MD5150C
Track Drill

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole Diameter Range</td>
<td>101.6 mm-152.4 mm</td>
</tr>
<tr>
<td>Hole Depth Maximum</td>
<td>31 m</td>
</tr>
<tr>
<td>Engine – Cat® C11 Tier 3</td>
<td>287 kW (385 hp) @ 1,800 rpm</td>
</tr>
<tr>
<td>Compressor</td>
<td>15.1 m³/min</td>
</tr>
<tr>
<td>Rock Drill HPR5128</td>
<td>28 kW</td>
</tr>
</tbody>
</table>

CAT®
MD5150C Features:

**New Carousel Rod Changer**
Enjoy increased productivity with our new carousel rod changer that dramatically reduces your rod change time.

**Rock Drill**
Lower your ownership cost with Cat Rock Drills. They are simple enough to be owner serviced yet renowned for their strength and long life in hard rock drilling.

**Power Group**
Fast cycle times are achieved through top of class air capacity, horsepower, and a multitude of time-saving systems for maximum efficiency.

**Solid Structures**
Designed for long life, the MD5150C withstands your harsh drilling conditions thanks to its’ heavy-duty mainframe and undercarriage.

**Operator Safety and Comfort**
Our fully equipped and quiet cabs keep your operators comfortable, productive and safe.

**Serviceability and Customer Support**
Easy maintenance and a long life cycle is yours with high quality Cat Drills and reliable customer support.

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Maximum productivity is the advantage with the Cat MD5150C Track Drill. Fast cycle times and a low operating cost are achieved through our customer-inspired designs such as top of class power, air, fast set-ups and a reliable rock drill. Equipment life cycle is long thanks to our durable Cat components and maintenance friendly designs.
To improve your overall productivity, our new carousel rod changer significantly reduces rod change time. Additionally the carousel is supported by a sturdy feed and the extension boom allowing for large pattern coverage so fewer set ups are required. In fact there are seven (7) patents pending on this truly unique rod changer and feed assembly. For example our rod changer has self lubricating pivot points and is mechanical so there are no electronic switches that fail due to dirt contamination. The feed has a traveling and locking centralizer.

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**

- Six rod carousel
- Drill steel diameters 51 mm, 60 mm and 68 mm
- Drill steel lengths 3.66 m or 4.27 m (12 or 14 ft) with a 6.1 m (20 ft) starter rod
- Deep multi-pass hole depth to 31.1 m (102 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 sized 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
Sturdy Boom and Feed Support the Carousel Rod Changer

- The 2.7 m (9 ft) boom extends an additional 0.9 m (3 ft) for larger pattern coverage with fewer set ups
- The boom swing capability is 26° L to 37° R for wide pattern coverage
- Heavy-duty boom is constructed of thick square tubing with steel plate reinforcements in key areas to add strength
- Feed table is 2.7 m (9 ft) with a 0.9 m (3 ft) extension. It resists torsion and thrust loads due to high strength steel channels with diagonal internal bracing.
- A new, patented, hose tensioning method keeps hoses on the drum, sheaves are used to prolong long hose life and a feed chain auto-tensioner feature reduces adjustment time
- Feed wear pads are replaceable with patent pending adjusters
- Planetary gearbox feed drive is capable of 4354 kg (9,600 lb) feed force and 36.9 mpm (121 fpm) speed
- LED lighting on the feed illuminates the carousel and hole site for around the clock drilling
New Automated Rock Drill Lube System

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 stores supply for up to five 8-10 hour shifts
- A timer board cycles the grease pump throughout the day eliminating maintenance time
- High and low pressure conditions are continually monitored through the display screen

Standard on the MD5150C is the HPR5128 hydraulic powered percussion rock drill rated at 28 kW (37.5 hp) output energy with dual hydraulic variable rotation motors producing up to 2033 N-m (1,500 lbf-ft) torque
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 robust 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

<table>
<thead>
<tr>
<th>Rock Drills for MD5150C</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPR5128 Standard</td>
</tr>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>28 kW</td>
</tr>
<tr>
<td>37.5 hp</td>
</tr>
<tr>
<td>HPR6030 Option</td>
</tr>
<tr>
<td>Option</td>
</tr>
<tr>
<td>30 kW</td>
</tr>
<tr>
<td>40 hp</td>
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<tr>
<td>HPR6832 Option</td>
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<tr>
<td>Option</td>
</tr>
<tr>
<td>32 kW</td>
</tr>
<tr>
<td>43 hp</td>
</tr>
</tbody>
</table>
The MD5150C power group delivers fast cycle times and maximum efficiency due to the combination of large air capacity, engine horsepower and an oversized cooler to keep all systems operating at optimal temperatures.

