

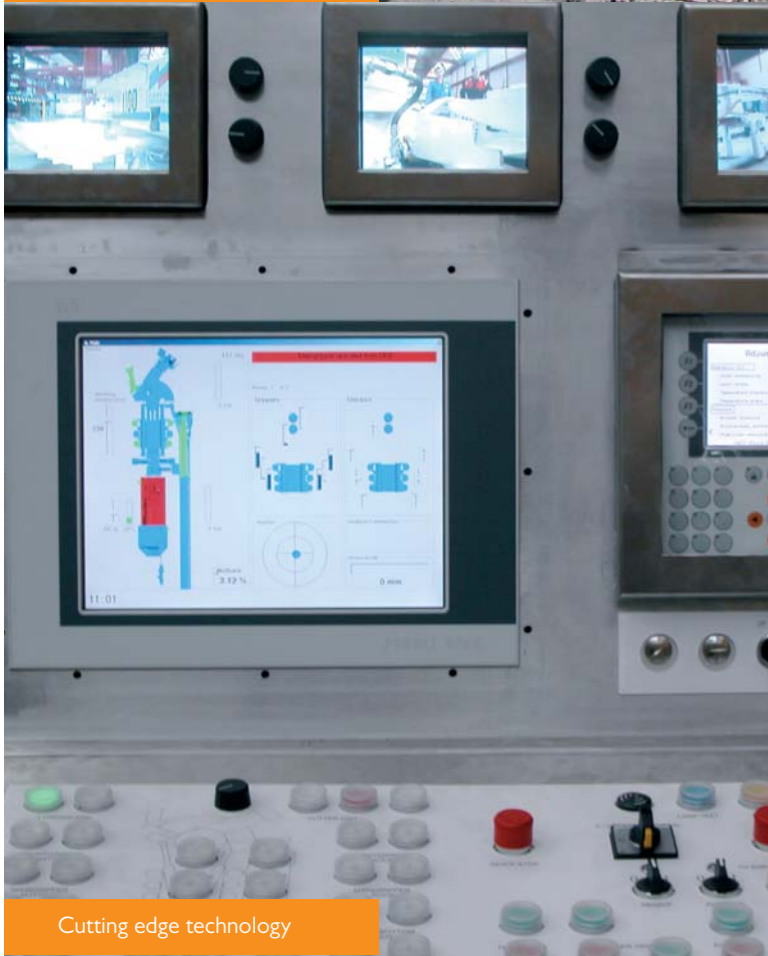
# Reef Miner MN220 in Action

High performance rates in hard and abrasive rock conditions





Experienced operators provide positive results



Cutting edge technology

**Unique features of the ARM 1100**

- Disc cutting using the “undercutting” principle for efficient energy utilisation.
- Gripper system to transfer the high cutting forces while keeping machine weight low.
- Fully remote controlled and automated to a high extent for safe working conditions
- Simultaneous cutting and roof bolting



Reef Miner ARM 1100

## Reef Miner ARM 1100

The REEF MINER ARM1100 is a disc cutting mining machine and designed for mining narrow reefs of hard and abrasive rock. Therefore this machine can exceed limits of the operational range as given for other mining machines, but it is nevertheless also faced with the ultimate limits set by the machine rock interaction under extreme conditions.

The REEF MINER ARM1100 is electrically powered. Optimum comfort and safety for operators are provided due to fully remote control.

The REEF MINER ARM1100 was designed as a combination of the principles of VOEST-ALPINE roadheaders and past experience VOEST-ALPINE tunnel-borers, resulting in a machine with high performance rates in hard and abrasive rock conditions.

### Technical data ARM 1100\*

<b>General</b>		<b>Hydraulic System</b>	
Length (without belt & roof-bolter)	9800 mm	Pressure max.	320 bar
Height in operation	1100 mm	Number of hydraulic pumps	3
Minimum height	1000 mm	<b>Speeds</b>	
Minimum machine width (without belt)	2720 mm	Cutterarm speed	0.7 – 3.5 m/min
Machine width in operation	4300 mm	Cutterhead speed at 50rpm & 1100mm cutter-head	2.9 m/s
Total weight approx.	32 t	Conveyor speed	1.1 m/s
Ground pressure under main gripper		<b>Electrical System</b>	
bottom max.	12 MPa	Electric potential	1000 / 50 V / Hz
top max.	6 MPa	Total incl. aux. exits	350 kW
<b>Cutting profil with 1100mm diameter cutterhead</b>		Hydraulic motor – water-cooled	280 kW
Cutting height	1100 mm	Conveyor motor – air-cooled	7.5 kW
Cutting width	4327 mm	Exit for roof bolter	45 kW
Cross-section	4.6 m <sup>2</sup>	Auxiliary exits (e.g. add. belt conveyor)	2x5.5 kW
<b>Loading System</b>		* All rights for technical modification are reserved	
Loading device at face	1 scraper		
Loading device at belt.	1 loading shovel		
<b>Conveying System</b>			
Conveyor width	400 mm		
Conveyor capacity max.	200 m <sup>3</sup> /h		

