



# SANDVIK D45KS DTH BLAST HOLE DRILL

## TECHNICAL SPECIFICATION

The Sandvik D45KS is a diesel powered, self-propelled crawler mounted blasthole drill for mining. It is a mid-range production drill, standard with a high pressure air compressor for DTH drilling. It is equipped for drilling 152 to 229 mm (6" to 9") diameter holes.

- First pass capability is 8.7 m (25' 6")
- Maximum hole depth is 63 m (208')
- Maximum pulldown 200 kN (45,000 lbf)
- Bit load is 244 kN (55,000 lbf)



**PERFORMANCE**

	Metric	Imperial
Hole diameter	165 - 222 mm	6 1/2" - 8 3/4"
Maximum hole depth	63 m	208'
Drill pipe	9.14 m	30'
Maximum pull-down	200 kN	45,000 lbf
Maximum bit load	244 kN	55,000 lbf
Feed rate	0 - 38 m/min	0-125 fpm
Operating weight*	47,726 kg	105,000 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	447 kW	600 hp
Full load rpm	1,800 RPM	
Standard ambient range	54°C	130°F
Fuel tank	1,105L	292 gal
High pressure	28.3 m <sup>3</sup> /min	1,000 scfm
DTH	24.1 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	
Lifting hooks	Welded, 2 front, 2 rear	
Pad diameter	610 mm	24"
Pad ground clearance	610 mm front, 457 mm rear	24" front, 18" rear
		when retracted when retracted

**UNDERCARRIAGE**

	Metric	Imperial
Model	Sandvik S30HD	
Pad width	750 mm	29 1/2"
Pad type	Triple grouser	
Width over tracks	3,68 m	145"
Tram speed	3,2 km/h	2.0 mph
	@100% theoretical efficiency	
Gradeability, mast down	66%	33 degrees

**MAST**

	Metric	Imperial
Construction	Rectangular tubing, welded/ stress relieved, CAD designed, spray transfer welding method w/beveled toe joints, recessed side members	
Pivot bushings	Replaceable alloy aluminum bronze	
Hydraulic lines	Seamless pipe, Sch. 80 ASTM A53F P.O.P.	
Table hole diameter	508 mm	20"
		for holding wrench pilot
Mast Raising cylinders	two	

**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	Feed: Super 180H, 57 mm pitch	2-1/4"
	Hoist: Super 160H, 51 mm pitch	2"
Rotary head stroke	10.4 m	34'
Bit load	244 kN	55,000lbf
Feed rate	38 m/min*	0 to 125 ft/min
Chain adjustment	Manually adjusted hydraulic	

**HYDRAULIC SYSTEM**

	Metric	Imperial
Oil reservoir	511 L w/sight glass	135 gal & temp. gauge
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

**OPERATOR'S CAB**

	Metric	Imperial
Certification	Steel FOPS cover over AC unit meets AS 2294-1979 & ISO 3449-1992 FOPS drop test criteria	
Length	1.72 m	67 1/2"
Width	1.04 m	41"
Floor area	1.78 m <sup>2</sup>	19 1/5 ft <sup>2</sup>
Height inside	1.98 m	6' 6"
Construction	Welded 10 gauge steel w/ 3/16" sheet steel roof	
Doors	2 with heavy duty hinges lockable door latches	
Operator's seat	Fully adjustable and swiveling with adjustable lumbar support, shoulder type seat belt	
Helper's seat	Fixed	
Sound level rating	81.8 dBA operating in drill mode tested per SAE J9196	

**ROTARY HEAD**

	Metric	Imperial
Standard rotary speed/torque	125 rpm at 9,934 Nm	87,921 in/lb
Alternate rotary speed/torque	150 rpm at 8,136Nm	72,000 in/lb