**Engine**
MD5150C powers through hard rock with its’ Cat C11 Tier 3 engine at 287 kW (385 hp) @ 1,800 rpm. The six (6) cylinder engine is electronically controlled, turbocharged, and water-cooled. Fuel conservation, resulting in lower operating cost, is achieved with three speed engine throttle control.

**Additional Engine Features**
- Engine throttle range – 800 rpm, 1,500 rpm and 1,800 rpm
- Altitude before derating 2286 m (7,500 ft)
- Cat dual air filter elements
- Fuel tank 618 liter (163.3 gal)
- Top-fill oil receiver
- Starter is on right hand side
- Pumps are driven off of the cam tops

**Compressor**
MD5150C has the high capacity air compressor, allowing for maximum flushing power.
- High pressure rating 15.1 m³/min (534 cfm) @ 9.6 bar (140 psi) gauge
- Reliable rotary screw-type compressor
- Directly driven gear ratio
- Air filters are common to the engine
Cooler
Highly efficient, the new oversized design and ATAAC side by side arrangement ensures all systems are properly and efficiently cooled.
• 52° C (125° F) ambient temperature
• Proportional controlled fan
• Easy troubleshooting and cleaning of the coils
• Recirculation of hot air is limited by baffles
Keeping Operators Safe
MD5150C offers a cab with superior safety features from the numerous shutdown methods and a ROPS/FOPS certified cab to responsive controls that minimize fatigue. The cab front window allows for egress, providing a second exit in case of emergency. Because, at the end of the day we all want to go home safely.

Loaded with Safety Features
- High visibility with 3.8 m² (41.76 ft²) tinted safety glass windows
- Slim structure members minimize visual obscurity
- Skylight provides excellent visibility of the drill string and has sliding sunshade
- Mirrors and high-resolution cameras assist in moving the machine
- High resolution monitor for Smart Drill Monitoring System
- Operational lock-out lever in cab seat prevents engine start
- Tram control by lever and foot pedal
- To limit slippage, easy-grip pedals and footrest are rubber covered
- Heavy duty handles
- Large monitor with integrated rearview camera display
- Fire extinguisher mounting brackets
- Three speed window wipers

Safety Through Controls
- Dual joystick controls are ergonomic and seat-mounted
- For heightened precision, the position and shape of the CANbus joysticks match the operator’s natural expectations
- Thread lube system is operated with a foot switch
Cab
Throughout your shifts, the Cat 349E cab is a quiet and comfortable work environment for relaxed drill operation. It’s pressurized to reduce dust and it’s isolator mounted to minimize vibration.

Features
- Climate control system maintains a consistent temperature
- Air is filtered to the operator
- Windows have defrost/defog air
- Windows open for fresh air and communication with others
- Operators seat is adjustable six ways
- Armrests, controls and switches are ergonomic
- Easy access to cab air filter and fuse box
- AM/FM Radio IPod/MP3 player ready
- Communications radio ready
- Easy to clean finishes
- Deep storage space and two cup holders
- Two auxiliary power outlets 12V

Smart Drill Monitoring System
Developed to assist novice drillers, the smart drill system increases your overall drill production in difficult drilling conditions. It monitors main hydraulic systems and automatically adjusts to pre-programmed parameters. It incorporates anti-jam, anti-plunge, and anti-plug and increases overall life of drill string.
You can expect a long life due to the structural integrity of our frames and the robust Cat 315C undercarriage. Despite the unyielding demands of drilling and navigating rough terrain, our structures are continually proven reliable. The frame supports the upper machine weight plus the added hammer pressure of percussive drilling, yet the MD5150C remains extremely maneuverable thanks to its low center of gravity, high ground clearance, and independent track oscillation.

**Frame**
You can rely on a maintenance free and long lasting base for your drill because each frame is designed and thoroughly inspected in-house. All weld inspections are certified to CWI or CAWI standards.
- High quality steel
- Welds are magnetic particle inspected
- Vibratory stress tested
- Designed to our best-built standards

**Undercarriage**
Get there faster on a Cat 315C Undercarriage. You can quickly and precisely position the MD5150C at drill patterns thanks to the agility of independent track oscillation. Further, the best-built design and high ground clearance allow you to confidently tram rough terrain between benches.

