

# EUROSTAR's Glass Technology Mixer



Mixers capable of homogeneous mixtures in a shorter time, a determining factor in obtaining quality glass is the frontline product of the company of this article –Eurostar. The mixers are presented here, giving the idea of their high power and robust construction, which makes them ideal even under the most adverse conditions.

**Mario Zaccaron - Managing Director**  
EUROSTAR GLASS TECHNOLOGY



Located South of Udine, in the industrialized North-East Region of Italy, Eurostar's premises presently covers a total area of 11.000 square metres. The company has been manufacturing planetary mixers and relative accessories for diverse industries since 1999, with experience in this field on the worldwide market initiated 20 years earlier.

The company was founded with the aim to provide the industry and OEM's with planetary mixers with a high level of integrated innovations, made possible thanks to the company

team with more than 20 years of engineering expertise and in the field experience gained around the world.

Company vision was to respond to the fast moving needs of the glass industry in the best way possible, which led the company to develop and design specialized mixers that needed 'proven reliability and mixing technology know how'.

The market response and success pushed Eurostar to expand the marketing of these

Our mixer is the result of years of experience, and today we are able to provide technical expertise, equipment, parts, and services: a valuable investment.

products to an even wider market, further enhancing the company's engineering and construction skills and capability. Now with years of experience in designing and manufacturing quality products, Eurostar has become a premier and reliable planetary mixer provider.



## INNOVATIVE PROGRESS BROUGHT FORWARD

In 2009 Eurostar C.T. brought a new concept into the glass industry: the GTM planetary mixer, with performances that have been approved by the most stringent float glass tests, certified by Philips Lighting B.V.

This concept was followed by the further development of the mixing process to enhance GTM performances in 2014, once again certified by Philips Lighting B.V.

## THE GTM SERIES PLANETARY MIXER FOR GLASS PREPARATION

Designed, engineered and built specifically for the glass industry, without compromising in quality



and sturdiness, from the smallest GTM375 to the GTM7500 liter.

The heart of any mixer is the gearbox, and the Eurostar C.T. gearbox has been designed and built solely for use in planetary mixers, embodying high quality and structural design. Hardened gears all in an oil sump for correct lubrication and cooling. Wide slewing ring for smooth and reliable operations. The hydrodynamic coupling provides an ideal protection to the transmission against overloads, with

the GRDS an additional control on eventual coupling slippage monitoring that the load does not go beyond the safe limit. Expectations in the glass industry are to have reliable and sturdy equipment for around the clock operations, limited maintenance that prevent costly repairs and shutdowns, also with

- Simple maintenance
- Energy saving
- Low running costs

All glass production begins with the weighing and mixing of the ingredients to create a batch for the melting furnace. Mixing is extremely important to determine the quality of the glass and the melting process saving fuel costs. Hence, optimal control of the mixing process is essential, the base function of a mixer is to ensure that the dosed materials becomes a homogeneous mix in the shortest possible time, to obtain this we have the unique interchangeable and reversible mixing blades that rotate in a synchronized manner and

are able to distribute all the material uniformly in the pan without favouring the different nature of the materials; each revolution changes the flow pattern so to cover the complete vessel area. All wear elements are nickel-free, floor wear liners 12 millimetres in Hardox® 500, circularity and planarity of the vessel within 2 millimetres.

- reduced mixing time can increase plant output thus the general throughput and quality;
- Efficient;
- Less wear parts.

In most modern glass processes mixers are fitted with filter systems in order to reduce dust emissions, nonetheless mixers must have the characteristic to withhold dust that is inside the mixing vessel and not leak it out. The GTM has been engineered in all details that the dust remains enclosed inside the mixer so that the filter does its job.

- efficient use of equipment;
- environmentally friendly.



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