



C600

UNDERGROUND CORING DRILL

Technical Overview

SOLID DRILLING SOLUTIONS

C600 UNDERGROUND CORING DRILL

Mobility

C600 Underground coring drill features a mast with a capacity of drilling 360 degrees. There are options for on skid or crawler, Crawler can be powered by an independent diesel engine as an option.

Reliability

Easy to operate, maintenance and control.

Safety

Designed for continues and safety operations





1 CONTROL PANEL
Easy to operate with functional design

2 HYDRAULIC DESIGN
Load sensitive hydraulic system support energy saving.

3 MAST
360 Degree movement ability and can drill all points of tunnel or gallery.

4 ROTATION BARRIER
Rotation cage prevents accidents because of connection to rotation unit during the operation.

5 ROTATION UNIT
Can work with H diameter.

6 CRAWLER
With option of powerization crawler by independent diesel engine obtain more freedom for mobilization in underground.



C600 TECHNICAL INFORMATION

Drilling Depth Guidelines		
	Fluid Filled	
Drill Rod / Core Barrel	Hole Depth (meters)	Hole Depth (feet)
HRO / HO	500	1 640
NRO / NO	750	2 460
BRO / BO	1 000	3 280

Prime Mover		
	Metric	U.S.
Standard Unit	Electric motor	
Power	90 kW	
Diesel engine for crawler (Opt)	22 kW	

Hydraulic System		
	Metric	U.S.
Primary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby.	
Max Flow	130 L/m	34 gpm
Max Pressure (factory setting)	300 Bar	4,531 psi
Secondary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby.	
Max Flow	40,5 L/m	10,7 gpm
Max Pressure (factory setting)	300 Bar	4.531 psi

Drill Head		
Rotation Motor	Rexroth hydraulic motor - variable/reversible	
Hydraulic motor RPM	1200	
RPM	25-1200	
Torque	1800 Nm	
Spindle Inner Diameter	101 mm	
Chuck axial holding force	150 kN	

Drill Mast and Feed System		
	Metric	U.S.
Feed Stroke	1800mm or 850mm	5,9 ft or 2,8 ft
Max Pull Capacity	85 kN	19.108 lbf
Max Thrust Capacity	85 kN	19 108 lbf
Rod Pull	1,5 m	10 ft
Drilling Angle	360°	

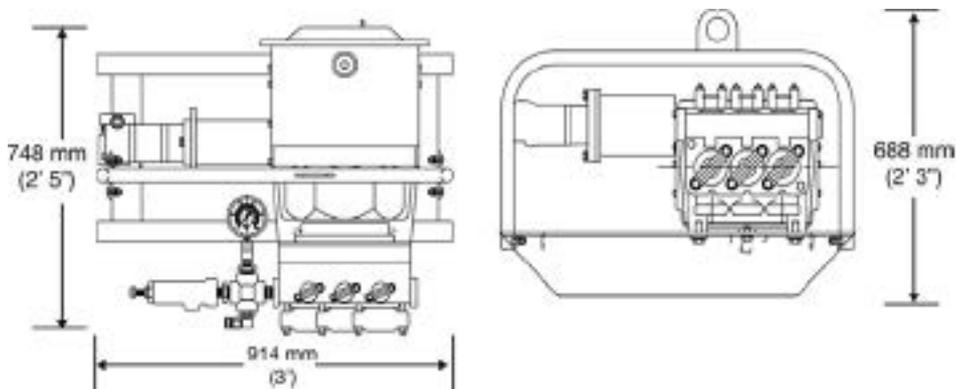
Draw Works		
	Metric	U.S.
Wireline Hoist		
Level Wind	N/A	
Level Pull		
Bare Drum	9 700 N	2,180 lb
Full Drum	3 600 N	809 lb
Line Speed		
Bare Drum	1,8 m/sec	5,9 ft/sec
Full Drum	4,8 m/sec	15,7 ft/sec
Drum Capacity (4.8 mm/316° swaged)	1 000 m	3 280 ft
Minimum Breaking Strength	2 268 kg	5,000 lb
Note: Wireline cable length to be specified at time of order		

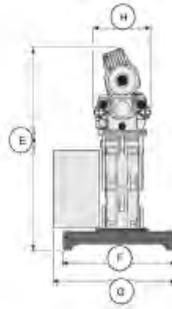
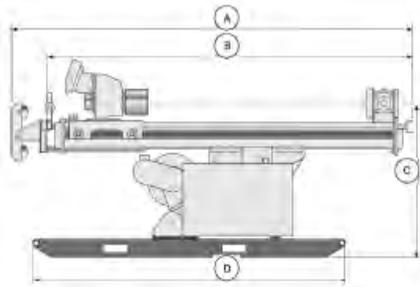
(SDS135) Fluid Circulation Pump Group (Optional)

Wet Weight = 254 kg (560 lb)

The max. output of SDS135 pump:
= 35 GPM @ 1000 psi (70 bar)

An optional liner kit is available to improve pump operation at lower flow rates. Max output with kit installed is limited to 20 GPM @ 1000 psi (70 bar)





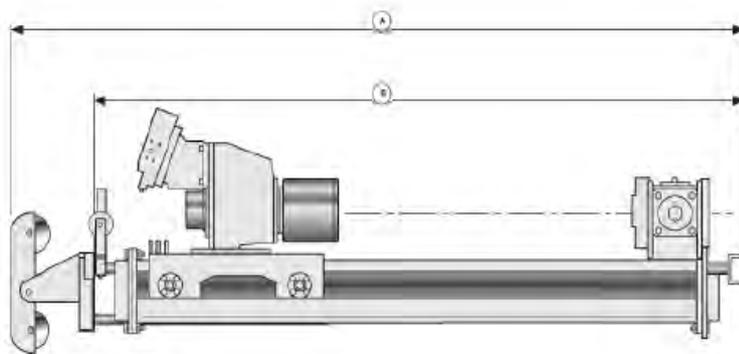
Drill unit, 1800 mm feed

Drill unit 1800 mm feed		
Dimensions	mm	in
A	3440	135,4
B	3100	122,0
C	1230	48,4
D	2700	106,3
E	1470	57,9
F	850	33,5
G	960	37,4
H	440	17,3
Weights	1580 kg	3490 lb

Dimensions, drill unit 1800 mm feed.

Drill unit 850 mm feed		
Dimensions	mm	in
A	2440	96,0
B	2100	82,7
Weights	1500 kg	3310 lb

Dimensions, drill unit 850 mm feed.

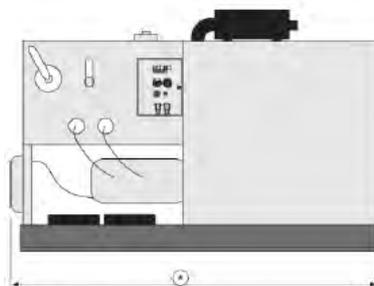


Drill unit, 850 mm feed

Power units



Power unit, electrical



Power unit, diesel
Dimensions

Electric version	mm	in
A	2200	87
B	1300	51
C	850	34
Weights	1000 kg	2200 lb

Diesel version	mm	in
A	2300	91
B	1350	53
C	850	34
Weights	960 kg	2160 lb

Sound noise level

Drill unit with diesel power unit	
Sound power emission	100 dB (A)
Sound pressure level at the operator's position	85 dB (A)

Drill unit with electric power unit	
Sound power emission	99 dB (A)
Sound pressure level at the operator's position	78 dB (A)

SOLID DRILLING SOLUTIONS

YOUR PARTNER WITH A SOLUTION

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