systron
GLASS TECHNOLOGIES

Automation

EN

Strong partners offer strong solutions

systron automation offers **fast** and **efficient integration** of systron processing systems in **existing productions** and allows all freedom in new concepts with the following products:

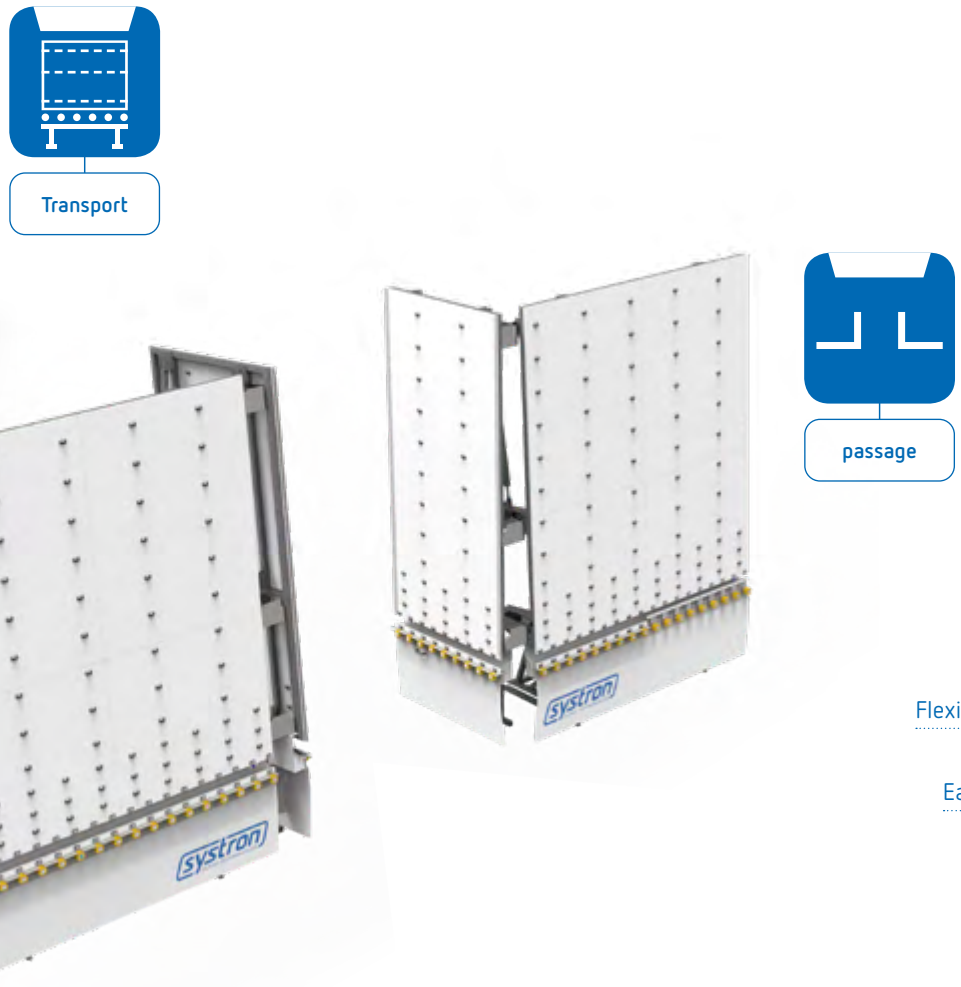
- ***systron*** *TRANSPORT*
- ***systron*** *PASSAGE*
- ***systron*** *TILTING TABLE*
- ***systron*** *RAIL TILTING TABLE*
- ***systron*** *SHUTTLE*
- ***systron*** *TURN SHUTTLE*
- ***systron*** *STORAGE*
- ***systron*** *ROBOT INTEGRATION*
- ***systron*** *INSPECTION*
- ***systron*** *SOFTWARE*

Systron automation offers over the existing product portfolio:

- high innovative power
- fast development competence
- maximum solution orientation enables highest quality and flexibillity

systron
TRANSPORT and PASSAGE

The "systron TRANSPORT" is equipped with **belts or rollers**. The "systron Passage" makes it possible to pass through transport routes.



