Africa, and Asia, most commonly in coal, gold, and iron ore. These drills are rugged, and dependable, with downtime at a minimum. Plenty of power to get the job done. With these aggressive drills in your fleet you can focus on your real work. Production.
PRODUCTIVE OPERATOR’S ENVIRONMENT
- Excellent visibility of the drilling operation
- Higher productivity with quicker hole spotting
- Fast set-up for drilling
- Comfortable environment with shock mounted cab
- Roller sunshades to reduce glare
- Thermal insulation and noise reduction to 81.8 dBA
- Drill controls arranged logically on the console
- Air conditioning/heating/pressurizing unit for operator comfort with less fatigue
- FOPS approved in compliance with mining safety requirements
- Extended cab provides ample work space for a trainer

EFFICIENT HYDRAULICS
- Closed loop system for rotation, feed, track and fan circuits
- Reduces power consumption
- Large 511 L (135 gal) pressurized hydraulic oil reservoir
- Reduces the number of oil cycles
- Lowers oil temperatures
- Extends service intervals
- 3 µm (3 micron) filtration
- Insures cleaner system
- Extends component life
- Lowers maintenance costs

POWERFUL DRILLING PLATFORM
- Wide flange I-beam rails on main frames
- WF 14 x 74, ASTM alloy A572, grade 50 steel
- Solid support for mounted components
- 330 class undercarriage
- Excellent stability for the drill
- Total reliability on difficult grades
- Hydrostatic drive power: 130 kW (175 hp) per track (D45KS - D50KS)
- Delivers top slewing power for faster hole spotting
- Fixed axle under the mast pedestal
- Equalizer axle at the other end of the tracks
- Effective side to side movement
- Stress reduction on the frame for longer frame life
- More fatigue resistance and increased mobility

OPTIMIZED POWER DELIVERY
- Diesel engines, matched for high or low pressure compressors and required volume
- Long life and lower fuel consumption
- Tier III C15, C18 or QSX15 engines rated 354 - 470 kW (475 - 630 hp)
- Most effectively operate at 1800 rpm
- Provide optimum power at lower cycling times and better efficiency
- Full range of compressors producing
- 25.5 - 37.4 m³/min (900 - 1323 SCFM) @ 6.9 or 24.1 Bar (100 - 350 psi)
- Compressor is mounted directly to the flywheel housing
- Engine with the engine for efficient power transfer
- 54°C (120° F) ambient temperature cooling system
- Direct drive fan
- Fan is hydraulically delayed during start-up of engine for maximum torque
- Optional cold weather package lowers the temperature range from 9 gpd conditions down to arctic weather
Solid design for top production

**EFFECTIVE PIPE HANDLING**
- The pipe size for the D45KS and D50KS is 9.14 m (30') long pipes in diameters 114 - 178 mm, (1/2" to 7") in alternative loaders.
- Four-pod or six-pod loaders, both inside mast are available.
- Flexible hose lengths.
- Extended hose length.
- Pipe loading is controlled from the operator's cab.
- The hydraulic auto tong wrench.
- Fluids service center option for filling fuel, hydraulics, and water and for hydraulic evacuation.
- Ease in service and maintenance.
- Lower maintenance and drill pipe cost.

**EXCELLENT SERVICEABILITY**
- D45KS and D50KS open in-line design - with all components very accessible.
- Ease in service and maintenance.
- Centralized operation stations, manual or electric, available for lubricating.
- Reduce wear at main pipe joints.
- Increase serviceability.
- Base of availability of the drills.

**Benefits**
- Increased productivity with 6" hammer.
- Improved hole cleaning.
- Advanced chip removal and dust suppression.
- Meets or exceeds regulatory standards.
- Improved cleaning of large holes.
- Cleaner operation.
- Speed of serving.
- Extended cab and connecting walkway.

**Technical Data**

### D45KS
- **Hole diameter** 152 mm - 229 mm (6" - 9")
- **Drill pipe** 9,14 m (30')
- **Drill pipe** 63 m (208')
- **Undercarriage** 330 class Excavator
- **Max pullout** 200 kN (4 500 lbf)
- **Bill load** 244 kN (55 000 lbf)
- **Engine** 354 kW (475 hp)
- **Compressor** 25,5 m³/min (900 scfm)
- **Compressor** 6,9 Bar (100 psi)
- **Feed rate** 0-38 m³/min (0-125 fpm)
- **Hose rate** 0,49 m³/min (0-160 fpm)
- **Rotation speed** 0-126 RPM
- **Rotation torque** 9934 Nm (87 921 in-lb)
- **Operating wt** 47 727 kg (105 000 lb)

