A+W Clarity
Software for Glass

A+W DYNOPT

A Steady Flow of Glass – Optimum Yield.

A+W DynOpt is a dynamic optimisation system for controlling automatic cutting and sorting lines. The latest A+W DynOpt systems also ensure the seamless communication between cutting and downstream, online-connected production lines.

www.a-w.com

Optimum yield with the desired production sequence

A+W DynOpt functionalities

A+W DynOpt is a dynamic optimisation and cutting control system for cutting, breaking, and sorting. As an add-on for the A+W production system A+W Production, it optimises waste to achieve maximum yield while adhering to the predefined production sequence and it controls dynamic sorting systems such as the HEGLA SortJet and BYSTRONIC first'sort.

A+W DynOpt allows the simultaneous cutting and breaking of several glass types. The system controls and synchronises several cutting tables, sorting buffers, and residual sheet management systems and ensures real-time data exchange with other production systems such as the in-

sulated glass line. In combination with a dynamically-controlled intermediate buffer, (HEGLA SortJet, BYSTRONIC first'sort), a continuous glass flow is achieved, into which rush orders and remakes can be inserted in timely fashion with a constant waste ratio. A+W DynOpt couples the previously manual or semi-automatic production flows so that they are completely automatic and thus generates a long-term uninterrupted flow of glass.

With A+W DynOpt, it is possible for the first time to create any desired sequence without having to reduce profitability. The total yield is higher than with a chaotic optimisation, without the use of a room-spanning sorting system.

How does A+W DynOpt work?

A+W DynOpt analyses the existing optimisation potential and the current quantity of glass available considering the extent to which the dynamically-managed intermediate buffer is filled. The fill level, gas flow, and yield are weighed optimally against one another. This increases the effect of the buffer. The monitor also shows when for the glass type X a residual plate will next occur. During the ongoing optimisation, additional sheets are already transferred to production. For example, for glass type X, for which the residual plate will occur, there are now three stock plates available for optimisation. Automatically or with the touch of a button, A+W DynOpt will perform a new optimisation in seconds and display

