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Scrap Wire Winder Machine

SCRAP WIRE WINDER MACHINE



KÖSMAK MACHINE HISTORY

Our company has been in the machinery and machinery spare parts manufacturing sector since 1994. Since 1999, almost all of the fiber cable blowing works in Turkey have been done using fiber optic cable blowing machines produced by KÖSMAK MAKİNA.

It continues its R&D activities on fiber blowing machines and revisions are made according to customer requests.

Fiber optic cable blowing machines produced by Kösmak Makina are used in many countries of the world, especially in Italy, the Netherlands, Uruguay, Holland, Germany, England, African Countries, Canada, USA, Syria, Iraq, Romain, Bulgaria, Kazakhstan, Libya and Suudi Arabia.

OUR UNDERSTANDING OF QUALITY;

Based on the principle of customer satisfaction first, our focus is to fully perceive customer demands and expectations and provide complete products and services accordingly,

To achieve this goal;

- Continuously improving product quality, reducing costs while increasing product qualities,
- To fully meet technological infrastructure and personnel information needs,
- Aiming for continuous improvement as a whole with the participation of employees.

OUR MISSION

To be the first choice of our customers with our products, solutions, after-sales services, reliability and high business ethics.

OUR VISION

To be a leader in its country and a preferred company in the world with its organization that that makes makes a name for itself in the technological developments in the sector in which it produces products and services, adds value to the lives of its customers and the society in which it operates, is admired for its performance in the solution partnerships it establishes with its customers, and adopts sustainable development as its working culture.

SCRAP WIRE WINDER MACHINE

Scrap wire winder machine; It is used to turn scrap wires obtained in various ways in factories and scrap dealers into bales. The scrap wire, which is thrown into the machine from the hopper (figure 3.1) on the top of the machine, is wound on the shaft with the rotation of the grooved shaft (figure 1.3) driven by the electric motor (figure 2.3), and the scrap wire becomes a bobbin as a result of the pressure applied to the scrap wire by the inflation of the pneumatic bellows (figure 2.2). When the max diameter is reached, the operator opens the front door and the roll is expelled by the inner screw.

EXAMPLES OF INTENDED USE

- ❖ Scrap wire turned into bobbin can be easily stacked.
- ❖ Scrap wires, which can cause occupational accidents in factories, are collected in a certain place and measures are taken against occupational accidents.
- ❖ The evaluation of the scrap wires becomes easier and this process can be systematized.

FEATURES

- ❖ The wire around the machine is connected to a switch (figure 3.2) and in any unfavorable situation, the wire is pulled and the machine is automatically cut off.
- ❖ Thanks to the electrical switch (fig. 1.1) attached to the cover of the machine, the machine's electricity is automatically cut off when the cover is opened.
- ❖ With the switch (figure 2.1) attached to the chassis, the machine's electricity is automatically cut off when the desired scrap wire coil reaches the desired diameter.
- ❖ The pneumatic bellows must have continuous compressed air (maximum=1.5 bar) (fig. 2.2).
- ❖ As the scrap wire bobbin rotates, the flanges on the back and front of the bobbin (figure 1.2) rotate, so that your machine will not wear out while the scrap wires are wound around the shaft.
- ❖ After the scrap wire bobbin reaches the desired diameter, it is enough to run the motor in reverse with the button on the electrical panel to take the bobbin out (fig. 4.1).

