



## CAT MD5125 SURFACE DRILLS

### TECHNICAL SPECIFICATION

## Specifications

### General Data

Hole diameter	152 mm (6.0 in)
Hole depth	30 m (98.5 ft)
Compressor	11.3 m <sup>3</sup> /min (400 cfm)
HPR5128 rock drill	28 kW (37 hp)

### Rock Drill HPR5128

Output power	28 kW (37 hp)
Weight	408 kg (900 lb)
Percussion pressure, maximum	214 bar (3,100 psi)
Blow rate	2,500 – 3,100 bpm
Rotation speed	210 rpm
Rotation torque	2 033 Nm (1,500 ft-lb)
Drill steel	51 mm (2 in)

### Rock Drills Optional

HPR6030	30 kW (40 hp)
HPR6832	32 kW (43 hp)
Optional drill steel	60 mm (2.4 in) or 68 mm (2.68 in)

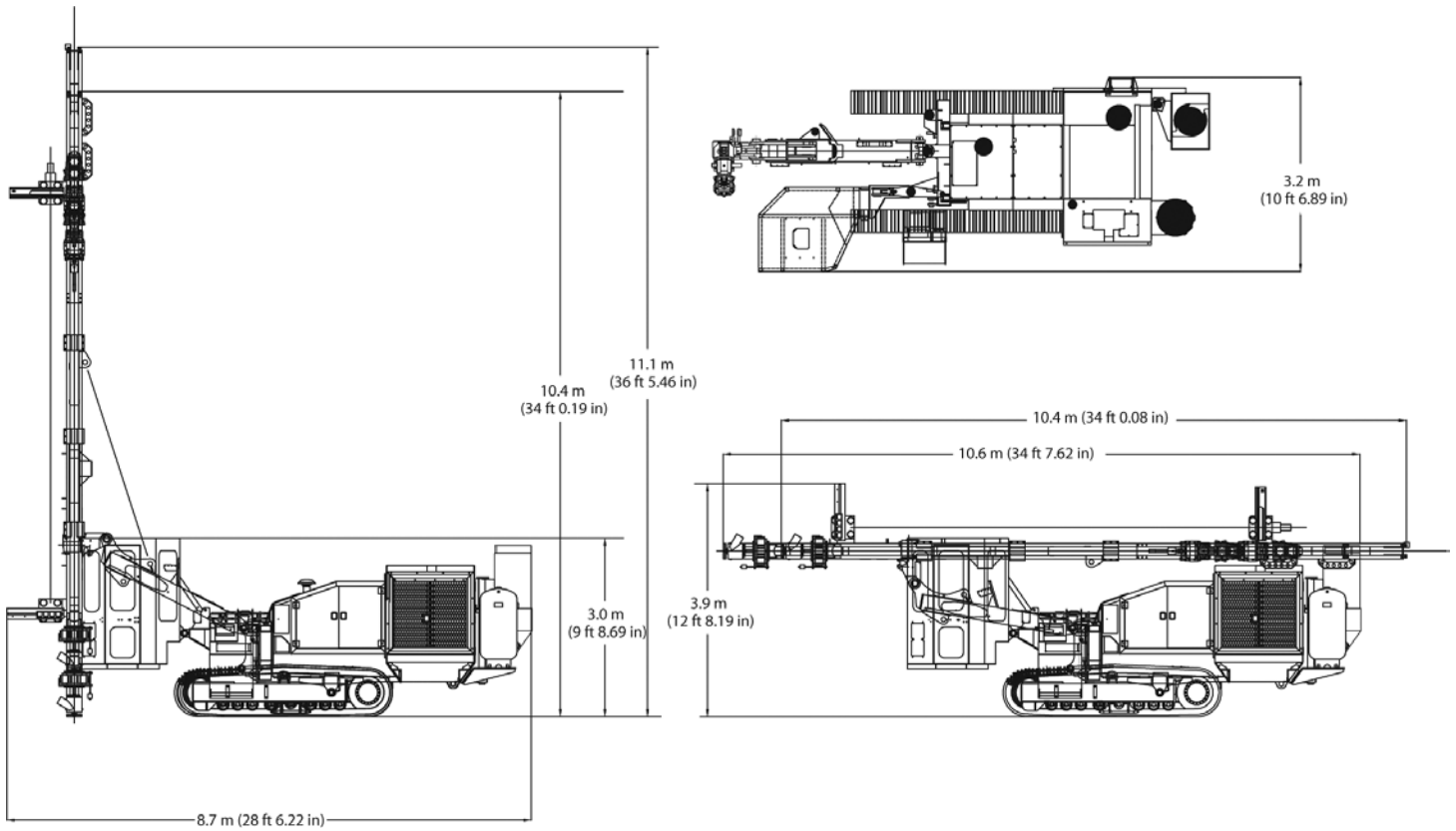
### Model HUFH-12 Chain Feed (MD5125)

High-strength steel channels which are gusseted and reinforced	17.78 cm (2 -7 in)
Resists torsional and thrust loading	
Replaceable wear pads	
Pitch roller chain and sprockets	38.1 mm (1.5 in)
Planetary gearbox feed system	
Hose reel	
Hydraulic-powered centralizer	
Hydraulic-powered dust collector pickup pot	
Compressed-air-powered coupling greaser	
Manual pendulum inclinuator	
Feed swing angle	36° left, 37° right
Feed extension length	.9 m (3 ft)
Feed Dump	149° from 10° off boom

