



Mobile Drill Intl

YOUR DRILL RIG SALES AND SERVICE EXPERTS SINCE 1947

C400

Surface Diamond Core Drill

The most powerful core drill in its class on the market today.



C400 Drilling Benefits

- 155 HP (115.6 kW) @ 2,000 RPM Diesel Engine Power Source
- 0-1,300 RPM Rotary Speed with a Consistent Spindle Output of 95 HP (70.8 kW)
- Dual Speed Gear Driven Oil Bath Rotary Head for high speed drilling with less vibration, wear, noise, and a longer life
- 14,000 lb (6,350 KG) Main Hoist Capacity

C400

Core Drill
Platform
Mounted

PERFORMANCE SPECIFICATIONS

Depth Capacities Coring*		
	US	METRIC
Size	Feet	Meters
'B' WL	3,800	1,158
'N' WL	3,046	928
'H' WL	2,076	633
'HWT/PHD' WL	1,365	416

*Depth capacities are based on the main hoist single line pull and a vertical hole and may vary depending on the amount of fluid in the hole, subsurface conditions and type or weight of drill rod used.

Power Source

- Cummins QSB6.7 Tier 3 155 HP (115.6 kW) @ 2,000 RPM

Drill Head

- Infinitely variable displacement closed loop piston pump supplies power to an infinitely variable piston motor that powers the 5-1/8" (130.2 mm) ID hollow spindle through a dual speed gear drive.
- High Speed: 430 RPM @ 1,164 ft lbs (1,580 Nm) to 1,300 RPM @ 385 ft lbs (522 Nm)
- Low Speed: 95 RPM @ 5,291 ft lbs (7,170 Nm) to 376 RPM @ 1,328 ft lbs (1,800 Nm)

Hydraulic Chuck

- Standard Size: 5" (127 mm)
- Capacity: 'HWT/PHD'
- Optional: Most any other chuck on the market

Mast and Feed System

- Feed Travel: 6.5 ft (2 m)
- Pullback Force: 20,200 lbs (9,182 kg)
- Pullback Speed: 0-84 fpm (25.6 m/min)
- Pulldown Force: 11,900 lbs (5,409 kg)
- Pulldown Speed: 0-105 fpm (32 m/min)
- Rod Pull Length: 20 ft (6 m)
- Angle Drilling: 45 Degrees from Vertical

Main Hoist

- Pull Capacity: 14,000 lb (6,350 kg)
- Line Speed: 0-120 fpm (36.6 m/min)
- Cable: 141 ft (43 m) of 5/8" (15.9 mm) diameter

Wireline Hoist

- Drum Capacity: 5,000 ft (1,524 m)
- Pull Capacity
 - Bare Drum - 2,400 lb (1,088 kg)
 - Full Drum - 1,200 lb (544 kg)
- Line Speed
 - Bare Drum - 425 fpm (129.5 m/min)
 - Full Drum - 1,350 fpm (411.5 m/min)
- Cable: 3/16 in (4.8 mm) Swaged Cable
- Note: Other wireline hoist or cable sizes available upon request

Hydraulic System

- Primary Pump: 52 gpm (196.8 lpm) @ 5,000 psi (34.5 MPa)
- Secondary Pump: 42 gpm (159 lpm) @ 3,000 psi (20.7 MPa)
- Auxiliary Pump: 23 gpm (87 lpm) @ 2,500 psi (17.2 MPa)

Breakout Systems

- Standard: Hydraulic Foot Clamp
 - Capacity: 18,000 lb (8,165 kg)
 - Size: Rod jaws set for sizes 'B W/L', 'N W/L', 'H W/L', 'P W/L'
- Optional: Hydraulic Breakout Wrench
 - Type: 36" (914.4 mm) Pipe Wrench, Hydraulic Cylinder Activated

Triplex Piston Water Pump

- Standard: 37 gpm (140 lpm) @ 700 psi (4.8 MPa)
- Optional: 53 gpm (200 lpm) @ 700 psi (4.8 MPa)
- Note: Higher pressures and other flows available upon request

Mounting Options

- Drill Platform: Includes (4) 36" (914.4 mm) hydraulic stabilizing jacks
- Trailer
- Skid
- Track Carrier
- Truck Mounted
- Flyable version is also available upon request

Note: Engineering specifications are subject to change without notice. Performance specifications are theoretical maximums and do not include mechanical or other efficiency losses.