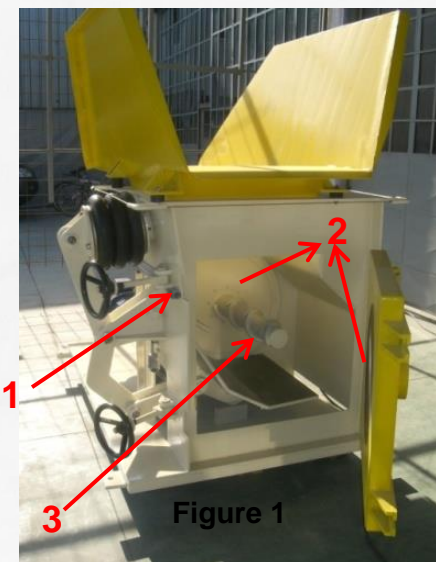


Figure 1

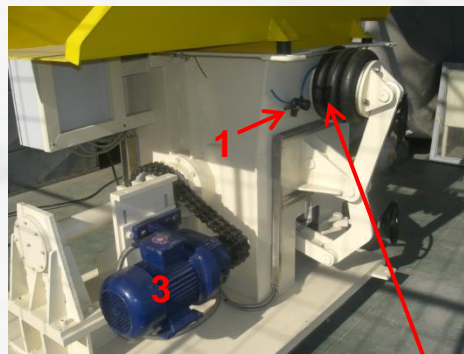


Figure 2

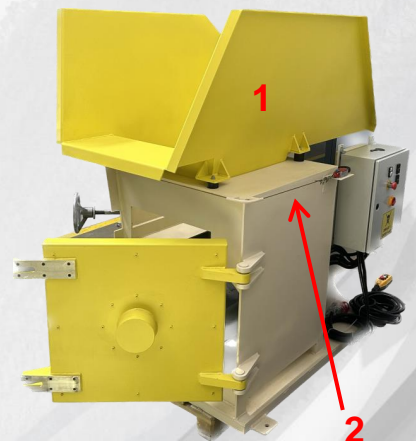


Figure 3



Figure 4

MAIN SWITCH

LOAD

UNLOAD

HOW TO USE SCRAP WIRE WINDER MACHINE



1) Scrap wire to be made into coils.



2) Approximately 5-10 kg scrap wire is thrown into the machine from the upper chamber of the machine and Tension is given to the equipment through main switch.



5) The cover of the machine is opened manually.



4) The scrap wire is turned into a coil with a diameter of about 500mm and stops automatically thanks to a switch



3) The machine is driven (pushing "LOAD" button) and the scrap wire is wound on the grooved shaft. This process is repeated until the scrap wires become coils.



6) Push the button "UNLOAD" until final automatic removal of the bale.



7) The scrap wire coil is taken out of the machine with the reversal of the spindle.



SCRAP WIRE WINDER MACHINE

TECHNICAL DATA

Installed Power	4 kW
Operating Pressure/Compressed Air	1,8 Bar
Drum Spindle	40 RPM
Max. Approx. Bale Dimensions	Ø500mm * length 500mm
Manual load from top	By Operator
Door and pressure arm with replaceable wear-resistant plate	
Approx. weight	1500 kg

NOTE: Our supply includes electrical power panel with buttons and independent button panel.

ELECTRICAL SYSTEM

The customer should provide for linking the feeding from three-phase electric network

Voltage 400 V – to be confirmed

Frequency 50 Hz – to be confirmed

Installed power 4 kW

Connection designed on terminal block of switchboard (R-S-T) after the wire has been set into channel, designed on purpose.

PNEUMATIC SYSTEM

Linking made by the Customer, should occur through the compressed air network of the factory.

- Required minimum pressure 4 Bar
- Feed pipe Diameter 10 mm. minimum

A pressure reducer is set on the unit and should be regulated to 1,5 – 2 bar pressure according to the diameter and hardness of the wire to be wound.



HANDLE CONTROL UNIT

This button box unit is connected to the electrical panel inside the machine with a 5 meter cable. Allows operation without the need to use the electrical panel on the machine (within 5 meters of the machine). The buttons on the panel serve the same function as the buttons on the panel.

- 1) Emergency Stop
- 2) LOAD Button
- 3) UNLOAD Button

SCRAP WIRE WINDER MACHINE

STANDARD SAFETY ON BOARD

For the operator is strictly forbidden:

- going on the carter
- going on or into the hopper
- putting steel wires in the hopper while the machine is winding
- keeping out the safety guards of the motor, of the lever etc.
- every control or maintenance operations when the machine is working (general power switch turned on zero position)

On board of the wire winder are provided some safety devices. These safety devices, that if engaged stop immediately the machine, are:

- Nr.1 safety stretch rope device with sensor placed frontally under the loading hopper. This safety device checks the weight loaded onto the hopper: in case of weight greater than 30 kg, the device will be engaged and stop immediately the machines. This emergency device is certified and fixing brackets are properly designed and realized to avoid failure. The sensor installed will also intervenes if the safety stretch rope is cut intentionally or accidentally.

- Nr.2 safety rope on the machine perimeter

This safety device allows to the operator, in case of emergency, to stop the machine when the rope is pulled. The rope is reachable from one lateral side and from the back side of the winder, in case of emergency the operator has to pull the rope in order to stop immediately the machines. This emergency device is certified and fixed properly to the machine.

- Nr.3 safety push button placed on the electrical control box

The safety push button installed, allow to the operator to stop the wire winder immediately if engaged. The presence of this sensor onto the electrical panel ensures the cover of the other lateral side of the machine to grant the availability and access of this for the operator.

During the working cycle of the wire winder, the operators must wear safety gloves and safety glass to avoid any type of damages to hands or eyes; the operator has to pay attention to the warning signals placed on the machine. For a correct working cycle of the wire winder machine the operators must receive a suitable training and they must have read and understood the manual of use and maintenance where are described the working cycle of the machine and also the safety instructions. It's absolutely forbidden to remove the safety devices or make operations which can cause damages to persons or things.