### Model HUFH-20 Chain Feed (MD5125CL)

High strength steel channels which are gusseted and reinforced	17.78 cm (2 - 7 in)
Resists torsional and thrust loading	
Replaceable wear pads	
Pitch roller chain and sprockets	38.1 mm (1.5 in)
Planetary gearbox feed system	
Hose reel	
Hydraulic-powered centralizer	
Hydraulic-powered dust collector pickup pot	
Compressed-air-powered coupling greaser	
Manual pendulum inclinuator	
Feed swing angle	14° left, 37° right
Feed extension length	.9 m (3 ft)
Feed Dump	132° max, 16° min

# MD5125



## Shipping Dimensions

Length	10 m (32.7 ft)
Width	2.62 m (8.8 ft)
Height	3.38 m (11.5 ft)
Weight	
MD5125C	19 731 kg (43,500 lb)
MD5125CL	20 412 kg (45,000 lb)

## Boom Capabilities

### Model C - Telescopic

Boom length	2.6 m (8.5 ft)
Boom extension length	.9 m (3 ft)
Boom swing angle	15° left 21° right
Boom lift angle above horizontal	57°
Boom angle below horizontal	29°

### Model CL - Fixed Boom

Boom length	2.8 m (9 ft)
Boom swing angle	15° left 21° right
Boom lift angle above horizontal	27°
Boom angle below horizontal	7°

# MD5125

## Rod Changer for MD5125C Linear

Number of rods x length  
4 rods x 3.66 m (12 ft) + one in feed, 51 mm  
4 rods x 3.66 m (12 ft) + one in feed, 60 mm or 68 mm

## Rod Changer for MD5125CL

Number of rods x length  
4 rods x 6.1 m (20 ft) + one in feed, 51 mm  
3 rods x 6.1 m (20 ft) + one in feed, 60 mm or 68 mm  
30.48 m (100 ft) total steel length capability  
Conveniently located controls

## Power Unit

Cat® C11, 6-cylinder inline,  
electronically controlled Tier III  
Ambient temperature capability – 52° C (125° F)  
Turbocharged, water-cooled, direct-injection aftercooled  
242 kW (325 hp) at 1,800 rpm  
1 372 m (4,500 ft) altitude before derating  
Four pump drive box  
504 kW (675 hp) maximum input rating; connection to engine  
through elastic coupling  
Automatic engine throttle control based on power demand  
Dual-element air filter  
Dual-fill, 416 l (110 gal) fuel tank

## Air Compressor

Rotary screw-type compressor  
189 l/sec (400 cfm) maximum  
7 bar (100 psi) maximum  
Dual-element air filters with indicators

## Hydraulic System

Main pump for drill, feed, positioning and one (1) tram motor  
Pressure-compensated axial piston type  
Full flow supercharged inlet  
Main pump for compressor and one tram motor  
(same as above)  
Rotation pump  
Pressure-compensated axial piston type  
Gear pump for dust collector  
Convenient pressure gauges and taps  
High-impulse spiral-wrapped hose  
Full-flow filtration – 10 micron  
303 l (80 gal) sealed and pressurized hydraulic tank  
Full-flow cooling  
Manual “make-up” fill pump with 10 micron filter

## Cooling Package

Coolers for engine, hydraulic and compressor systems  
88.9 cm (35 in) fan assembly  
Side-by-side arrangement

## Dust-Collection System

HDE1200  
15.24 cm (6 in) suction hose  
Feed-mounted precleaner and pickup pot  
42 m<sup>2</sup> (456 ft<sup>2</sup>) of filter area  
Reverse pulsing for cleaning

## Operator's Swing Cab

48° swing and 30° tilt  
Less than 85 dB(A) noise level  
Air conditioner  
Comfortable adjustable seat  
Window washer & wipers

## Undercarriage

Excavator D-4 type track  
Case-hardened steel track bushings  
Solid case-hardened steel track pins  
Triple grouser 380 mm (15.1 in) wide  
Excavator-type track rollers  
Static load each 29 938 kg (66,000 lb)  
Dynamic load sealed, oil-filled 9 979 kg (22,000 lb)  
Front idler, sealed, oil-filled  
Ground clearance 280 mm (11 in)  
Gradeability 35° 56%  
Ground pressure (base machine) 1.31 bar (19.2 psi)  
Track gauge 198 cm (78 in)  
Speed maximum 3.44 kph (2.1 mph)  
Track oscillation + 8°

# Track Drills—MD5125

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## Controls

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Pressure-Compensated Flow and Directional Control

Valves for:

- Drill hammer
  - Drill rotation
  - Drill feed
  - Feed pressure adjustment
  - Tramming
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Automatic engine throttle control based on power demand

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Remote air output flow control

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Conveniently grouped

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Ergonomic layout

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Completely sealed electric gauges and switch panel

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## Electronics Display

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Tachometer

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Hourmeter

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Amp meter

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Oil pressure

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Water temperature

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Drill rotation

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Feed pressure

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Air compressor circuit/left-hand tram

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Engine oil pressure

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Main hydraulic supply/right-hand tram

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Engine tachometer and hourmeter

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Air pressure

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Fuel level/sight tube

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Compressor temperature

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Rotation pressure

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Hammer pressure

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Engine water temperature

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Voltmeter

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## Shutdown Features

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Low engine-oil pressure

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High compressor discharge temperature

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High engine-water temperature

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Swipe switch at the end of feed

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