## General Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tr>
<td>Hole Diameter Range</td>
<td>76.2 mm - 127 mm</td>
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<tr>
<td>Hole Depth Maximum</td>
<td>31 m</td>
</tr>
<tr>
<td>Engine C9 Tier 3</td>
<td>224 kW (300 hp) at 1,800 rpm</td>
</tr>
<tr>
<td>Compressor</td>
<td>9.9 m³/min</td>
</tr>
<tr>
<td>Rock Drill HPR4519</td>
<td>19 kW</td>
</tr>
<tr>
<td></td>
<td>30 ft</td>
</tr>
<tr>
<td></td>
<td>300 ft³/min</td>
</tr>
<tr>
<td></td>
<td>25 hp</td>
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</tbody>
</table>
MD5075 Features

Pattern Coverage
With a heavy-duty 3.81 m (12.5 ft) boom and 1.5 m (5 ft) extension, exceptional pattern coverage is achieved.

Rock Drill
World-class Cat® Rock Drills offer the fewest internal parts in the industry. Simple enough to be owner serviced yet renowned for their strength and long life in hard rock drilling.

Carousel Rod Changer
Improve your productivity with the Cat Carousel Rod Changer which substantially reduces overall rod change time.

Power Group
Fast cycle times are achieved through substantial horsepower, air capacity, and time-saving systems that enhance efficiency.

Operator Safety and Comfort
Pressurized dust free cab environment keeps operators safe and productive.

Serviceability and Customer Support
Easy to service with ground-level access to all major service points and well-organized electrical and hydraulic arrangements.

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Courtesy of Crane.Market
The Cat MD5075 achieves large pattern coverage with a sturdy extendable boom and reduces your cycle time with an efficient carousel rod changer. Its powerful rock drill, durable Cat components, and ease of maintenance contribute to the exceptional value of this proven machine.
Pattern Coverage
Far Reaching

The exceptional pattern coverage provided by the MD5075 allows you to drill more with less set-up time.
A Sturdy boom and feed support the carousel rod changer providing excellent pattern coverage and fewer required setups. The heavy-duty boom is constructed of thick square tubing with steel plate reinforcements in key areas to add strength. Built with high strength steel channels with diagonal internal bracing, the feed system resists torsion and thrust loads.

- Boom length 3.81 m (12.5 ft)
- Boom extension adds 1.5 m (5 ft)
- Boom swing capability is 51° L to 15° R
- Boom angle capability is 38° lift angle to 27° below horizontal angle
- Feed table is 2.7 m (9 ft) with a 0.9 m (3 ft) extension
- Planetary gearbox feed drive is capable of 3347 kg (7,379 lb) feed force and 27.7 m/min (91 ft/min) speed
- Lighting on the feed illuminates the carousel and hole site for around the clock drilling
- Adjustable wear pads

Courtesy of Crane.Market
**Reliable Performer**
Low cost of ownership and reliability are yours with renowned Cat Rock Drills. Building on a legacy of simplistic power, these drills have long life expectancy and are field serviceable.

This combination of sturdy design and easy maintenance means more hours of reliable, low-cost operation. For added efficiency, the pistons are matched to the cross section of the rod so the wave form is properly matched for maximum energy transfer.

**Durable Design**
A simple design coupled with high strength materials yields exceptional durability.
- Having only half of the components of competitive models, there are fewer internal parts to wear
- There are four major housings bolted together with high strength flanges eliminating troublesome long tie rods
- Long life alloy bushings
- Fast response accumulators provide a smooth and efficient hydraulic oscillation
- Long leakage paths of the oscillator bearings yield high volumetric efficiency

**Owner Serviceable**
- Cat Rock Drills are so simple that owner serviceability is a viable alternative and cost savings
- Other models require downtime for round trip transportation to a clean room environment
- Only their OEM service technicians can perform the maintenance and repairs
- All maintenance and rebuilds can be done in your shop and some maintenance can even be done with the rock drill still mounted to the feed
- Accumulator assemblies may be replaced in the field
- Troubleshooting is easy since there are half the components of other drills

**Automated Rock Drill Lube System – Optional**
Peak performance is sustained when your rock drill is kept lubricated, cool, and automatically maintained with our new Auto Rock Drill Lube System. Operators no longer have to stop drilling to manually grease the rock drill every two hours.
- Saves more than forty hours a year over manual greasing
- Components reach full life expectancy at proper lube intervals
- Grease reservoir capacity can hold enough for up to five 10 hour shifts
- A timer board cycles the grease pump throughout the day eliminating maintenance time
- High and low pressure conditions are continually monitored