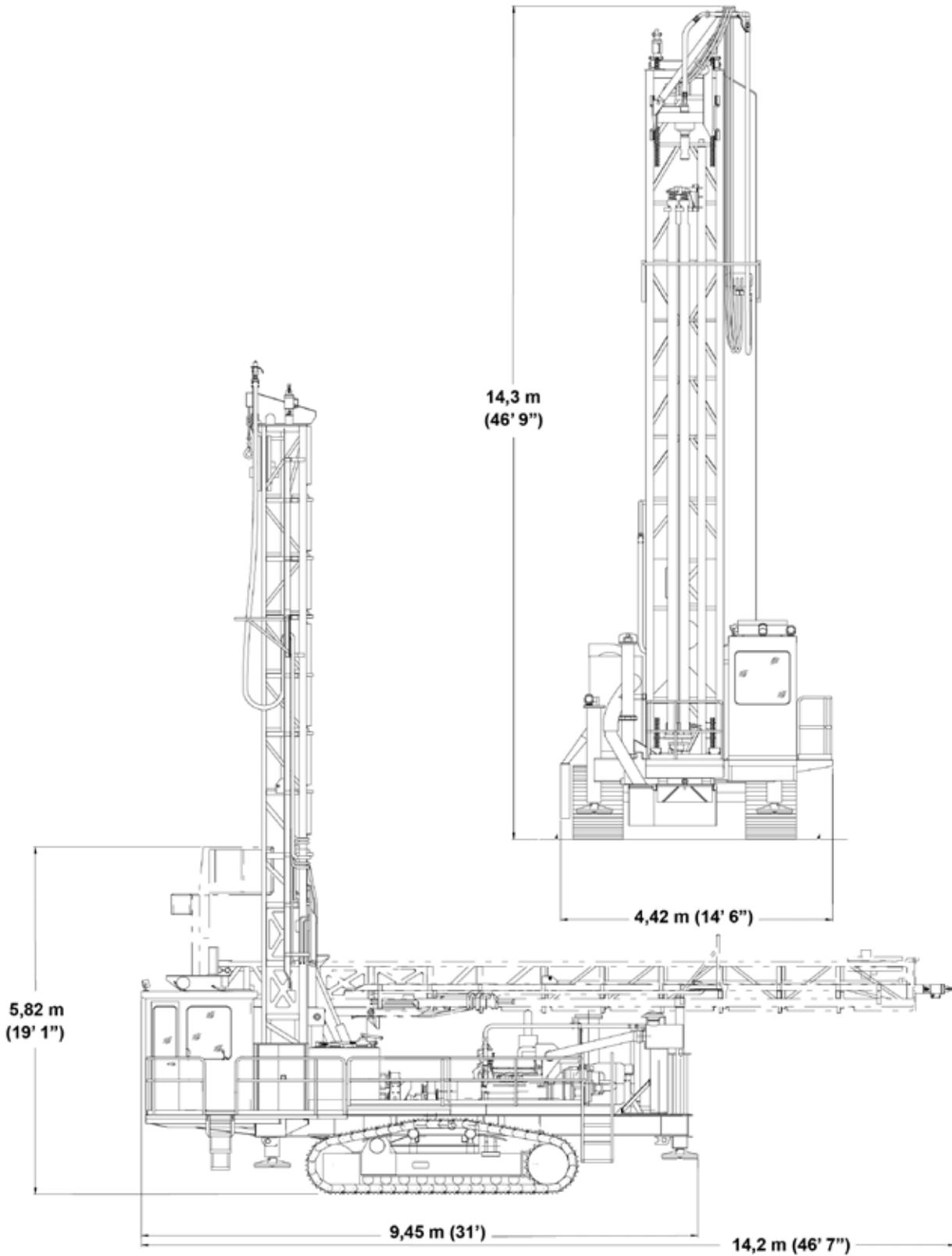
**DIMENSIONS**

	Metric	Imperial
Mast up height (single-pass)	14.3 m	46' 9"
Operating width	4.42 m	14' 6"
Mast down length (single-pass)	14.2 m	46' 7"
Mast down height w/ work deck	5.82 m	19' 1"
Mast up length	9.45 m	31'

**WEIGHT**

Base unit less tools	39,917 kg	88,000 lb
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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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