

DM30 II SP Blasthole Drills



Single-pass rotary and down-the-hole (DTH) drilling



+ For details on how the DM30 II SP can enhance your profitability, contact your Epiroc representative or visit epiroc.com.



High quality at an excellent value sets the DM30 II SP apart from other drills in its class. A small footprint makes it easy to maneuver on tight benches and simple to transport over the road between pits.

Speed. Efficiency. Reliability.

The new DM30 II SP is pure gold.

Built for the job

The DM30 II SP is a crawler-mounted, hydraulic topheaddrive rig that's suitable for a variety of single-pass rotary and DTH drilling applications. It can achieve a clean hole depth of 36 ft (11 m) in single-pass applications.

Powerful performance

Designed to handle 4 to 6-1/4 in drill pipe, the DM30 II SP has a pulldown of up to 30,000 lbf (133.4 kN) and delivers a hole diameter of 5 to 7-7/8 in (140-200 mm).

Options to fit your application

Choose a low- or high-pressure compressor to create the right configuration for your drilling operation. You can also add on-board technology capabilities with the optional Rig Control System Lite (RCS Lite) for added safety and productivity.

Designed for maximum productivity and value





The DM30 II SP features an insulated, pressurized cab with tinted glass, a 6-way adjustable swivel seat and excellent visibility. All operational functions are controlled from the driller's console, and the ergonomic layout allows operators to instantly switch from drilling to tramming for increased productivity. In addition, the electric-over-hydraulic controls are common across the DM series, making operation easy for drillers with DM series experience. Plus, with a rating of 80 dBA, the noise inside the cab is kept to a minimum for greater operator comfort.

+ Ease of maintenance

The deck layout on the DM series offers easy access to all major service components. Optional fast fill connections, a tower access ladder, and tower fall restraint are available to complete your DM30 II SP.



+ Enhanced safety

The DM30 II SP is equipped with a number of features to help keep operators safe on the job. Features include a FOPS cab, ground-level isolation and an airend safety shutdown system for high-temperature situations. Additional safety features include a back-up alarm, head-up propel interlock, tramming inclinometer, and "jacks up" indicator lights.

Spacious one-piece FOPS (Falling Object Protective Structure)-rated cab is designed for visibility and operator comfort.



Service and support

Epiroc offers several types of service agreements to meet your operational requirements and maximize your productivity:

Variable-price repairs Service when you need it.

Fixed-price repairs Service with controlled costs.

Equipment audit Scheduled equipment quality control.

Preventive maintenance programs Peace of mind so you can focus on your core business. Structural components stand up to the heavy-duty cycles required of a mining drill. Frame and tower weldments are designed to last for the life of the machine. Electronic Air Regulation System (EARS) allows you to easily adjust your compressor to save horsepower and fuel consumption for a lower total cost of ownership.

A 300 gal. (1136 L) fuel tank allows the rig to run for 11 hours before refill.



Main frame is verified by dynamic strain gauging and is designed to last over 45,000 hours.

Flexibility for the future

Add flexibility to your DM Series drill rig with Epiroc's Rig Control System (RCS) Lite. Built on the RCS 5 platform that comes standard on the Pit Viper series, RCS Lite offers a number of safety and interlock features. It also provides a convenient foundation to add more functionality and technology options in the future without a major rebuild of the machine. In addition, RCS Lite allows all Epiroc rotary drills to have the same onboard display and system for consistent operator training and service. It's a modular solution that delivers efficiency now, along with the opportunity to enhance your equipment down the road as your mining requirements grow.



Home screen: all selections are done from the main menu.



Drilling: shows information about pressures and flows for various systems during drilling.



Setup and Propel: shows machine conditions during setup and while propelling.



Performance: shows statistics about the machine and drilling consumables.

Technical specifications

Sub structure

Mainframe 44.35 lb/ft (66 kg/m)

 Weld fabricated I-beam type using wide flange structural steal beam for both rails and crossbeams · Designed by Epiroc, and weld fabricated by certified welders

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Leveling jack		
Туре	Hydraulic cylinder	
Quantity	Three jacks	
Jack pad diameter	18 in (457 mm)	
Position indication	"Jack up" indicator ligh	
Capacities		
Fueltank	300 gal (1136 L)	
Water tank	210 gal (795 L)	
Hydraulic tank	150 gal (568 L)	
Undercarriage and propel system		
Make	Epiroc or Caterpillar 3	
Mounting	Oscillating walking be	
Total length	174 in (4.44 m)	
Ground contact	143.5 in (3.65 m)	
Take-up adjustment	Grease slack adjustme	
Rollers	rs 9 lower/2 upper fo 8 lower/2 upper fo	
Location	Strategically located for	
Roller bearings	Sealed for life	
Track pads	Type: Triple bar grous Width: 19.69 in (500 m Ground pressure: 13 p	
Drive	Hydrostatic closed loc	
Propel motors	Two - Hydraulic, axial	
Propel speed range	0 – 2.0 mph (0 - 3.22	



Drill Plan: shows the interactive drill plan.



User: sets the control system language. Logs in users to the control system and shows user information.



