glass technology

SortJet

Reducing material costs
Improving the production flow

High Performance in Glass Cutting and Handling

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Optimal Material Flow Between Cutting and Insulating Glass Line.

Optimise your material flow between cutting and insulating glass line, profiting from reduced wastage costs. Forget about manual glass handling, scratched panes and having to hunt for missing panes.

A compact version of the SortJet already enables significantly improved production processes. The dynamic buffer system takes all the panes consecutively into the chaotic cut-optimised sequence of the cutting line and buffers them until it is summoned by the insulation production. The glass is transferred to the IG line in production sequence, correctly oriented and precisely-timed.

The SortJet principle enables independent optimisation of the cutting and the glass transfer process; whilst a continual flow of glass is produced across the entire production line. A supplementary managing software can be used to effect considerable reductions in the material and handling costs.

Depending on requirements, a SortJet can be used to tie together one or more cutting lines with one or more insulating glass lines.

Examples of a SortJet installation

SortJet for Online-Production
– directly from the cutting to the IG Line at precisely-timed intervals.

SortJet Installation with tilting-conveyor,
Double-Layer Conveyor, Double-Layer Input-Shuttle,
Dynamic Buffer with multiple storage capability, Double-Layer
Output-Shuttle, Double-Layer transfer conveyor and vertical turning conveyor

SortJet Installation with Slewing-conveyor,
Double-Layer Conveyor, Double-Layer Input-Shuttle,
Dynamic Buffer with multiple storage capability,
Double-Layer Output-Shuttle and Double-Layer transfer conveyor

SortJet for Offline-Production
– continual glass provision for the IG line

SortJet Installation with Slewing-conveyor,
Double-Layer Conveyor, Double-Layer Input-Shuttle,
Dynamic Buffer with multiple storage capability, Double-Layer
Output-Shuttle and Slot Carriage Station for Loading of the Processing line.

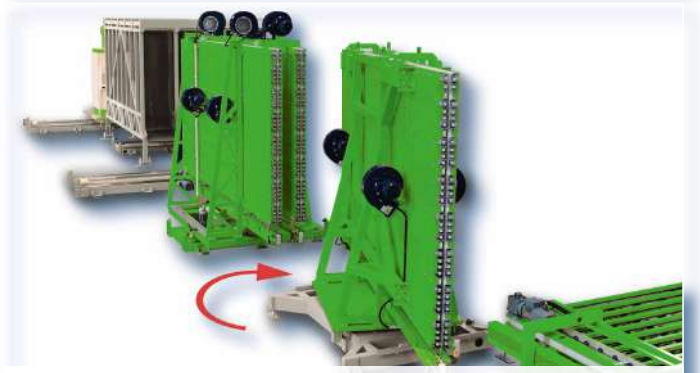
Slewing-Conveyor: For erecting the glass in the vertical processing level of the IG line with simultaneous setup of the coating side.

Tilting Conveyor: Collects the blanks, erects them in the vertical level and then passes them on to the Input Shuttle.

Input-Shuttle: Automatic and damage-free transfer of the glass blanks to the compartments of the dynamic buffer system.

Dynamic Buffer: Dynamic buffering of the blanks until the panes are summoned for an IG unit.

Output-Shuttle: Automatic acceptance of one or more panes from the dynamic storage system.



Rotation Conveyor: True to side glass transfer on the IG line via automatic rotation of the glass to the left or the right.

Vertical conveyor with lifting unit: Quick-opening passage and through-transport.

SortJet for Online-Production – Directly from the Cutting to the IG Line

The SortJet for online-production generates a fully-automatic continual glass flow between the cutting and the insulating glass line. The panes remain on the unit throughout the entire production process and are oriented system-controlled according to the requirements of IG production without manual handling. The cuts are transferred from the dynamic buffer to the IG line in production sequence and precisely-timed.

High number of cycles and potential for cost-reduction

Its operator-independent and comprehensive processes enables the SortJet to achieve a high cycle frequency in online production. This minimises the risk of production downtime caused by damaged or missing panes. The efficiency of the entire production process is improved thanks to almost uninterrupted procedures.

Further cost-reduction are realized through the use of process managing software. The comprehensive principle of the SortJet enables the independent and in-depth consideration of individual process steps, whilst generating a continual glass flow between the cutting and the IG line.

Sort*Jet* for Offline-Production
– Continual Glass Provision for the Subsequent Processes

The SortJet enables continual glass flow in offline production in complex production chains with multiple processing stations and difficult space conditions. The glass is transported via slot carriages which can easily cover longer distances and effectively organize the glass logistics in the individual process stations.

Continual glass provision for the various process steps

The panes are taken from the chaotic cut-optimised sequence of the cutting, buffered in the dynamic storage and then handed over to the slot carriages when required by the system. Sorting is performed either sequentially or randomly on the individual compartments. The operator takes the carriages e. g. to the IG line or the Edging-line, where an automatic glass infeed system performs continual glass provision.

The SortJet for offline production facilitates the independent and in-depth optimisation of the individual process steps and contributes to the exploitation of further cost-reduction potential.

Slot Carriage Station for continual glass provision for the subsequent processes

Slot Carriage Station for sequential loading of the processing line

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