Transport

passage

Highlights

Flexibility by modular design

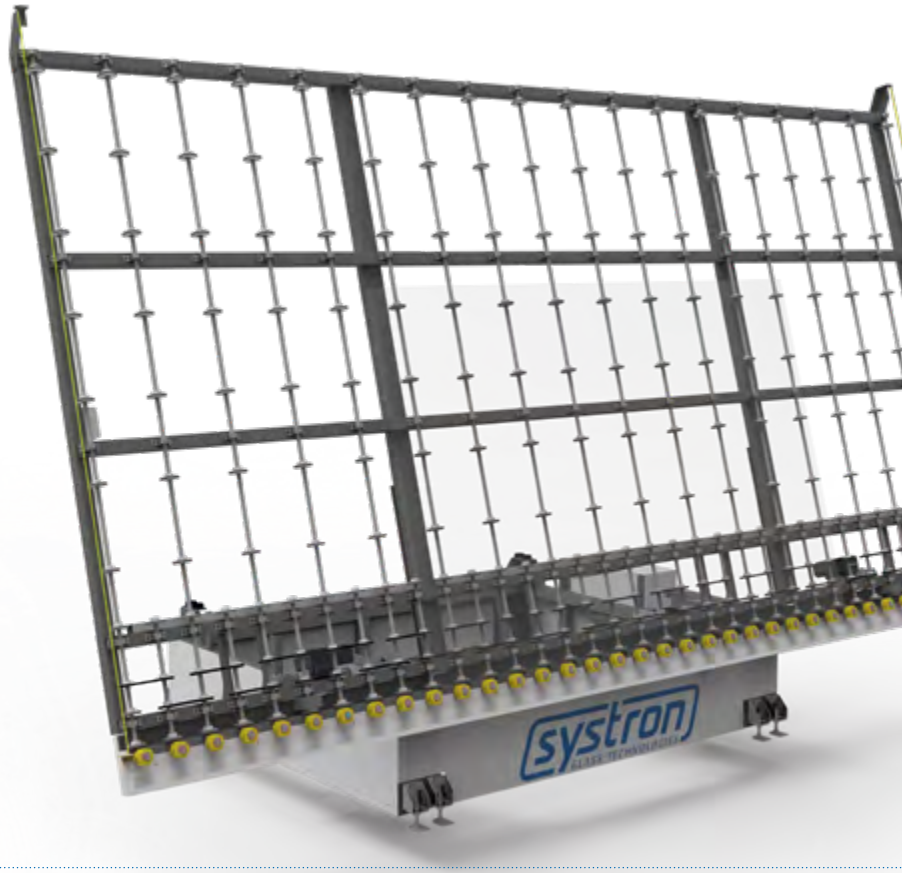
Easy and fast installation

systron
TILTING TABLE

The "systron TILTING TABLE" serves as an **interface** between the **horizontal** and the **vertical transport** of glass panes.

Depending on the requirements, the "systron TILTING TABLE" conveys **one or more** panes of glass.

Horizontal ⇢ **Vertical**
Vertical ⇢ **Horizontal**



Highlights

- Low maintenance due to a solid construction
- Dynamic and precise thanks to integrated servo technology

systron
RAIL TILTING TABLE

In addition to the connectivity of horizontal and vertical glass transport routes, the "systron RAIL TILTING TABLE" can also be used as a **traverse transport** to exploit local conditions or to give new concepts **maximum performance.**

Tilting-Table

Highlights

Flexible in movement

Dynamic, exact with high repeatability by integrated servo technology

systron SHUTTLE

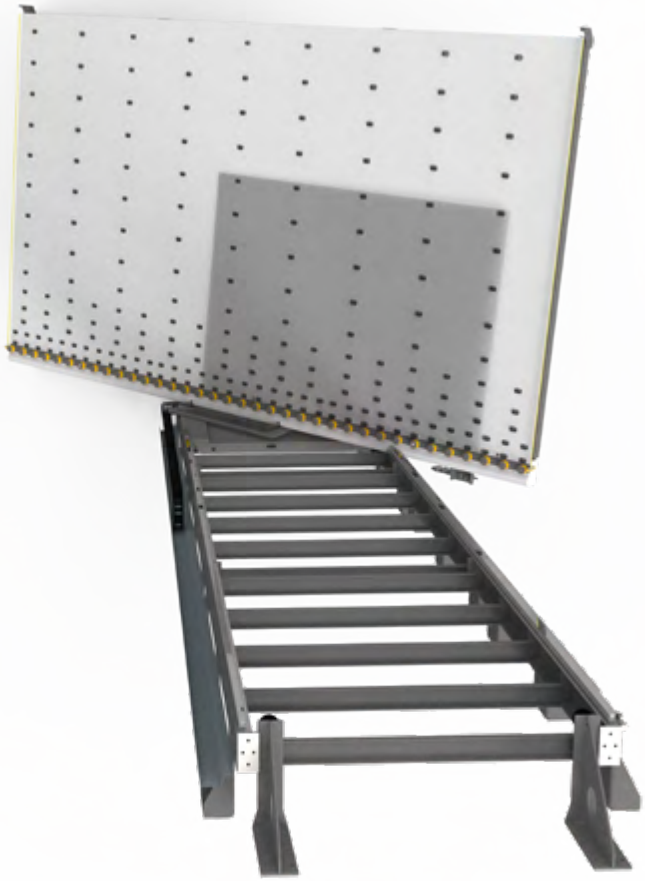
The "systron SHUTTLE SYSTEM" enables a **cycle-time-optimized traverse transport** of **glass panes** and serves as a link between vertical processing stations. The rail system is designed for **very high speeds** and **accelerations**.

