

MD6380
Rotary Blasthole Drill

# **Technical Specifications**

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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## **MD6380 Rotary Blasthole Drill 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 m³/min (3,600 ft³/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 750 mm 29.5 in Applications Double Grousers for Soft Rock 900 mm 35.4 in Applications

#### **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<sup>SM</sup>) 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)

## **MD6380 Rotary Blasthole Drill Specifications**

#### 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

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|------|-----|----------|
| UUSt | Sun | pression |
|      |     | P        |

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 m³/min (7,200 ft³/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)

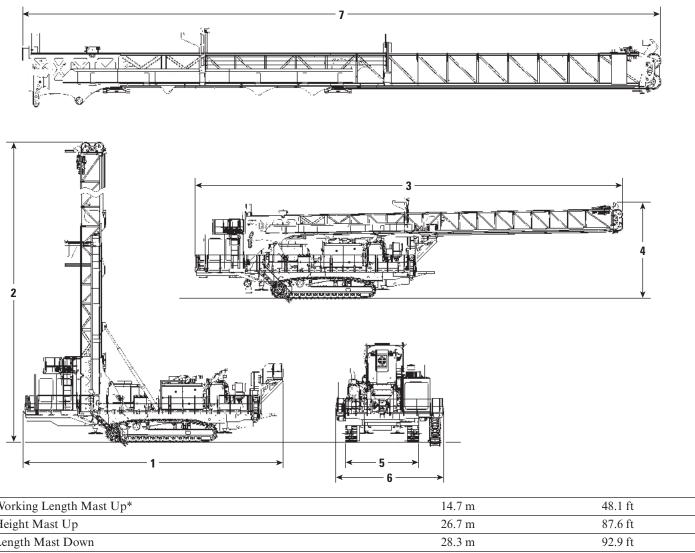
#### **Automation and Technology**

- 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<sup>TM</sup>
- Integrated Terrain for Drilling complete with wiring and harnesses

# **MD6380 Rotary Blasthole Drill Specifications**

#### **Dimensions**

All dimensions are approximate.



| 1 Working Length Mast Up*       | 14.7 m  | 48.1 ft |
|---------------------------------|---------|---------|
| 2 Height Mast Up                | 26.7 m  | 87.6 ft |
| 3 Length Mast Down              | 28.3 m  | 92.9 ft |
| 4 Height Mast Down              | 6.6 m   | 21.7 ft |
| 5 Working Width (non-drill end) | 6.06 m  | 19.9 ft |
| 6 Working Width (drill end)     | 6.89 m  | 22.6 ft |
| 7 Mast Only Shipping Length     | 25.24 m | 82.8 ft |

<sup>\*</sup>Working Length Mast Up with bolt-on platform adds 1.2 m (4 ft) for total of 15.9 m (52.1 ft)

| Weights              |            |            |
|----------------------|------------|------------|
| Working Weight Range | 142 300 kg | 313,717 lb |
| Without Mast         | 102 300 kg | 225,533 lb |
| Mast Only            | 40 000 kg  | 88.1841b   |

# **MD6380 Standard and Optional Equipment**

#### **Standard and Optional Equipment**

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

|   | Standard | Optional |
|---|----------|----------|
| POWER TRAIN   |          |          |
| Receiver tank for ASME/CRN/AU or CE receiver tank   | ✓        |          |
| CAB   |          |          |
| Standard cab  - Includes a fabric seat, single pane window glass, shades, and a windshield wiper for driller window, removable driller window guard and a trainer seat  | ✓        |          |
| Premium cab  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, a removable driller window guard plus front window guard and a trainer seat |          | <b>√</b> |
| Viewing hatch to spot over the hole   | ✓        |          |
| Cab roof access system (includes ladders, cage and rails)   |          | ✓        |
| Lights for tram (front and cab)   |          | ✓        |
| LED lighting  | ✓        |          |
| CONTROLS  |          |          |
| Basic drill depth indicator and interlocks  | ✓        |          |
| Auto Drill Assist  - Single pass auto drill   |          | ✓        |
| Auto Drill Assist  – Multi pass auto drill  |          | ✓        |
| Manometer/pressure gauge  |          | ✓        |
| Remote tram   |          | ✓        |
| PRODUCT LINK/TERRAIN  |          |          |
| Product Link (Satellite)  |          | ✓        |
| Product Link (Cellular)   | ✓        |          |
| Product Link (Dual)   |          | ✓        |
| Terrain (Guidance)  |          | <b>√</b> |