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**Standard on the MD5075 is the HPR4519 hydraulic powered percussion rock drill rated at 19 kW (25 hp) output energy with dual hydraulic variable rotation motors producing 908 N·m (670 lbf-ft) torque.**
Carousel Rod Changer
Improve Your Productivity
Dramatically reduce your change time with our new carousel rod changer. Unlike linear alternatives, our carousel rod changer weighs less and holds more rods allowing the boom extension to reach further and drill deeper while maintaining stability. The feed and carousel rod changer can accommodate multiple lengths and diameters of drill steel.

**Additional Features**
- Drill steel diameter 45 mm
- Drill steel lengths 3.66 m or 4.27 m (12 ft or 14 ft) with a 6.1 m (20 ft) starter rod
- Six rod carousel
- Deep multi-pass hole depth to 31.1 m (102.5 ft)
- Unique gate design always keeps a rod in position; ready to load
- Multiple functions are run simultaneously to save process time
- Heavy-duty, dual rod grippers assist with rod changes and are designed to last
- Precise positioning function indexes and locks, eliminating the need for troublesome switches and sensors that are failure prone due to the elements and vibration
- Corrosion resistant and self-lubricating pivot points eliminate manual lubrication
The MD5075 Power Group delivers fast cycle times and maximum efficiency with its generous engine horsepower, air capacity, and optimal temperature management.

**Engine**
Powered by a six (6) cylinder Cat C9 Tier 3 engine that is electronically controlled, turbocharged, and air-to-air after cooled producing 224 kW (300 hp) @ 1,800 rpm. Fuel conservation, and the resulting lower operating cost, is achieved with three-speed engine throttle control.

Additional engine features:
- Pumps are direct driven by the engine through a steel flex coupling
- Dual element air filter with indicators
- Engine oil sump 45°
- Fuel tank 492 L (130 gal)
- Over 12 hours fuel capacity

**Compressor**
Abundant air provides excellent flushing power
- Reliable rotary screw-type compressor
- High pressure rating 163 L/sec (350 ft/min) @ 10.2 bar (150 psi)
- Dual-element air filters with indicators

**Cooler**
Coolers for engine, hydraulic, compressor systems
- 52° C (125° F) ambient temperature
- MD5075 cooler is equipped with ATAAC side by side arrangement
- Easy troubleshooting and cleaning of coils

**Hydraulics**
Simple and efficient
- Piston pump runs all functions in either mode – pressure compensated in drill mode and load sensing in tram mode
- In tram mode the compressor runs at minimum pressure valve setting
- Large hydraulic tank with greater cooling capacity for longer intervals between circulation of oil (405 L or 107 gal)
Our proven and reliable undercarriage is designed to tram challenging terrain. Your operator can quickly and precisely position the MD5075 thanks to its low center of gravity and high ground clearance.

Your operators will be equipped to overcome the tough environment of navigating and drilling in irregular terrain with our proven, reliable structures.

- Hydraulic motor-driven track assemblies
- Tram max speed 4.0 km/h (2.5 mph)
- Gradeability 35°
- Hydraulically released spring applied disc brakes
- Excavator-type track rollers
- Ground clearance 380 mm (15 in)
- Ground pressure 0.82 bar (12 psi)
- Track gauge 204 cm (80 in)
- Wide triple grouser track pads 380 mm (15 in)
- Oscillation ±10°
- Robust strut design is resistant to failures
- Easy installation and removal of shoes
- Can be rebuilt
The pressurized Cat cab is a quiet and safe work environment with sound levels less than 80 dB(A). To minimize vibration, the MD5075 cab is isolator mounted while ergonomic responsive controls reduce your operator’s fatigue. Safety features include numerous shut down methods and a front window with push-out egress, providing a second exit in case of emergency.

