SANDVIK D75KX
ROTARY/DTH
BLAST HOLE DRILL

TECHNICAL SPECIFICATION

The D75KX is a diesel powered, self-propelled crawler mounted drill designed for high-pressure down-the-hole or low-pressure rotary blasthole drilling in the mining industry. This drill is equipped to rotary drill 229 to 279 mm (9" to 11") diameter holes.

- First pass hole depth is up to 10.2 m (33’ 6”)
- Pulldown is up to 334 kN (75,000 lbf)
- Bit load is up to 409 kN (92,000 lbf)
- Pullback is up to 193 kN (43,400 lbf)

PERFORMANCE

	Metric	Imperial
Hole diameter	229 - 279 mm	9" - 11"
Maximum hole depth	52.7 m	173'
Drill pipe	10.7 m	35'
Maximum pulldown	334 kN	75,000 lbf
Maximum bit load	409 kN	92,000 lbf
Feed rate	0 - 27 m/min	0-89 fpm
Operating weight*	79,333 kg	174,900 lb

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

POWER GROUP

	Metric	Imperial
Engine Model	CAT C27 T3/T4	
Rated horsepower	652 kW	875 hp
Full load rpm	1,800 RPM	
Standard ambient range	-15°C + 54°C	5°F -130°F
Fuel tank	2,274L	600 gal
High pressure	41.0 m^3/min	1,450 scfm
DTH	24.1 bar	350 psi
Low pressure	56.6 m^3/min	2,000 scfm
Rotary	6.9 bar	100 psi

HYDRAULIC SYSTEM

	Metric	Imperial
Oil reservoir	872 L w/sight glass	230 gal & temp. gauge
Reservoir pressurization	0.345 bar air, filtered breather	5 psi air, filtered breather
Standard ambient rating	40 to +100°C	-40 to +212°F

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	Open grip strut, from cab to right deck & front to service cooler and air cleaners. Left side to service compressor receiver tank & dust control systems. Complete w/ handrails, kickplates & access ladders.	
Lifting hooks	Welded, 2 front, 2 rear	
Leveling Jacks	3 standard	
Pad diameter	7,621 mm	30"
Pad ground clearance	533 mm front, 533 mm rear when retracted	21" front, 21" rear when retracted

UNDERCARRIAGE

	Metric	Imperial
Model	Sandvik S35HD	
Pad width	850 mm	33 1/2"
Pad type	Triple grouser	
Width over tracks	426 m	14'
Tram speed	2.3 km/h	1.4 mph
Gradeability, mast down	46.63% (approx. 25°)	

FEED

	Metric	Imperial
Feed type	Hydraulic cylinder and chain	
Chain type	2 heavy series roller chains with heavy side bars and thru hardened pins	
Chain size, feed	ANSI #200 Super-H Series, 63.5 mm pitch	ANSI #200 Super-H Series, 2 1/2" pitch
Rotary head stroke	12.19 m	40'
Bit load	409 kN with heavy wall pipe	92,000 lbf
Chain adjustment	Hydraullic jack with pins & grease cylinder	

MAST

	Metric	Imperial
Construction	Rectangular tubing, welded w/ beveled toe joints and recessed side members, and reinforcing in high stress areas. CAD designed.	
Pivot bushings	Replaceable alloy aluminum bronze	
Hydraulic lines	Pressure rated steel hydraulic tubing, all pipes clamped in plastic clamps	
Table hole diameter	508 mm for holding wrench pilot	20"
Mast Raising cylinders	two	
Angle drill	0° to 30° in 5° increments	
Lubrication	Lubrication system for pulldown chains	

ROTARY HEAD

	Metric	Imperial
Rotary power	145 kW	195 hp
Standard rotary speed/torque	0-94 rpm 14,771 Nm	130,743 in-lb
Standard rotary speed/torque	0-144 rpm 9,642 Nm	85,346 in-lb
Bullshaft Thread	5 1/2" API REGULAR	

OPERATOR'S CAB

	Metric	Imperial
Certification	FOPS rated AS2294, meets drop criteria per SAE J231	
Sound level rating	80 dB(A) or less	
Floor area	4 m^2	43 ft^2
Height inside	1.95. m	77"
Length	1.83 m	6 ft
Width	1.75 m	69"
Construction	Welded 10 gauge steel w/ 3/16" sheet steel roof	
Doors	Two, swing type with heavy duty hinges and rotary type latch	
Operator's seat	Fully adjustable and swiveling with lap seat belt.	
Helper's seat	Fixed	