- **Highly Maneuverable**
  - Dual tram speed 4.0 km/h or 1.6 km/h (2.5 mph or 1.0 mph)
  - Gradeability 35°
  - Ground clearance 406 mm (16 in)
  - Wide triple grousers 380 mm (15 in)
  - Oscillation ±11°; hydraulic cylinder controlled

- **Durable**
  - Robust strut design is resistant to failures
  - Easy installation and removal of shoes
  - Rebuildable
• Cat Grease Lubricated Track (GLT)
  – Each track joint is sealed to retain the grease between the pin and bushing
  – Improves internal wear life by over 25% than sealed track
  – Track noise is reduced because there is no metal to metal contact between the pin and bushing
  – The grease lubricant prevents frozen or seized track joints
  – Overall system wear life is enhanced due to sprocket wear improvements
Dust Collection
Contain it – quickly and quietly.

Powered to clean holes up to 152.4 mm (6.0 in), the MD5150C dry dust collection system is efficient, quiet and it consumes less power than traditional dust collectors. The heavy-duty system effectively manages rock fragments and dust yet is also easy to clean and service.

Features
• High capacity working pressure is 7 bar (100 psi)
• Suction rating is 0.70 m³/sec (1,480 ft³/min)
• The suction fan design limits the power requirement to correspond the application
• Easy top access to filters and air valves
• The sealed pick up pot prevents cuttings from escaping above the hole
• Vacuum generated air flow carries the materials
• Pivoting separator is feed mounted and separates cuttings from dust
• Abrasive resistant dust hose is 152.4 mm (6 in)
• Filtration area is 16 m² (172 ft²) and separates the solid particles from the clean air
• Timed cleaning is continual through reverse-pulses of air
To assist you in your operations and equipment management, we provide numerous technology products that aid in utilization, tracking, planning as well as equipment maintenance and performance monitoring.

**Product Link™**
Reduce your owning and operating costs by maximizing your utilization. Product Link achieves this through remote fleet monitoring, asset tracking, maintenance management which are reported via satellite and cellular networks. This system allows you to monitor daily fuel usage, route fuel trucks for maximum efficiency and track equipment utilization day by day, hour by hour.

**Cat Monitoring System**
The MD5150C is equipped with the Cat Monitoring System (Cat MS) which keeps watch over the health of your engine. It monitors critical engine system functions and will derate the engine to protect itself from damage if needed. When critical conditions arise, the Cat MS monitor displays warning lights and sound audible alarms.

**Automatic Lubrication Systems**
Peak performance is sustained when your components are kept lubricated, cool, and automatically maintained with our new Automatic Lube Systems. A tremendous time saver for you, the MD5150C is equipped with two systems that keep the undercarriage, boom, feed, and rock drill greased at ideal intervals.

**Smart Drill Monitoring System**
Developed to assist novice drillers, the smart drill system increases your overall drill production when drilling in difficult conditions. It monitors main hydraulic systems and automatically adjusts to pre-programmed parameters. It incorporates anti-jam, anti-plunge, and anti-plug and increases overall life of drill string.

**Electrical System – Cat (ET) Electronic Technician**
For easy troubleshooting of the entire machine, the Cat MD5150C Track Drill includes the Cat ET System this is familiar to and favored by service technicians around the world.
**Drill More. Service Less.**
Easy access. Simple. Cost effective.

**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.

- 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
- Best-in-class parts availability because Cat dealers understand the value of your uptime
- Operator training to help boost your productivity
- Genuine Cat Remanufactured parts are available
With the maintenance friendly designs, your service access is safe and efficient. Servicing a Cat Track Drill is very straightforward thanks to well-organized electrical/hydraulic arrangements and logically located components which contribute to its valued simplicity and ease of maintenance. Systems are designed for durability and easy maintenance so your equipment life cycle is long, operating costs are lower and Cat drills maintain a high resale value.

