

# MAZZAROPPI:

## A history of passion and excellence



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Giuseppe Mazzaroppi was the kind of man that had to excel at everything he did. Keen, curious and methodical, if he set his mind on a project or venture he had to see it through, not only to completion but to success. Therefore, when, in the late 1950s, he developed a fascination for glass-processing, it was only natural for him to want to become the best in the field.

The 1950s were a time of dazzling innovation and mind-blowing progress and, in the span of a few years, Giuseppe's company



Founded back in the 1950s, Mazzaroppi is now in its third generation. In this article, Antonio Mazzaroppi, the son of the company's founder, speaks about the history, passion and for excellence in the development of increasingly innovative and revolutionary machinery that the company and its staff continue to have.

went from basic machinery for the vertical tempering of flat glass to more complex machines such as glass bending furnaces. From 1980, his son Antonio – currently the company's Managing Director – began to design increasingly innovative and revolutionary machinery and, as of 2019, Antonio's son Federico also



joined the firm.

Sixty years and three generations later, his heirs still maintain his same pas-

sion for excellence, and Mazzaroppi – still a family-run business – has become a household name in the field of glass tempering and bending machines, com-

binning the Italian passion for craftsmanship, human relationships and attention to detail with the most advanced technology and constant research and innovation.

## INNOVATION AND TRADITION

How does any company thrive and grow through decades of momentous change, in an increasingly competitive market? Making outstanding products, experimenting, patenting innovations, and never compromising on quality are indispensable prerequisites, but they are not enough. We believe in nurturing our relationship with each client, not just aiming for individual sales, but looking for partners that will share decades of history with us. Each of our machines is designed to last 20 to 30 years and we are committed to providing assistance to our clients at any time, while they are using our products. We are always available for technical support, we listen to feedback and suggestions, and strive to make each new generation of our products more fitting to our clients' needs. The service we offer is tailored to each client's specific requirements and evolves to match these requirements as they carve their own path to growth and success. Consistently turning each new client into a life-long business partner is a trademark feature of our style.

## ALWAYS PRESENT

Mazzaroppi's identity is firmly rooted in the company's history: we stand for

reliable quality, constant research and outstanding customer service. Everything else that might be said about our brand comes from these three qualities, which we are proud to see reflected in our clients' feedback and reviews. Each of our systems is designed to meet the specific needs of our clients and to offer substantial benefits in terms of energy savings, user friendliness and optimisation of space and investment, all while delivering consistently superior performance.

## THE FUTURE OF GLASS TEMPERING

As our industry changes, we strive to design and produce machines that will shape its future, combining craftsmanship and innovation. Once again, we model our priorities on our clients' needs and on the ever-changing context in which they operate. Saving on energy consumption not only makes glass processing more sustainable, it also allows our clients to save significant amounts, thus improving their bottom line. This has pushed us to improve our pre-existing lines and design furnaces that can reach 680°C in one hour on the first day of use and in half an hour after that, which allows our clients to switch their furnace off at night or over the weekend, thus avoiding electricity consumption during unproductive hours.

## DEDICATED TO MAKING GLASSMAKERS' LIVES EASIER

Making sure our machines are an excellent investment is a pillar of our strategy: we want our products to be accessible by small- and medium-sized companies, so that they won't have to rely on third-party services for high-quality glass tempering or lamination. We carry out a production analysis in order to always provide the most suitable solution when we receive orders. Driven by the same desire to make our clients' journey easier and more productive, we make our machines easy to operate without the need for special training. In fact, the whole process of shipping and installation is carried out in approximately two weeks, and includes employee training by our personnel. Our interfaces are extremely intuitive and accessible through a dedicated service app.

