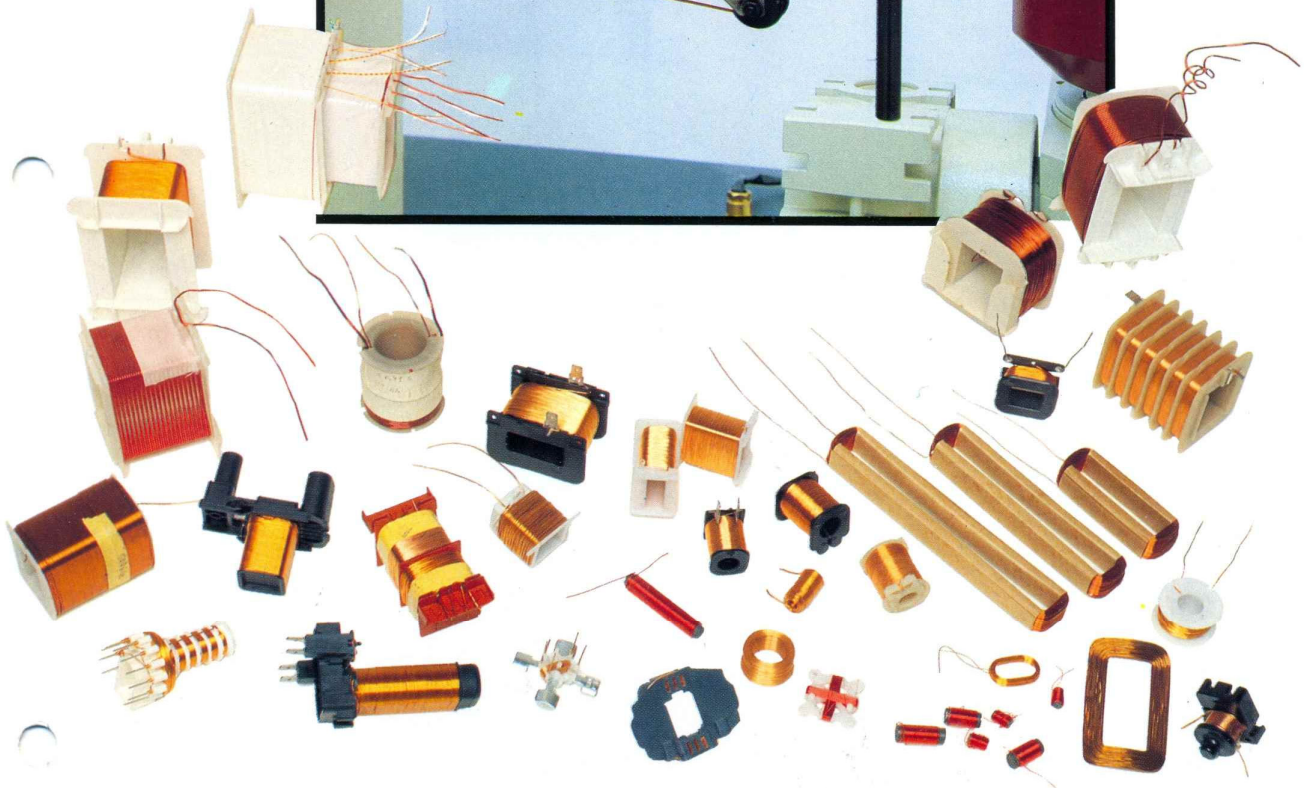
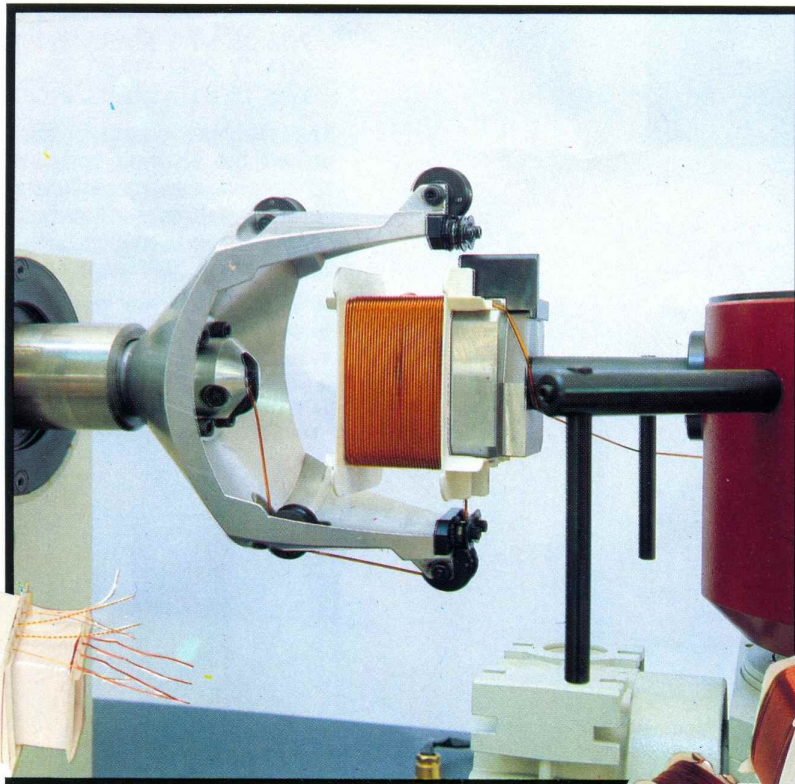




