



SANDVIK D245S ROTARY BLAST HOLE DRILL

TECHNICAL SPECIFICATION

The Sandvik D245S is a diesel powered, self-propelled crawler mounted blasthole drill for mining. This production drill comes with a low-pressure power group for rotary drilling in medium hard rock conditions like those found in coal, copper and gold mines. It drills 127 to 203 mm (5" to 8") diameter holes. The D245S delivers the most performance from a compact production drill.

- Maximum depth up to 45 m (148')
- First pass capability is 8,65 m (28' 5")
- Maximum pulldown of 185 kN (41 600 lbf)
- Maximum bit load 209 kN (47 000 lbf)



PERFORMANCE

	Metric	Imperial
Hole diameter	127 - 203 mm	5" - 8"
Maximum hole depth (sp)	45 m	148'
Drill pipe	9,14 m	30'
Maximum pulldown	185 kN	41 500 lbf
Maximum pullback	68.7 kN	19,586 lgh
Maximum bit load	20,412 kg	45,000 lb
Feed rate	0 - 21 m/min	0-68 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	343 kW	460 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	6.9 bar	100 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	23.6"
Pad type	Triple grouser	
Width over tracks	3.35 m	11'
Tram speed	3,1 km/h	1.9 mph
Gradeability, mast down	50%	26.5 degrees

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

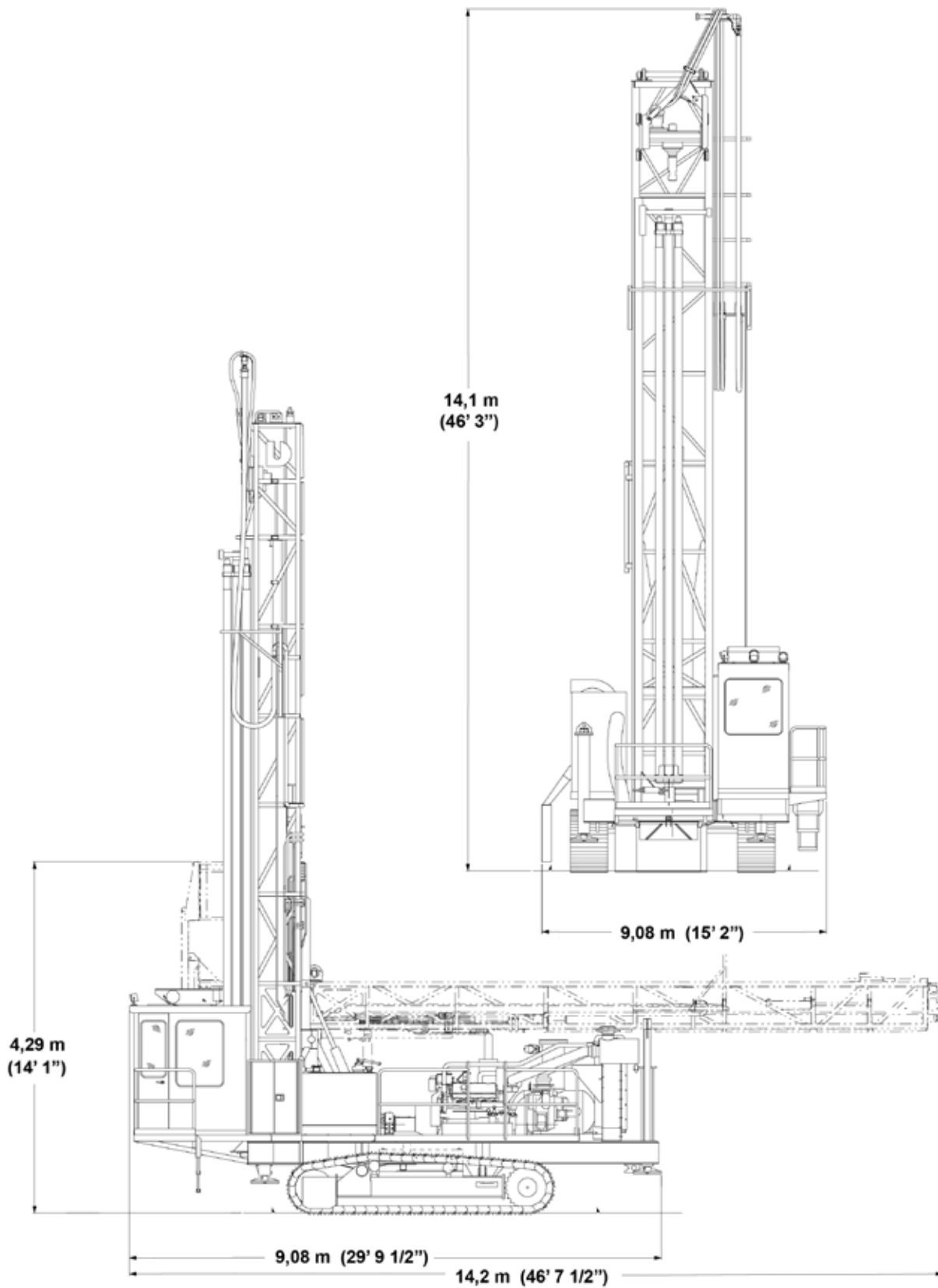
DIMENSIONS

	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
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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.



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