

Alpine Continuous Miner ACM 10

The ACM 10 is designed for coal production in narrow heading conditions and place change situations.



Technical data ACM 10*

OVERALL PHYSICAL DIMENSIONS

| | |
|---|----------|
| Height of the body | 1290 mm |
| Height up to dedusting unit | 1650 mm |
| Total width for transport | 2700 mm |
| Total length | 9320 mm |
| Total weight (approx) | 39000 kg |
| Total installed power | 284 kW |
| Ground clearance | 250 mm |
| Width required for right angle turn (minimum) | 4200 mm |

CUTTER SYSTEM DIMENSIONS

| | |
|---|----------------------|
| Shape for cutting profile | rectangular |
| Working height | from 1800 to 3600 mm |
| Drum dia. | 950 mm |
| Drum width | 2700 mm |
| Drum speed | 42 rpm |
| Pick spacing | 91 mm |
| Pick size (long shaft dia) | 30 mm |
| Cutting rate in coal (instantaneous up to 40 MPa) | 200 t/hr |
| Cutting speed | 2.1 m/s |

LOADING SYSTEM

| | |
|-------------------------------------|-----------------------|
| Loading device | conventional spinners |
| Loading capacity | 15 t / min |
| Loading width | 2500 mm |
| Installed power (conveyor & loader) | 36 kW |
| Chain speed | 2.2 m/sec |
| Conveyor width | 600 mm |
| Gathering spinner speed | 62 rpm |
| Conveyor overhang | 2650 mm |
| Heavy duty chain pitc | 67 mm |

TRAMMING DEVICE

| | |
|------------------------------|--------------------------|
| Tramming speed | up to 20 m/min |
| Avg. ground contact pressure | 1.2 Kg / cm ² |
| Track pulling force | 2 x 250 kN |
| Width of track chain | 530 mm |
| Working gradient | |
| a) Longitudinal direction | |
| for travelling | +/- 18 ° |
| for working | +/- 10 ° |
| b) Transverse direction | max. 5 ° |
| Electric track drive | 2 x 30 kW |

HYDRAULIC POWER PACK ARRANGEMENT

| | |
|--------------------------|----------------|
| Electric Motor | 36 kW |
| Nominal working pressure | 200 to 250 bar |
| Oil tank capacity | approx 250 l |

DUST SUPPRESSION SYSTEM

| | |
|--|---------------|
| Spray bar behind cutter drum and onto conveyor is provided | |
| System working pressure | approx 30 bar |
| Flow rate | 30 l/min |
| High pressure Booster pump | |
| Provided -pressure | 30 bar |
| Dust scrubber Provided | 20 kW |

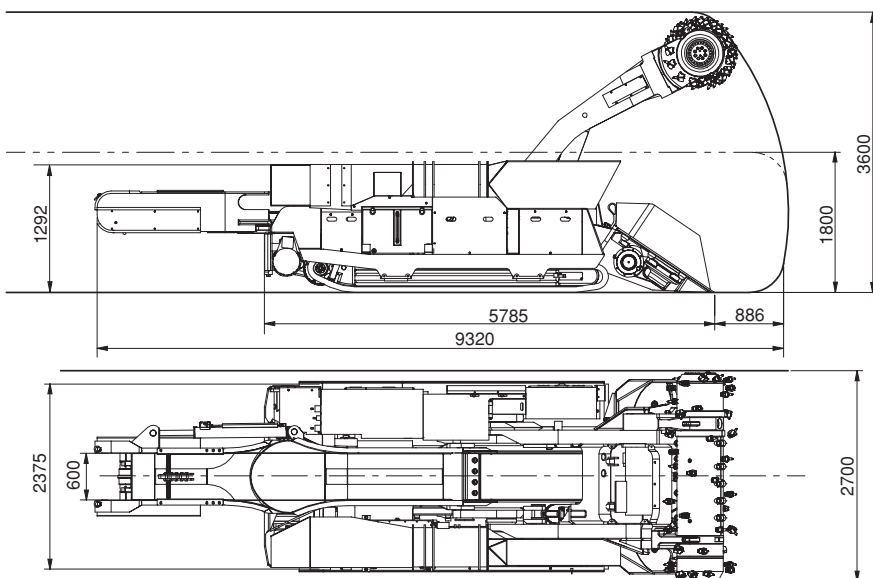
LUBRICATION SYSTEM

Fully automated greasing system is provided

ELECTRICAL SYSTEM

| | |
|--|---------------------|
| Supply voltage | 1100 V at 50 cycles |
| Head Lights | 2 x 24V, 70 W |
| Rear light | 2 x 24V, 20 W |
| Pre -start alarm signal horn for 2-10 seconds (adjustable) before the first motor is started | |

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ACM 10 features and advantages not available on other Production Machines

- High tramping speed of up to 20 m/min
- Optional radio remote control
- Compact design for narrow mining conditions
- Low pick tip speed reduces dust generation
- High pressure water sprays (with optional booster pump)
- Variable speed drive (VSD) for controlled sump in process, interlocked with shear down to avoid cutter motor overload or stall
- Optional on board scrubber
- Load sensing hydraulics
- Water inter lock with cutter motor