



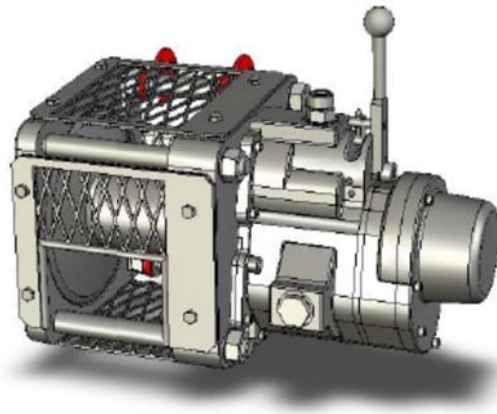
MACKINA - WESTFALIA



# PNEUMATIC WINCH 4HP CNM04

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Product description





## DESCRIPCIÓN GENERAL

The CNM04 pneumatic winch is designed as a machine for lifting and lowering loads in auxiliary assembly work and various operations, typical of mining work or other environments, by means of pulling wire rope wound on a drum.

The whole set is integrated in a monobloc construction on which there are 4 anchorage and suspension hooks. The construction of the motor rotors and gear wheels is made of hardened, tempered and ground steel, while the frame, drum and motor casing are made of high resistance aluminium alloy so that a unit with a good weight/dimensions/performance ratio is obtained. All the rolling parts are supported on bearings.

On the drum carrier module there are protections in the form of a metal grid as a safety against possible accidents caused by trapping or contact with the moving elements. The drum has wide lateral ferrules that provide a good cable capacity.

The drum is driven by a pneumatic motor, fed at 5 bar from an air network with a minimum useful section of 3/4". The motor is of the reversible rotation type by means of a lever and a distributor incorporated in the motor itself. Therefore, all the control of both the direction of rotation and speed is carried out on the lever of this distributor, which is equipped with a spring centering system that constitutes a "dead man's" safety system, given that in order for the winch to operate, it requires active presence of the driver.

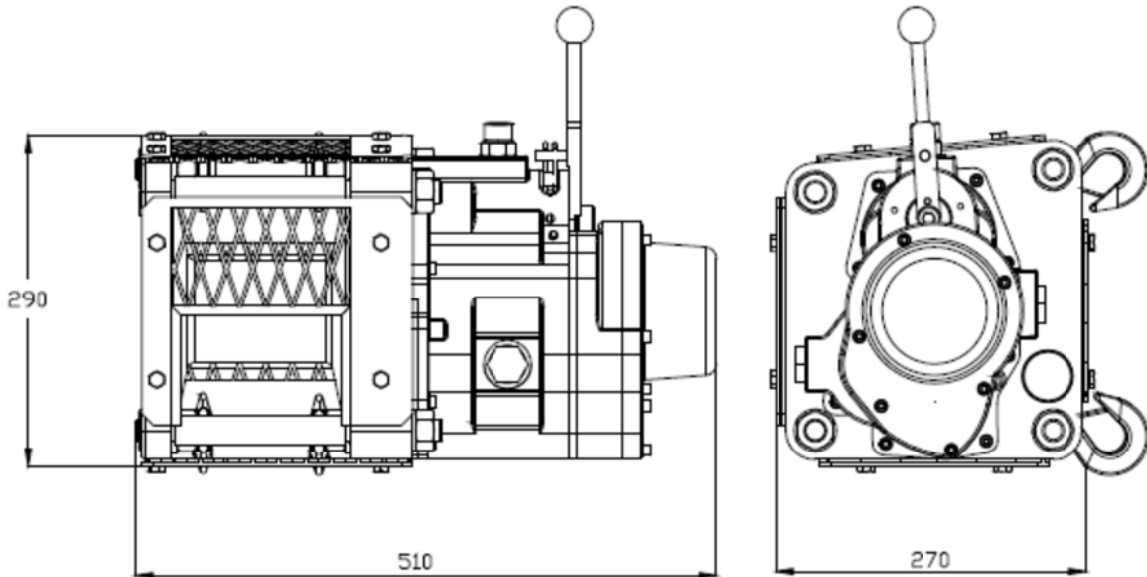
The engine torque is transmitted to the drum shaft by a series of gears that integrate a power train to adapt the engine torque and speed to optimal working values. Both rotors and wheels are housed in a closed and covered casing in order to form a support and grease reservoir, as well as a solid guard against moving elements.

The air motor is a ball bearing supported gear motor in closed construction that provides effective protection against dirt and moisture.

It has an automatic load holding brake. It is designed as a negative-action safety brake so that braking occurs automatically for any suspended load condition, even in the absence of air supply.



**TECHNICAL DATA**  
**Dimensions**



**Características:**

- Air motor with double direction of drive
- Power the engine..... 4 CV
- Utilization pressure ..... 5 bares
- Air Consumption ..... 3 m<sup>3</sup>/min
- Maximum tractive force ..... 750 daN
- Maximum speed ..... 18 m/min
- Sound level..... 75 dB
- Drum capacity:
  - With 6 mm diameter cable (Maximum load 480 Kg)..... 120 mts
  - With 8 mm diameter cable..... 70 mts
  - With 10 mm diameter cable..... 45 mts
- Weight without cable ..... 38 Kg
- Three-position control lever: Forward, Stop and Back with spring return to zero position.
- Built-in automatic brake.

