

## Italcarrelli: further developments in glass transportation

*Glassworks do not only have to consider the increase in size of glass sheets, but also keep in mind the rising costs of various operations. Operator safety is another important fact to consider. Italcarrelli works with all these factors, striving to meet the demands of its clients and of the market. This article presents some of the company's products, along with a few updates on its certification and patents.*



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ITALCARRELLI SRL



**W**ell-known for its special trucks for the transport of flat glass, Italcarrrelli has become a well-known partner for glassworks. The need to continuously keep abreast of the times, with ready response to market needs and clients' demands, has pushed Italcarrrelli to reach high quality standards, both for its machinery, as well as for the service it offers.

Touch screens, video cameras with TFT screens, optical and ultrasonic sensors, as well as multi-function joysticks, etc., are integral parts of Italcarrrelli's machinery. Clients' requests and needs are the starting point from which the company manufactures its machinery, using high-tech components and choosing accurately the most resistant material so as to give its products the highest level of reliability.

Efficiency, speed and, above all, complete safety for operators are all taken into consideration when a new machine is designed.

**UNI EN ISO 9001:2000 CERTIFICATION**

With quality in mind, Italcarrrelli recently applied for and obtained UNI EN ISO 9001:2000 certification from TÜV Italia srl. This choice was made to conform its production with this quality standard so as to increase even further the quality of its products and to give a higher guarantee of this quality to its clients.

**EN BOX 20 - MOVEMENT OF GLASS SHEETS IN CONTAINERS**

Italcarrrelli has recently patented a new type of truck that enables the movement of glass sheets in crates. The *EN BOX 20* is absolutely innovative as it enables the loading and unloading of crates of glass from closed containers. Its versa-

tility also enables the loading of the same crates of glass onto trucks, as well as their movement inside and outside the glassworks. This machine will allow to decrease transport costs as it will no longer be necessary to use the usual, but very expensive open-top containers. Moreover, the *EN BOX 20* enables to carry out loading and unloading operations of a container by a single operator and, therefore, all operations will be a lot safer compared to those that need the use of a crane and more than one operator.

**TRANSPORT OF GLASS ON STILLAGES**

Thanks to the innovative *sicurlift* system, Italcarrrelli's platform trucks and inloaders are the ideal solution for the transport of glass on stillages. The highest stability of glass loads is guaranteed thanks to double hydraulic/mechanical safety.

Accessories such as glass holding "arms" for "A" or "L" shaped stillages, video camera systems in order to help the operators in manoeuvring, and driving position with the operator standing or sitting in a closed cabin are all part of the equipment of these machines.



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The *PTN330D*, an inloader truck for the transport of Jumbo glass sheets, which is diesel-powered, is the evolution of the *PTN330* e *PTN330S* electronic versions. The *PTN330D* is equipped with a diesel fuel engine that, thanks to particular auto-regeneration filters, enables to reduce the emissions of PM10 by more than 99 per cent and, therefore, also permits the use of the loader inside the glassworks.

The *PTN330D* can be equipped with many accessories, among which the closed cabin with rotating seat that enables the operator to turn as per the driving direction of the machine, and the “bad weather protection” device that enables to transport glass outside even when it is raining.

The installation and removal of the “bad weather protection” structure is simple, and takes only a few minutes, and glass loading can take place in a short time. The truck can also be used without the “bad weather protection” device because, without the canvas covering, the machine is much slimmer and easier to handle.

## SIDE LOADERS FOR GLASS TRANSPORT

Italcarrelli's series of side-loaders can be customized as per client requests and enable many different functions. These range from the transport of glass with or without packaging in the warehouse, up to direct loading onto lorries.

### EN4L 60

The *EN4L 60* has a range of movement up to 1,700 millimetres, and can transport up to three packs of glass simultaneously. This feature enables the loading and unloading operations of lorries. The operator can be seated or standing on a special, adjustable gangway, with adjustable height, ensuring maximum visibility above the transported glass.



### EN4L 45

The *EN4L 45* truck, for the transport of glass in wooden boxes, has a different gripping system, which guarantees the transport of glass packages quickly, easily and safely.

### EN4L 150

The *EN4L 150* is for the transport of Jumbo sheets of up to 6,500 x 3,500 millimetres, and has a maximum loading capacity of 15,000 kilos. The *EN4L 150* is equipped with pantograph clamps, cabin with adjustable height, and telescopic frame, which help the operators of these machines to manoeuvre the glass easier, preventing breakages.

All Italcarrelli's machines can be equipped with touch screens and graphical interface to simplify operator commands, as well as with multiple optical or ultrasonic sensors, which, for example, can self-align the machine with the glass during loading and/or unloading operations. ■



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