

Extraction Drilling Systems



Bei dem Gerichte
37445 Walkenried
Germany
Tel.: +49 5525 201 - 0
Fax: +49 5525 201 - 48

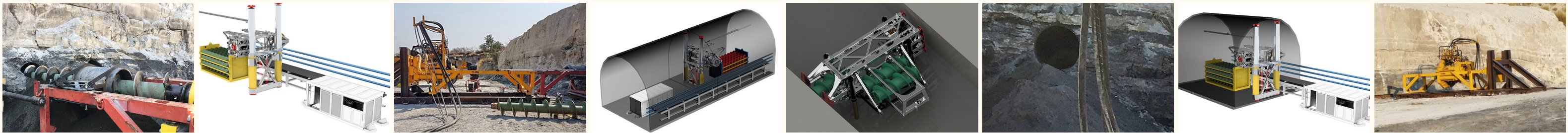


E-Mail: info@mtisperforator.de
www.mtisperforator.de

Am Heisterbusch 18 a
19246 Lüttow-Valluhn
Germany
Tel.: +49 38851 327 - 0
Fax: +49 38851 327 - 10

English





APPLICATIONS

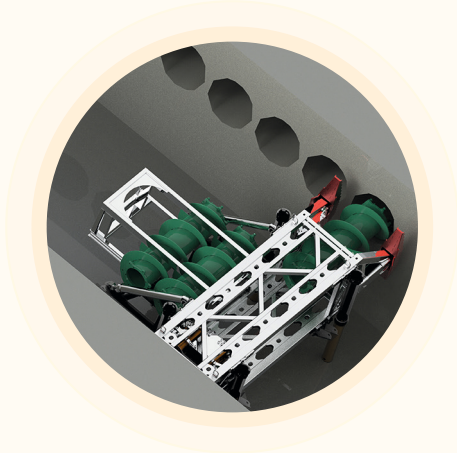
- Reef Mining - Open Pit
- Reef Mining
- Pillar Optimization
- Coal Boring (degasification)

SYSTEM COMPONENTS

- Main frame
 - Pressure bridge
 - Locking bridge
 - Horizontal and vertical support
 - Crawlers for movement
- Auger Transfer System
 - Auger boxes
 - Power Pack
 - Control Panel

Technical Specifications

	MRM 100/48M	MRM 100/70M
Diameter Range	0,6 m - 0,8 m	0,8 m - 1,0 m
Hole Length up to	30 m	30 m
Advance Rate up to	60 m/day	45 m/day
Unit Setup Length	4,5 m	4,5 m

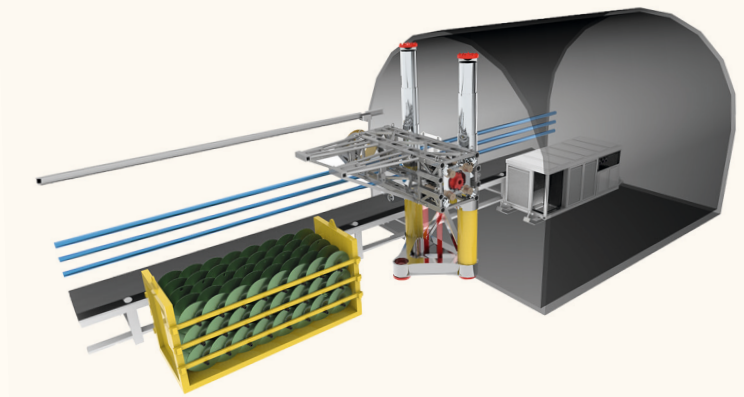


Coal Boring System for Degasification

With the MRM 100/48M, degassing holes of up to 150 m can be drilled. The vertical bracing unit (2.4m-5.5m) allows for the flexible adjustment of the drill axle height (1.2m-2.4m) and the angle to the horizontal axle ($\pm 15^\circ$).

Technical Specifications

	MRM 80/71MX
Diameter Range	0,3 m - 0,5 m
Hole Length	150 m
Advance Rate up to	90 m/day
Unit Setup Length	3,2 m

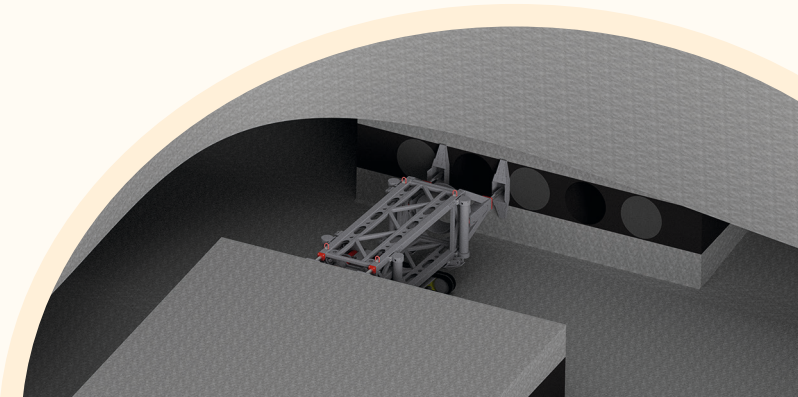


Pillar Optimization System

There are two specific applications of pillar optimization. On the one hand, it allows drilling of a hole through the centre of the pillar without affecting the support function of the pillar, thus facilitating extraction from areas with a very high ore concentration. With the second method, several holes are drilled through the pillar. In a first step, holes 1, 3, 5, etc. are drilled and subsequently backfilled. After hardening, the intermediate holes 2, 4, etc. are drilled and also filled, if required. These methods allow for significantly higher ore yields.

Technical Specifications

	MRM100/48M
Diameter Range	0,6 - 1,1 m
Hole Length	12 m
Advance Rate up to	60 m/day
Unit Setup Length	7,0 m



Reef Mining – Open Pit

By using our reef mining (open pit) system, it is possible to extract ore that cannot be economically mined with conventional methods (removal of top layer). The ore is thereby extracted from the opencast mining level by drilling a row of holes. In this process, the machine is advanced into the orebody, and then moved to the next drilling position to bore another hole. This cycle can be repeated as many times as is necessary. It is ideally performed while opencast mining and backfilling are still in progress, in order to increase the yield.



Technical Specifications

	MRM 160/650P
Diameter Range	0,3 m - 1,1 m
Hole Length	> 30 m
Advance Rate up to	120 m/day

Reef Mining

With our mechanical reef miner (MRM), even extremely thin orebodies, where conventional technologies (drill and blast) would result in excessive waste, can now be commercially exploited. The MRM extracts the ore by drilling with a diameter that matches the deposit, thus reducing waste to a minimum. Overburden is only extracted next to ore during transportation within the deposit. As open pit reef mining, the ore is extracted through a series of holes.