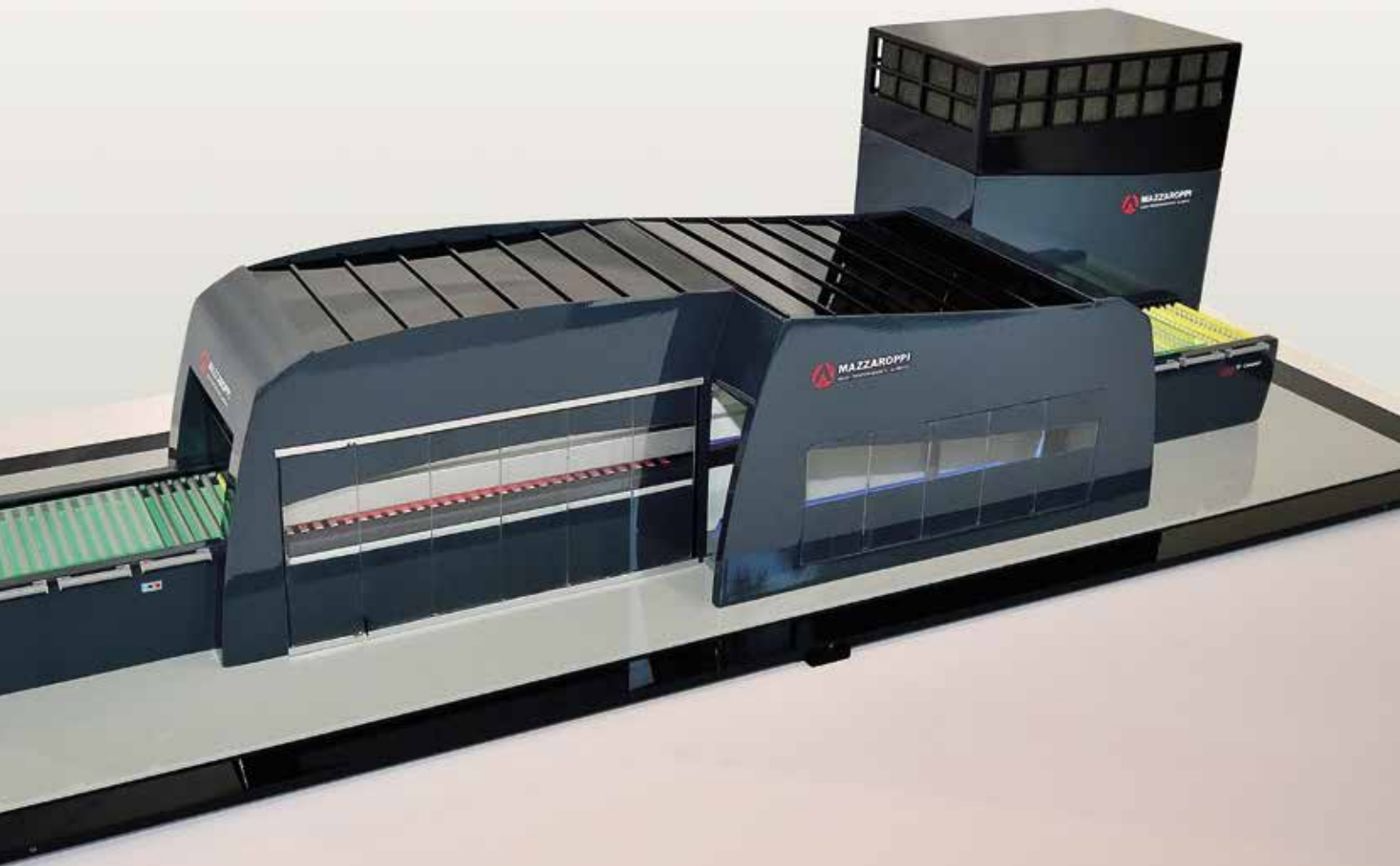
All our machines are made from 100 per cent European components and materials of guaranteed quality. This makes our products reliable and durable, with minimal maintenance requirements. In addition, our systems are designed so that installed components are easily accessible to technicians, which makes downtime very rare and allows repairs to be

carried out quickly.

Our company is developing into a creative workshop, where extraordinary machines are conceived, developed, designed, and built, both as part of our standard lines, as well as customised to meet specific client requirements.

All our machines are the result of old-fashioned craftsmanship, set in a context of ultra-modern industrialisation. In 2018, for instance, we launched a new generation of patented furnaces for glass lamination, and in 2021, after further reducing the energy consumption of our older models, we inaugurated a new generation of compact furnaces for flat glass tempering.





## NEW TP COMPACT

Picture a glass-tempering machine so compact it can fit into a small glassworks, allowing this same glassworks to take care of the whole tempering process without outsourcing any operations and, at the same time, so flexible and efficient that it can ensure the best quality on the market with energy consumption lower than any other.