Features
• Climate control system maintains a consistent temperature
• Air is filtered to the operator
• Defrost/defog air is supplied to windows
• Operators seat is adjustable six ways
• Armrests, controls and switches are ergonomic
• Easy access to cab air filter
• AM/FM Radio IPOD/MP3 player ready
• Communications radio ready
• Easy to clean finishes
• External 12V plug

Loaded with Safety Features
• High visibility with 3.07 m² (33 ft²) tinted safety glass windows
• Slim structure members minimize visual obscurity
• Skylight provides excellent visibility of the drill string
• Mirrors assist in moving the machine
• Ground level shutdowns
• Heavy duty handles
• Three speed window wipers

Safety Through Controls
• Dual joystick controls are ergonomic and seat-mounted
• For heightened precision, the position and shape of the joysticks match the operator’s natural expectations
• Auto-thread greaser is operated from within the cab

Courtesy of Crane.Market
Smart Drill Monitoring System
Developed to assist novice drillers, the smart drill monitoring system increases your overall drill production in difficult drilling conditions. The system monitors changes in rock formation and adjusts the impact and feed pressure to the hardness of the rock. It incorporates anti-jam, anti-plunge, and anti-plug and increases overall life of drill string.
The Cat HDE 900 Dust Collector is a highly capable dry dust collection system. Powered to clear holes up to 12.7 cm (5 in), the heavy duty system effectively manages rock fragments and dust. It is also easy to clean and service which adds to your uptime and overall productivity.

**Features**

- Swing out design for interior access
- The sealed pick up pot prevents cuttings from escaping above the hole
- Abrasive resistant dust hose is 127 mm (5 in) in diameter
- Timed cleaning is continual through reverse-pulses of air
- Vacuum generated air flow carries the materials
- Pivoting separator is feed mounted and separates cuttings from dust
- Filtration area is 28 m² (304 ft²) and separates the solid particles from the clean air
- Mounted within the slim profile of the machine
- Optional water injection system can be used to suppress dust and hole-collaring or mudding the top hole to create a natural seal
- The suction fan design limits the power requirement to correspond with the application
- Easy bottom access to filters and air valves
Equipped with numerous safety features, Cat Track Drills are designed to provide a safe working environment for operators as well as maintenance and service technicians.

**Safety Features**
- Emergency stop in the cab and on the feed
- Ground-level access to service points and well-organized electrical and hydraulic designs so no step ladder required
- Spring applied, hydraulically released brakes
- Non-slip, heavy duty steps and handles are strategically placed
- Three points of contact at all steps
- Feed mounted swipe string

**In-Cab Safety Features**
- High visibility with 3.07 m² (33 ft²) of tinted safety glass
- Slim structure members minimize visual obscurity
- Skylight allows viewing the top of the feed
- Front window push-out for emergency egress
- Mirrors assist in safely moving the machine
- Three speed window wipers
- ROPS/FOPS certification
- Ground level shutdowns
- Heavy duty handles

**Operator Training for Safety**
- Classroom style training available
- High quality manuals for operation, maintenance, and service
- Hands-on training with your local Cat dealer
Serviceability
With the maintenance friendly designs, service access is safe and efficient. Cat Track Drills have well-organized electrical and hydraulic arrangements. Logically located components contribute to its simplicity and ease of maintenance. The combined result is longer equipment life cycle, lower operating costs, and higher re-sale value for you.

Features
• Well organized electrical and hydraulic designs
• Color coded valves and blocks for easy identification and troubleshooting
• Point to point wiring reduces mean time to repair
• Bulk head fitting to allow for shorter run hoses
• Hydraulic hoses labeled by diameter and length and spaced for easy wrench access
• Manual valve bank for operating in the event of an electrical loss also helps isolate issues with electronics or hydraulics
• Portable interior halogen light for underneath the canopy
• Two exterior rear facing lights
• Enclosure has doors lifted with gas springs
• The canopy can be completely removed via four pinning points and lifting lugs
• Pump for filling hydraulic tank
• Service areas are designed with three points of contact for safety
• The grease reservoir is easily accessible for changing coupling grease

Supported by World-class Cat Dealer Network
From helping you choose the right machine to keeping your equipment up and running, your Cat dealer provides the best in sales and service.
• Best-in-class parts availability because Cat dealers understand the value of your uptime
• Preventive maintenance programs are available to maximize your return on investment, achieve full equipment life cycle, and managing costs
• Guaranteed maintenance contracts help you forecast your businesses needs and strategically plan for service and parts expenses
• Operator training to help boost your productivity
• Genuine Cat Remanufactured Parts are available

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Courtesy of Crane.Market
Sustainability
Tomorrow’s World

While helping you increase the efficiency and productivity of your operation, Cat Drill designs leverage technology and innovations that also help minimize the environmental impact of mining. We continually strive to develop equipment that has respect for the air we breathe and the earth we share.