Choose from three packages

RCS Lite | Basic

- RSC 5 touchscreen display and GUI with:
- Real-time depth and pen rate
- feedback with histogram. - Rotation RPM and pressure (torque).
- Pulldown/holdback.
- Air pressure, water tank level.
- On-screen machine inclinometers.
- Autolevel
- Safety features
- Pipe-in-hole interlocks.
- Stability interlock.
- CertIQ capable

RCS Lite | Connected

- CCI module for data storage and transmission to wireless network
- Rig events, drilling quality, drill status, etc. Surface manager
- Remote desktop viewer
- Measure while drilling
- Onboard storage
- Operator ID and management
- Delay code management and reporting
- Consumable tracking

RCS Lite | NAV

- GPS-ready with brackets (Option A) OR high-precision GPS installed (Option B)
- Moving map display software
- Geofence capability



ghts on console or RCS screen

320L

eam: 5° each side, total 10°

nent; hydraulic recoil

Epiroc

CAT

for load distribution relative to the tower position (vertical or horizontal)

ser — for increased grip and reduced ground pressure mm)

psi (89.6 kPa)

pop through planetary speed reducer

piston, fixed displacement rating (each): 147 HP (110 kW)

km/hr)

Technical specifications

Tower, carousel and drill rod handling

Tower				
Tower construction	Fully welded four main member w	ith open front ASTM A500; rectangular steel tubing		
Tower raising		Two hydraulic cylinders; live tower (raise and lower with full carousel and rotary head at top of tower)		
Rod support	Hydraulic cylinder clamping and a	Hydraulic cylinder clamping and actuation to center drill rod		
Rated capacity				
Single pass depth	36 ft (11 m)	36 ft (11 m)		
Maximum hole depth	36 ft (11 m)	36 ft (11 m)		
Carousel (carousel internal to the tower with	key-lock retention) - for servicing steel of	only		
Rod length	30 ft (9.1 m)	30 ft (9.1 m)		
Capacity	• One Piece of 4in to 6-1/4 in			
Actuation	Two hydraulic cylinders	Two hydraulic cylinders		
Safety		 Drill pipe is held securely in carousel by "key lock design" mechanism No bump system to prevent damage if carousel not stowed 		
Drill rods				
Drill pipe diameter x 30 ft (9.1 m)	Thread	Suggested bit diameter		
4-1/2 in (114 mm)	3-1/2 in API	5-1/2 in – 6-3/4 in (140 mm – 171 mm)		
5 in (127 mm)	3-1/2 in API or BECO	6-3/4 in (171 mm)		
5-1/2 in (140 mm)	3-1/2 in BECO	7-7/8 in (200 mm)		
6-1/4 in (159 mm)	4" BECO	7-7/8 in (200 mm)		
Rotary head				
Speed range	Variable 0 – 160 RPM (need to adjust displacement)			
Torque	Variable 0 – 5,400 lbf-ft (0 – 7,321	Variable 0 – 5,400 lbf-ft (0 – 7,321 Nm)		
Number of motors	One	One		
Type of motor	Variable displacement axial piston	Variable displacement axial piston		
Reduction	15:1	15:1		
Horsepower	148 HP (110 kW)	148 HP (110 kW)		
Travel length	43 ft 3 in (13.208)	43 ft 3 in (13.208)		
Feed system				
Pulldown capacity	Up to 30,000 lbf (133.4 kN)	Up to 30,000 lbf (133.4 kN)		
Pullback capacity	0 - 10,000 lbf (0 - 44.5 kN)	0 - 10,000 lbf (0 - 44.5 kN)		
Weight on bit	Variable, 0 – 31,735 lb (0 – 14,395 k	Variable, 0 – 31,735 lb (0 – 14,395 kg)		
Mechanism type	Hydraulic cylinder with sheave blo	Hydraulic cylinder with sheave block and cable		
Number of cables - diameter	Two pulldown, two pullback – 3/4	Two pulldown, two pullback – 3/4 in (19 mm)		
Number of sheaves - outside diameter	Eight – 8.1 in (206 mm)	Eight – 8.1 in (206 mm)		
Feed speed	100 ft/min (30.5 m/min)	100 ft/min (30.5 m/min)		
Retract speed	280 ft/min (85.3 m/min)	280 ft/min (85.3 m/min)		

Technical specifications

Cab and controls

Cab

- Thermally insulated and pressurized
- Adjustable suspension swivel seat with seat belt
- Two hinged and lockable doors
- Quiet (tested at 80 dBA)
- Falling Object Protective Structure (FOPS) certified
- Side-mounted air conditioning (easier to service as no roof access required)
- Ergonomically designed wrap-around console
- Windshield wiper on drilling and rear tramming window

Controls

	All drilling and prope grouped controls
Panels	Drilling function Compressor functio Propel, leveling and Gauges for system p Engine start and gau

Hydraulic system

Hydraulic pumps mounted on a single three-hole gearbox driven off the engine through a drive shaft

• Two variable displacement main pumps for propel, drill feed and rotation functions