Now picture being able to operate such a machine without the need for any specific training, through an interface as user-friendly and intuitive as that of a smartphone. Meet the new TP Compact by Mazzaroppi: everything you wanted from a glass-tempering machine and

more, brought to you by the experience and vision of our creative workshop.

### High-tech meets craftsmanship

Craftsmanship is at the heart of our brand philosophy, which is why we always strive to meet our customers' needs for complete control over every stage of glass processing. The new TP Compact was created thanks to the intersection of craftsmanship and innovation.

The TP Compact stands out from all other tempering furnaces, not only because of its elegant and compact design – with an overall length of around 17-18 metres – and the exceptional quality of its output, but also because of its

mission, the very reason why it was created, which is to make our customers' work easier, faster and ultimately better.

### No more outsourcing glass tempering

We designed the TP Compact especially for small and medium-sized glassworks that would like to have their own furnace, but do not have the production capacity to justify the purchase of a standard 2,500x5,000 mm tempering furnace. This forces them to rely on third parties, losing control over the pace and quality of their production. The TP Compact is accessible to such companies because of its small size and because it

has an average consumption of around 100-120 kWh. We have reduced consumption by a further 30 per cent compared to our previous model, which amounts to half the consumption of our European competitors and a third of that of our Asian competitors. This makes the TP Compact an investment that translates into huge savings in the long run, since it allows to slash energy costs both in terms of consumption and of fixed rates, as well as the starting cost of infrastructural installation.

### Special patent and high quality materials

Thanks to our special patent and high quality ma-



terials, the system reaches an operating temperature of 680°C in 60 minutes when it is first switched on, and in 30 minutes at each subsequent session. This allows you to switch it off at night or over the weekend and switch it on again when you need it, rather than wasting your resources on electricity that does not contribute to your production. This eliminates the cost of maintaining the furnace temperature and makes the TP Compact not only cost effective, but more sustainable than any other tempering machine on the market.

#### User-friendly and ready-to-roll

Your personnel will not need special training to operate this machine: the whole process can be controlled via a touch-screen monitor with an extremely intuitive and user-friendly interface. The operator

simply selects a previously compiled set of parameters and associate it with a track. The TP Compact needs no further input. It is also extremely easy to tweak parameters such as glass thickness during production. This means you will be able to change the glass thickness on every trolley run without having to stop the machine or wait for the temperature to adjust. All parameters are adapted automatically to match the required settings.

#### SPECIAL FEATURES

The TP Compact's heating section is entirely managed by our software, which regulates the zones in the furnace independently. Each zone is equipped with its own resistance, thermocouple, static relay, fuse, and dedicated temperature control channel.

The heating elements in the lower heating chamber are

protected by steel panels, which shield them in the event of glass breakages in the furnace, and are designed to prevent glass fragments from reaching and damaging the heating elements, without interfering with the direct heating of the glass itself.

The loading section boasts a horizontal glass lifter for easier and safer loading and special non-marking rolls. The roll movement is made more regular and precise by synchronised mechanical transmission.

The TP Compact is made in three standard sizes: 1,300x2,600, 1,300x3,200(3,600), and 1,600x3,200(3,600), and the whole installation process, managed by our team, takes 15 days, which include all the training your staff will ever need to operate the machine safely and effectively. It can handle any glass thickness between 3.8(4) mm and 19 mm and can temper any type of flat glass (float, reflective, enamelled, screen-printed, and processed, and including low-emissivity glass).

#### REMOTE SUPPORT WHENEVER NEEDED

Mazzaroppi's approach is entirely customer-focused: we like to think of our customers as partners that embark with us on a journey that we hope will last for decades. Therefore, we pay special attention to after-sale support and cus-

tomers care, making sure our customers can rely on us at any time.

All our plants are remotely connected to our operations centre, where specialized technicians respond to customer needs, and monitor each machine individually, providing real-time advice to operators on how to improve quality or speed up the workflow, as well as intervening immediately in the event of faults or anomalies.

#### VITRUM 2021

TP Compact will allow you to manage glass-tempering in your own glassworks in an affordable and sustainable way, without compromising on quality. We will be at Vitrum 2021, the international trade show that will take place at Fiera Rho, in Milan, 5-8 October with our new TP Compact in operation.

Our team will be present to answer questions and listen to feedback and requirements, in order to offer you bespoke solutions.



Mazzaroppi  
Engineering



**MAZZAROPPI**  
HIGH PERFORMANCE. ALWAYS

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