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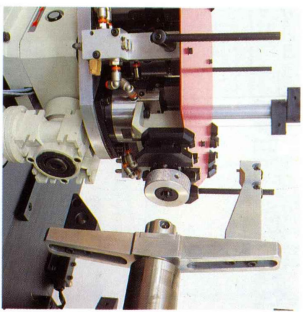
WM 15 RT ROUND TABLE WINDING MACHINE

WM 15 RT 1-2-5



WM 15 RT 1-2-5

MARSELLI automatic winding and finishing machines with round tables are called WM 15 RT. Their shape, aspect and size vary in accordance to the particular application they have to solve, and also the production rate they have to achieve.



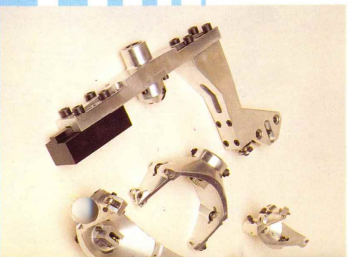
The basic elements composing the machines are the same for all machines:

- 1) The base is a welded structure that mounts the supporting plate for the various work stations.
 - 2) The various work stations are mounted around the table.
 - 3) Winding system with rotating wire guide flyer and stationary bobbin.
 - 4) Microprocessor to control and manage functions whether in winding or in automation.
 - 5) D.C. motor with fully controlled bridge 4 quadrant transistors for the rotation winding flyers.
 - 6) Step motor with bipolar chopper control board or D.C. servomotor for the feed of the guide carriage (traverse).
- In its simple configuration, this machine is sold with the MARS abbreviation and foresees only the execution of the winding operations. This machine is proposed in 3 different versions:

- WM 15 RT/1 MARS with one winding level
- WM 15 RT/2 MARS with two winding levels
- WM 15 RT/5 MARS with five winding levels

The machine requires one operator to cut the wires, to unload the finished coils and to load the bobbins. Its only advantage is extreme flexibility, coupled with efficiency, for small as well as medium batch quantities. The most common configuration is sold with the MINOS microprocessor and it can execute, besides the winding, additional operations like:

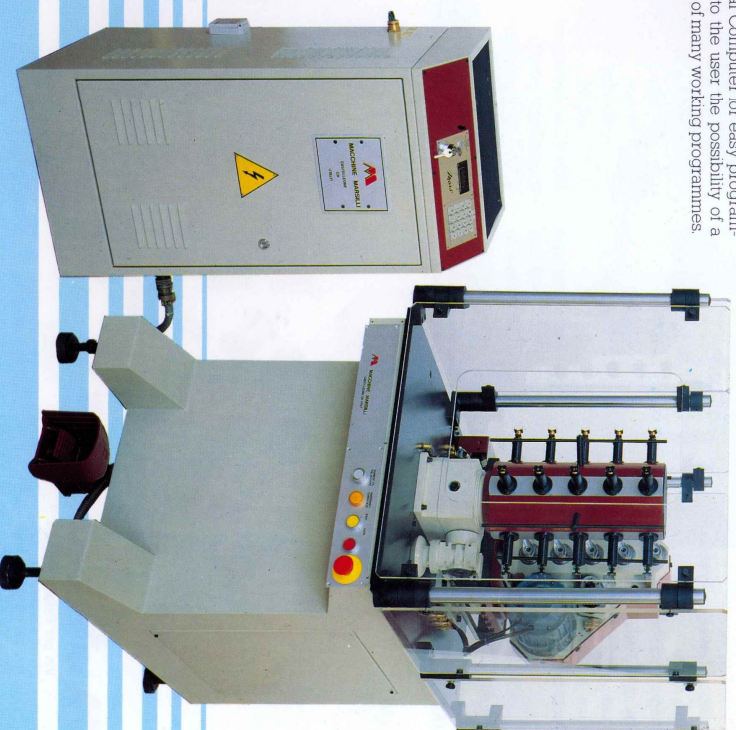
- taping of the last turn with wax
- wire cutting
- unloading of the wound coils
- tapping devices with one working deck

