

# Alpine Tunnel Miner ATM 105 ICUTROC

The ALPINE MINER ATM 105-IC is an extremely powerful boom-type roadheader of the 100 tons class and has proven its unique transverse cutting technology in hard rock applications worldwide. This machine has an extended field of operation for mechanised tunnelling in hard and abrasive rock formations.



## Technical data ATM 105 ICUTROC\*

### Main dimensions

Total weight	135 t
Total length	18200 mm
Height over canopy	4800 mm
Width over loading table	4560 mm
Width over crawler tracks	3050 mm
Width of crawler tracks	720 mm
Ground pressure	0.23 MPa

### Electrical system

Potential	1000 V / 50 Hz
Total installed electric motor power	555 kW
Cutter motor	300 kW
Hydraulic power pack motor	150 kW
Loader motors	2 x 36 kW
Swivel belt conveyor motors	2 x 11 kW
High pressure water pump	11 kW

### Power demand

via transformer	1200 kVA
via generator set	1500 kVA

### Conveying system

Double chain conveyor motor (hydraulic)	90 kW
Chain speed	max 0.8 m / s
Width of conveyor	840 mm
Capacity of conveyor	max 400 m <sup>3</sup> / h

### Cutting profile

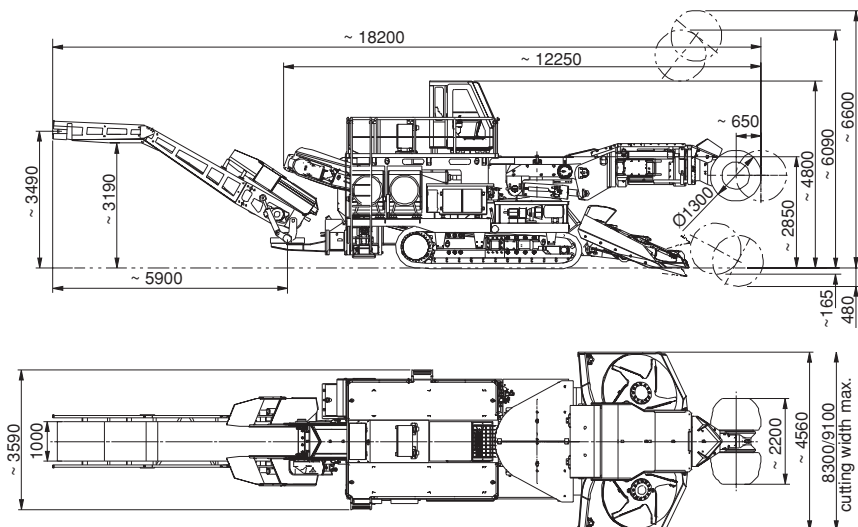
telescope extended	telescope retracted
Area	61 m <sup>2</sup> / 48 m <sup>2</sup>
Height	6.6 m / 6.1 m
Width	9.1 m / 8.4 m
Undercut	0.48 m / 0.17 m

### Negotiable gradients

Without machine support	+/- 20 gon
With machine support	+/- 35 gon

Speed of cutter head	1.4 m / s
Tramming speed	0 – 15 m / min

\* All rights for technical modification are reserved



### Features ALPINE TUNNEL MINER ATM 105 ICUTROC

- Machine design for economical excavation of rock exceeding 120 MPa uniaxial compressive strength due to the optimized robust machine design and 300 kW cutting power for low speed cutting.
- Robust stabilized telescopic cutter boom for optimum cutting power application, sump-in without tramming, straight face, even in high profiles.
- Proportional-load-sensing-hydraulic system for optimum utilisation of energy.
- Efficient dust suppression and cooling of cutting tools by high pressure pick flushing system.
- Modular design facilitates ease of maintenance as well as assembly/disassembly of machine.
- A variety of optional extras make the machine suitable for a wide range of applications.