

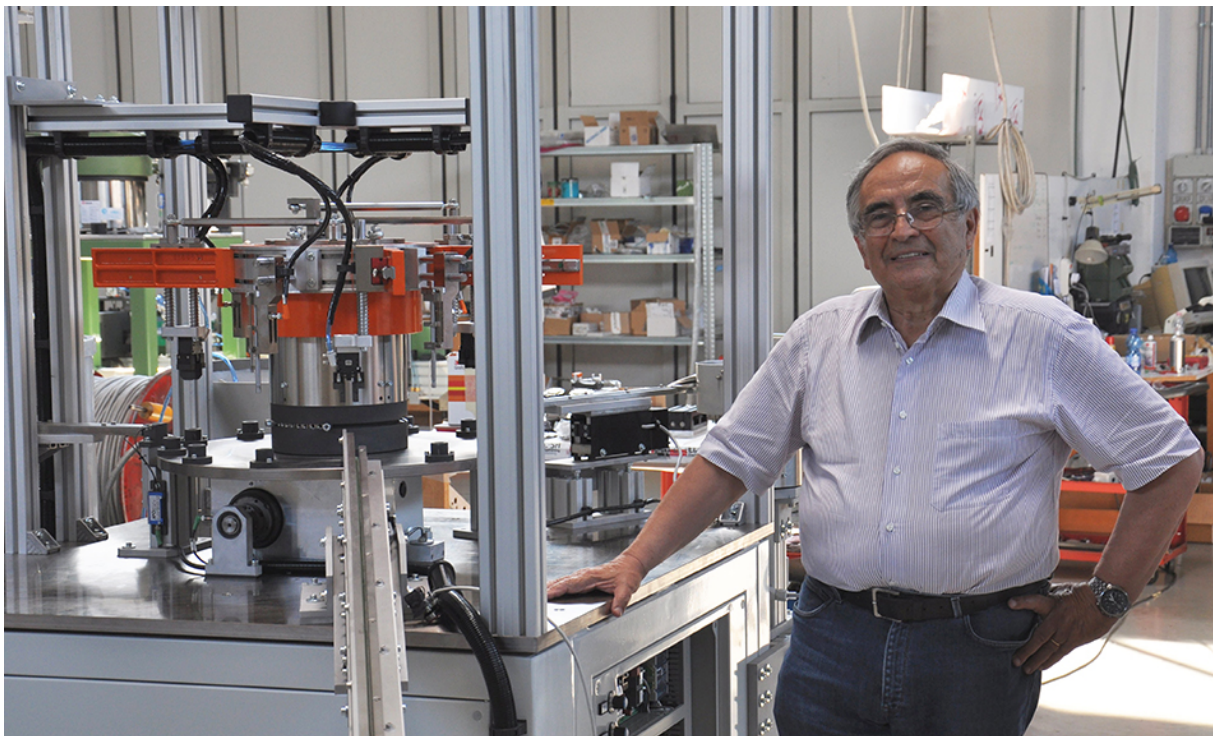
Press Release

Bronschhofen, in July 2016

"Telsonic offers comprehensive, expert consultations"

(Interview with Massimo Luminari, CEO of El.Ma., manufacturer of special systems, equipment for the automotive industry, filters of all kind and general plastic applications, based in Riva del Garda, Italy)

El.Ma. Electronic Machining S.R.L. was founded in Faenza, Italy in 1990, and is a small family business with 15 employees. The company builds special systems for industry as well as for research institutions and universities (e.g Trento University). Telsonic started its first joint project with Electronic Machining in summer 2015. In this interview, the Managing Director of Electronic Machining, Massimo Luminari, explains why he chose Telsonic.



Massimo Luminari, CEO of El.Ma.

How is the market for ultrasonic welding processes and devices developing?

At Electronic Machining we can see that there is a growing market for special systems. For safety reasons, more and more countries are stipulating the use of products for accident prevention.

Which industries and applications are you primarily interested in?

We are especially interested in ultrasonic applications for filters of all kind, for the automotive industry and for general plastic applications. We also hope that the versatile ultrasonic technology will allow us to open up new markets and thus to diversify.

Please describe the technical application of the system for manufacturing of plastic profiles?

Using mechanical saws installed on its side, the system cuts the rollers to size from the extruded profiles and then cycles them individually in front of the Telsonic ultrasonic systems on guide chains for the welding of the end caps. The final fitting of the slats and their threading in is then completed manually.

What is the technical challenge when it comes to ultrasonic welding?

In this specialist application, the challenge lies in achieving a seal between the end caps and the swimming pool rollers. On the recommendation of the Telsonic laboratory, the end customer arranged for the end caps to be retro-sprayed with ultrasonic-friendly energy directors. This guarantees that the production can be completed safely.

Telsonic also gave us recommendations for material pairings that allow for better welding, that guarantee a hermetic seal and that also prevent the resonance effect of vibrating plastic parts or broken caps.

Why did you opt for this (ultrasonic) technology?

The plastic caps are currently glued to the slats. Before they can be processed further, they have to be dried for 24 hours. For the same process step, ultrasonic technology only needs a few seconds without any adhesive materials. Another advantage compared to ultrasonics is that glue evaporates over time under UV radiation and the profile seal can then be lost. This is why ultrasonics is the most ideal solution for us.

What are the benefits of ultrasonics?

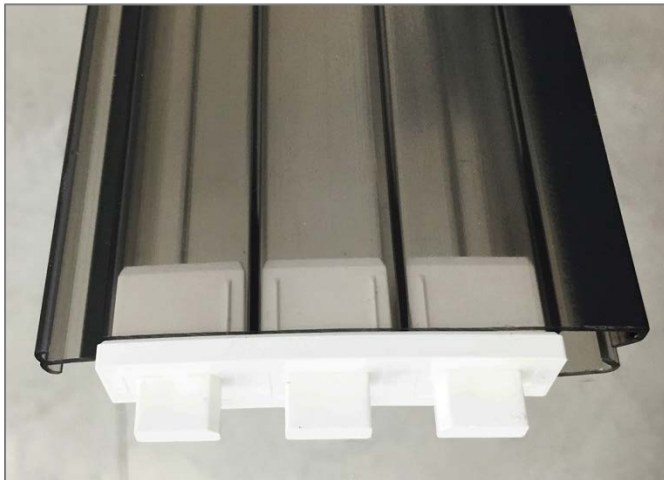
With ultrasonics, the application is fast and clean and the seal is tight.

Why does El. Ma. Electronic Machines use Telsonic products?

We value Telsonic's expert consultations, which includes the machine builder and the final customer, persuasive laboratory samples and the option for the time-saving remote maintenance of the system via the internet.

What did we supply you with?

Two Telsonic AC1900 actuator units complete with TCS5 controllers, sonotrodes and 22" touch screens.



End cap of swimming pool roller



Actuator AC1900

More information on the AC1900 Ultrasonic welding actuators can be found [here](#).

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