|  | Standard | Optional |
|--|----------|----------|
| MAST   |          |          |
| No mast access/handrail only   | ✓        |          |
| Mast Access Arrangement  |          | ✓        |
| <ul> <li>Includes steps, guardrails, landing platforms, and walkway</li> </ul> |          |          |
| Drill pipe thread greaser  |          | ✓        |
| Tool Lubrication System - Rotary tricone, 113.5 L (30 gal)                     |          | ✓        |
| Flashing beacon for mast clearance   |          | ✓        |
| Overhead winch assembly  - Includes cable and hook plus remote                 |          | ✓        |
| PIPE LOADER (SELECT ONE)   |          |          |
| 219 mm (8.625 in) diameter  – Two pipe rack                                    | ✓        |          |
| - Capable of single and multi-pass   |          |          |
| 235 mm (9.25 in) diameter  | ✓        |          |
| -Two pipe rack   |          |          |
| - Capable of single and multi-pass 273 mm (10.75 in) diameter                  |          |          |
| - Two pipe rack  | •        |          |
| -Capable of single and multi-pass  |          |          |
| 324 mm (12.75 in) diameter   | ✓        |          |
| - Single pipe rack   |          |          |
| <ul><li>Dust collector side only</li><li>Single pass only</li></ul>            |          |          |
| 340 mm (13.375 in) diameter  | <b>√</b> |          |
| -Single pipe rack  |          |          |
| - Dust collector side only   |          |          |
| - Single pass only   |          |          |
| TOP SUB/SHOCK SUB (SELECT ONE)   | <b>√</b> |          |
| 219 mm (8.625 in) standard   | <u> </u> |          |
| 235 mm (9.25 in) standard  | · ·      |          |
| 273 mm (10.75 in) standard   |          |          |
| 324 mm (12.75 in) standard   |          |          |
| 340 mm (13.375 in) standard  | <b>v</b> |          |
| 219 mm (8.625 in) premium  |          | <b>✓</b> |
| 235 mm (9.25 in) premium   |          | · ·      |
| 273 mm (10.75 in) premium  |          | · ·      |
| 324 mm (12.75 in) premium  |          | · ·      |
| 340 mm (13.375 in) premium   |          | ✓        |

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# **MD6380 Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

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

|               | ✓                  |
|---------------|--------------------|
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|               |                    |
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# **MD6380 Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

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

|   | Standard | Optional |
|---|----------|----------|
| CLIMATE/REGIONAL CONSIDERATIONS   |          |          |
| Air receiver tank low pressure (ASME/CRN/AU) or   | ✓        |          |
| Air receiver tank low pressure (CE)   | ✓        |          |
| Four (4) batteries  | ✓        |          |
| Six (6) batteries (required for autonomy packages)  |          | ✓        |
| Climate Level 1  - Standard fluids and lubricants  - With a temperature range of  -1° C (30° F) to 52° C (125° F) | ✓        |          |
| Climate Level 2  - Arctic fluids and lubricants  - Temperatures down to  -18° C (-0.4° F)                         |          | <b>√</b> |
| Certifications CE   | ✓        |          |
| FRAME/DECK  |          |          |
| No tool storage box (cover only)  | ✓        |          |
| Tool storage box  |          | ✓        |
| No jib crane (cover only)   | ✓        |          |
| Jib crane pedestal only   |          | ✓        |
| Blowdown lines and nozzle (with quick connect cooler end and drill deck)  |          | ✓        |

|  | Standard | Optional |
|--|----------|----------|
| DUST SUPPRESSION   |          |          |
| Water injection only (no dust collector) – 2271 L (600 gal) tank below deck  | ✓        |          |
| Water injection and dust collector - 2271 L (600 gal) tank below deck - 204 m³/min (7,200 ft³/min) dry dust collection                       |          | ✓        |
| High capacity water injection - 5299 L (1,400 gal) • 2271 L (600 gal) below-deck mounted tank and a 3028 L (800 gal) above deck mounted tank |          | <b>√</b> |
| Dust curtain hydraulic lifters  - Front and rear dust curtains (recommended with dust collector)   |          | ✓        |
| Tram-off Spray System  |          | ✓        |
| UNDERCARRIAGE (SELECT ONE)   |          |          |
| 750 mm (29.5 in) double grousers for hard rock applications or   | ✓        |          |
| 900 mm (35.4 in) double grousers for soft rock applications  | ✓        |          |

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