

Cat[®] MD6290

Hole Diameter 152-241 mm (6-9.5 in)

Drillers Choice

Low-cost of Ownership



Favored by contractors, the MD6290 drills hole diameters ranging from 152-241 mm (6-9.5 in) with bit load force of up to 23 373 kg (52,321 lb). MD6290 has capability to drill depths up to 52.7 m (173 ft). The Cat[®] MD6290 is a diesel driven drill with top rotary head drive for both rotary and high pressure DTH drilling applications.

Reliable with Sturdy Structures

The mast, integral A-frame, and mainframe and undercarriage are durable providing a strong platform needed for drilling in harsh conditions.

Mast

- Heavy-duty ASTM A500 Grade B steel tubing on all four chords and cross members, which creates a torsionally strong mast structure and reduces the material fatigue
- Designed with double-cut lacing in high stress areas to prevent cracking and assure long life
- Raise or lower full pipe rack and full drill string on the rotary head, in less than 40 seconds

Frame

- Integral extension of the mainframe, providing a strong, low maintenance design
- Design assures structural integrity. The main rails, made of ASTM A500, Grade B, rectangular steel tubing, are heavily cross-braced and reinforced in high stress areas.
- Jack casings, rear drill deck, front-cooler deck and walkways are all integrally mounted to main frame to provide additional torsional strength

Cat Undercarriage

- Heavy-duty undercarriage designed for up to 741 842 kg (165,000 lb) GVW
- Trimming speed is up to 3.14 km/h (1.95 mph)
- Gradeability is 53% with the mast down
- Ground clearance: 635 mm (25 in)

Productive Power Group and Dust Collection

To achieve low cost, high efficiency drilling, your power group configuration is selected to match the needs of your specific geology and site conditions. Numerous configurations are available for

- Low pressure rotary drilling
- DTH hammer drilling

Power Groups

Arranged in-line for easy access, from both sides. To match your application demands, MD6290 has three (3) choices for engine sizes.

- C15 ATAAC (Tier 3) 403 kW (540 hp) @ 2,100 rpm
- C27 (Tier 2) 597 kW (800 hp) @ 2,100 rpm
- C27 (Tier 2) 652 kW (875 hp) @ 2,100 rpm

Compressor

High pressure (dual stage) compressors, and air system on the drill, allow high pressure DTH drilling at 24.1 bar (350 psi) or rotary drilling at 8.6 bar (125 psi). The air-on-demand control system, with inlet valve and pressure regulator, regulates air intake to match the amount of compressed air being used which saves fuel.

Six (6) compressor choices are:

- 29.7 m³/min @ 8.6 bar (1,050 ft³/min @ 125 psi)
- 35.4 m³/min @ 8.6 bar (1,250 ft³/min @ 125 psi)
- 48.1 m³/min @ 6.9 bar (1,700 ft³/min @ 100 psi)
- 32.6 m³/min @ 10.3/24.1 bar (1,150 ft³/min @ 150/350 psi)
- 38.3 m³/min @ 10.3/24.1 bar (1,350 ft³/min @ 150/350 psi)
- 42.5 m³/min @ 10.3/24.1 bar (1,500 ft³/min @ 150/350 psi)

Dust Collection

The under-the-deck-dust chamber with enclosed area of 4.2 m² (45.12 ft²) is larger than dust chambers on any comparable drills in the industry. This provides ample room for cuttings flushed from the hole to deflect and pile without risk of fallback into the hole. Both dry and water injection systems can be mounted on the same drill.

BUILT FOR IT.[™]



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Technology

Terrain for Drills

- Manage drilling with GPS technology
- Increase productivity and overall efficiency through the entire mining cycle
- Improves efficiency through real-time feedback of machine performance

Cab

The standard cab is a spacious 3 m² (32 ft²) with 10 tinted safety glass windows and cameras around the drill.

- Swiveling operator's seat
- Full view of work deck
- 80 dB(A) or below
- Heated and air conditioned

Serviceable and Safety

- Wide walkways assure a safe operating area
- Quick access to all major components for daily pre-start checks, preventive maintenance and adjustments
- Large, stationary drill table/rear deck (mast/cab area) provides access to the mast area and to the main deck during all drilling modes, including angle drilling
- Dual mast locks that are located above the deck for high visibility

Life Cycle/Rebuildable

- Designed for multiple lives
- Mast, mainframe tubular structures
- Jack casings, A-frame

Basic Specs

Hole Diameter	152-241 mm	6-9.5 in
Bit Load	Up to 23 733 kg	Up to 52,321 lb
Feed and Hoist Speed	0-42.9 m/min	0-141 ft/min
Single-Pass Hole Depth	8.6 m-11 m	28.2 ft-36.1 ft
Multi-Pass Hole Depth	Up to 52.7 m	Up to 173 ft
Engine		
Cat C15 Tier 3	402 kW	540 hp
Compressor Air Flow	30 m ³ /min	1,050 ft ³ /min
Compressor Pressure	8.6 bar	125 psi

Cat MD6290 Unique Advantages

- Larger standard engine than some competitive base models
- Capable of multipass hole drilling
- Optional dual purpose carousel with DTH/Tricone bit rack
- Angle drilling comes standard
- Three mast heights 8/10/11 m (26.2/32.8/36.1 ft) choices
- Seven (7) compressor choices
- Three (3) engine choices
- Lifting cylinders can raise fully loaded pipe rack – 40 seconds
- Cables for hoist function so wear is visible vs. a surprise
- Four jack leveling system vs. three on competitive models
- Both dry and wet dust collection can be on our drill
- Largest dust chamber in the industry