



SANDVIK D25KS DTH BLAST HOLE DRILL

TECHNICAL SPECIFICATION

The Sandvik D25KS is a diesel powered, self-propelled crawler mounted blasthole drill for mining and large scale quarrying. This production drill comes complete with a high pressure power group for down-the-hole hammers. It drills 127 to 172 mm (5" to 6 3/4") diameter holes.

- First Pass hole depth is 8.65 m (28' 5")
- Maximum hole depth up to 27 m (88')
- Pulldown is up to 124 kN (27,800 lbf)
- Bit Load is 143 kN (32,000 lbf)
- Pullback is up to 68.7 kN (15,444 lbf)



PERFORMANCE

| | Metric | Imperial |
|-------------------------|--------------|-----------------|
| Hole diameter | 140 - 172 mm | 5 1/2" - 6 3/4" |
| Maximum hole depth (sp) | 27 m | 88' |
| Drill pipe | 9.14 m | 30' |
| Maximum pulldown | 124 kN | 27,800 lbf ft |
| Maximum pullback | 68.7 kN | 15,444 lbf |
| Maximum bit load | 143 kN | 32,000 lbf |
| Feed rate | 0 - 32 m/min | 0-105 fpm |
| Operating weight* | 33,566 kg | 74,000 lb |

*Weights are approximate and subject to change without notice. All performance figures are theoretical and at 100% systems efficiency.

POWER GROUP

| | Metric | Imperial |
|------------------------|--------------------------|----------|
| Rated horsepower | 417 kW | 560 hp |
| Full load rpm | 1,800 RPM | |
| Standard ambient range | 54°C | 130°F |
| Fuel tank | 757 L | 200 gal |
| Volume | 25.5 m ³ /min | 900 scfm |
| Pressure | 21.1 bar | 350 psi |

FRAME AND INTEGRAL JACKS

| | Metric | Imperial |
|----------------------|--|-----------------------------------|
| Main frame | CAD/FEA designed, wide flange beam main rails w/ heavy cross bracing reinforced at high-stress areas | |
| Walkways | Full right side walkway with handrail, allows access from the cab to the right side of the machine. Not available with extended cab. | |
| Lifting hooks | Welded, 2 front, 2 rear | |
| Leveling Jacks | Three | |
| Pad connection | Ball and pinned socket | |
| Pad diameter | 457 mm | 18" |
| Pad ground clearance | 647 mm front, 495 mm rear | 25 1/2" 19 1/2" when retracted |

UNDERCARRIAGE

| | Metric | Imperial |
|-------------------------|-----------------------|---------------------|
| Model | Sandvik S25HD | |
| Pad width | 600 mm | 23 - 3/5" |
| Pad type | Triple grouser | |
| Width over tracks | 3.35 m | 11' |
| Tram speed | 2.6 km/h 4.67 km/h | 1.6 mph 2.9 mph* |
| Gradeability, mast down | 49% | |

MAST

| | Metric | Imperial |
|------------------------|--|---|
| Construction | Rectangular tubing, welded/ stress relieved, CAD designed, spray transfer welding method w/beveled toe joints, recessed side members | |
| Steel grade | ASTM A500, grade B | |
| Main chord size | 127 x 7.6 x 0.63 mm front 102 x 7.6 x 0.63 mm rear | 5" x 3" x 1/4" front 4" x 3" x 1/4" rear |
| Width over chords | 1321 mm | 52" |
| Depth over chords | 762 mm | 30" |
| Standard length | 12.6 m 10.4 m head stroke | 497 1/2" 408" head stroke |
| Pivot and raising area | 12.7 mm (1/2") back plate with full-length cylinder to pivot lugs to distribute stress | |
| Mast pivot bearings | Dowel pinned to take shear load | |
| Pivot bushings | Replaceable alloy aluminum bronze | |

FEED SYSTEM

| | Metric | Imperial |
|--------------------|---|-------------------|
| Feed type | Hydraulic cylinder and chain | |
| Brake | Spring set, hydraulic release | |
| Chain type | Heavy series roller chains with heavy side bars and through hardened pins | |
| Chain size | 51 mm pitch | 2" |
| Rotary head stroke | 10.4 m | 34' |
| Bit load | 143 kN | 32,000 lbf |
| Chain adjustment | 51 mm alloy threaded rods | with 2" lock nuts |

HYDRAULIC SYSTEM

| | Metric | Imperial |
|---------------------------|------------------------------------|--------------|
| Oil reservoir | 511 L w/sight glass | 135 gal |
| Reservoir pressurization | 34.5 kPa air, filtered breather | 5 psi |
| Reservoir refill capacity | 700 L | 185 gal |
| Standard ambient rating | 40 to +100°C | 40 to +212°F |