Highlights

- Optimized cycle time, glass transport carried out durlng shuttle movement
- Extendable due to standardized rail system
- Less maintenance, due to automatic lubrication system

systron
TURN SHUTTLE

The "systron TURN SHUTTLE" is the extension of the "systron SHUTTLE" with a **swivel function**. The 180° rotation function, for example, gives also an inclination change for Low-E glass panes during traverse transport.



Highlights

- The glass sheet will be rotated during transport
- Turning function easily reaches 270°
- Ideal for applications with limited space
- Optimal for loading "face to face" positioned production lines

systron STORAGE

The "systron STORAGE" is an **automatic storage** system. This storage system serves as an integrated buffer system and increases the degree of automation of a glass processing line.

Highlights

- 20 individually selectable slots
- no mechanical touch, to protect glass with a Low-E coating
- The newly developed storages concept allows to load and unload glass panels without lifting the glass sheets

systron
ROBOT INTEGRATION

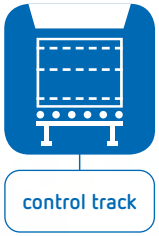
Industrial robots, nowadays are standardized components which increase the degree of automation and are a fixed part of the **factory automation**. **Seamless integration** and the required precision are achieved by an innovative concept approach.

Highlights

- Industrial robots offer maximum flexibilty and standardization
- Increased production safety by highest precision
- Innovative and space-saving

systron INSPECTION

The "systron INSPECTION" is a **control track** for optical inspection of glass sheets.

