

MD6380

ROTARY DRILL



Bit Load: Up to 53 845 kg (118,719 lb)
Hole Diameter: 251-381 mm (9.875-15 in)
Engine: Cat® 3512C @ 1,800 rpm



A large yellow CAT MD6380 rotary drill rig is shown in a desert environment. The rig is tall and complex, with a prominent vertical mast and a drilling mechanism. A person in a high-visibility vest is visible in the operator's cab. The background features a clear blue sky and a hazy, mountainous horizon.

Smart.
Precise.
Powerful.

THE CAT[®] MD6380

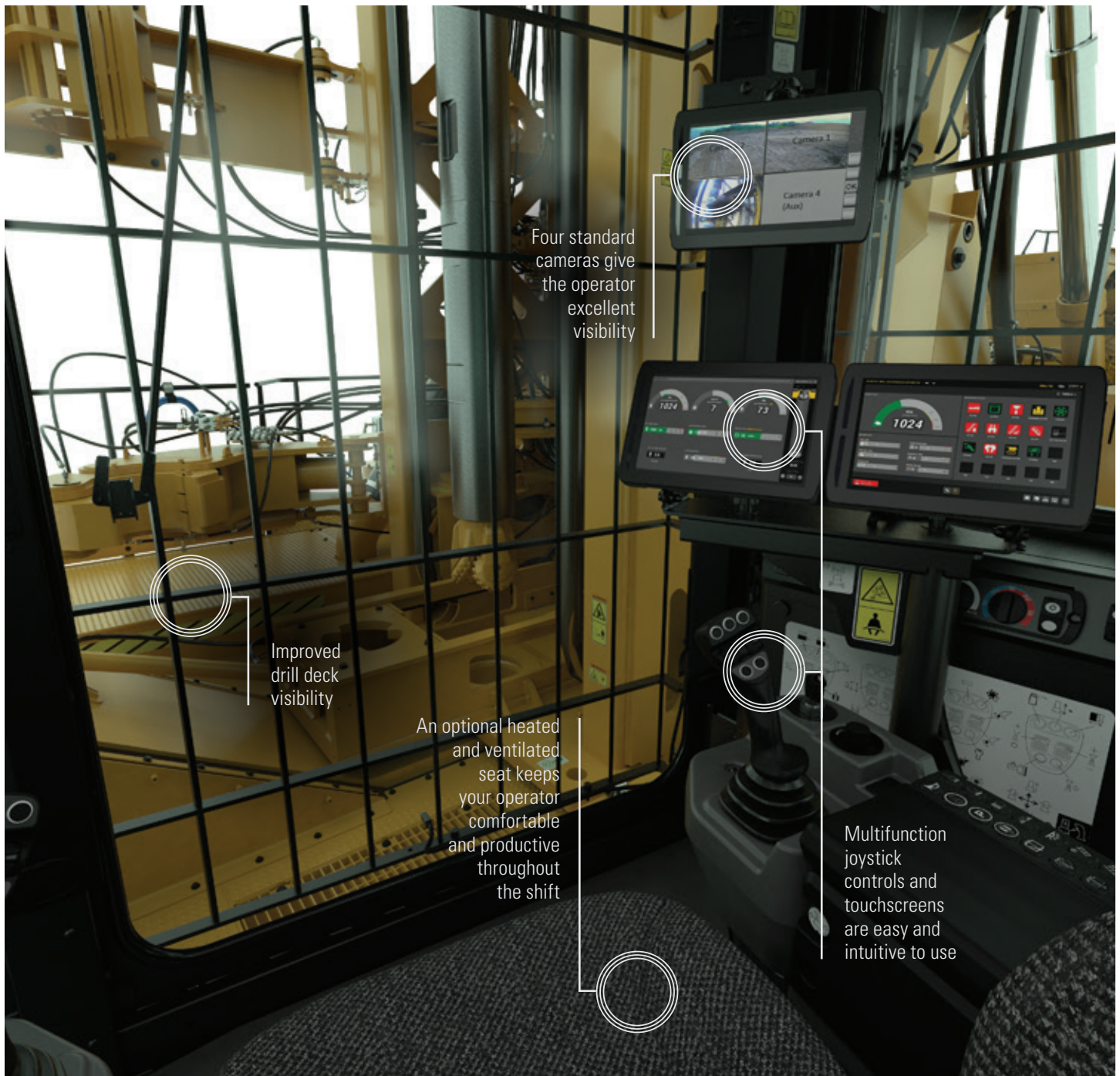
The Cat® MD6380 is a next-generation rotary production blasthole drill with a wide variety of features, technologies and options that help you configure a machine to suit your application. It's easy to own and operate, with improved serviceability and the reliable performance you expect from Caterpillar—backed by the world-class support of the Cat dealer network.

