

M.E.C. WELDER®



**azeta** gomma  
S.p.A.

The **M.E.C. WELDER®** is an exclusive patent of A Zeta Gomma, it is an equipment designed for the welding of the polyurethane weldable belts. Thanks to the constant research A Zeta Gomma has perfected and patented the equipment for the welding of the polyurethane weldable belts to meet the requirements of the clients and to resolve any problem related to application and performance.

Designed by our R&D department who studied a welding technology by friction and alignment of the two ends of the belt at the end of the welding operation.

The **M.E.C. WELDER®** requires no maintenance before or after its use and considerably reduces the downtimes.

It's now available in two versions electric or battery operated.

Before being used it must be connected, by means of the appropriate plug to 220 V/ 110 V socket, with a minimum capacity suited to the power for electric motors. The socket must be compatible with the plug supplied and connected to a working ground.

Power consumption 800 W.

This technology uses the heat generated by the friction of the two ends of the belts combined with the pressure applied.

**Avoid the direct contact with the welding bead of the belt at the end of the process since heat can injury the skin.**

Available power:

- 220 Volt 50 Hz 650 W
- 220 Volt 50 Hz 1050 W
- 110 Volt 60 Hz 650 W
- Battery operated 18 V 5 / 5.2 A ( 2 Batteries)

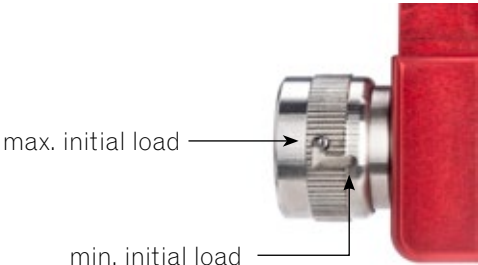
The welder is supplied complete of:

- N. 1 Scissors
- N. 1 Wrench
- N. 1 Edge cutter
- N. 4 Sets of clamping jaws



TABLE 1-A

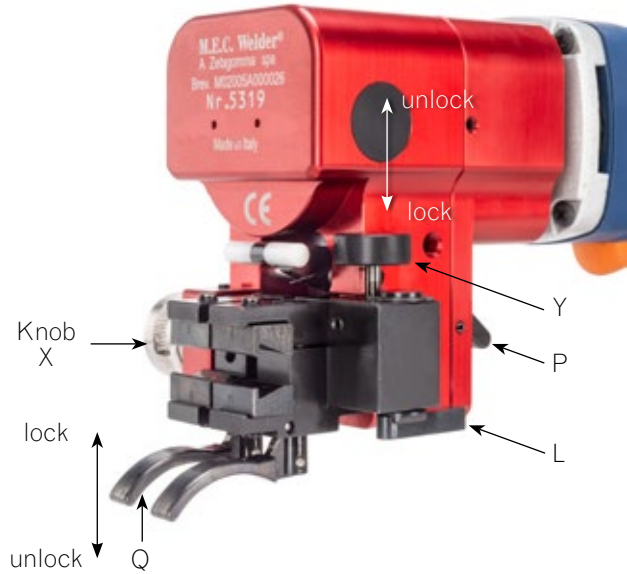
SECTION			SECTION		
MIN. INITIAL LOAD	Round belt	Ø 8 mm	MAX. INITIAL LOAD	Round belt	Ø 15 mm
	Round belt	Ø 10 mm		V-belt	B-CC
	Round belt	Ø 120 mm		V-belt	B-CP
	V-belt	A		V-belt	B-RND
	V-belt	A-CC		V-belt	C
	V-belt	A-CP		V-belt	C-CC
	V-belt	A-RND		V-belt	C-CP
	V-belt	B		V-belt	C-RND



INSTRUCTIONS:

1. Select the appropriate clamping jaws for the required profile, and insert it, into the holes of the supports of the welder using the proper pins (Tab. A).
2. Set the recommended working pressure and pre-charge based on the data in table 1 A acting on the knob.
3. Use the lever "Q" to make a clockwise rotation by preloading the spring (the clamps open) and lock with the pawl located on the side opposite to the lever "Q".
4. Insert the two ends of the belt to be welded into the clamping jaws, taking care to keep the welding point centered, manually tighten the jaws using the lever "L" on the back.
5. Lock the belt mechanically closing the levers "Q".
6. Release the pawl by the jaws opening lever "L".
7. Operate the welder using the on/off switch on the motor.
8. The combined action of the friction of one of the two ends of the belt, under the pressure of the loading spring, generate the heat sufficient to melt the polyurethane and allowing a perfect welding.
9. The operation ends when a welding bead has been produced all over the joint, (5-15 second according to the section), then the welder can be switched off.
- 10.Wait a few minutes for the material to solidify before opening the jaws and remove the belt.

- Warning!!!**  
In case of narrow space, to take out the belt, it will be necessary to turn it on itself of 180° and press it towards the body of the machine, it allows to increase the opening space by 5 mm
11. Remove the extra material from the belt using the edge cutter.
  12. The welder is now ready for a new welding.
  13. The **M.E.C. WELDER®** is also suitable for the welding of the transparent weldable belts with oversized cord. It is advisable to drill out the reinforcement at the joint surface by some millimeters before beginning the welding.



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