

KmN1.4sm



SPECIFICATIONS

Rotary head and chuck	
Holding capacity	22 727 kg (50 000 lb)
Spindle interior dimension	124 mm (4,9 in)
Chuck operation	Spring closed and hydraulically opened
Final drive	HV 80-3 chain in an oil bath
Hydraulic motor	160 cc variable
Transmission	Funk 4-speed
Rotary head ratio	1:2,33
Lubrication	Pump pressurized & filter
Speed	0 to 1 250 rpm

FEATURES AND BENEFITS

- Design optimized for surface operation with low ground pressure.
- Depth capacity:
2 294 m (7 526 ft) N size
- Total weight:
10 660 kg (23 450 lb)

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SURFACE MOBILE DRILL

Hydraulic module

Hydraulic pump 1	238 l/min (63 US gal/min) @ 283 bar (4 100 psi)
Hydraulic pump 2	155 l/min (41 US gal/min) @ 241 bar (3 500 psi)
Filtration	10 microns absolute filter on return line (2)
System drive	Open loop, Load-sensing circuit
Hydraulic reservoir	295 l (78 US gal)
Oil heat exchanger	Air & water coolers

Drilling capacity

*Recommended size for maximum performance	*B 55,6 mm (2 3/16 in)	2 982 m (9 784 ft)
	*N 69,9 mm (2 3/4 in)	2 294 m (7 526 ft)
	*H 88,9 mm (3 1/2 in)	1 556 m (5 105 ft)
	*P 117,5 mm (4 5/8 in)	1 028 m (3 374 ft)
Drilling capacity is calculated on a 90-degree down hole and will depend on in-hole tools, ground conditions, drilling techniques and equipment used. These values are given as guideline only.		
Recommended diesel engine: 187 kW (250 hp) at 2 100 rpm		

Feed frame

Head stroke	3,35 m (11 ft)
Pull speed	38 m/min (126 ft/min)
Push speed	78 m/min (257 ft/min)
Pull capacity	17 955 kg (39 500 lb) @ 283 bar (4 100 psi)
Push capacity	8 782 kg (19 321 lb) @ 283 bar (4 100 psi)
Possible angle	-45 to -90 degrees

Main winch

Capacity	9 091 kg (20 000 lb)
Line speed	26 m/min (86 ft/min)

4-Speed transmission

Speed	Ratio	rpm	Maximum Torque
1st	6,27:1	0-200	5 364 N-m (3 957 ft-lb) @ 200 rpm
2nd	3,12:1	0-401	2 669 N-m (1 969 ft-lb) @ 400 rpm
3rd	1,75:1	0-715	1 497 N-m (1 104 ft-lb) @ 716 rpm
4th	1:1	0-1 252	856 N-m (631 ft-lb) @ 1 250 rpm

Speed and torque based on a 160 cc hydraulic motor at 283 bar (4 100 psi)