It is a versatile, reliable machine that works quickly and efficiently, helping you reduce costs and improve the efficiency of all downstream operations. Robust structures and mast with an integral a-frame allow it to stand up to the toughest conditions, for long life and reliable performance. With a variety of standard and optional technologies, as well as a next-generation cab and operator station, the MD6380 is designed to keep operators comfortable and productive all shift long, driving up production and driving down costs.



NEXT-GENERATION CAB AND OPERATOR STATION

The MD6380 features our next-generation operator station, focused on improved operator comfort and productivity.



Four standard cameras give the operator excellent visibility

Improved drill deck visibility

An optional heated and ventilated seat keeps your operator comfortable and productive throughout the shift

Multifunction joystick controls and touchscreens are easy and intuitive to use



**CAT® ELECTRONICS —
THE BACKBONE OF
THE MACHINE**

The MD6380 is built with proven Cat electronic hardware and software, with Cat Electronic Technician (Cat ET) for quick and easy troubleshooting. Its electronic architecture is shared with a wide variety of other Cat machines for simplified service and training. Integrated machine protection features and interlocks shield the MD6380 from costly failure, reducing maintenance times and costs.

FAST & VERSATILE

The MD6380 is built to get the job done quickly and efficiently. Its compact working envelope provides best-in-class maneuverability, allowing it to get in position over the hole and get to work quickly. A low center of gravity and integrated undercarriage give the MD6380 excellent stability so it can go farther, faster.





ENHANCED BY TECHNOLOGY

The MD6380 is built for technology, with standard and optional offerings that help you improve accuracy and reduce rework.

Drill Assist technologies automate individual machine functions, such as auto level/auto retract jacks, auto mast (raise to angle and lock/unlock and lower) and auto drill. This allows operators to work faster and more consistently, reducing setup and cycle times.

In addition to its onboard automated functions and features, the MD6380 comes ready for Cat® MineStar™ technologies, connecting your machine to a powerful fleet management system. Enhance productivity with Cat Terrain for drilling, which dramatically improves hole positioning and virtually eliminates over- and under-drilling.

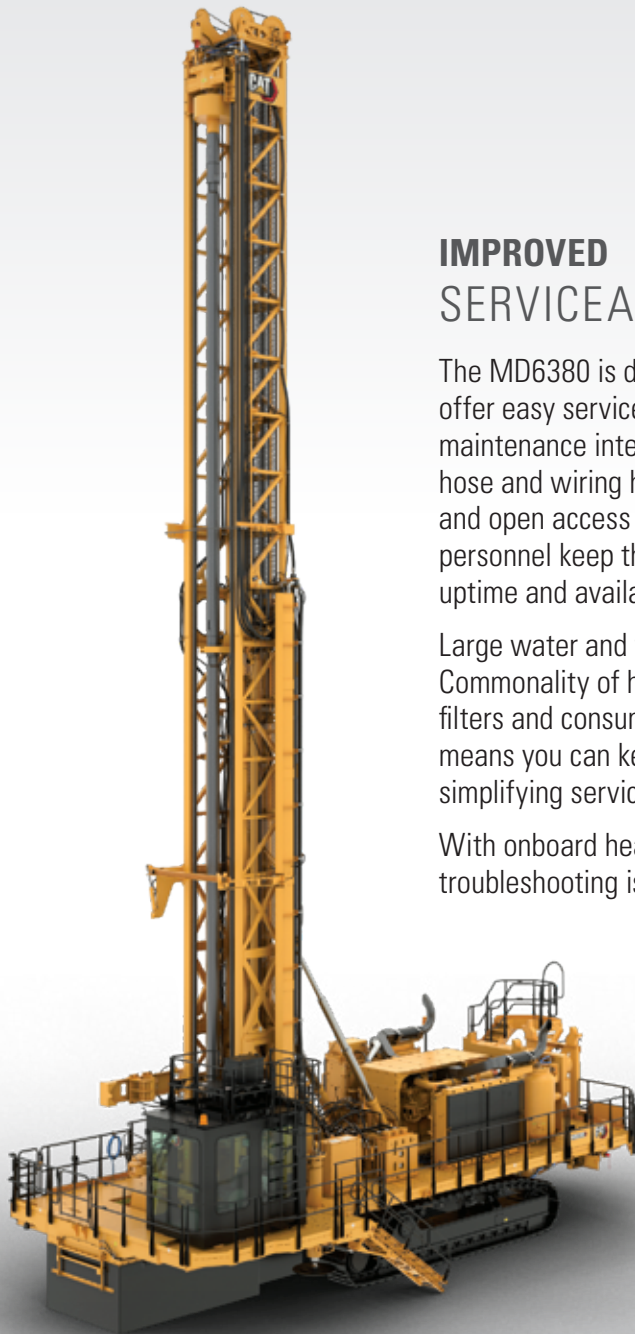
Our offerings are designed to allow mines to implement technology at their own pace. Whether you need onboard drill assist technology or one of Caterpillar's building-block autonomy packages, the MD6380 is built for it.