ROTARY HEAD

| | Metric | Imperial |
|--|--|------------------------------|
| Rotary Power | 99 kW | 133 hp |
| Std. rotary spd/torq | 114 rpm @ 8,282 Nm | 73,300 in-lb |
| Opt. rotary speed/torque | 138 rpm @ 6,851 Nm 171 rpm @ 5,536 Nm | 60,635 in-lb 49,000 in-lb |
| Alternate 2 speed head speed/torque | 114 rpm @ 8,282 Nm 114 rpm @ 8,282 Nm | 73,300 in-lb 49,000 in-lb |

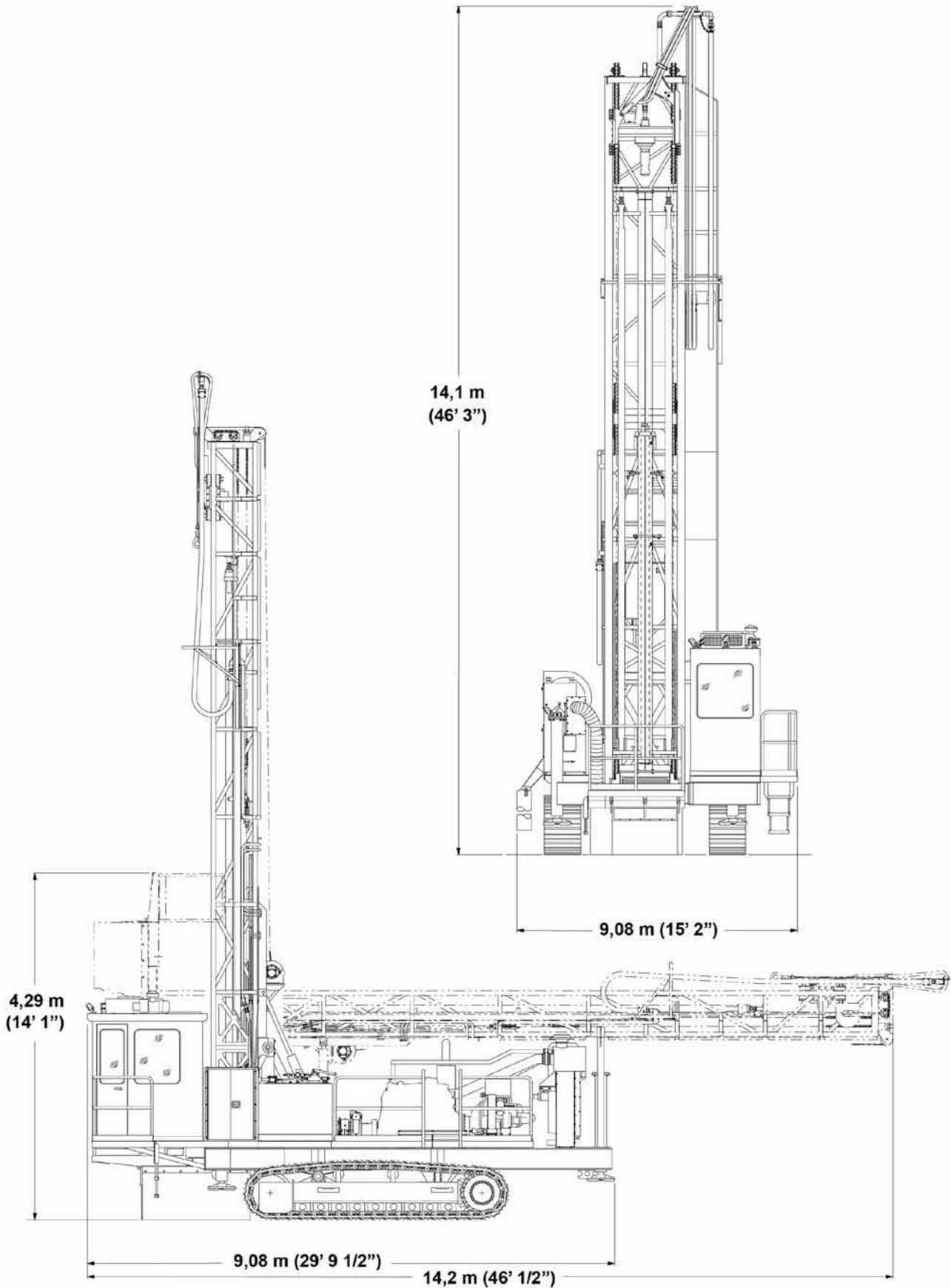
DIMENSIONS

| | Metric | Imperial |
|-------------------------------|--------|------------|
| Mast up height | 14.1 m | 46' 3" |
| Operating width | 9.08 m | 15' 2" |
| Mast down length | 14.2 m | 46' 7 1/2" |
| Mast down height w/ work deck | 4.29 m | 14' 1" |
| Mast up length | 9.08 m | 29' 9 1/2" |

WEIGHT

| | | |
|----------------------|-----------|------------|
| Base unit less tools | 33,566 kg | 74,000 lbs |
|----------------------|-----------|------------|

Dimensions are per engineering drawings, actuals may vary slightly. Weights are approximate and subject to change without notice. All performance figures are theoretical and at 100% systems efficiency.



Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.