Features

- Cat ET Software is used to troubleshoot the equipment
- Enclosure has gull-wing doors lifted with gas springs
- Interior and exterior LED lighting throughout the drill and under the canopy
- The canopy can be completely removed via four pinning points and lifting lugs
- Electric pump for filling hydraulic tank
- Grease reservoir is easily accessible for changing coupling grease
- Pumps and valves are conveniently arranged for service
- Service areas are designed with three points of contact for safe access
- Hose routings include bulkhead clamps to allow for shorter hose runs and easier replacements

Walk-in Service Station

To further assist you with troubleshooting and maintenance, the MD5150C has a unique walk-in service station inside of the drill enclosure. The water tank swings out allowing covered access to major service points for the engine, compressor, air conditioning, valves for the boom and water injection systems and more. A boom-mounted camera constantly monitors the front of the drill so you have constant visibility when working inside the service center.
Operator Training for Safety
- High quality materials and trainers for operation, maintenance, and service
- Classroom style training available
- Hands-on training with your local Cat dealer
Loaded with numerous safety features, the Cat Track Drills are designed to provide a safe working environment for operators as well as maintenance and service technicians.

**MD5150C Track Drill Safety Features**
- Non-slip, heavy duty steps and handles are strategically placed
- Three points of contact at all steps
- Quick and easy access to service points
- Four external safety shutdowns at ground level
- Reversing camera
- Mirrors and high-resolution cameras to assist in safely moving the machine
- LED lighting inside and out, on the feed and in all service compartments
- Flashing motion beacon and alarm
- Slideout battery tray for easy change out
- Fire extinguisher mounting bracket

**Walk-in Service Station Safety Features**
- Tramming is locked out
- Covered access to major service points

**Cab Safety Features**
- ROPS/FOPS cab
- High visibility with 3.8 m² (41.76 ft²) of tinted safety glass
- Slim structure members minimize visual obscurity
- Skylight allows viewing the top of the feed and has a sliding sunshade
- Mirrors and high-resolution cameras assist in safely moving the machine
- High resolution monitor for Smart Drill Monitoring System
- Operational lock-out lever in cab seat prevents engine start and operation
- Ground level shutdowns
- Tram control by lever or foot pedal
- Easy-grip pedals and footrest are rubber covered
- Heavy duty handles
- Three speed window wipers
- Fire extinguisher mounting bracket
To increase efficiency and productivity for you, Cat Drill designs leverage technology and innovations that help to minimize the environmental impact of mining. We strive to provide products, services and solutions that use our natural resources wisely.

**MD5150C Sustainability Features**
- Fuel economy is achieved with three speed throttle control
- Product Link for optimum fleet management
- Smart Drill Monitor automatically adjusts power to the rock condition requirements
- Auto lube systems are clean and efficient
- Remanufactured components are available
- Major components can be rebuilt
# MD5150C Track Drill Specifications

