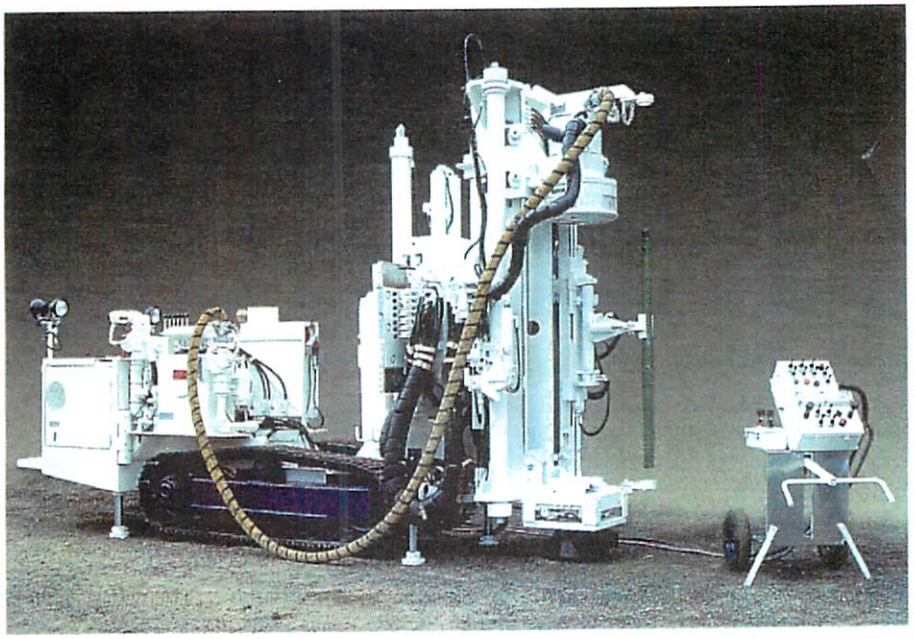
In-the-Hole Production Drills



CD 360M

- ITH production drilling from 3.5 in. (89 mm) to 8.5 in. (216 mm)
- Hole depths to 750 ft. (229 m) x 8in. (203 mm) hole
- 360° tower rotation enables full-circle drilling without repinning
- Hydraulic rod lock, breakout wrench and optional mechanical arm for easy rod changing
- Towers for rod lengths from 4 ft. (1.22 m) to 6 ft. (1.82 m)
- Dual tower stabilizing jacks and hydraulic tower extension
- Hydraulic remote control for all drilling functions
- Electric drill light packages
- High pressure water injection

MINING TECHNOLOGIES INTERNATIONAL INC.

Innovative technologies. Unparalleled support

General Specifications

Drilling

Hole diameter 3.5 in. (89 mm) to 8.5 in. (216 mm) (ask about larger hole and cluster drill capabilities)
Rod diameter 2.88 in. (73 mm) to 6.5 in. (165 mm)
Rod length 6 ft. (1.83 m) standard, 5 ft. (1.52 m) and 4 ft. (1.22 m) optional
Hole length 750 ft. (229 m) (ask about longer hole capabilities)

Feed

Gimbal mounted compound feed cylinder
Feed force 18,000 lb. (8,181 kg), optional 30,000 lb. (13,636 kg)

Drive Head

Direct drive hydraulic motor
Speed 0-39 rpm
Torque 5400 ft.-lb. (7,321 Nm), optional 10,000 ft.-lb. (13,557 Nm) hi-torque head

Mast Position

Horizontal tram
Tilt 15° forward (45° optional)
Rotation 360°
Side Shift 26 in. (660 mm) total, 13 in. (330 mm) offset from centre

Carrier

Crawler
Drive hydraulic motor c/w motion control valves
Brakes spring applied/hydraulic released on each track
Towing brake disengage on torque hubs

Hydraulics

Reservoir 21 US gal. (80 L)
Pump variable displacement piston pump c/w load sense and horsepower control
Filters suction strainer, 10 micron pressure filter, 10 micron return filter

Dimensions

Tramming length 12 ft. (3.66 m), width 56 in. (142.2 cm) or optional 48 in. (121.9 cm)
Dry weight standard 20,500 lb. (9320 kg)
with mechanical rod handling 24,000 lb. (10,910 kg)
with diesel motor 20,500 lb. (9320 kg)

Air/Water System

Lube Oil hydraulic driven rock drill oil injection pump c/w sight gauge and volume adjustment
Water air driven water pump, 4 US gpm (15 L/min.) maximum volume adjustable. Optional electric driven piston pump: 4 US gpm (15 L/min.), 8 US gpm (30 L/min.), or 12 US gpm (45 L/min.)

