



C400

UNDERGROUND CORING DRILL

Technical Overview

SOLID DRILLING SOLUTIONS

C400 UNDERGROUND CORING DRILL

Mobility

C400 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 SYNCHRONIZATION Rod clamp, and rotation unit works synchronized due to design of valve block. This property obtain a fast and safe drilling.

5 ROTATION UNIT
Can work with N diameter.

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

C400 TECHNICAL INFORMATION

Drilling Depth Guidelines		
	Fluid Filled	
Drill Rod / Core Barrel	Hole Depth (meters)	Hole Depth (feet)
ARO / AO	800	2 625
BRO / BO	600	1 970
NRO / NO	400	1 312

Prime Mover		
	Metric	U.S.
Standard Unit	Electric motor	
Power	45kW - 55 kW - 90kW	
Diesel engine for crawler (Opt)	22 kW	

Hydraulic System		
	Metric	U.S.
Primary Pump	DANFOSS	
Secondary Pump	DANFOSS or SALAMI	
Hydraulic motor	REXROTH	

Drill Head		
Rotation Motor	Rexroth hydraulic motor - variable/reversible	
RPM	50-1000	
Torque	1366 Nm	
Spindle Inner Diameter	N size	

Drill Mast and Feed System		
	Metric	U.S.
Feed Stroke	900mm or 1800mm or 3300mm	1,95ft or 5,9ft or 10,82ft
Max Pull Capacity	64 kN	14 387 lbf
Max Thrust Capacity	64 kN	14 387 lbf
Rod Pull	1,5 m or 3m	4,92ft or 9,84ft
Drilling Angle	360°	

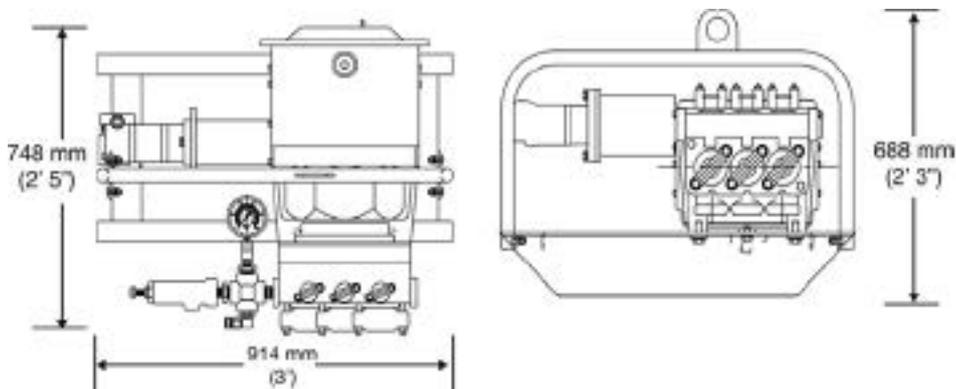
Draw Works		
	Metric	U.S.
Wireline Hoist		
Level Wind	N/A	
Level Pull		
Bare Drum	9 700 N	2,180 lb
Full Drum	3 600 N	809 lb
Line Speed		
Bare Drum	1,8 m/sec	5,9 ft/sec
Full Drum	4,8 m/sec	15,7 ft/sec
Drum Capacity (4.8 mm/316° swaged)	1 000 m	3 280 ft
Minimum Breaking Strength	2 268 kg	5,000 lb
Note: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

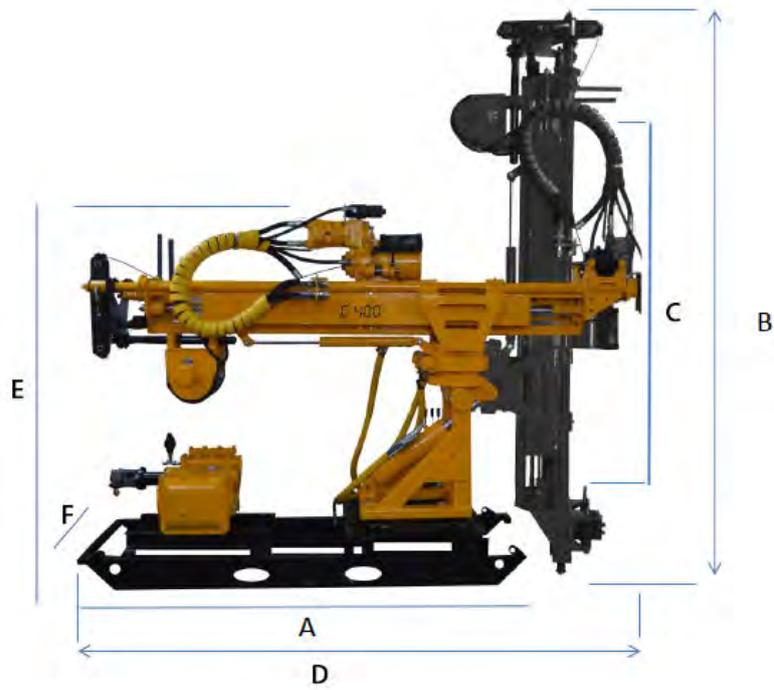
(SDS135) Fluid Circulation Pump Group (Optional)

Wet Weight = 254 kg (560 lb)

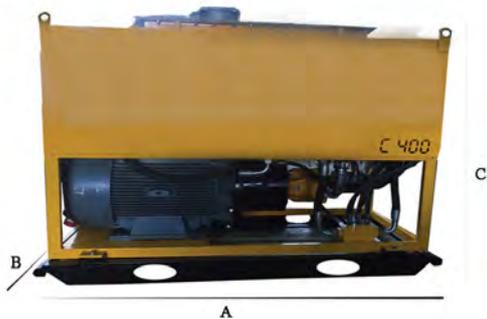
The max. output of SDS135 pump:
= 35 GPM @ 1000 psi (70 bar)

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)





Measurements		
	On skid-short mast vers.	On skid standart mast vers.
A	2100mm	2500mm
B	2170mm	3100mm
C	850mm	1800mm
D	2170mm	3170mm
E	2300mm	2300mm
F	800mm	800mm
WEIGHT	1450kg	1650kg
	On crawler-standart mast vers.	On crawler long mast vers.
A	2000mm	3000mm
B	3100mm	4570mm
C	1800mm	3300mm
D	3700mm	4200mm
E	2400mm	2400mm
F	2000mm	2200mm
WEIGHT	4500kg	6700kg



A:1600mm
 B:1300mm
 C:800mm
 45 kW: 1050 kg
 55 kW: 1250 kg

SOLID DRILLING SOLUTIONS

YOUR PARTNER WITH A SOLUTION

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