<table>
<thead>
<tr>
<th><strong>General Data</strong></th>
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</thead>
<tbody>
<tr>
<td>Hole Diameter Range</td>
</tr>
<tr>
<td>Hole Depth Maximum</td>
</tr>
<tr>
<td>Engine – Cat C11 Tier 3</td>
</tr>
<tr>
<td>Compressor</td>
</tr>
<tr>
<td>Rock Drill HPR5128</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>Dimensional Specifications and Weights</strong></th>
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</thead>
<tbody>
<tr>
<td>Operating Length</td>
</tr>
<tr>
<td>Tramming Length</td>
</tr>
<tr>
<td>Shipping Length</td>
</tr>
<tr>
<td>Shipping Width</td>
</tr>
<tr>
<td>Shipping Height</td>
</tr>
<tr>
<td>Shipping Weight (base machine)</td>
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<table>
<thead>
<tr>
<th><strong>Undercarriage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide Triple Grouser Pads</td>
</tr>
<tr>
<td>Gradeability</td>
</tr>
<tr>
<td>Ground Clearance</td>
</tr>
<tr>
<td>Ground Pressure</td>
</tr>
<tr>
<td>Track Gauge</td>
</tr>
<tr>
<td>Tram Speed (2 speed)</td>
</tr>
<tr>
<td>Track Oscillation</td>
</tr>
<tr>
<td>Hydraulic motor-driven track assemblies</td>
</tr>
<tr>
<td>Cat 315C</td>
</tr>
<tr>
<td>Spring applied disc brakes</td>
</tr>
<tr>
<td>Triple rock grousers</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Power Train</strong></th>
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</thead>
<tbody>
<tr>
<td>Cat C11 Tier 3 Diesel @ 1,800 rpm</td>
</tr>
<tr>
<td>Ambient Temperature Capability</td>
</tr>
<tr>
<td>Altitude Before Derating</td>
</tr>
<tr>
<td>Fuel Tank</td>
</tr>
<tr>
<td>SIX (6) cylinder, electronically</td>
</tr>
<tr>
<td>controlled, water-cooled, turbocharged</td>
</tr>
<tr>
<td>and air-to-air after-cooled</td>
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<tr>
<td>Three position engine rpm throttle</td>
</tr>
<tr>
<td>Cat dual air filter elements</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Cooler Package</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 2,000 rpm</td>
</tr>
<tr>
<td>Fan Assembly</td>
</tr>
<tr>
<td>AKG four vertical sections; compressor,</td>
</tr>
<tr>
<td>engine, hydraulic and air after cooler</td>
</tr>
<tr>
<td>Sized for ambient capability of 52° C</td>
</tr>
<tr>
<td>Hydraulic fan drive with temperature</td>
</tr>
<tr>
<td>compensated speed control</td>
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<table>
<thead>
<tr>
<th><strong>Hydraulic System</strong></th>
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</thead>
<tbody>
<tr>
<td>Pressure compensated axial piston pumps</td>
</tr>
<tr>
<td>Cooling fan with axial piston variable</td>
</tr>
<tr>
<td>control pump</td>
</tr>
<tr>
<td>Convenient hydraulic test ports</td>
</tr>
<tr>
<td>Full flow 5 micron filtration</td>
</tr>
<tr>
<td>Electric fill pump</td>
</tr>
<tr>
<td>416 L (110 gal)</td>
</tr>
<tr>
<td>Full flow cooling</td>
</tr>
<tr>
<td>Sight gauge with electronic safety</td>
</tr>
<tr>
<td>shutdown on low level</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Air Compressor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Direct Driven</td>
</tr>
<tr>
<td>Screw-type compressor</td>
</tr>
<tr>
<td>Direct drive 1.25 gear ratio running</td>
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<tr>
<td>Dual filter elements</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Shutdown Features</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Low engine oil pressure</td>
</tr>
<tr>
<td>High engine water temperature</td>
</tr>
<tr>
<td>High compressor discharge temperature</td>
</tr>
<tr>
<td>Low hydraulic oil level</td>
</tr>
<tr>
<td>Emergency stop (4 locations)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Instrumentation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tachometer</td>
</tr>
<tr>
<td>Fuel gauge</td>
</tr>
<tr>
<td>Water temperature</td>
</tr>
<tr>
<td>Engine hour meter</td>
</tr>
<tr>
<td>Drill hour meter</td>
</tr>
<tr>
<td>Drill mode meter</td>
</tr>
<tr>
<td>Tram mode meter</td>
</tr>
<tr>
<td>Oil pressure</td>
</tr>
<tr>
<td>Fuel consumption</td>
</tr>
<tr>
<td>Compressor temp</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Drill rotation pressure</td>
</tr>
<tr>
<td>Drill hammer pressure</td>
</tr>
<tr>
<td>Drill feed pressure</td>
</tr>
<tr>
<td>Blow air pressure</td>
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</table>
**Dust Collecting System**

<table>
<thead>
<tr>
<th>Filter Area</th>
<th>16 m²</th>
<th>172 ft²</th>
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</thead>
<tbody>
<tr>
<td>Abrasive Resistant Suction Hose</td>
<td>152.4 mm</td>
<td>6 in</td>
</tr>
<tr>
<td>Top Change Filter Elements</td>
<td>Quantity 4</td>
<td></td>
</tr>
</tbody>
</table>

- Dust collector sized to clean holes up to 152 mm (6 in) in diameter
- Hydraulic motor powered, dry dust collecting system
- Programmable pneumatic filter purge system
- Reverse pulse filter cleaning system
- Feed-mounted dual axis precleaner
- Hydraulically operated and positional dust pickup pot

**Smart Drill Drilling System**

- 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

**Boom System**

<table>
<thead>
<tr>
<th>Boom Length</th>
<th>2.7 m</th>
<th>9 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom Extension (inner boom extension)</td>
<td>0.91 m</td>
<td>3 ft</td>
</tr>
<tr>
<td>Boom Swing</td>
<td>26° L to 37° R</td>
<td></td>
</tr>
<tr>
<td>Boom Lift Above Horizontal</td>
<td>50°</td>
<td></td>
</tr>
<tr>
<td>Boom Dump Below Horizontal</td>
<td>29°</td>
<td></td>
</tr>
<tr>
<td>Extendible Offset Feed Table</td>
<td>0.91 m</td>
<td>3 ft</td>
</tr>
<tr>
<td>Feed Swing</td>
<td>36° L to 37° R</td>
<td></td>
</tr>
</tbody>
</table>

