

## **“AFM” MACHINE**

### **AUTOMATIC NYLON COATED METAL WIRE WINDING MACHINE WITH CARDBOARD SLEEVE PACKING UNIT**

- This automatic machine winds nylon coated metal wire into coils using two adjustable pins and inserts it into a cardboard sleeve.
- Production cycle is fully automatic, meaning that all operations are performed by the machine, and no human operation is required.
- The 0.75kW motor with the synchronization loop picks up the wire from the box, preventing the wire being wounded from being damaged by sudden knots or tangles, as well as keeping the winding tension constant.
- The linear winding speed is adjustable and can even exceed 40 m/min.
- In case of tangles or knots on the wire, a control device stops the machine to avoid damage to the product and to the machine.
- In case of anomalies in the thickness of the belt (outside the programmed range), the machine stops, thus preventing these defective bits from being packaged.
- The size of the wound coil depends on the distance between the winding pins, the wire's outer thickness and the number of turns set on the keyboard.
- The machine features a counter showing the total number of packs (coils wound and inserted into a sleeve), and it is possible to set the machine to stop after a given amount (from 1 to 9999) of packs has been made.
- The wire is cut by shears built with high quality materials to guarantee a long product life. The machine can cut iron, brass or other metal wires without any problem, but not stainless steel.
- The packaging is carried out by a clamp that picks up the wound wire coil then inserts it into the cardboard sleeve, previously picked up and opened by a special loader containing over 250 sleeves.
- Once the package is finished, it will be unloaded onto a chute that will take it outside the machine.
- The 7" touch screen and keyboard can be used to enter all the parameters for wrapping and packaging as well as displaying all the



alarms that may occur, making use and maintenance extremely simple.

- A PLC manages movement automation and the signals of the various safety devices to guarantee correct operation.
- The machine winds the wire and inserts it in the cardboard sleeve without the need for staples, adhesive or elastic labels to prevent the product from being damaged in any way.
- The machine is mainly equipped with “OMRON” electronic devices and “SMC” pneumatic equipment.
- Appropriate protections and safety systems make the machine compliant with the CE regulations in force.

## PACKAGING FEATURES

MAXIMUM METAL WIRE SECTION 2mm - MAXIMUM OUTER DIAMETER 5mm



### WOUND WIRE COILS MEASUREMENTS:

MINIMUM LENGTH 200mm - MAXIMUM LENGTH 280mm

### CARDBOARD SLEEVES MEASUREMENTS:

WIDTH 70mm - LENGTH 100mm - DEPTH 35mm

WIDTH 85mm - LENGTH 115mm - DEPTH 40mm

## TECHNICAL SPECIFICATIONS

|                         |                            |
|-------------------------|----------------------------|
| VOLTAGE                 | 3x400V+T 50÷60Hz 4,5kW max |
| COMPRESSED AIR REQUIRED | 7÷10 bar - 200 NL minute   |
| HOURLY YIELD            | 300÷350 pieces/hour        |
| MACHINE MEASUREMENTS:   | 2300 x 1300 x h 2000mm     |
| NET WEIGHT              | 600Kg                      |

*The aforementioned specifications and features may change so always request confirmation that the actual products you acquire have them.*