

Sandvik Boxhole Borer MD 320 trackless in Action

A small compact TBM for steep inclines



B4-302ENG MD320 track less / Copyright © Sandvik Mining and Construction G.m.b.H., Dec. 2009





Boxhole Borer - ready for action

Sandvik Boxhole Borer MD320 trackless

The Sandvik Boxhole Borer MD 320 trackless is designed like a small TBM for steep inclines. The field of application is for short connection holes between main haulage level and stope.

The holes can be used for ore passes as well as for travel ways or ventilation (or other mine related purposes, where a circular hole with a smooth surface is beneficial). The advantage of this system is the blind boring concept – there is no need for developed space at the end of the hole – which makes the drill operation independent from the stope development.

The machine features a very compact design and arrives in a launching tube (either rail bound or crawler mounted). After alignment, the borer starts collaring and to climb out of the tube. After finishing the hole, the machine walks down the bored hole and arrives in the launching tube which is the transport cradle for repositioning of the equipment. The machine is controlled from a remote operators cabin, located at the power pack which provides safe and convenient working conditions for the operator.

Technical data MD320*

Length boring unit	3400 mm	Nom. Thrust per cutter	190 kN
Boring diameter	1610 mm	Total Thrustforce	1400 kN
Weight (incl. boring unit)	40 to	Total installed power	365 kW
Inclination of drilled hole max.	70 °	Hydraulic powerpack	280 kW
Length of hole: max	100 m	Recovery drive motor	5.5 kW
Boring stroke	500 mm	Auxiliary exits (e.g. add. belt conveyor)	max. 45 kW
cutter head speed	0 - 20 rpm	Weight (incl. boring unit)	40 to
cutter head drive	hydraulic		

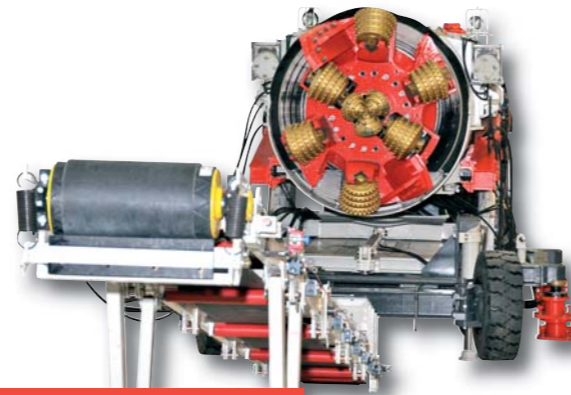
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Full control for the operator

Unique features of the MD320

- Compact design of the unit
- Operators can work outside shaft -> safety first
- Easy relocation on rail cars or trackless
- Dimensions to fit in most of the cages without being disassembled
- Correction of drill direction is possible
- Discharge of the muck into hoppers by means of vacuum system



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