**Feed System**

- High Strength Steel Channels (2) | 177.8 mm | 7 in |
- Pitch Roller Chain and Sprockets | 38.1 mm | 1.5 in |
- Drill mounting slide
- Replaceable wear pads with adjusters
- Automatic hydraulic feed chain tensioner
- Planetary gearbox feed drive capable of 42 703 N (9,600 lb) feed force and 36.9 m/min (121 fpm) speed
- Headache rack for tram and transport
- Highly visible hose reel

**Carousel Rod Changer System**

<table>
<thead>
<tr>
<th>Rod Length</th>
<th>3.66 m or</th>
<th>12 ft or 14 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod Diameters</td>
<td>51 mm, 60 mm and 68 mm</td>
<td></td>
</tr>
<tr>
<td>Starter Rod</td>
<td>6.1 m</td>
<td>20 ft</td>
</tr>
<tr>
<td>Single Pass Depth</td>
<td>5.63 m</td>
<td>18.5 ft</td>
</tr>
<tr>
<td>Multi-pass Depth</td>
<td>31.1 m</td>
<td>102 ft</td>
</tr>
</tbody>
</table>

- Patent pending breakout system
- Anti-corrosion/self lubricating coatings on pins
- Traveling and locking centralizer
- Hose tensioners
- Manual and digital dual axis angle indicator
- Dual heavy duty gripper arms
- LED flood light
- Air/grease coupling lubrication system

**Cab**

<table>
<thead>
<tr>
<th>Total Glass</th>
<th>4.66 m²</th>
<th>50.16 ft²</th>
</tr>
</thead>
</table>
- Cat 349E cab
- ROPS/FOPS certified
- Digital engine and drill readout system
- CANbus joysticks in both armrests
- Tinted sliding windows
- Reversing camera
- Heater/AC pressurizer and coils mounted in cab
- Front washer and wiper
- AM/FM radio
- CB Radio (optional)
- 110V AC outlet
- Six way adjustable seat; forward/back, up/down and reclining
- Emergency egress
- Foot pedal and handle tram controls
- Auto thread greaser at right foot
- Console pocket for drill log, from camera screen, lunch box, drink holder and miscellaneous storage
- Coat hook
- Driller lunch box/cooler storage behind seat

**Controls in Cab**

- Key switch
- Safety switch
- Two armrest joystick controls (both with dual axis and left with six buttons and right with seven buttons)
  - Left joystick
  - Right joystick
  - Tram/setup mode
  - 1st Drill functions
  - 2nd Drill functions
  - 3rd Drill functions
- Remote feed force control knob
- Remote water output flow control knob
- Seven dedicated switches
  - High idle
  - Drill/tram
  - Dust collector
  - Smart drill
  - Seven LED drill lights (three selections)
  - Wiper (three selections)
  - Washer
  - Warm oil
### Rock Drill

<table>
<thead>
<tr>
<th>Specification</th>
<th>HPR5128</th>
<th>HPR6030</th>
<th>HPR6832</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HPR5128 Output Energy</strong></td>
<td>28 kW</td>
<td>30 kW</td>
<td>32 kW</td>
</tr>
<tr>
<td><strong>Motor Output</strong></td>
<td>37.5 hp</td>
<td>40 hp</td>
<td>43 hp</td>
</tr>
<tr>
<td><strong>Dual Hydraulic Variable Rotation Motors Producing</strong></td>
<td>Up to 2033 N·m</td>
<td>Up to 2033 N·m</td>
<td>Up to 2033 N·m</td>
</tr>
<tr>
<td><strong>Torque</strong></td>
<td>1,500 lbf-ft</td>
<td>1,500 lbf-ft</td>
<td>1,500 lbf-ft</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>408.2 kg</td>
<td>397 kg</td>
<td>408 kg</td>
</tr>
<tr>
<td><strong>Rod Diameter Choices</strong></td>
<td>51 mm, 60 mm or 68 mm</td>
<td>51 mm, 60 mm or 68 mm</td>
<td>51 mm, 60 mm or 68 mm</td>
</tr>
<tr>
<td><strong>Percussion Pressure</strong></td>
<td>Up to 200 bar</td>
<td>Up to 200 bar</td>
<td>Up to 200 bar</td>
</tr>
<tr>
<td><strong>Blow Rate</strong></td>
<td>2500-2700 bpm</td>
<td>2500-2700 bpm</td>
<td>2500-2700 bpm</td>
</tr>
</tbody>
</table>

