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SEMI-AUTOMATIC COILING MACHINE MODEL MS450 AND MS560

The semi-automatic coiling machine MS450/MS560 is designed to fulfil a wide variety of different coil and bobbin confections with very simple operating processes.

Our coiling machine is composed of a basic frame in electro-soldered steel that insures a perfect base for the rest of the equipment. Fixed to the frame, we find a precise wire-guide system that forms the cable laying path.

On the other side of the machine, we find the rotor that is composed of two coiling forms that can be opened manually or automatically with the help of a pneumatic system.

The two coiling forms are interchangeable depending on the coil size and the cable size.

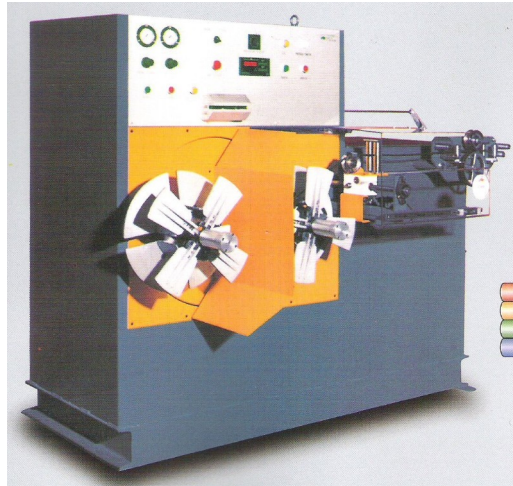
The machine is also equipped with a meter counter that checks precisely the length on the coil.

When the pre-set length is achieved, the rotor turns 180° and the operator can cut the wire with a cutting device placed in front of him.

Just by blocking the wire in the empty form and by pushing the start button, the coiler manufactures a new coil.

In the meantime, the operator can remove the finished coil from the full form.

This machine is ideal when flexibility is required because, just by dismantling the forms, it is possible to mount different ones or even, using the same machine, to adapt shafts for small plastic or card-box reels.



TECHNICAL DESCRIPTION	MS450	MS560
External diameter of coils (mm)	450	560
Internal diameter of coils (mm)	225	280
Max. linear speed (m/min.)	2 coils / min.	2 coils/min.
Regulation type	Dancer	Dancer
Traversing system	Motorized	Motorized
Type of brake	Pneumatic	Pneumatic



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The complete line is composed of a single driven pay-off that receives the cable to be coiled.

The lifting cart is hydraulic to support reels of up to 3 tonnes.

Along with the pay-off, an 11m dancer accumulator regulates the speed and ramping phases of the pay-off.

Thanks to its own weight, the speed fluctuations are quasi non-existent.

Along with the dancer accumulator, a pneumatic cable blocking system keeps the cable in the accumulator during the coil change operated by the operator.

The dancer accumulator will regulate the tension on the cable and will pilot the pay-off.

It is also equipped with a cable clamp that will block the wire during the cutting operation.

This kind of line can easily deliver 2 coils of 100m per minute.

The operation sequences are the following:

- The operator fixes the beginning of the cable in the right (for a right to left machine) coiling form
- By activating a push button, the line starts coiling by ramping up and down and stop at the exact length.
- The operator activates the head rotation button to change the coil.
- When the rotation is done, the accumulator cable clamp holds the cable while the operator cuts it.
- The last operation consists of reattaching the cable to the second coiling head and restarting the machine.
- During the coiling process, the finished coil can be extracted manually or automatically, wrapped or/and packed.

Options:

Along with the machines already described, it is possible to add additional equipment to our semi-automatic coiling machines such as:

- Continuous oven for thermo shrinking plastic packaging
- Semi-automatic wrapping unit
- Adaptable sets of shafts for small reels packaging
- Card box feeder
- Sparktester before the coiling head
- Automatic wrapping system

As already mentioned, you are our most important asset and therefore, do not hesitate to ask for dedicated solutions such as automatic coiling version or vertical integrated card box system.

