



## **OBSA MTC INDUSTRIE SRL**

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## **SEMIAUTOMATIC COILING AND WINDING MACHINE**

### **MODEL MB450**

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

The frame is entirely composed of high-strength aluminum sheets completely anodized in natural color, with a homogeneous matt surface, resistant to scratches and corrosion in a lasting way, capable of absorbing vibrations. The machine is frontally open to facilitating any type of operation.

The panels are held together by sliding dowels for fixing the screws and dynamic connection sets that ensure a very high resistance to pressure.

All components are easily removable and completely recyclable as they are made of aluminum.

The machine consists of a base that ensures perfect operational stability and a body which houses the following units



- the motorized wire guide unit, which allows the coils to be evenly distributed.
- the mandrel group on which the molds are housed
- the mechanical opening device for the form
- the braking unit consisting of disc brakes which allow immediate stopping in case of wire breakage and automatic brake at the end of the process synchronized with the reel unwinding stand.
- the instrumentation and the controls are placed on the front of the machine, incorporated in an easy to interpret panel with control lights and buttons for the various machining operations plus a display meter counter.

On the front of the machine there are two shockproof protective doors in transparent polycarbonate, which allow the operations of opening, closing and inspection of the machine.



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Correct closing of the doors is guaranteed by sensors, placed at the top of the two ends of the handles, for the detection of open door and line interruption in case of opening in motion.

Other transparent polycarbonate shockproof protection panels are fixed on the sides of the machine.

On the rear side, a protective casing is mounted where the entire transmission unit of the machine is housed.

TECHNICAL DESCRIPTION	MB450
External diameter of coils (mm)	450
Internal diameter of coils (mm)	160-225
Width of coils (mm)	80
Diameter of reels (mm)	200-300-400
Hole of reels (mm)	30
Regulation type	Dancer
Traversing system	Motorized
Type of brake	Pneumatic

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.



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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.

During the coiling process, the finished coil can be extracted manually, 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

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.