### Optional HPR6030 Rock Drill

<table>
<thead>
<tr>
<th>Specification</th>
<th>HPR6030</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Energy</strong></td>
<td>30 kW</td>
</tr>
<tr>
<td><strong>Motor Output</strong></td>
<td>40 hp</td>
</tr>
<tr>
<td><strong>Dual Hydraulic Variable Rotation Motors Producing</strong></td>
<td>2033 N·m</td>
</tr>
<tr>
<td><strong>Torque</strong></td>
<td>1,500 lbf-ft</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>397 kg</td>
</tr>
<tr>
<td><strong>Rod Diameter Choices</strong></td>
<td>51 mm, 60 mm or 68 mm</td>
</tr>
<tr>
<td><strong>Percussion Pressure</strong></td>
<td>Up to 200 bar</td>
</tr>
<tr>
<td><strong>Blow Rate</strong></td>
<td>2500-2700 bpm</td>
</tr>
</tbody>
</table>

### Optional HPR6832 Rock Drill

<table>
<thead>
<tr>
<th>Specification</th>
<th>HPR6832</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Energy</strong></td>
<td>32 kW</td>
</tr>
<tr>
<td><strong>Motor Output</strong></td>
<td>43 hp</td>
</tr>
<tr>
<td><strong>Dual Hydraulic Variable Rotation Motors Producing</strong></td>
<td>2033 N·m</td>
</tr>
<tr>
<td><strong>Torque</strong></td>
<td>1,500 lbf-ft</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>408 kg</td>
</tr>
<tr>
<td><strong>Rod Diameter Choices</strong></td>
<td>51 mm, 60 mm or 68 mm</td>
</tr>
<tr>
<td><strong>Percussion Pressure</strong></td>
<td>Up to 200 bar</td>
</tr>
<tr>
<td><strong>Blow Rate</strong></td>
<td>2500-2700 bpm</td>
</tr>
</tbody>
</table>

### Safety

- Feed swipe rope engine shut off
- Four large top opening access doors assisted with gas springs
- Two fixed interior LED lights and one magnetic movable LED light
- Two exterior rear facing LED lights
- Four LED lights on front of the cab facing forward and one on top of the feed facing down to hole
- Five, three point access areas
- Flashing motion beacon and motion alarm
- Four safety switches
- Rearview camera mounted on rear access door
- Heavy duty steps and handles are strategically placed and non-slip
- Three points of contact at all steps
- Four external safety shut downs at ground level
- Tram interlock switch at service access area
- Mirrors and high-resolution cameras are standard to assist in safely moving the machine
- Slide out battery tray for easy change out
### Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Length in Tram Position</td>
<td>10.8 m</td>
<td>35 ft 2 in</td>
</tr>
<tr>
<td>2</td>
<td>Height in Tram Position</td>
<td>3.4 m</td>
<td>11 ft 2.5 in</td>
</tr>
<tr>
<td>3</td>
<td>Length in Drilling Position</td>
<td>8.1 m</td>
<td>26 ft 5.47 in</td>
</tr>
<tr>
<td>4</td>
<td>Height to Top of Cab</td>
<td>3.2 m</td>
<td>10 ft 7.33 in</td>
</tr>
<tr>
<td>5</td>
<td>Height to Top of Feed</td>
<td>9.2 m</td>
<td>30 ft 3.14 in</td>
</tr>
<tr>
<td>6</td>
<td>Width for Shipping (less dust hood)</td>
<td>2.6 m</td>
<td>8 ft 6.55 in</td>
</tr>
<tr>
<td>7</td>
<td>Overall Width</td>
<td>3.3 m</td>
<td>10 ft 9.29 in</td>
</tr>
</tbody>
</table>
MD5150C Track Drill Specifications

Coverage Area Vertical Feed

<table>
<thead>
<tr>
<th>1</th>
<th>1.4 m</th>
<th>4 ft 8 7/16 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3.8 m</td>
<td>12 ft 6 1/8 in</td>
</tr>
</tbody>
</table>

Coverage Area Vertical Reach

<table>
<thead>
<tr>
<th>1</th>
<th>5.0 m</th>
<th>16 ft 6 3/16 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.5 m</td>
<td>1 ft 7 1/4 in</td>
</tr>
</tbody>
</table>