### D50KS
- **Hole diameter** 152 mm - 229 mm (6" - 9")
- **Drill pipe** 9,14 m (30')
- **Hole depth** 45 m (148')
- **Undercarriage** 330 class Excavator
- **Max pullout** 222 kN (50 000 lbf)
- **Bill load** 267 kN (60 000 lbf)
- **Engine** 354 kW (475 hp)
- **Compressor** 29,7 m³/min (1050 scfm)
- **Compressor** 6,9 Bar (100 psi)
- **Feed rate** 0-38 m³/min (0-125 fpm)
- **Hose rate** 0,49 m³/min (0-160 fpm)
- **Rotation speed** 0-126 RPM
- **Rotation torque** 9934 Nm (87 921 in-lb)
- **Operating wt** 47 727 kg (105 000 lb)

### D45KS popular options
- Compressors options 28,3 m³/min (1000 SCFM) @ 24,1 Bar (350 psi), Cat or Cummins
- 34,7 m³/min (1323 SCFM) @ 6,9 Bar (267 psi)
- Compressors available up to 34,7 m³/min (1323 SCFM) @ 6,9 Bar (267 psi)
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### Technical Data

**Technical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Mast up (height)</td>
<td>11,4 m</td>
<td>16 m</td>
</tr>
<tr>
<td>B Batter height to drill table</td>
<td>9,9 m</td>
<td>32,8/5.0</td>
</tr>
<tr>
<td>C Track to track measurement</td>
<td>2,2 m</td>
<td>7&quot;</td>
</tr>
<tr>
<td>D Outside deck to centerline drill table</td>
<td>2,6 m</td>
<td>8&quot;</td>
</tr>
<tr>
<td>E Track to track outside measurement</td>
<td>3,7 m</td>
<td>12&quot;</td>
</tr>
<tr>
<td>F Outside deck to opposite track (outside)</td>
<td>4,4 m</td>
<td>14&quot;</td>
</tr>
<tr>
<td>G Overall machine width (operating)</td>
<td>4,9 m</td>
<td>16&quot;</td>
</tr>
<tr>
<td>H Height ground to top work deck (mast down)</td>
<td>5,9 m</td>
<td>19&quot;</td>
</tr>
<tr>
<td>I Ground level to top of drill table (mast down)</td>
<td>4,8 m</td>
<td>15&quot;</td>
</tr>
<tr>
<td>J Ground level to top of air unit on cab</td>
<td>3,78 m</td>
<td>12 4/5&quot;</td>
</tr>
<tr>
<td>K Ground level to jack pad (jack retracted rear)</td>
<td>0,47 m</td>
<td>16 1/2&quot;</td>
</tr>
<tr>
<td>L Centerline of jack to idler sprocket (front)</td>
<td>1,1 m</td>
<td>3 7/14&quot;</td>
</tr>
<tr>
<td>M Centerline of idler to drive sprocket (front)</td>
<td>3,6 m</td>
<td>11 1/2&quot;</td>
</tr>
<tr>
<td>N Centerline of rear jack to centerline front jack (front)</td>
<td>6,9 m</td>
<td>22 8/10</td>
</tr>
<tr>
<td>O Ground level to jack pad (jack retracted rear)</td>
<td>0,62 m</td>
<td>2 1/2&quot;</td>
</tr>
<tr>
<td>P Centerline idler to centerline axle</td>
<td>0,68 m</td>
<td>2 2/7</td>
</tr>
<tr>
<td>Q Drill length (mast up)</td>
<td>10,3 m</td>
<td>33 1/4&quot;</td>
</tr>
<tr>
<td>R Drill length to timing chain adjuster (mast down)</td>
<td>13,8 m</td>
<td>40 5/10</td>
</tr>
<tr>
<td>S Drill length overall (mast down)</td>
<td>14,1 m</td>
<td>40 4/8</td>
</tr>
<tr>
<td>T Ground level to deck frame (height)</td>
<td>11,1 m</td>
<td>40 4/8</td>
</tr>
<tr>
<td>U Ground level to top (head air piping) (mast down)</td>
<td>4,3 m</td>
<td>17 1/2</td>
</tr>
<tr>
<td>V Ground level to top safety hoop (mast down)</td>
<td>4,61 m</td>
<td>15 1/8&quot;</td>
</tr>
</tbody>
</table>