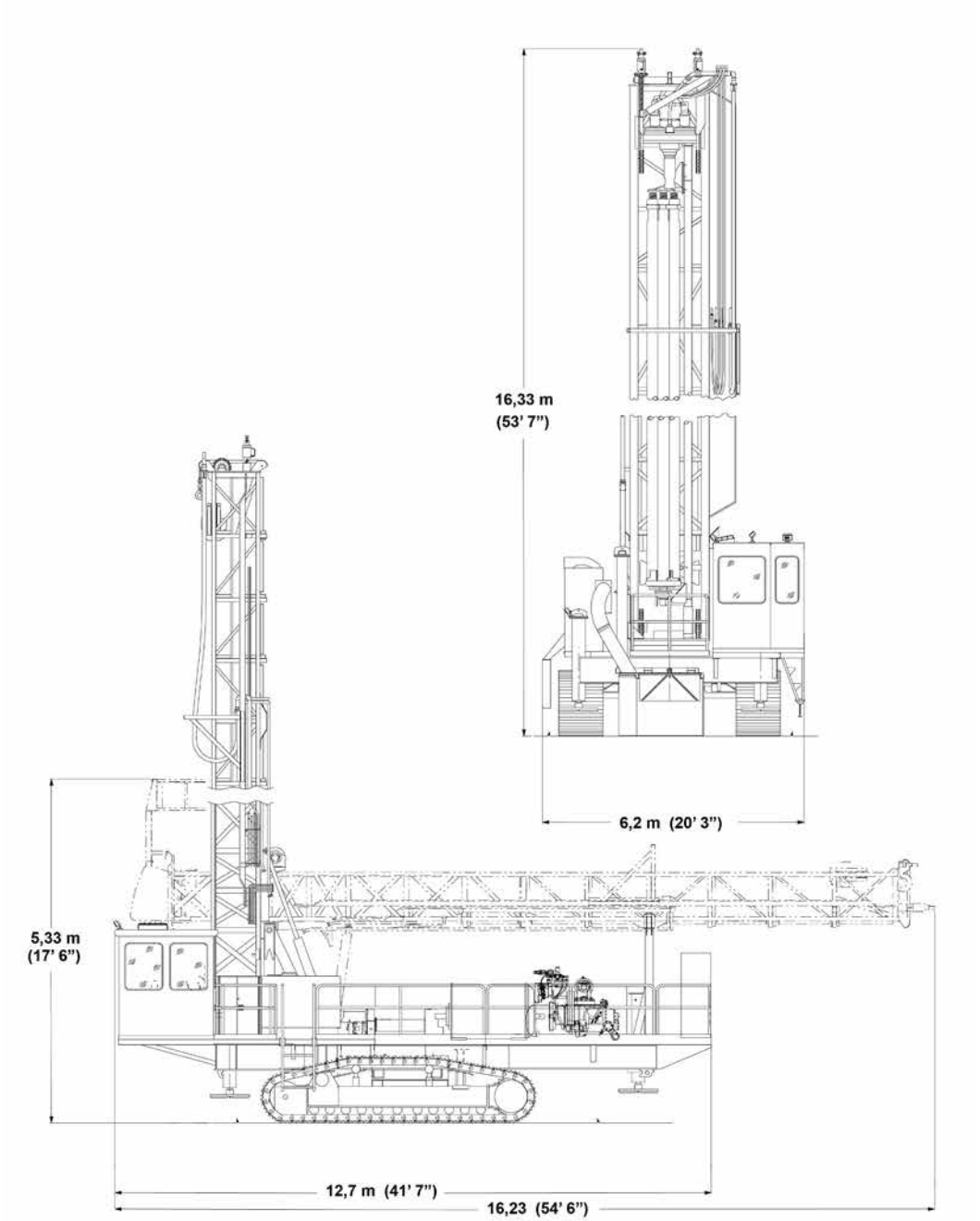
DIMENSIONS

	Metric	Imperial
Mast up height	16.33 m	53' 7"
Operating width (w/dust collector)	6.2 m	20' 3"
Mast down length	16.23 m	54' 6"
Mast down height w/ work deck	5.33 m	17' 6"
Mast up length	12.7 m	41' 7"

WEIGHT

Base unit less tools	68,000kg	150,000 lb

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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