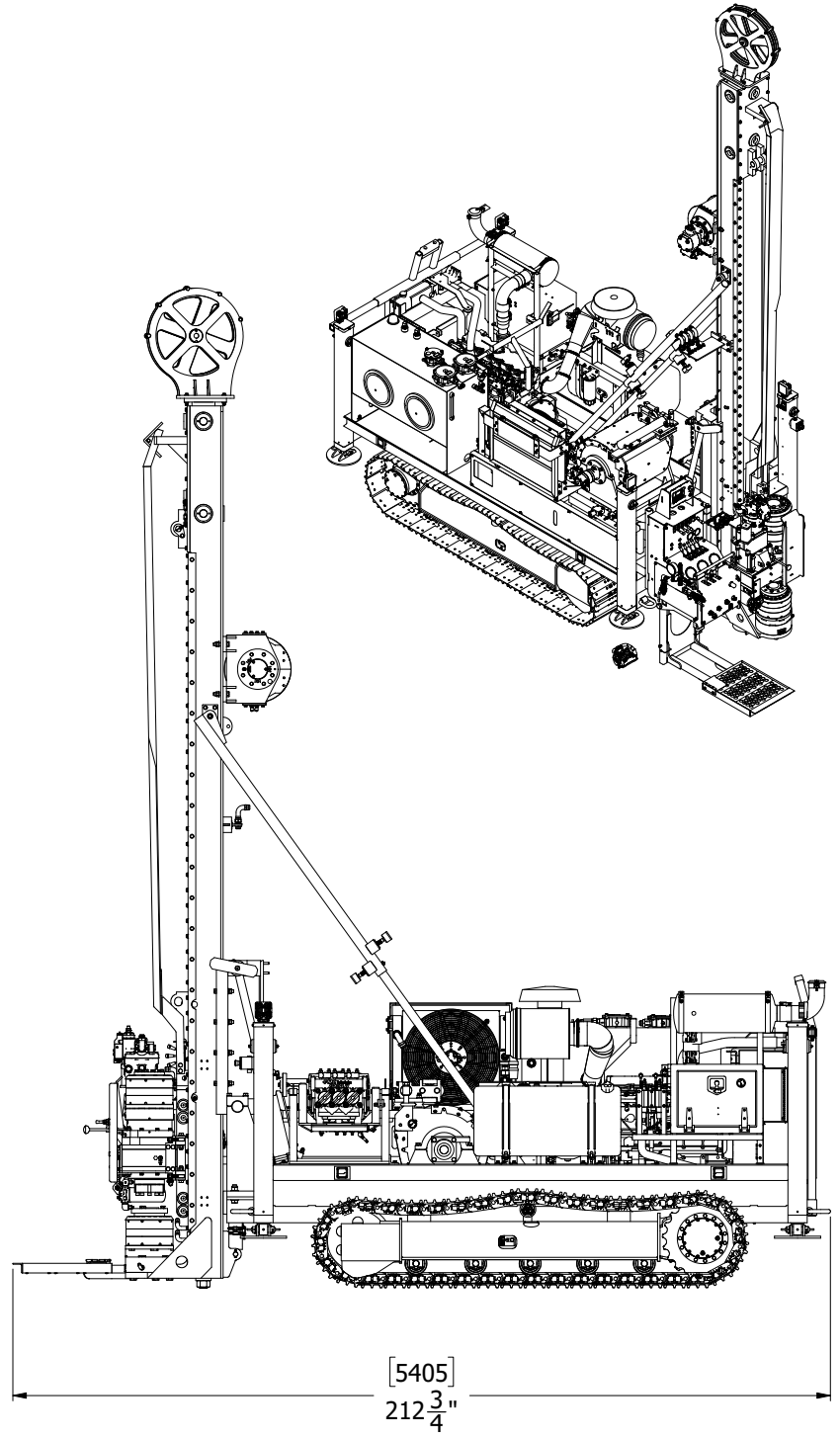
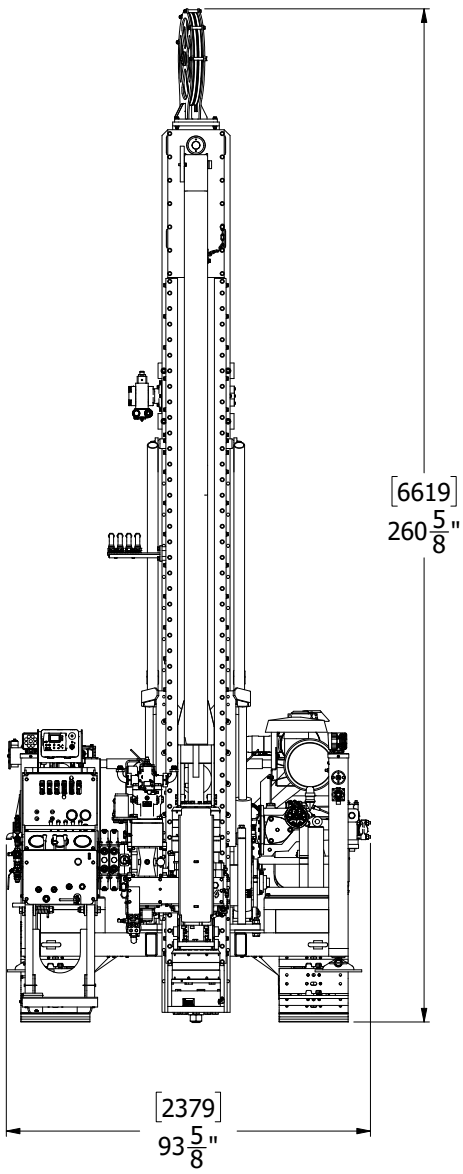
Wireline hoist

Cable capacity (4,8 mm - 3/16 in)	3 357 m (11 015 ft)
Empty Pull capacity	1 405 kg (3 190 lb)
Full Pull capacity	468 kg (1 030 lb)
Line speed bare drum	78 m/min (256 ft/min)
Full drum	234 m/min (769 ft/min)
Variable speed as needed	

Options

Crawler CAT 308 Steel/rubber
Engine CAT C7.1 Tier III, Tier IV or other
Drilling head cooler
Water pump, std Bean 435 style
Safety guard with interlock system
AUX connections (mud mixer, etc)
2-Speed transmission hydraulically shifted
Electro-hydraulic

DIMENSIONS



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Distributor:



110 Jacques-Bibeau St., Rouyn-Noranda, QC J9Y 0A3, Canada

1 819 762-9645 info@mbiglobal.ca