MD5075 Sustainability Features
• Smart Drill System automatically adjusts power to the rock condition requirements which extends the life of the drill string, bit, and major components of the drill
• Fuel economy is achieved with an efficient Tier 3 engine and three speed throttle control
• Remanufactured components are available
• Lube systems are automatic, less accident prone and more efficient because operator time and attention is not required to regularly stop drilling to lubricate the machine
• Major components can be rebuilt
### General Data

<table>
<thead>
<tr>
<th>Hole diameter range</th>
<th>76.2 mm–3.0 in</th>
<th>127 mm–5.0 in</th>
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</thead>
<tbody>
<tr>
<td>Hole depth maximum</td>
<td>31 m</td>
<td>102.5 ft</td>
</tr>
</tbody>
</table>

**Engine**

- Cat C9 Tier 3, six (6) cylinder, electronically controlled, water-cooled, turbocharged and air-to-air after-cooled diesel engine rated at 224 kW (300 hp) at 1,800 rpm

**Compressor**

- 9.9 m³/min @ 10.2 bar
- 350 ft³/min @ 150 psi

**Rock Drill HPR4519**

- 19 kW
- 25 hp

### Undercarriage

- Hydraulic motor-driven track assemblies with towing disconnects.
- Spring applied disc brakes
- Triple rock grousers
- Wide triple grouser pads 380 mm 15 in
- Gradeability 35°
- Ground clearance 380 mm 15 in
- Ground pressure 0.82 bar 12 psi
- Track gauge 204 cm 80 in
- Tram maximum speed 4 km/h 2.5 mph
- Track oscillation ± 10°

### Power Train

- Cat C9 Tier 3, six (6) cylinder, electronically controlled, water-cooled, turbocharged and air-to-air after-cooled diesel engine
- Dual element air filter
- Fuel tank – dual fill 492 L 130 gal

### Cooler Package

- AKG four vertical sections; compressor, engine, hydraulic and air after cooler
- Sized for ambient capability of 52° C (125° F)
- Fan assembly 106 cm 42 in

### Air Compressor

- Hydraulic motor driven
- Screw-type compressor 9.9 m³/min @ 10.2 bar 350 ft³/min @ 150 psi
- Intake check valve and receiver-separator combination tank
- Dual filter elements

### Dust Collecting System

- Dust collector sized to clean holes up to 127 mm (5.0 in) in diameter
- Hydraulic motor powered, dry dust collecting system
- Filter area 28 m² 304 ft²
- Abrasive resistant suction hose 127 mm 5 in

### Cab

- ROPS/FOPS certified
- Digital engine and drill readout system
- Joysticks in both armrests
- Noise rating less than 80 dB(A)
- Total glass 3.07 m² 33 ft²
- Six way adjustable seat; forward/back, up/down and reclining

### Smart Drill Drilling System from MD5150C

- Operator-selected, smooth, electrical control system for all drilling functions
- Monitors main hydraulic system (hammer, feed, air and rotation pressure) and automatically adjusts to pre-programmed parameters
- Minimizes overfeeding
- Anti-plug
- Anti-plunge
- Anti-jam

**Courtesy of Crane.Market**
# MD5075 Track Drill Specifications

## Boom System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Boom length</td>
<td>3.81 m</td>
</tr>
<tr>
<td>Boom extension</td>
<td>1.5 m</td>
</tr>
<tr>
<td>Boom swing</td>
<td>51° L to 15° R</td>
</tr>
<tr>
<td>Boom lift above horizontal</td>
<td>38°</td>
</tr>
<tr>
<td>Boom dump below horizontal</td>
<td>27°</td>
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## Carousel Rod Changer System

<table>
<thead>
<tr>
<th>Rod Changer Length</th>
<th>Rod Diameter Options</th>
<th>Total Hole Depth</th>
</tr>
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<tbody>
<tr>
<td>3.66 m (12 ft)</td>
<td>45 mm – 6 Rod +1 or 51 mm – 6 Rod +1</td>
<td>27.4 m (90 ft) with 6.1 m (20 ft) starter steel</td>
</tr>
<tr>
<td>4.27 m (14 ft)</td>
<td>45 mm – 6 Rod +1 or 51 mm – 6 Rod +1</td>
<td>31 m (102 ft) with 6.1 m (20 ft) starter steel</td>
</tr>
</tbody>
</table>

