



SANDVIK D50KS ROTARY BLAST HOLE DRILL

TECHNICAL SPECIFICATION

The Sandvik D50KS is a diesel powered, self-propelled crawler mounted blasthole drill for mining. It is a powerful mid-range production drill and comes with a low pressure air compressor for rotary drilling. Its normal range is 152 to 229 mm (6" to 9") diameter holes, but it can optionally drill up to 251 mm (9 7/8") hole size.

- First pass capability is 8.7 m (28' 5")
- Maximum hole depth is 45 m (148') with 7" drill pipe
- Maximum pulldown is 222 kN (50,000 lbf)
- Bit load is 267 kN (60,000 lbf)



PERFORMANCE

	Metric	Imperial
Hole diameter	152 - 229 mm	6" - 9"
Maximum hole depth	45 m	148'
Drill pipe	9.14 m	30'
Maximum pull-down	222 kN	50,000 lbf
Maximum bit load	267 kN	60,000 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	417 kW	560 hp
Full load rpm	1,800 RPM	
Standard ambient rating	46,1°C	115°F
Fuel tank	1,135 L	300 gal
Low Pressure	29.7 m ³ /min	1,050 scfm
Rotary	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	
Lifting hooks	Welded, 2 front, 2 rear	
Leveling Jacks	Three	
Pad diameter	610 mm	24"
Pad ground clearance	610 mm front, 457 mm rear when retracted	24" front, 18" rear 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	46%	25 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"
Standard rotary head stroke	10.4 m	34'
Bit load	267 kN	60,000 lbf
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

OPERATOR'S CAB

	Metric	Imperial
Certification	Steel FOPS cover over AC unit meets AS 2294-1979 & ISO 3449-1992 FOPS drop test criteria	
Sound level rating	81.8 dBA operating in drill mode tested per SAE J9196	
Floor area	1.78 m ²	19 1/5 ft ²
Height inside	1.98 m	6' 6"
Length	1.98 m	78"
Width	1.28 m	50.2"
Construction	Welded 10 gauge steel w/ 3/16" sheet steel roof	
Doors	two 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	

ROTARY HEAD

	Metric	Imperial
Standard rotary speed/torque	188 RPM at 6,643 Nm	58,793 in-lb

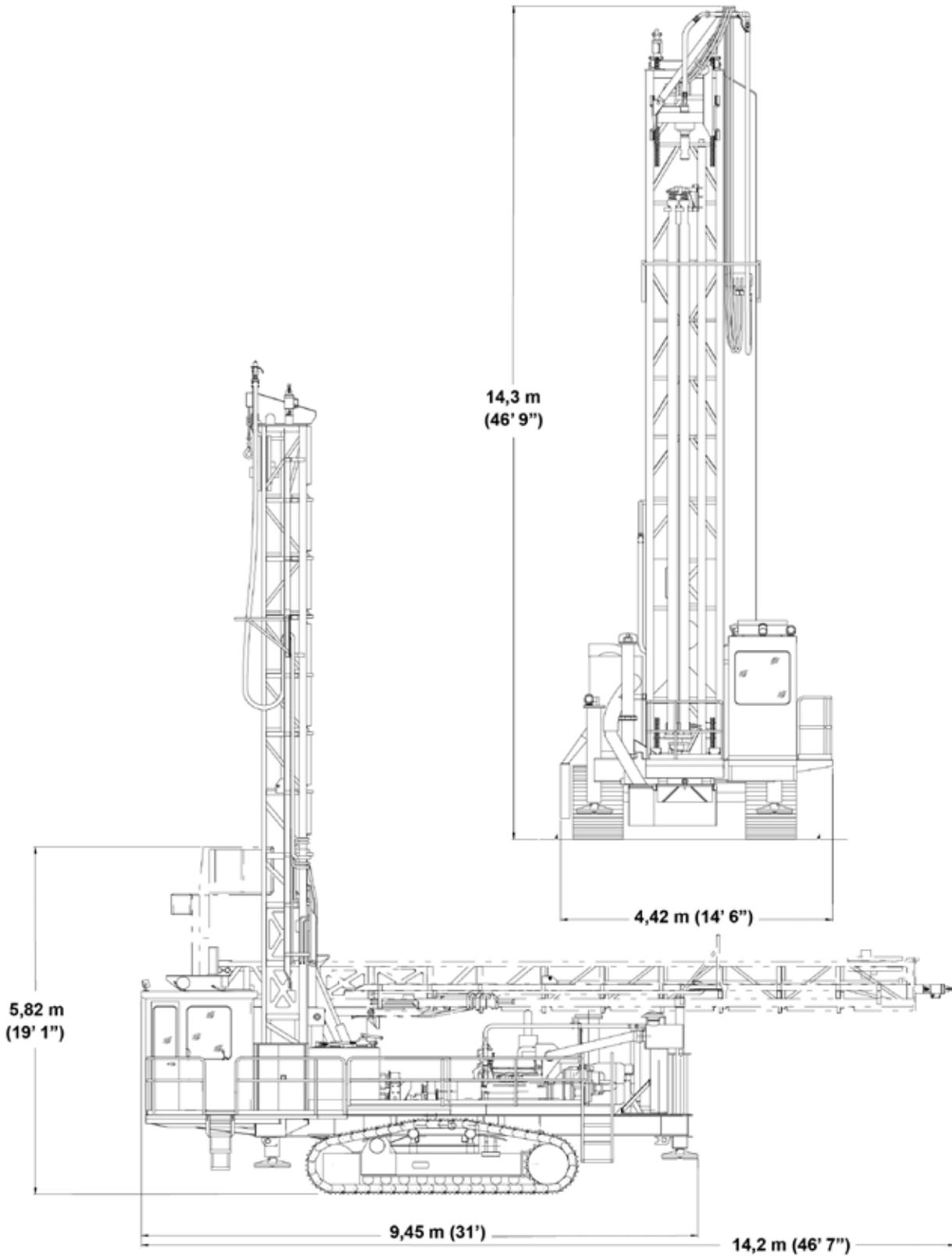
DIMENSIONS

	Metric	Imperial
Mast up height	14.3 m	46' 9"
Operating width	4.42 m	14' 6"
Mast down length	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	43,545 kg	96,000 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.



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.