

Atlas Copco CS1000 Diamond Core Drill [Inventory ID #120302]



Manufacturer: ATLAS COPCO

- **2007 Atlas Copco CS 1000 Diamond Core Skid Drill.**
 - Complete with:
 - Cummins diesel engines.
 - Mud mixers and mud tanks.
 - Fuel tanks.
 - **CS 1000 Performance Specifications:**
 - Depth Capacity Coring (Wireline or Conventional):
 - B 3,500 ft (1070 m).
 - N 2,000 ft (610 m).
 - H 1,500 ft (460 m).
 - P 1,000 ft (305 m).
 - **Hoisting Capacity Main Capacity:**
 - Single Line Bare Drum: 9,000 lb (4,082 kg).
 - Single Line Full Drum: 8,200 lb (3,720 kg).
 - Double Line Bare Drum: 18,000 lb (8,164 kg).
 - Double Line Full Drum: 16,400 lb (7,440 kg).
 - Line Speed Bare Drum: 80 ft/min (24 m/min).
 - Line Speed Full Drum: 125 ft/min (38 m/min).
 - Cable Size: 110 ft (33.6 m) x 9/16" (14.29 mm).
 - **Wireline Capacity:**
 - Single Line: Bare Drum: 2,190 lb (995kg).
 - Full Drum: 580 lb (264kg).
 - Line Speeds:
 - Bare Drum: 390 ft/min (119 m/min).
 - Full Drum: 1,460 ft/min (445 m/min).
 - Cable Size: 3,200ft (976 m) or 3/16" (4.8 mm).
 - **Mast and Feed System:**
 - Feed Travel: 6 ft (1,830 mm).
 - Feed Speeds: fast and slow with variable control.

- Thrust: 13,900 lb (6,360 kg).
- Pull: 21,200 lb (9,636 kg).
- Drilling Angle: 45 to 90 degrees.
- Mast Length: 27.5 ft (8.38 m).
- Pull: 20 ft (6.08 m).
- **Power Unit:**
 - Manufacturer: Cummins.
 - Model: 4BTA 3.9L - 4 Cylinder, 6BTA 5.9L - 6 Cylinder.
 - Power: 116 hp (86.5kw).
 - RPM: 2,500.
 - Engine Type: Diesel Turbocharged/After Cooled.
 - Cooling: Water.
- **Hydraulic System:**
 - Primary Pump: 3,500psi – 45.6gpm (24.1mpa – 173.0 lpm).
 - Secondary Pump: 1,500psi – 12.5gpm (10.3mpa – 47.3 lpm).
 - Auxiliary Pump: 2,500psi – 13.4gpm (17.2mpa – 50.7 lpm).
- **Drill Head and Spindle Speeds:**
 - Power: Hydraulic Motor – variable speed/reversible final.
 - Drive: HV Chain Drive in Oil Bath – 2.5 ratio.
 - Spindle: H-Head – 3 5/8” (92 mm).
 - P-Head – 4 5/8” (117 mm).
- **Spindle Speeds:**
 - Gear Ratio Speed Torque, ft lb (nm).
 - 1st - 6.63:1 130-196 3,232-2,218 (4,382-3,007).
 - 2nd - 3.17:1 270-410 1,545-1,060 (2,095-1,437).
 - 3rd - 1.72:1 500-756 839-575 (1,138-780).
 - 4th - 1.00:1 857-1,300 488-335 (662-454).
 - Range Selection: Manual control from Operator’s Station.
 - Hinged Head: Swing away.
- **Chuck Assembly:**
 - Type: Integral Hydraulic.
 - Maximum Diameter: H-Head 3 5/8” (92 mm).
 - P-Head: 4 5/8” (117 mm).
 - Holding Capacity: 25,000 lb (11,364 kg).
- **Drill Base Supports:**
 - Quantity: 4.
 - Pad Diameter: 12” (305 mm).
 - Travel Length: 12” (305 mm).
- **Towing Package & Miscellaneous:**
 - Fuel Tank Wet: 125 lb (57 kg).
 - Battery Box & Battery: 134 lb (61 kg).
 - Drill Base and Supports (4): 100 lb (45 kg).
 - Operator’s Platform: 22 lb (10 kg).
 - Mud Tank Outrigger (4): 104 lb (47 kg).
 - Wheels & Stub Shaft (4): 200 lb (91 kg).



- Hitch: 55 lb (25 kg).
- Heaviest Single Lift: 1125 lb (511 kg) (Engine Component Wet).
- **Dimensions: (L x W x H)**
 - Drill Base: 102" (2,591 mm) x 64" (1,626 mm) x 58" (1,473 mm).
 - Lower Mast: 127" (3,226 mm) x 26" (660 mm) x 33" (838 mm).
 - Middle Masts: 98" (2,489 mm) x 23" (584 mm) x 22" (559 mm).
 - Upper Mast: 107" (2,718 mm) x 21" (533 mm) x 29" (737 mm).
 - Assembled Mast: 27.5 ft (8.38 m).
 - Drill Head:
 - Horizontal view 31" (787 mm) x 44" (1,118 mm).
 - Vertical view 21" (533 mm) x 44" (1,118 mm).
 - Engine Component: 43.5" (1,105 mm) x 49" (1,245 mm) x 29" (737 mm).
 - Hydraulic Component: 37.5" (952 mm) x 49.5" (1,257 mm) x 29" (737mm).
 - Draw Works Component: 27.8" (705 mm) x 56.5" (1,435 mm) x 26" (660 mm).
- **Mounting Options:**
 - Trailer.
 - Skid.
 - All-Terrain Vehicle.
 - Crawler.
- **Additional Options:**
 - Pumps.
 - Mud Mixer.
 - Cathead.
 - Engine - Deutz Diesel 4 Cylinder.
 - Turbocharged/Air Cooled.
- **Standard Equipment:**
 - Derrick in Three Sections.
 - Towing Package.
 - Mud Pump – FMC LO928D 28 GPM (106 LPM) 700psi (4.8 mpa).
 - Integral Hydraulic Chuck 3 5/8" (92 mm) Opening.

Please contact us for more information.