One double pump for setup, auxiliary functions and cooling fan

Power package

Airend	
Tier 4 engine only	1,050 cfm @ 110 psi (900 cfm @ 350 psi (1,050 cfm @ 350 psi
Diesel engine (1,800 RPM)	
Diesel engine – non Tier 4	CAT C15 – 475 HP (35- CAT C15 – 540 HP (40 Cummins QSK15 – 47 Cummins QSK15 – 53
Diesel engine – Tier 4	Cummins QSX15 – 55

elling functions are hydraulically powered with ergonomically

on d tower raising function pressure, temperature, etc. auges

i (29.7 m³/min @ 7.6 bar) (25.5 m³/min @ 24 bar) si (29.7 m³/min @ 24 bar)

54 kW) 403 kW) 475 HP (354 kw) 530 HP (395 kw) 50 HP (410 kW)

9

Technical specifications

Dimensions and weight

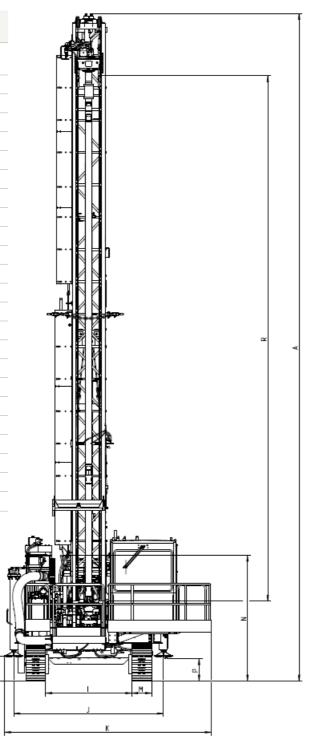
Operating weight

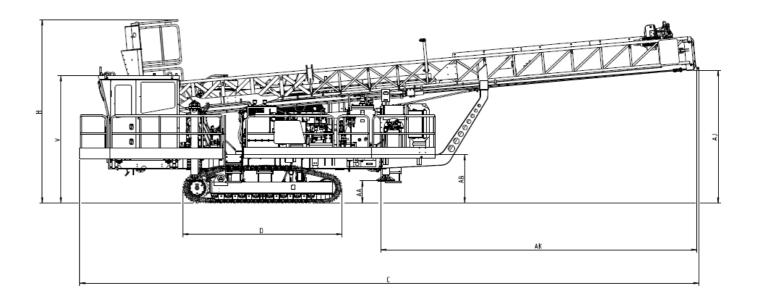
Estimated weight

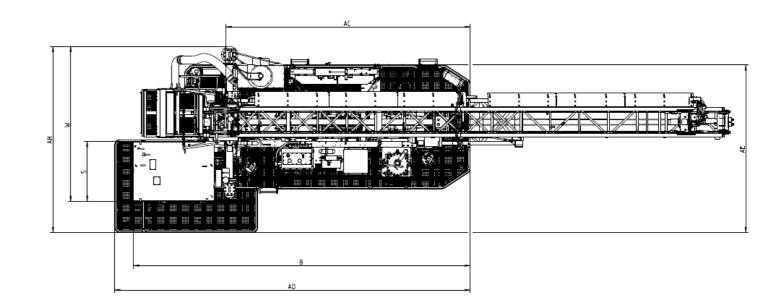
80,000 – 85,000 lb (40 – 42.5 tonnes)

Operating dimensions (Dimensions for DM30 II SP)

	Description	Dimensions in (m)
Α	Height – tower up	661 (16.79)
в	Distance – cab to decking non drill end	370 (9.40)
С	Length – tower down	680 (17.27)
D	Length – undercarriage	175 (4.45)
Е	Length – jack center to jack center	210 (5.34)
F	Height – jack to ground, drill end	25 (0.64)
Н	Height – tower down	201 (5.11)
I	Width – track inside to track inside	86 (2.18)
J	Width – jack center to jack center, drill end	148 (3.76)
к	Width – overall	205 (5.21)
м	Width – track	20 (0.51)
Ν	Height – tower off	125 (3.18)
Р	Height – to lowest point	22 (0.56)
R	Rotary head travel	520 (13.21)
S	Cab width	66 (1.68)
V	Height – top of cab to ground	140 (3.56)
AA	Height – jack to ground, non drill end	25 (0.64)
AB	Height – decking to ground	53 (1.35)
AC	Length – DCS decking	268 (6.80)
AD	Length – CS decking	391 (9.94)
AE	Width – decking	184 (4.67)
AJ	Height – tower bottom to ground	146 (3.71)
AK	Distance – frame non drill end to tower end	347 (8.81)







For a comprehensive list, please contact your local Epiroc Customer Center.

- Angle drill package 0-30 degrees
- Epiroc dust collector
- Water injection
- Wiggins central service
- Hands free auxiliary wrench
- $\boldsymbol{\cdot}$ Cold weather options
- $\boldsymbol{\cdot}$ Cushion spindle sub
- Drill monitoring depth and penetration rate
- Automatic lube system
- $\boldsymbol{\cdot}$ Tow hooks on non-drill end
- Tower access ladder
- Maintenance walkways
- \cdot Rotational tachometer
- \cdot Cab and tower strobe lights

United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow. **epiroc.com**