Coverage Area Toe-Hole

Drill Angle, Feed

Drill Angle, Toe-Hole

4° 24° 67°
MD5150C Standard Equipment

Standard Equipment

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

**TRACK UNDERCARRIAGE**
- Cat 315C lower arrangement
- Hydraulic motor-driven track assemblies with towing disconnects
- 380 mm (15 in) wide grousers
- ±11° hydraulic cylinder controlled track oscillation
- Hydraulic released spring applied disc brakes and triple rock grousers
- Dual trarming speed 1.6/4.0 km/h (1.0/2.5 mph)

**POWER**
- Cat C11 Tier 3, six (6) cylinder, electronically controlled, water-cooled, turbocharged and air-to-air after-cooled diesel engine rated at 287 kW (385 hp) at 1,800 rpm
- Three speed throttle control for fuel conservation

**HYDRAULIC SYSTEM**
- Two main 105 cc (6.4 in³) pressure compensated axial piston main pumps
  - One dedicated cooling 38 cc (2.3 in³) fan pump pressure compensated axial piston piggy-back mounted off the left main pump
  - One dedicated dust collector 21 cc (1.3 in³) gear pump piggy-back mounted off the right main pump

**COMPRESSOR**
- Engine direct driven 252 L/sec @ 9.6 bar (534 cfm @ 140 psi) screw-type compressor

**BOOM SYSTEM**
- 2.7 m (9 ft) extension boom with 0.91 m (3 ft) inner boom extension
- The boom swing capability is 26° L to 37° R
- The boom is mounted on a 0.91m (3 ft) extendible offset feed table

**FEED SYSTEM**
- Model HUFH20 hydraulic motor-driven steel channel chain feed weldment complete with the power centralizer, manual and electronic angle inclinator, unique hose sheaves and patented feed chain tensioner
- Equipped with replaceable wearpads
- The HUFH20 feed will change a 6.10 m (20 ft) starter drill steel inside the centralizer

**ROCK DRILL**
- Model HPR5128 hydraulic powered percussion drill rated at 28 kW (37.5 hp) output energy with dual hydraulic variable rotation motors producing 1898 N·m (1,400 lbf-ft) torque

**CAB**
- Cat 349E cab complete with heater, air conditioner, wiper, four (4) drilling lights and all necessary drilling controls
- ROPS/FOPS certified
- AM/FM stereo
- Receptacle for auxiliary charger
- Comfortable six way adjustable operator’s seat
- Tinted, sliding windows

**ROD CHANGER**
- Carousel for 6 × 4.2 m (14 ft) steel
- Hydraulic centralizer
- Unique mechanical drive and locking system for rod indexing
- Patented hose tensioner
- Patented wearpad adjustment
- Patented anti-corrosion, self-lubricating pivot points
- Changeable rod gripper inserts and rod retainers
- LED light
- Dual HD rod grippers

**CONTROLS**
- The tram, drill setup, feed, rotation, rod changer and blowing air controls are mounted in the cab
- Manual tram, drill setup, feed, rotation and rod changer controls are located at easy to access service positions

**DUST COLLECTING SYSTEM**
- Hydraulic motor powered, dry dust collecting system with four top service filters
- Programmable pneumatic filter purge system
- Dual axis patented precleaner mounting
- Hydraulic operated pick up pot
- 152 mm (6 in) abrasive resistant suction hose

**OTHER STANDARD FEATURES**
- Foot pedal coupling greaser operated from cab, collaring and Smart-drill drilling modes
- Engine enclosure with four large top opening access doors assisted with gas springs, two fixed interior LED lights and one magnetic movable LED light, two exterior rear-facing LED lights
- Rearview camera mounted on rear access door
- Four pinning points and lifting lugs for quick easy removal of canopy
- Electric hydraulic fill pump
- Five, three point access areas
- Flashing motion beacon and motion alarm
- Four safety switches
- Slideout battery tray
- Cat Electronics
- Auto Lube System
- Toe hole and horizontal drilling capabilities
## Optional Equipment

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

- 303 L (80 gal) detergent system
- Rod changer conversion kit
- HPR6030 Rock Drill 30 kW (40.2 hp)
- HPR6832 Rock Drill 32 kW (43 hp)
- CB radio
- Auxiliary air connections
- Rod changer for 3.66 m (12 ft) steel
- Patented drill pipe breakout wrench