Electrical

Power 30 hp (23 kw)/3 phase/575V/60Hz standard (ask about larger power options)
Controls all electrical panels NEMA 4 rated (stainless steel optional), ground fault duplex receptacle

Controls

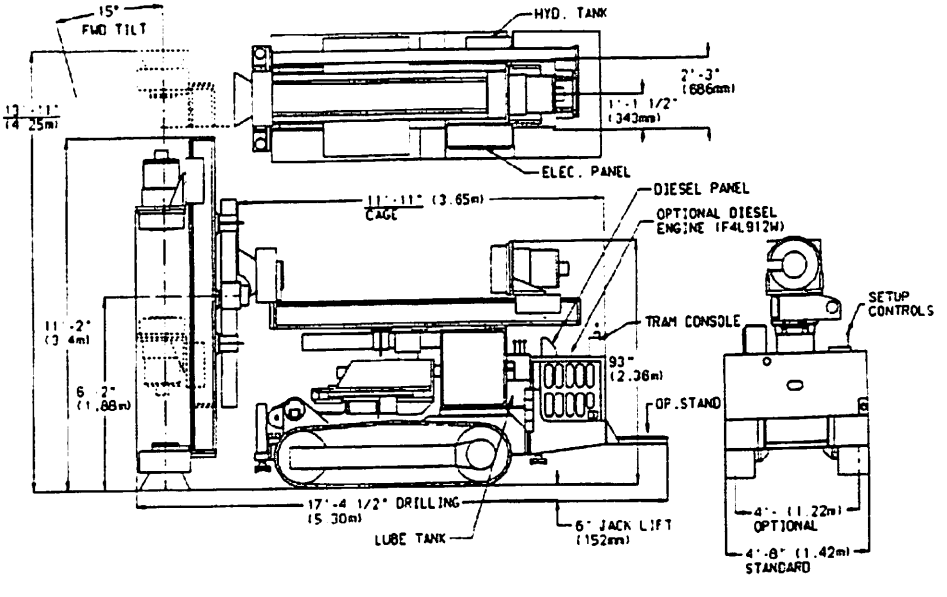
Hydraulic pilot drill and wrenching
Electric pilot set-up
Hydraulic gauges for feed, rotation, air and pilot pressure
Separate tram console
Optional electric pilot controls
Remote control
Electric umbilical
Radio remote

Options

10 in.² feed cylinder
High-torque head
Diesel power pack
Narrower unit, 4 ft. (1.2 m) wide (electric and diesel)
Single rod mechanical handler
20 rod handler for 3.5 in. (89 mm) to 4 in. (102 mm) rods
14 rod handler for 5.25 in. (133 mm) rods
On board screw air pressure booster to 350 psi (24 bar)

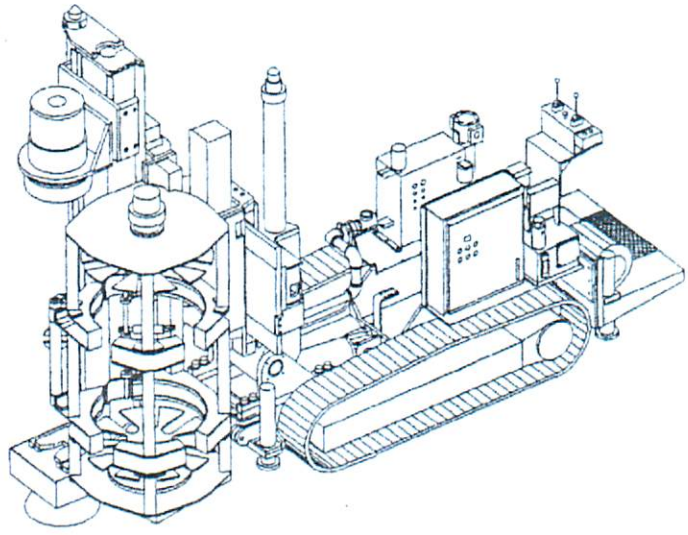
Contact an MTI representative or call our head office to discuss your specific requirements.

All specifications, while accurate at time of publication, are subject to change without notice. Some features shown in photos and illustrations may be optional.



Leading the way in blasthole drilling technology.

The basic CD 360M evolved with cooperation from some of Canada's leading mining operations. This sturdy, stable ITH drill is capable of withstanding the harsh demands of high productivity underground drilling. The modular design permits field upgrades of most options to meet any changing production needs or to exploit opportunities for increased productivity.



Features and Benefits

- Transportable in a 12 ft. by 5 ft. (3.66 m by 1.42 m) cage with 20,000 lb. (9,070 kg) capacity
- Diesel power for tramming and drilling
- Mechanical rod lock and breakout wrench
- Side shift 26 in. (66 cm)
- Four hydraulic levelling jacks
- Carrier and mast stingers
- Positive feed stability with patented gimble cylinder mounting and cam roller slide system
- Load sensing hydraulic system
- Electric hydraulic control capability
- On-board screw booster compressor
- High torque head
- Level to level mobility without ramp access
- Tramming and operating capabilities independent of electricity source
- Operator safety and convenience
- More accurate and effective collaring and hole layout
- Improved set-up accuracy and hole accuracy
- Increased drilling stability and hole accuracy
- Smoother drilling extends component life and improves hole accuracy
- Optimum power distribution and remote drilling
- Automation capability
- Self-contained
- Larger, longer hole capability