PART OF THE CAT DRILL FAMILY

The MD6380 is an integrated Cat machine, with 100% Cat parts, components and systems, as well as extensive support and technical documentation.

Designed with common parts across the Cat drill product line, as well as commonalities with other Cat machines, it's easy to find and stock the parts you need to keep your machines hard at work. All this adds up to a reliable, productive machine with a low total cost of ownership.



IMPROVED SERVICEABILITY

The MD6380 is designed from the ground up to offer easy service access and extended preventive maintenance intervals. Neat and uniform hydraulic hose and wiring harness runs, grouped service points and open access to components help your maintenance personnel keep the machine running for superior uptime and availability

Large water and fuel tanks reduce time spent refilling. Commonality of hydraulic, engine and compressor oil filters and consumables between the Cat drill family means you can keep fewer parts on hand, further simplifying service.

With onboard health monitoring and Cat ET, troubleshooting is quick and simple.



MATCHED POWER

The matched powertrain delivers better performance and reduced fuel consumption by matching engine power to load requirements from the hydraulics and compressor. Caterpillar's new Electronic Compressor Controls (ECC) modulate both working pressure and air volume flow, matching the drill's compressed air output to specific requirements based on the tooling used and how it interacts with ground conditions and the operating environment.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Emissions	U.S. EPA Tier 2/ EU Stage II equivalent	
Engine	Cat® 3512C @ 1,800 rpm	
Power Rating (ISO 14396)	949 kW	1,273 hp
Power Rating (J1995)	960 kW	1,287 hp

COMPRESSOR / RECEIVER TANK		
+ Rotary, single stage, low pressure 101.9 m ³ /min (3,600 ft ³ /min) @ 6.9 bar (100 psi); with low pressure receiver tank for ASME/CRN/AU or CE		

COOLING		
+ Functional in ambient temperature of 52° C (125° F)		

UNDERCARRIAGE		
Cat 374 EEL		
Drawbar Pull	980 686 N·m	723,316 lbf
Double Grousers for Hard Rock Applications	750 mm	29.5 in
Double Grousers for Soft Rock Applications	900 mm	35.4 in

HYDRAULICS		
+ Two (2) primary pumps – 280 cc (piston with proportional electronic controls)		
+ One (1) auxiliary circuit pump – 145 cc (piston, load sensing)		
+ Two (2) fan pumps – 100 cc (piston with proportional electronic controls)		
+ Two (2) charge pumps – 74 cc (fixed displacement)		
+ Scheduled Oil Sampling (S·O·S SM) ports		

MAST		
Hole Diameter Range	251-381 mm	9.875-15 in
Single Pass Hole Depth Down To	19.8 m	65 ft
Multi-Pass Hole Depth Down To	39.5 m	129 ft
Bit Load Up To	53 845 kg	118,719 lb
Pulldown Capacity Up To	49 895 kg	110,000 lb
Rotation Torque Up To	20 880 N·m	15,400 lbf
+ Vertical or angle drilling		