* A+W Production is a complete production planning and control system for insulated glass, TG, and LG production as well as for multi-level production environments. The basic version of A+W Production includes production and close-to-machine rough and detailed scheduling, machine assignment, formula editor, and production release.
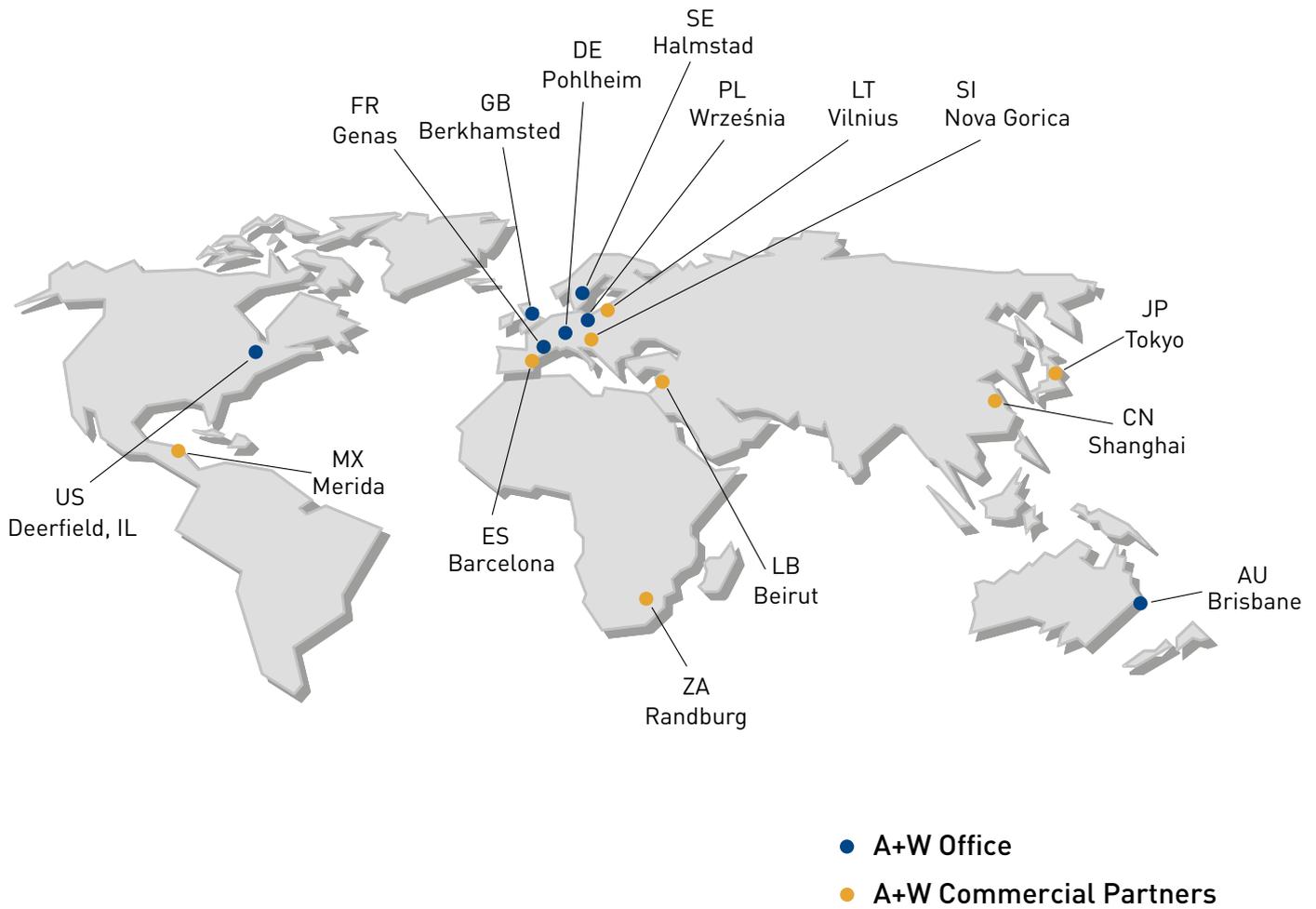
the results on a monitor. Thanks to the consideration of the other plates, the residual plate has disappeared into the new optimisation – the problem has been shifted into the future until such time as a residual plate arises and the reoptimisation process begins from the start. With common glass types, the goal that no residual plates are produced all day can be achieved; this happens occasionally with less common glass types. With extreme variety, automatic residual plate storage (Remaster, Storer, etc.) is recommended, which of course is also incorporated automatically into the process. This way, a glass type exchange is possible.

In the current A+W DynOpt generation, large series can be considered and optimised on A-racks.

Your benefits:

- Best yield for desired production sequence
- Improved efficiency of the cutting lines
- Less breakage and damage in cutting and sorting
- Improvement of production-synchronised handling and breakage and integration of rush jobs
- No limits on the size of production lots (from individual sheets on through to daily production)
- Controlled output on one or several harp racks or directly on one or several insulated glass lines
- The best way to optimise your completely-automatic production line generates a continuous glass flow
- Automatic control of portal systems and residual plate storage
- Automatic load distribution across several production lines
- Intelligent process optimisation thanks to algorithms for perfect, individually-attuned loading of your buffer system
- Everything under control: based on graphic displays such as planned and current work stock, for example

A+W DynOpt Compact   The cost-effective starter version of A+W Dynopt without sorting machine

A+W DynOpt Compact is the starter version of A+W DynOpt. In compact mode, A+W DynOpt works directly with provided racks, which are filled either manually or with a simple sorting system without intermediate buffer. For the main glass types, A+W DynOpt Compact makes excellent use of the glass, prevention of left-over plates and ensuring of a continuous flow of completed harp racks from cutting.

A+W Software GmbH
Am Pfahlgraben 4 – 10
35415 Pohlheim
Germany
Tel. +49 6404 2051 0
Fax +49 6404 2051 877
info@a-w.com
www.a-w.com

A+W

FR
Genas

GB
Berkhamsted

DE
Pohlheim

SE
Halmstad

PL
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A+W – 40 years of global market leadership in software for the flat-glass, windows and doors industry – for small, medium-sized and enterprise companies.

Our long-term experience is your benefit.

A+W – Your Trusted Advisor

A+W Clarity Software for Glass