

## **ES600DCI-D Stacker – new controls and proven technology**

### **New controls for easy programming**

The new stacker ES600DCI-D guarantees a trouble free and stable transfer of hot glassware into the annealing Lehr.

Thanks to the high capacity data processing of the new ES600DCI-D controls the well proven INMARA concept of smooth movements which always applied to the longitudinal and transversal movement now applies to the lift axis as well, to smooth the stacking process further. All points of the motion can be viewed at the control panel located on the stacker and can be fine-tuned even while the machine is running.

To optimize the speeds and obtain smooth movements even for short and fast cycles it is necessary to do some programming work. However to keep the customers effort to a minimum the new software combined with the new easy readable display offers a variety of features which makes the programming very easy.

To ensure that the stacker is efficiently used and perfectly integrated into the production infrastructure of the customer, we recommend to our customers to send people to our free of charge training course, which can be tailored to the customers requirements and normally takes 1 or 2 days.

Especially when it comes down to job changes the INMARA stacker ES600DCI-D is very easy to adjust. The adjustments may be carried out at the production line or comfortably by remote from the office with a simple switch to a new motion program. Up to 500 different motion profiles (articles) may be stored on the stacker. It is sometimes necessary to fine-tune a motion profile – which is no problem with the new stacker, since every single step may be easily recorded and stored on site.

### **High speed drive elements without compromise to the reliability**

INMARA continuously improves the performance of its stacker. Therefore, both software and hardware aspects are considered. Two important features of performance are reliability and durability. The proven technology of planetary gearing, INA linear - high quality bearings and quick change cabling together with new 600V servomotors offers a long-life package of drive elements for customers who aim for a maximum of reliability.

Even high speed applications up to 24 cycles / minute are possible without compromise to the reliability. This is one result of INMARA's focus on integrated solutions which incorporates all aspects of a product and even more importantly the interfaces at the customers end.

### **Further improvement of the efficiency of the ware handling at the hot end**

To further improve the efficiency of the ware handling at the hot end INMARA identified a big potential for improvement with the optimum combination of the INMARA Ware Transfer (VWT600) together with the INMARA stacker (ES600DCI-D). INMARA has successfully introduced a ware transfer that allows the adjustment of the in and out-feed speed to the speed of the IS machine conveyor and the cross conveyor by controlling the finger position and the finger spacing. The combination of the INMARA- ware transfer and the INMARA- stacker offers a perfectly optimized handling package which enhances the individual benefits of the two machines even more.

### **Remote or incorporated controls – total flexibility**

Ultra modern, high speed production facilities are characterised by their flexibility and the efficiency with which data is transferred. To provide a maximum flexibility INMARA incorporates all controls on the machine but at the same time allows the possibility to have remote access with efficient data transfer by introducing the new ES600DCI-D control.

The control of the new stacker ES600DCI-D is based on a LINUX operating system with a windows- display. With the new system no external PC connection is necessary.

New articles may be programmed directly on the stacker. An external PC may be used for data saving and easy programming out of the office. A connection between an external PC and the stacker is possible through a USB interface or a network.

Job changes or fine adjustments of the motion may be easily performed directly on an easy readable and convenient machine- panel (screen) at the production line or at a remote office desk. Motion profiles can be quickly changed on the running machine.

Every single step carried out on the machine may be recorded, which is an important contribution to the reliability of the whole production system. The new INMARA ES600DCI-D is a compact all in one solution for customers who aim for a maximum of efficiency.

Our experience has shown, that in a high demanding production environment like the glass industry, which is normally a continuous production without stop, it is highly recommended to have a spare stacker available at the plant. In case of a breakdown the spare INMARA stacker ES600DCI-D may be quickly integrated into the production due to the simplicity of its cabling (stand alone solution), thus minimising down-time.

Our worldwide service centre is available for customers 24 hours a day, 7 days a week. In case of a failure INMARA will support the customer to do the diagnosis, alternatively, if set up and required by the customer, INMARA could even plug into the machine control by remote access. The first level diagnosis is now much easier thanks to the new ES600DCI-D control which generates easy readable error codes.

One of the cornerstones to provide our customers with durable solutions, is our well appreciated training concept. We offer free of charge training courses on a regular basis – all our customers are invited to send people on training at anytime.

INMARA offers an upgrade from the ES600DCI to the ES600DCI-D. This step might be considered before the next general overhaul.