MAST ACCESSORIES	
+ Pipe positioner (stabilizer) engaged/disengaged indicator, and interlock	
+ One hydraulic pipe catcher	
+ Hydraulic pipe support in the upper section of the mast	

PIPE LOADER	
+ LH/RH pipe racks holds 9.906 m (32.5 ft) drill pipe	
+ 219 mm (8.625 in) diameter	– LH and RH, double pipe rack – Capable of single and multi-pass – Primary loader @ 29.68 m (97.4 ft) – Secondary loader @ 39.59 m (129.9 ft)
+ 235 mm (9.25 in) diameter	– LH and RH, double pipe rack – Capable of single and multi-pass – Primary loader @ 29.68 m (97.4 ft) – Secondary loader @ 39.59 m (129.9 ft)
+ 273 mm (10.75 in) diameter	– LH and RH, double pipe rack – Capable of single and multi-pass – Primary loader @ 29.68 m (97.4 ft) – Secondary loader @ 39.59 m (129.9 ft)
+ 324 mm (12.75 in) diameter	– Single pipe rack – Dust collector side only – Single pass only
+ 340 mm (13.375 in) diameter	– Single pipe rack – Dust collector side only – Single pass only

BREAK OUT WRENCH	
Variable Grip	
+ 219, 235, 273 mm (8.625, 9.25, 10.75 in)	
+ 324, 340 mm (12.75, 13.375 in)	

DRILL TOOL PACKAGE	
One piece roller deck bushing, pipe positioner, deck wrench, bit sub, pipe wiper seal	
+ 219 mm (8.625 in)	
+ 235 mm (9.25 in)	
+ 273 mm (10.75 in)	
+ 324 mm (12.75 in)	
+ 340 mm (13.375 in)	

SUBS

Shock absorber with top sub adapter – available in Standard or Premium

- + 219 mm (8.625 in)
- + 235 mm (9.25 in)
- + 273 mm (10.75 in)
- + 324 mm (12.75 in)
- + 340 mm (13.375 in)

OPERATOR ENVIRONMENT

Cab, Standard

- + Includes a fabric seat, single pane window glass, shades, and a windshield wiper for driller window, removable driller window guard and a trainer seat

Cab, Premium

- + Includes a leather seat with heat and ventilation, heavy duty suspension, dual pane window glass
- + Additional storage plus windshield wipers on front and rear windows
- + Removable driller window guard plus front window guard and trainer seat

FLUIDS

Service Packages

- + Standard
 - Fast fill fuel and water only
 - Automated lubricant system
- + Premium
 - Service center for lubricant drain and fill
 - Fast fill fuel and water
 - Automated lubricant system

DUST SUPPRESSION

Water Injection System	2271 L	600 gal
+ Tank below deck		
+ Fast fill		
Water Injection/Dry Dust Collection	2271 L	600 gal
+ Tank below deck		
+ Fast fill		
+ 204 m ³ /min (7,200 ft ³ /min) dry dust collection		
Water Injection System, High Volume	5299 L	1,400 gal
+ Total Tank Capacity		
+ 2271 L (600 gal) below deck mounted tank		
+ 3028 L (800 gal) above deck mounted tank		
+ Fast fill		

BATTERIES

- + Four (4) each batteries, sealed
- + Six (6) each batteries, sealed
 - Required for semi/full autonomy packages

CLIMATE

- Level 1, Standard fluids and lubricants
 - + Temperature range of –1° C (30° F) to 52° C (125° F)
- Level 2, Arctic fluids and lubricants
 - + Temperatures down to –18° C (–0.4° F)

AUTOMATION AND TECHNOLOGY

- + Single pass auto drill/drill assist
- + Multi pass auto drill/drill assist
- + Drill depth meter
- + Auto level, auto retract jacks, auto raise and lower mast
- + Electric controls for drilling, tramming, leveling plus auxiliary functions
- + Radio-ready for communication and entertainment radio
- + Product Link™
- + Integrated Terrain for Drilling complete with wiring and harnesses



MID6380 ROTARY DRILL

For more complete information on Cat products, dealer services and industry solutions, visit us at www.cat.com

PEDJ0781

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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