

# LASERMEK laser machines designed specifically for the glass sector from GLASS COMPANY



## **L**ASER TECHNOLOGY AS A SPECIALIZATION

Being specialized in laser technology allows Glass Company to provide machines with specific charac-

teristics that include:

- The removal of paint – also from mirrors – leaving the surface completely transparent. This system is widely used by mirror manufacturers for bathrooms, as well as for painted/enamelled glass used in the furniture industry.
- The removal of vitrified paint from the surface of tempered glass, leaving the surface completely translucent, a system that

is used by glass makers for the furniture and building sectors, to create logos and symbols on tempered glass.

- The removal of the coating from reflective glass, including dielectric coat-

Glass Company is specialized in the supply of high-tech machines, equipment, tools and products for the glass industry, used in the flat glass sector for building-, furniture-, home appliance-, refrigeration-, marine- and railway sectors, just to name a few.



ed glass (spy mirrors), leaving the glass completely transparent. This system is used in the furniture industry to make doors for furniture, partition walls, interior doors, etc., when transparent parts or decorations are required.

- Micro ablation of the metal coating of most low-E glass types (hard and soft coating), used

by manufacturers of refrigerator doors to make anti-fogging and heating glass (thermal).

- Ablation of low-E coating from glass for railway carriages, motorhomes or the facades of airports and similar places, to increase permeability to radio waves, such as those of portable phones.
- Engraving the glass internally both in two-dimen-

sional flat or extruded layers, as well as complex figures generated by three-dimensional files.

- Micro engraving the surface of the transparent glass, used by manufacturers of tempered glass, or special glass that needs differentiated marking, or complex logos.

### HEATING GLASS

For sectors where heating glass is required, Glass Company offers a laser

machine for straight and shaped cutting, along with the removal of electroconductive coating.

This last-generation laser does not affect the surface of the glass but only removes the coating with speed and precision.

LASERMEK BEAM carries out micro ablation of the metal coating of most low-E glass types with hard and soft coating, used by manufacturers of refrigerator doors to make heating glass (thermal), for the manufacture of anti-



#### Laser cutting features

fogging and for micro-etching on metallic coating, generating shaped and/or straight lines at high speed.

### LOW-E REMOVAL

LASERMEK SCANNER can, by means of ablation, remove parts of low-E coating ranging from 0.05mm up to 10s of millimetres, in a single passage. This laser is used to remove the perimeter coating of insulating glass, the creation of textures for glass for the railway-, marine, refrigeration industries, etc.

thanks to cutting-edge technology, this high-speed machine is ideal for companies looking for the highest quality.

Both models of this range remove electrically conductive coating in a way not visible to the human eye, interrupting its electrical conductivity.

### MIRROR GLASS

with regards to the bathroom furniture sector, and where the mirror glass is required, the laser is able to remove the paint from

the mirror leaving the glass completely transparent, thus enhancing decorations, and the insertion of TVs or magnifying glasses. LASERMEK BEAM and SCANNER ranges adapt to all types of production requirements with medium/low production machines up to highly productive machines.

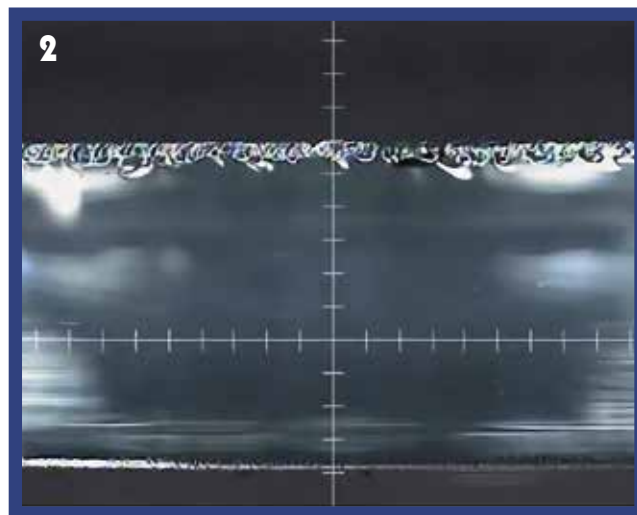
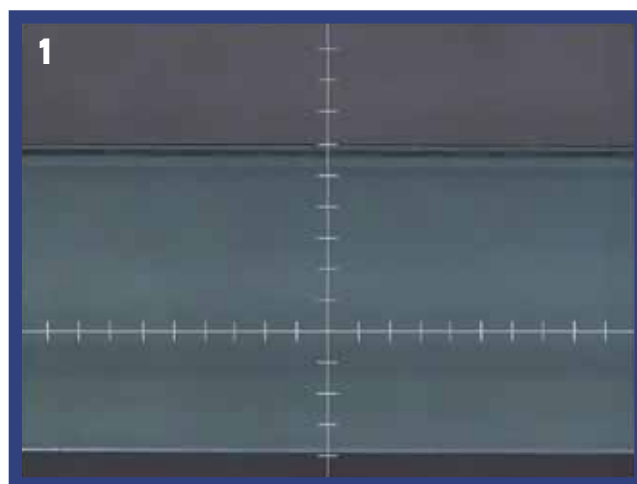
### FLOAT GLASS CUTTING

LASERMEK glass surface processing lines also include the new technology regarding the cutting of float glass up to thicknesses of 8/10mm.

Thanks to the use of latest generation laser sources, Glass Company offers a laser system suitable for straight and shaped cutting of the glass with an optimal area of 200x200mm, which can be expanded in accordance with customer needs. The glass cutting laser is useful for the cutting of all types of shapes for hinges, square holes and similar processes. Thanks to high-tech laser source technology and software dedicated to glass cutting, different

solutions have been developed that ensure perfect cutting results, without chipping, which are also suitable for glass tempering, as can be seen from the picture below.

1 - Cross section of laser cutting  
2 - Cross section of mechanical cutting



The very low consumption laser source is suitable for multiple processing to be carried out on the edges of large glass sheets or small-sized cut glass of 200x200mm in each type of geometric shape with extreme precision, speed and reliability.

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