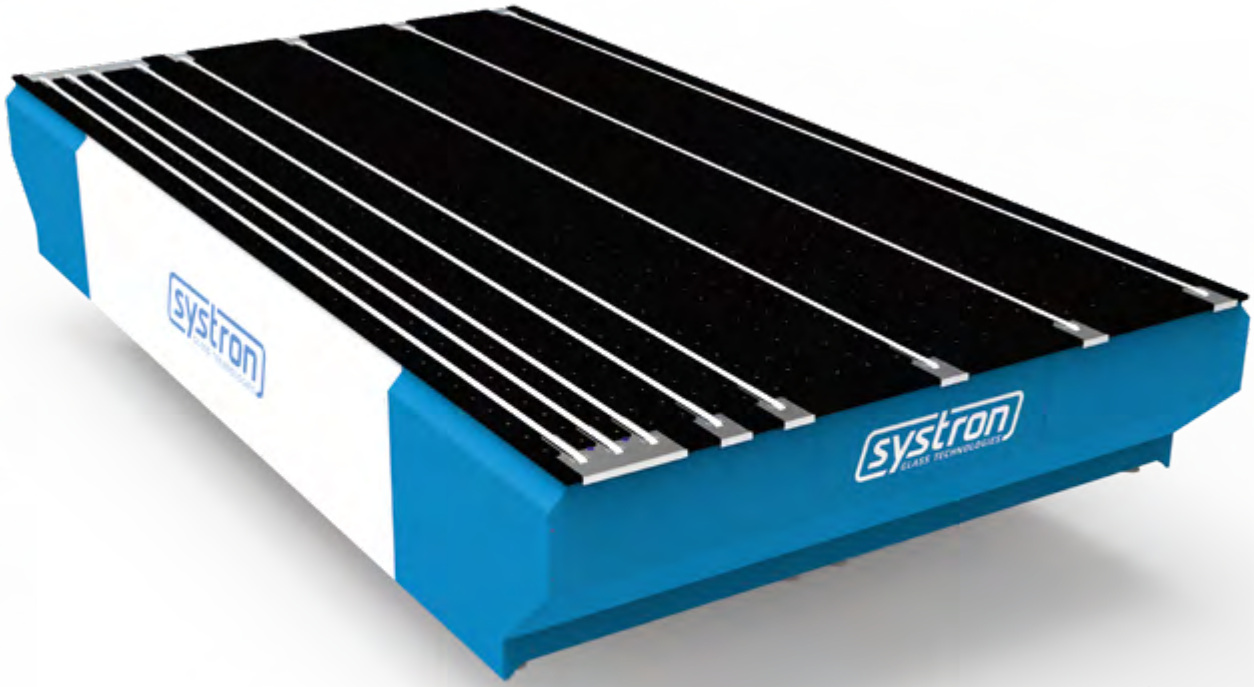


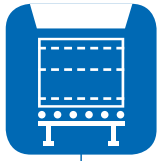
Highlights

- Indirect illumination by means of LED
- Space-saving modular design

systron
AIR CUSHION TABLE

The "systron AIR CUSHION TABLE" is a horizontal **glass transport- and manipulation table**





Transport

Highlights

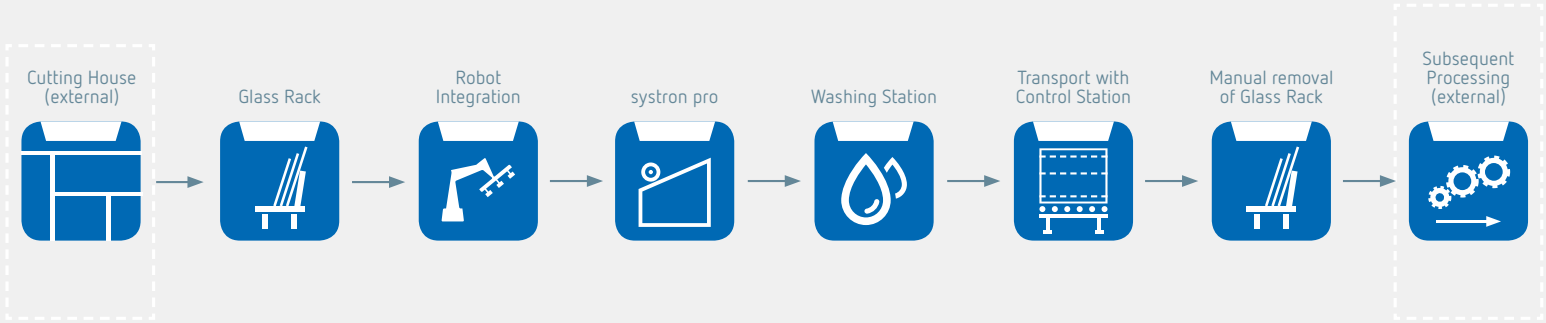
Adjustable air flow by means of frequency converter

Maximum flexibility by zone control

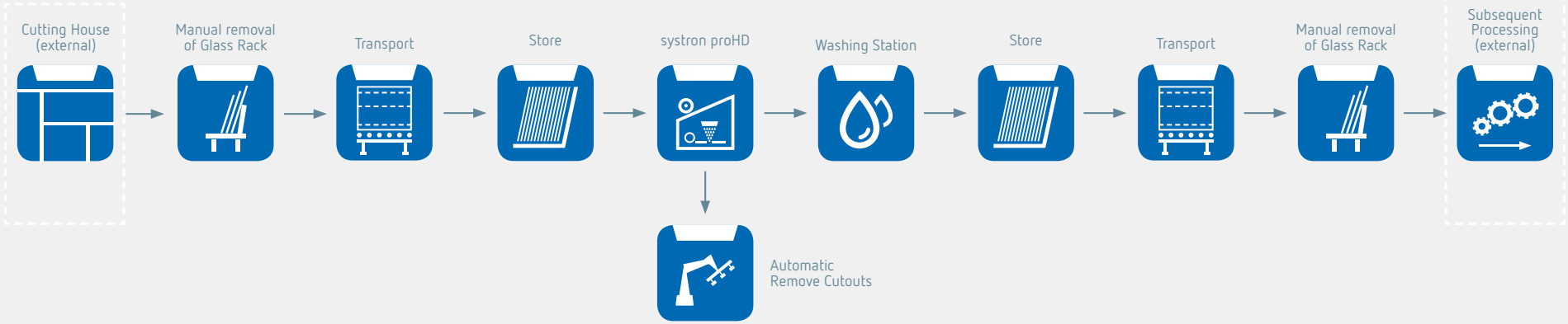
Tailored solutions: from pre-cut up till full automation

