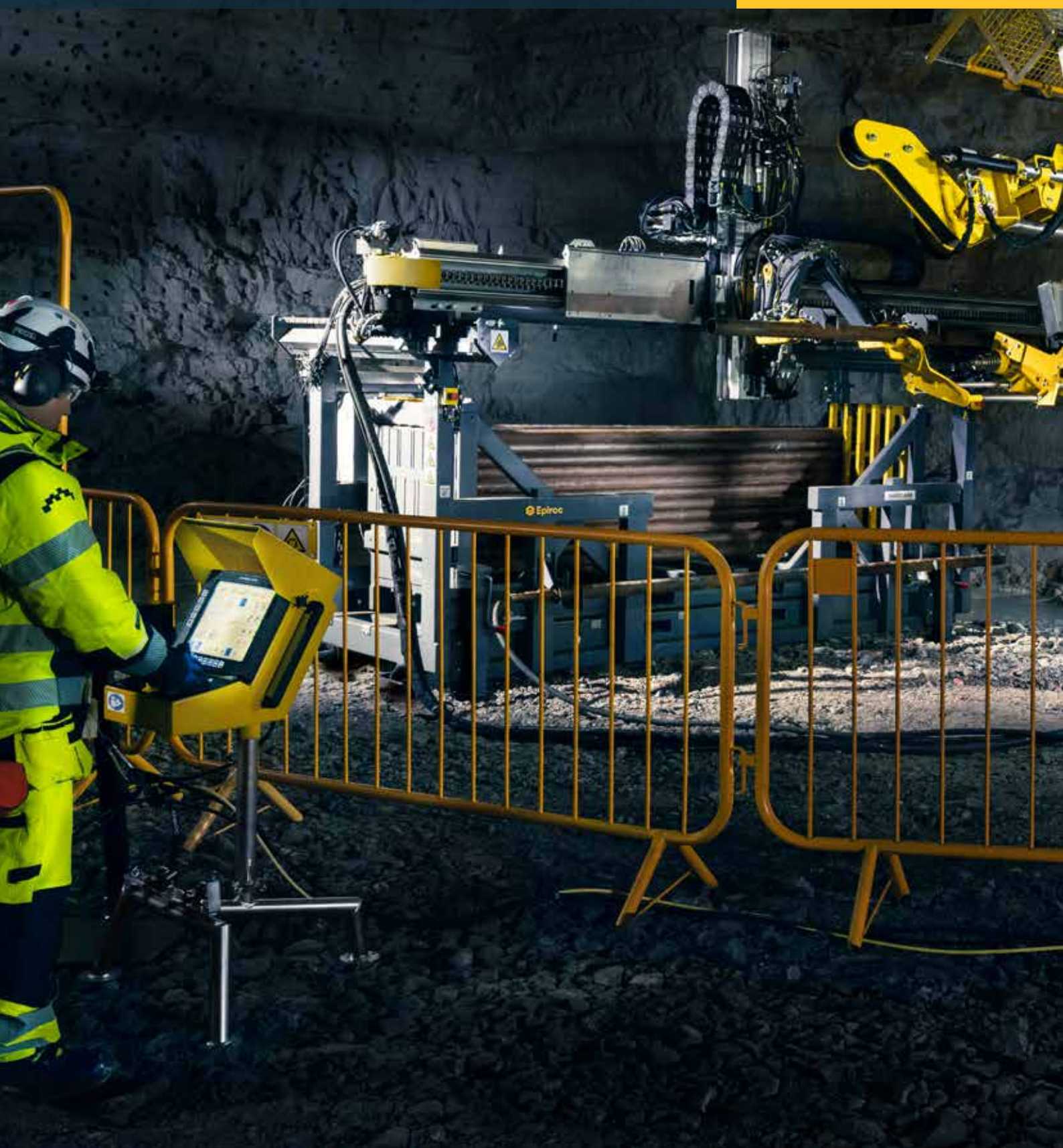


Automated Rod Magazine

An automated rod magazine for use with selected
Diamec Smart core drilling rigs



Increase safety and boost productivity

The Diamec Automated Rod Magazine can be used alongside Diamec Smart 6M or Diamec Smart 6 and Diamec Smart 8 rigs fitted with the rod handler option.

Exploration core drilling is tough. Operators are expected to put core in the box quickly and then pack-up and move on to the next site as rapidly as possible. At Epiroc, driller safety is always our top priority. The Diamec Automated Rod Magazine dramatically reduces operator fatigue and exposure to potentially dangerous tasks. Additionally, the operator's station is positioned well away from the machine which further enhances safety. The magazine is fitted with a grease brush and pump which automatically lubricates the pin threads during tripping so the operator

doesn't have to enter the risk zone. However — increased safety doesn't mean reduced productivity. The Diamec Automated Rod Magazine trips-out rods automatically leaving the operator free to perform other tasks. Tripping-in rods requires minimal input too. The magazine can also handle both the swivel rod and the inner tubes. The Smart Diamec rig is also fitted with a camera which makes it easy for the driller to check that rods are threaded correctly without having to leave the operator station.

⊕ Main benefits

Increase safety and reduce fatigue by reducing operator-exposure to dangerous situations and eliminating heavy, repetitive tasks.

Boost productivity as the operator can perform other tasks during the automatic tripping-out process.

Easy to setup — easy to use. The gripper arm can be rotated so it can be aligned quickly with the rig. Additionally, cassettes with extra rods can be loaded-in when required.



Cassettes with extra rods can be loaded in from two different directions when drilling deeper holes.

The gripper arm can be rotated, which makes the alignment towards the rig flexible.

The magazine can also handle the inner tubes and swivel rod.

NOTE: The images in this publication are for marketing purposes only and do not always include the safety gate and fence. Under operations, the fence and gate should always be used.