## Rock Drill

### HPR4519 hydraulic powered percussion rock drill
- **Output energy @ 240 rpm**: 19 kW, 25 hp
- **Dual hydraulic variable rotation motors producing 908 N·m (670 lbf·ft) torque**
- **Weight**: 299 kg, 660 lb
- **Rod diameter**: 45 mm
- **Percussion pressure**: Up to 200 bar, Up to 2,900 psi
- **Blow rate**: 2,500-2,700 bpm
- **Rock drill auto lube system option**
- **Optional HPR5123 Rock Drill**
- **Output energy @ 160 rpm**: 23 kW, 31 hp
- **Dual hydraulic variable rotation motors producing 1356 N·m (1,000 ft-lb)**
- **Weight**: 397 kg, 877 lb
- **Rod diameter choices**: 45 or 51 mm
- **Percussion pressure**: Up to 200 bar, Up to 2,900 psi
- **Blow rate**: 2,500-2,700 bpm

Courtesy of Crane.Market
Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>Shipping Height</th>
<th>3.4 m</th>
<th>11.2 ft</th>
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<td>Shipping Length</td>
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<td>40.4 ft</td>
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<tr>
<td>2</td>
<td>Shipping Width</td>
<td>2.6 m</td>
<td>8.6 ft</td>
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<tr>
<td>3</td>
<td>Shipping Weight</td>
<td>19 504 kg</td>
<td>43,000 lb</td>
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</table>
## Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

### TRACK UNDERCARRIAGE
- Hydraulic, motor-driven, track assemblies with 380 mm (15 in) grousers, hydraulic cylinder controlled track oscillation, hydraulic released, spring applied, disc brakes and triple rock grousers.

### POWER
- Cat C9 Tier 3, six (6) cylinder, electronically controlled, water-cooled, turbocharged and air-to-air after-cooled diesel engine rated at 224 kW (300 hp) at 1,800 rpm includes intake heater for cold weather starting.
- The engine speed is automatically controlled by power demand.

### HYdraulIC SYSTEM
- Two (2) pressure compensated load sensing axial piston pumps, two (2) fixed displacement traction two-speed drive motors and a fixed displacement compressor drive motor.
- Hydraulic test ports conveniently located.

### COMPRESSOR
- Hydraulic motor-driven 9.9 m³/min @ 10.2 bar (350 ft³/min @ 150 psi) screw-type compressor.

### BOOM SYSTEM
- 3.81 m (12.5 ft) telescopic boom with 1.5 m (5 ft) extension.
- 0.91 m (3 ft) feed extension complete with drill positioner and universal feed table.

### FEED SYSTEM
- Hydraulic motor-driven steel channel chain feed complete with the power centralizer. The feed will accept a 6.1 m (20 ft) steel for single pass with a hose reel, which is standard.
- 45 mm drill steel.
- Pre-split capabilities.
- Emergency shut down line.

### ROCK DRILL
- Model HPR4519 hydraulic powered percussion drill with an energy/frequency combination that covers a wide range of applications.
- Hydraulic motor powered variable speed rotation.

### CAB
- Certified ROPS/FOPS pressurized, fixed cab complete with heater, air conditioner, wipers, drilling lights, electronic two (2) axis angle indicator and all necessary drilling controls.
- AM/FM Stereo with CD player.

### ROD CHANGER
- Unique carousel rod changer design for 4.26 m (14 ft) drill steel.
- Carousel will hold 6 rods.
- With one rod in the feed the total drill string length is 31.7 m (104 ft).
- 45 mm drill steel is standard.

### DUST COLLECTING SYSTEM
- Multiple element, hydraulic motor powered, dry dust collecting system; complete with feed mounted precleaner and power pick up pot.

### OTHER STANDARD FEATURES
- Power coupling greaser
- Complete sheet metal enclosure
- Collaring circuit
- Toe hole capabilities

## Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

- HPR5123 Rock Drill in lieu of HPR4519
- Rod changer conversion kit
- CE kit
- Single bar grousers
- Auto lube for rock drill
- Arctic oil
- Rear-mounted water injection system utilizing a 303 L (80 gal) pressurized tank
- Carousel rod changer designed for 3.66 m (12 ft) drill steel. Carousel will hold 6 rods.

 COURTESY OF CRANE.MARKET