



MACKINA - WESTFALIA



ELECTRIC WINCH PROCE0912

Product Description





GENERAL DESCRIPTION

Electric winch PROCE0912, is conceived as a machine for lifting / lowering of loads in both horizontal and sloping, galleries through traction of wire rope wound on a drum. It is intended for use in classified areas of level zero, without requirements for protection against potentially explosive atmospheres.

Drum drive is via a Motor-gearbox group, powered by a frequency converter to a three-phase voltage of 380-500 V, so that by the use of a Joy-Stic is possible to obtain a complete regulation of speed and torque in both directions of rotation of the drum.

It is equipped with a protective function against "slack" in such a way that the rotation of the drum in unwinding, demands a certain traction on the cord.

Thus, if the cable tension goes away, automatically stops the drum rotation, avoiding in this way the condition of "slack".

This function is achieved by using a freewheel mechanism incorporated in the Motor-gearbox output shaft.

This mode of operation, as well as constituting an efficient protection against untimely downs of loads that have been left locked in descent, is very useful because it allows the management of the winch by a single operator, who can move away from the command post, stretching of the cable with the security that the drum will stop when he stops pulling the rope.

According to needs of the client and optionally it can be prepared for employment with 12 or 14 mm steel cable

There are two versions: the 74954-9000 considered more Standard equipped with single-phase power brake and the 74954-9000U with three-phase power brake.

The winch is designed to integrate into a single construction unit all drive and control.

Essentially it is configured by a support frame of welded construction, which integrate the following major components:

- Electric motor of 9.2 kw with negative action and automatic opening electromagnetic brake.
- Worm screw type gearbox with index reduction i23, equipped with free-wheel in the output shaft depending on security against "slack".
- Transmission between gearbox and drum, comprising a pair of gear with a relationship between 1 / 1,33 wheels.
- Cable drum, with shaft on supports of bearing that give him a solid anchor frame and perfect alignment between the axes.
- Module output rollers, which constitute an effective driver rectangle for the cable shot, both in the operation of roll, as in the of unwound.
- Folding metal grill, arranged as upper seal, which is a shelter for protection against moving parts.



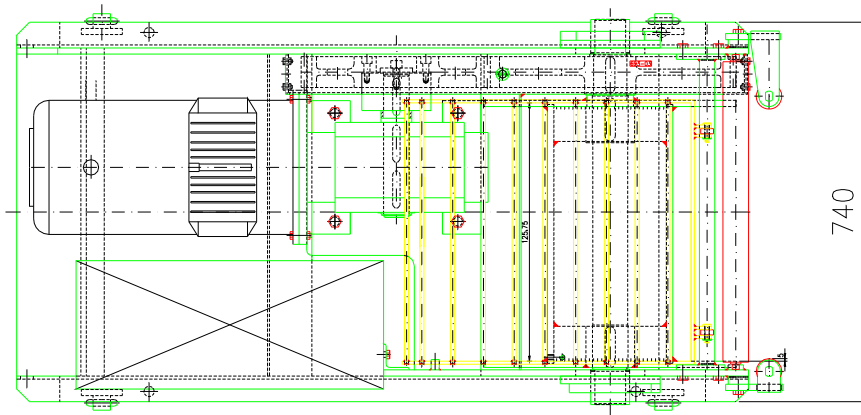
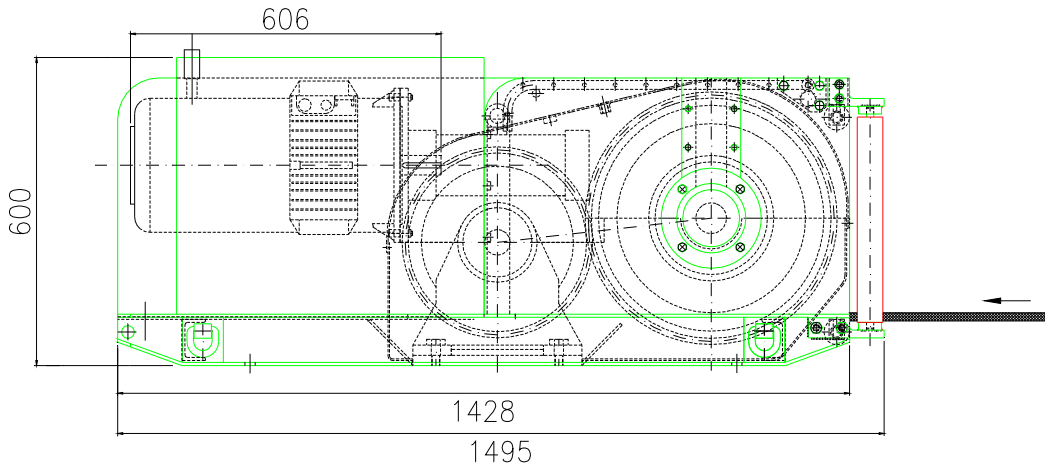
- Transmission gear wheels, is closed by a solid close lid, in addition to an effective guard, forming a casing of fat and provides protection against dirt and moisture.
- Electrical cabinet, equipped with all the elements of control and regulation.

MAIN FEATURES

Power of electric motor:	9,2 Kw.
Nominal torque of the motor:	61 N.m
Nominal torque of the brake:.....	100 N.m
Supply voltage:	380 ó a 525 V.ac
Winding core diameter:	245 mm.
Outside diameter of ferrule:	450 mm
Interior width:	495 mm.
Maximum capacity for cable with 12 mm with 10 layers:	460 mts.
Maximum capacity for cable with 14 mm with 8 layers:	360 mts.
Effort of maximum shot on the 1 st layer:	1850 daN.
Maximum shooting effort in the layer 10 th :	1100 daN:
Capacity of the brake on the 1 st layer winding:	7.000 daN.
Capacity of the brake on the 10 th layer winding:	4.000 daN
Maximum speed on the 1 st layer:	0,65 m/seg.
Maximum speed on the 10 th layer :	1,1 m/seg.



DIMENSIONS AND WEIGHTS



PESO: 640 Kgr.



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