

# GT-ATLAS CX1600 Surface Core Drill Rig



# CX1600

## Surface Drill Rig

### OVERVIEW:

The CX1600 Surface core-drilling rig is designed for various drilling operations featuring a long-stroke direct feed system, a low-emission T3 electronic-control engine and a powerful main winch. It is considered to be one of the most productive deep-hole drills in its class offering high-standard reliability and productivity.

The mast dump, hydraulic leveling jacks and foldable mast make the CX1600 fast to set up. The optional radio control crawler track enables the drill to maneuver easily on the site and keeps the operator in a safety distance. The standard safety guards and E-stop buttons make the rig user-friendly and safe to operate.

### FEATURES:

- Dump mast -- creates a stable working platform and lowers the working height dramatically.
- Foldable mast -- Easy setup onsite and capable of 6 m (20 ft) rod pulls while being compact size for transportation.
- Hydraulic leveling jacks and mast raising cylinders -- make the rig easy to set up.
- Powerful engine, feed and main winch ensure efficient, deep drilling
- Canadian-origin Christensen chuck and rotation unit -- offers high expectation for performance and reliability.
- Nitrogen rod holder – provides fast action of rod clamping, improved reliability and reduced service need.
- Radio control crawler track (optional) – Enhanced mobility and safety.

### Drilling Capacity

B wireline	..... 1540 m (5052 ft)
N wireline	..... 1200 m (4042 ft)
H wireline	..... 800 m (2695 ft)
P wireline	..... 475 m (1558 ft)

Depth are based on vertical hole

### Main hoist

Single line capacity:	..... Bare drum 80 kN
Line speed:	..... Bare drum 44 m/min
Cable size:	..... 35 m (118 ft) x 16 mm

### Wireline

Capacity:	..... 1830 m of 4.76 mm WL
	..... 975 m of 6.35 mm WL
Line pull:	..... bare drum: 11,9 kN
	..... full drum: 3,0 kN
Line speed:	..... bare drum 114 m/min
	..... full drum 453 m/min

### Mast and feed system

Feed travel:	..... 3,5 m
Feed speeds:	..... fast and slow, variable control
Thrust:	..... 59,6 kN
Pull:	..... 138 kN
Drilling angle:	..... 45 to 90 degrees
Rod pull length:	..... 6,09 m

### Power unit

Manufacture:	..... Cummins
Model:	..... QSB6,7 Tier III
Volume:	..... 6,7 liter 6 cyl.
Power:	..... 153 kW (208 hp)
RPM:	..... 1800
Engine type:	..... Diesel turbocharged, water cooling
Electrical system:	..... 24 V (Alternator 24 V, 95Amp)

### Hydraulic system

Primary pump:	..... 28 MPa – 242 l/min
Secondary pump:	..... 20 MPa – 122 l/min
Auxiliary pump:	..... 21,5 MPa – 47 l/min
Hydraulic oil cooling:	..... Air



### Drillhead and spindle speeds

Power: ..... hydraulic motor ,variable  
 Speed/Reverse ..... 4  
 Final drive: ..... Silent chain driven, 2:5 ratio  
 Spindle ..... 117 mm (ID)  
 Spindle speed: ..... 117-1300 rpm  
 Torque: ..... Max 5113 Nm  
 Head: ..... Swing away (optional to side shifting)

### Crawler Option

Control method..... Radio Remote Controlled  
 Speed..... Max speed 3 km/h  
 Track type..... Heavy duty, 300 mm track shoe

### Chuck assembly

Type: ..... Hydraulic open, spring closed  
 Max inside diameter: .... 117 mm  
 Holding capacity: ..... 18143 kg

### Rod Holder

Type: ..... Hydraulic open, gas spring closed  
 Max inside diameter: .... 210 mm  
 Holding capacity: ..... 13 000 kg

### Drill base supports

Trailer mounted rig ..... 4 x 770 mm wheels  
 Support: ..... 4 hydraulic jacks  
 Pad diameter:..... 200 / 230 mm  
 Travel length:..... 550 mm (21,6 in)

### Weight

Wheel type: ..... 7000 kg  
 Crawler mounted ..... 9000 kg (19 800 lb)

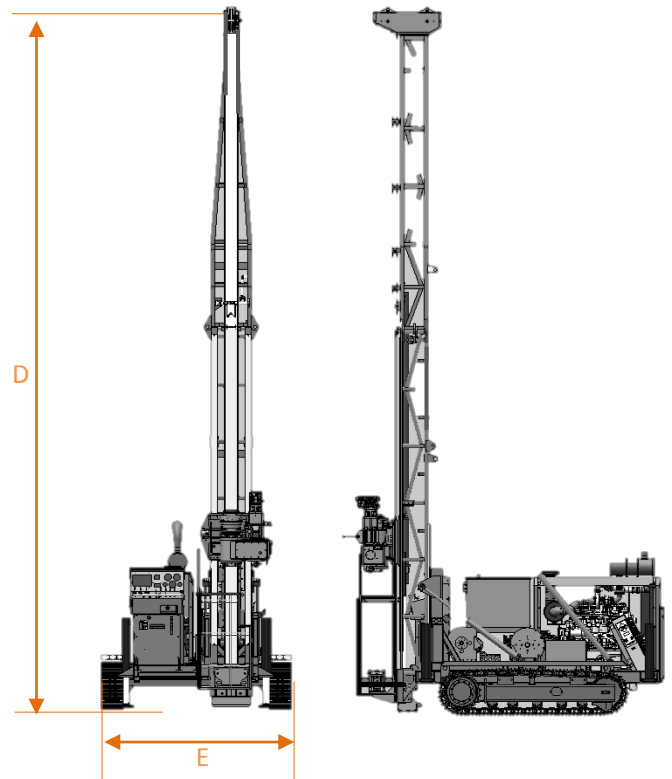
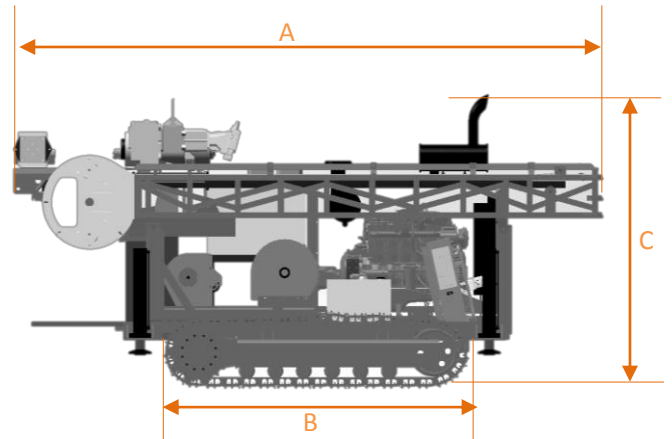
### Dimensions (Transport / Work site)

A..... 5150 mm  
 B..... 2700 mm  
 C..... 2340 mm  
 D..... 9650 mm

### Options

- Crawler track
- Hydraulic mud mixer
- RPM meter
- Water flow meter (max 6,4 MPa)
- Hydraulic mud pump, FMC/AM 1122BCD 140 l/min / 7 MPa

*All weights and dimensions are approximations and are subject to change*





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