

Alpine Bolter Miner **ABM 14**

The ABM 14 is a rapid roadway development machine designed for coal mining operations with a cutting height of between 67" (75") and 10' (12')

The machines "sumping slide" design, allows cutting and loading to occur simultaneously with the installation of roof bolts.



Technical data ABM 14*

General:

Total weight	62.3 tn
Overall length	37'6"
Total installed power	690 HP at 1000 V, 60 Hz
Machine width for transport	9' 6"
Machine height min. over ATRS and bolters	6'1"

Cutting Profile:

Shape of profile	rectangular
Working height min	67" (75")
Working height max	10' (12')
Working width	15'6" (16')
Means of sump	sump frame
Max.stroke of sumping frame	4'6"
Diameter of cutting drum	40,5"
Minimum width of cutting drum retracted	13'6" (13'11")
Horse power on cutting drum	422 HP

Roof Bolting, Front:

Maximum seam height	10' (12')
Minimum seam height	67" (75')
Minimum distance between roof bolters	8'10"
Minimum distance roof bolter to face	11'
Maximum vertical force of drill mast	3.9 t
Dry drilling equipment	standard
Wet drilling equipment	optional

Hydraulic System:

Horse power of hydraulics	134 HP
Type of hydraulic pumps	piston and gear type
Maximum operating pressure	3600 PSI

Tramming:

Tramming speed max.	55' /min
Tramming speed min.	13' /min
Ground clearance	8"
Ground pressure	25 PSI

Dust Suppression:

Spray bars	optional
Remote Control for Mining Operation	
Transmitter and Receiver	radiotype

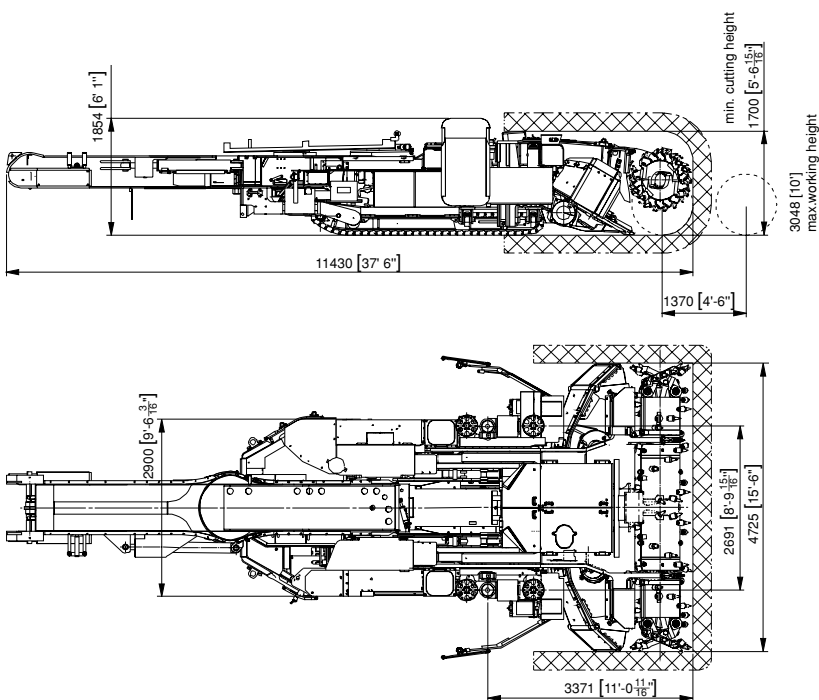
Loading System:

Loading device	2 x conventional spinners
Loading capacity	20–25 tonnes/min
Loading width (retracted – extended)	13'6"–15'6"–16'
Horse power on CLA's	134 HP

Conveyor System:

Conveyor Unit Short Version, Standard:	
Chain width	29"
Chain speed	90" /s
Conveyor overhang maximum	11'
Horse power on chain drive through CLA's	134 HP

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ABM 14 features and advantages not available on other Rapid Development Machines

- Simultaneous cutting/loading and bolting operation in order to achieve maximum advance rates.
- Minimized distance of roof bolting machines to the cutting face.
- Increased roof support during mining due to a stabilizing system for the machine and ATRS (Automatic Temporary Roof Support) for operator safety.
- Integrated radio-remote control system.
- No movements of track chains during sumping into the coal face which results in reduced floor damage.
- Electronic controlled sump movement to optimize the cutting sequence.
- Top and floor level control system for cutting unit.
- Easy manoeuvrability due to short machine body and retraction facility on cutting drum and loading apron.
- Data logging system (option).