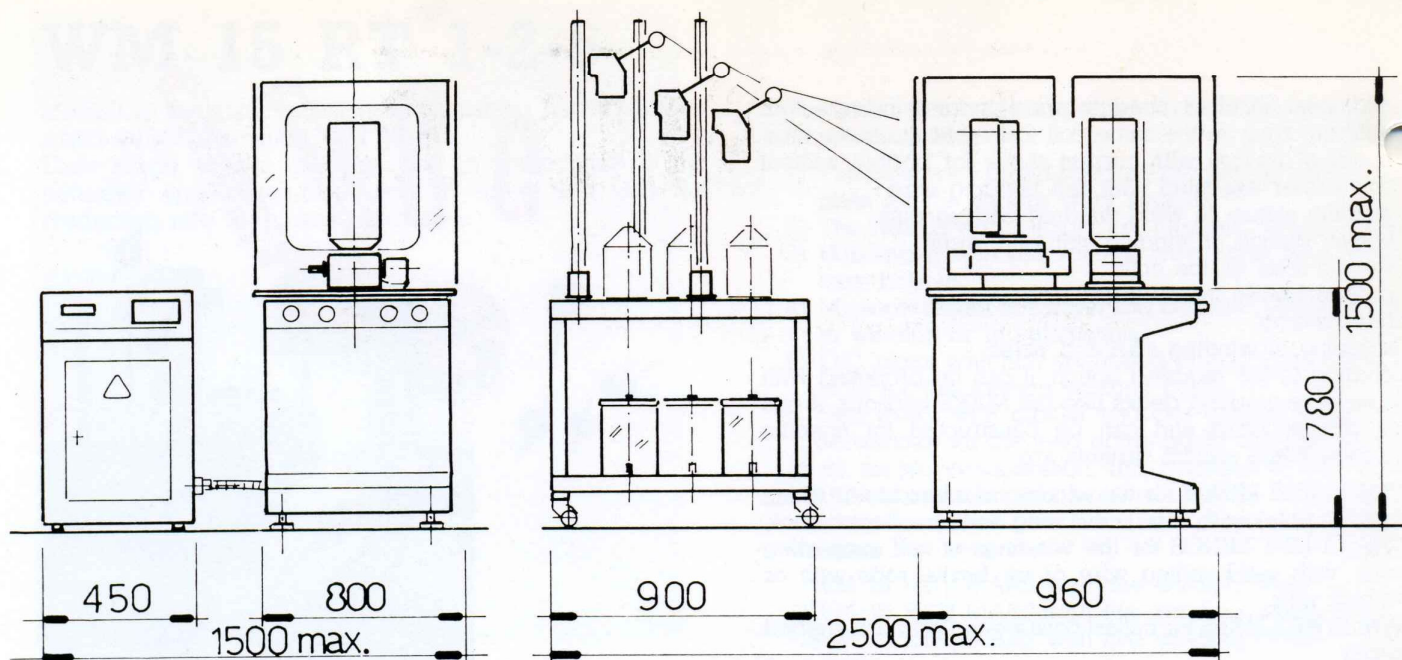


- additional winding head to wind more windings with different wire on the same coil former at the same time
 - bonding devices with current shock for bobbin without coil former executed with self bonding wire
 - welding station to weld winding wire to pins
 - tinning device of winding start/end wires
 - various tests on the coils
 - programmable intermediate taps
 - pin bending
 - stripping of winding start/end wires
- According to the required option, it can be proposed with one or more working decks like the MARS versions, it can take various forms and can be constructed for specific purposes. Some typical variants are:

- WM 15 RT/2 MINOS for the winding of micro motor rotors with 3/6 poles with wire positioning on the collector hook
- WM 15 RT/1 MINOS for the windings of self supporting coils, with self-bonding wire or on ferrite rods with or without pins.
- WM 15 RT/2 MARS for ballast coils wound with pre-shaped paper

- WM 15 RT/2 MINOS for the winding of rotating stators for ventilation motors.
 recently we prepared two special versions:
 The first one, called WM 15 RT MARS VIDEO, uses the same MARS microprocessor with a monitor for easy programming. The second one is called WM 15 RT PC and uses D.C. motors, with tachometer dynamo and encoder for traverse feed, a suitable microprocessor for the axes control in closed loop system with the speed and position control.
 This version uses a Personal Computer for easy programming of the machine, giving to the user the possibility of a large memory, for the storage of many working programmes.





CHARACTERISTICS

	WM 15RT/1	WM 15RT/2	WM 15RT/5
Winding machine type			
Number of flyers/decks	1	2	5
Distance between flyers	—	152 mm	80 mm
Wire sizes	0,08 ÷ 1,5 mm	0,05 ÷ 0,8 mm.	0,05 ÷ 0,315 mm
Winding width	80 mm	80 mm	80 mm
Max coil diam.	120 mm	90 mm	50 mm
Winding speed	3.500 rpm	8.000 rpm	12.000 rpm
Motor power	1,4 KW	600 W	400 W
Electrical supply	380V-50Hz threephase (neutral and earth) or 220V-50Hz threephase	380V-50Hz threephase (neutral and earth) or 220V-50Hz threephase	380V-50 Hz threephase (neutral and earth) or 220V-50Hz threephase
Weight	390 Kg.	400 Kg.	470 Kg.

MARSILLI & CO S.P.A. reserves the right to modify without notice the technical characteristics of the machines.

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