Full Automation

Automatic Loading and Unloading



Autonomous production with manual material flow

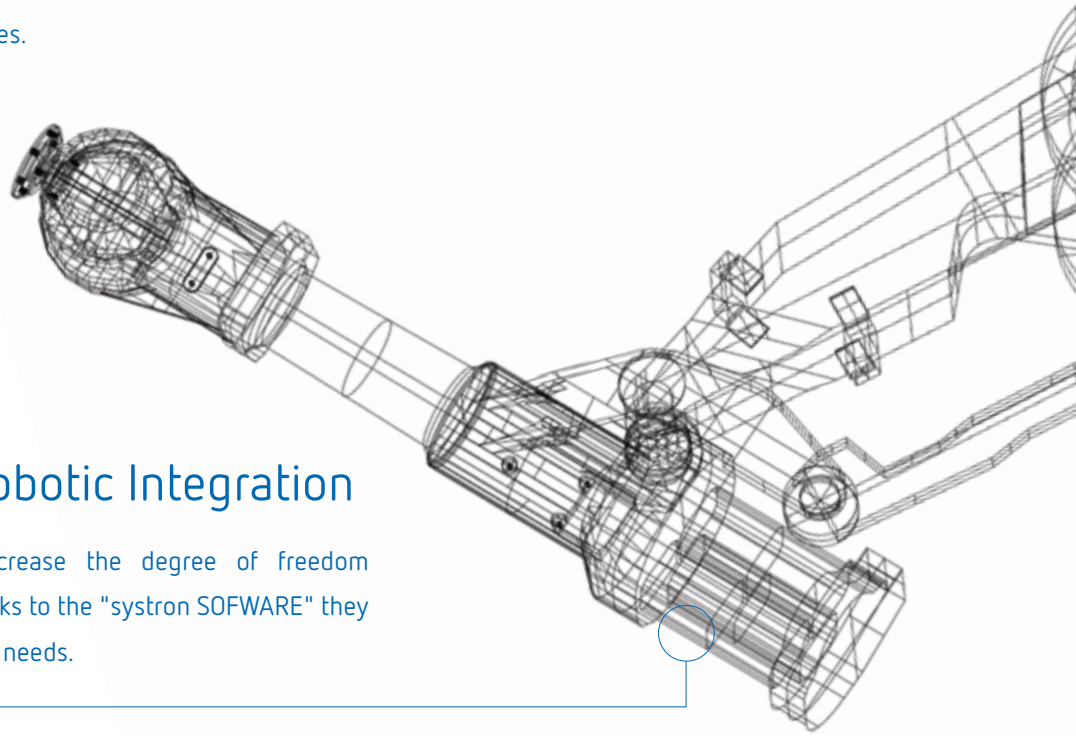


The degree of automation can be adapted individually to the needs of the production.

systron SOFTWARE

PMS – Production Management System

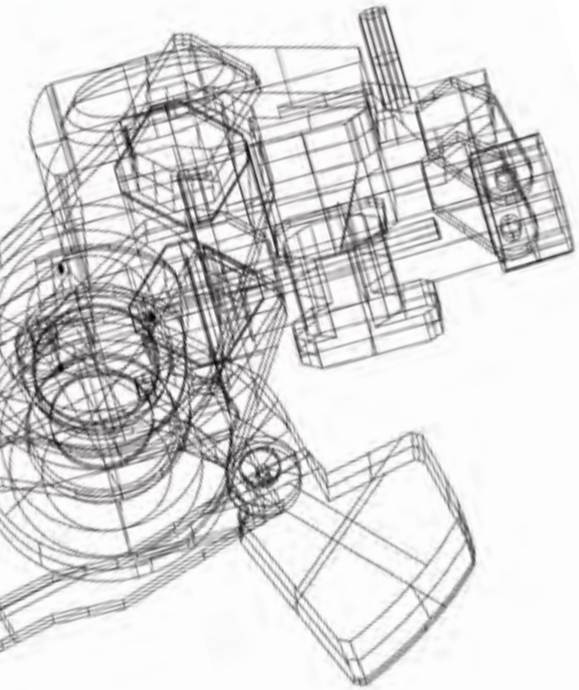
The PMS is a **production-oriented and tailor-made software** for networking systron processsing lines. The visualization of production data is **visualized live** and in **3D** from monitors in production to mobile devices.



Intégration des robots

SRI – **systron** Robotic Integration

Modern industrial robots increase the degree of freedom in factory automation and thanks to the "systron SOFWARE" they are **intelligently** adapted to all needs.



Highlights

- Individually customizable
- Fast implementation by the use of industrial standards
- Opens new standards in glass production

systron
GLASS TECHNOLOGIES

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