The operator station is positioned further away from the risk zone behind the fence, which enhances safety and improves the work environment for personnel. The station provides the operator with an overview of the number of rods remaining in the cassette and at what position they are being picked.



The magazine is fitted with a grease brush and pump which automatically lubricates the pin threads during tripping so the operator doesn't have to enter the risk zone. The magazine trips-out rods automatically and trips-in with minimal input from the operator. The extra automation in your operation also helps eliminate live work (LWE) as personnel can stay safely behind the control panel more of the time. Additionally, to help eliminate further live work, the hydraulic system of both the rig and automated rod magazine are shut down and isolated when the gate is opened. This prevents unintended machine movement.

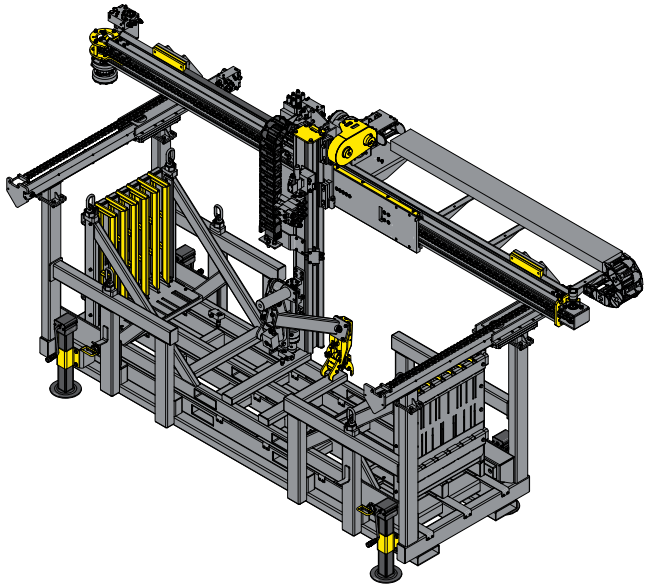


Technical data

Main application area	Core drilling
Rod capability	3-meter rods - B, N, H and P
Rod magazine capacity (interchangeable cassettes)	B = 120 rods, N = 84 rods, H = 54 rods, P = 35 rods
Max hole length	B = 360 m (1 181 ft), N = 252 m (827 ft), H = 162 m (531 ft), P = 105 m (344 ft)
Powered by	Rig auxiliary hydraulic
Weight - Magazine and cassette	Empty magazine = 2 900 kg (6 393 lbs) Max weight: 120 x B rods = 5 100 kg (11 244 lbs)
Cassette	Empty weight = 600 kg (1 323 lbs) 84 x N rods* = 1 966 kg (4 334 lbs) + 600 kg (1 323 lbs) 54 x H rods* = 1 863 kg (4 107 lbs) + 600 kg (1 323 lbs) 35 x P rods* = 1 827 kg (4 028 lbs) + 600 kg (1 323 lbs) 120 x B rods* = 2 160 kg (4 762 lbs) + 600 kg (1 323 lbs) Width = 850 mm (33.5") Height = 1 100 mm (43") Length = 3 300 mm (130") Extra cassettes can be ordered from Epiroc. Cassettes can be fitted with inserts to accept B, N, H and P rods. *Weights are approximate. Value can vary depending on rod manufacturer.
Control panel weight	24 kg (53 lbs)

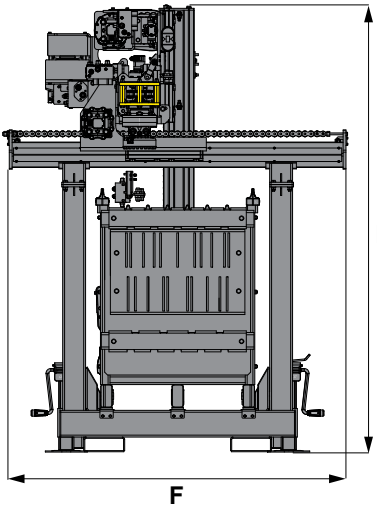
Additional data

International Standards applied	CE /EN16228
Diamec compatible rigs	Smart 6M, Smart 6 and Smart 8 fitted with rod handling system option
Hazard zone protection	Access gate with interlock included as standard. Fence sections should always be used - these are also available from Epiroc

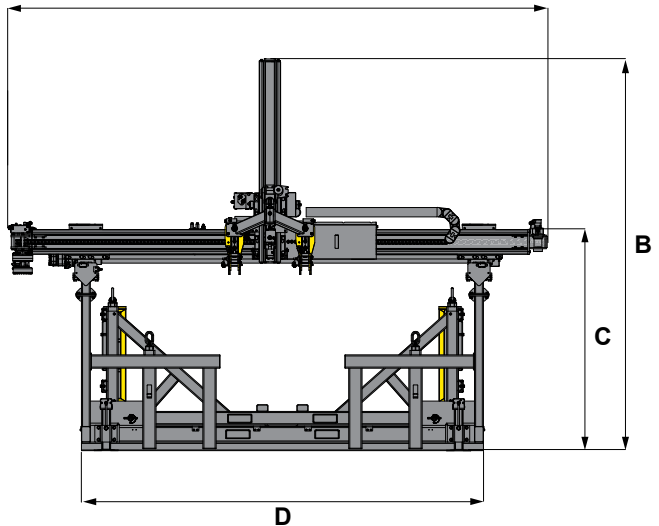


Dimensions

	Metric (mm)	US (inches)
A	4 900	193
B	3 560 (jack legs retracted)	140
C	2 060	81
D	3 710	146
E	2 430 (jack legs retracted)	95.7
F	1 950	76.8



Discover more about the Diamec ARM.





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