FORVET SPECIAL SOLUTIONS

AUTOMATIC GLASS HANDLING AND STORAGE SYSTEMS

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THE FUTURE

THE BLUE *F* SOLUTION

FORVET

FORBOT

SORTIFLEX

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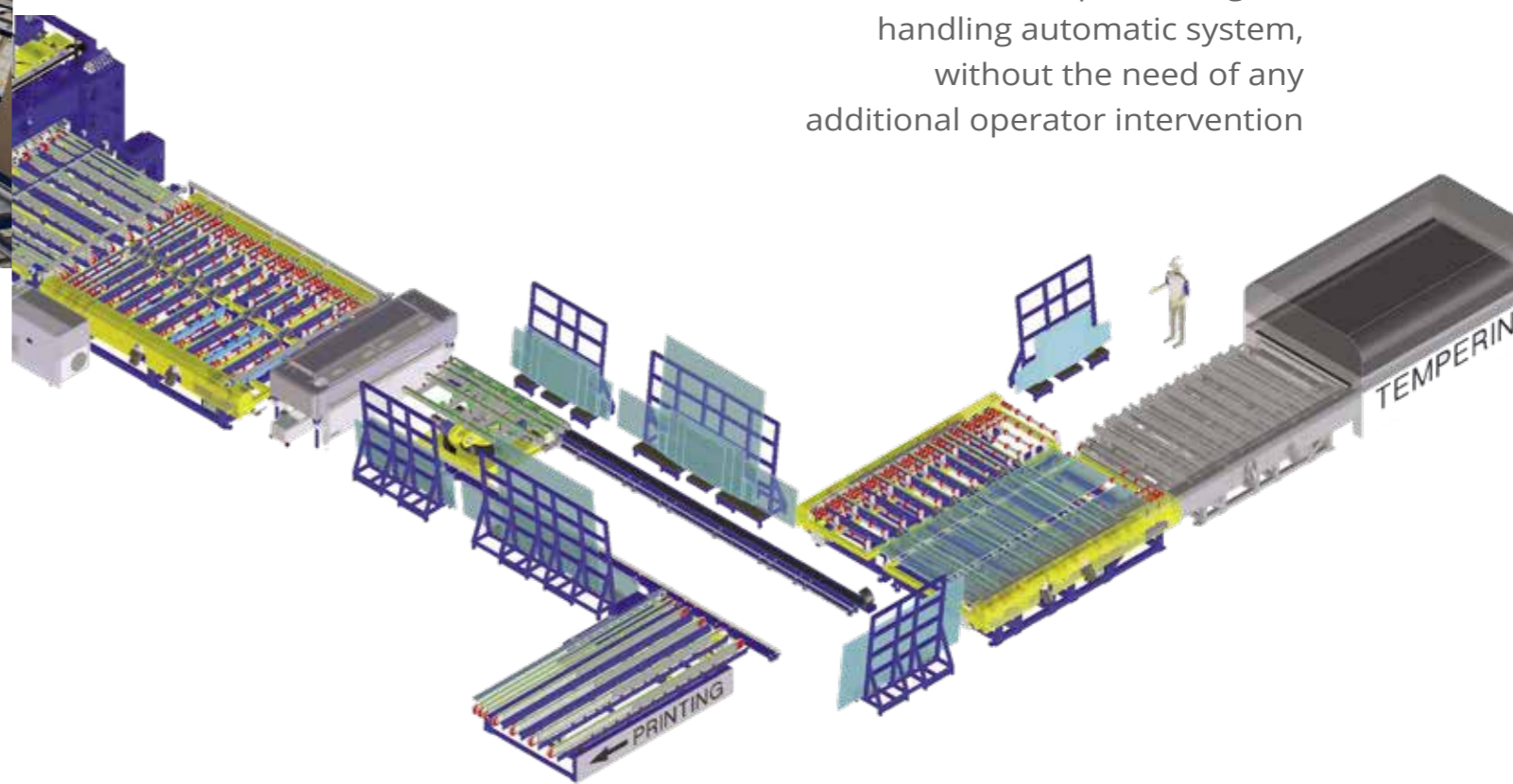
AUTOMATIC GLASS HANDLING AND STORAGE SYSTEMS

FORBOT

DYNAMIC SORTING AND LOADING/UNLOADING SYSTEM

FORBOT is a patented glass handling automatic system, without the need of any additional operator intervention

✓ It creates an automatic connection between the working zone (grinding, drilling and milling), and the following processes (tempering, printing, etc)

✓ It temporarily disjoins the upstream and downstream zones, managing a buffer of configurable dimension

✓ It optimizes the glass sheet load on the tempering oven

✓ It selects the glass located on the rack and insert it on the following work-bench

✓ Completely automatic system

✓ Optimized cycle times

✓ Breaking risk reduction VS manual handling

Technical data

Horizontal glass transport minimum height	885 mm
Glass dimension with standard structure	
Load/unload both sides	1500x3050x19mm max.
Maximum weight	220 Kg
Translation speed axis	60 m/min
Cycle time (glass to glass rack included)	< 30 s

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SORTIFLEX

AUTOMATIC GLASS HANDLING AND STORAGE SYSTEMS

- ✓ The **Sortiflex** is the Forvet answer to glass flow sequencing control and optimization requirements.

- ✓ It has been designed to meet the flexibility requirements of various processes thus it can works within Forvet machineries or integrated with all the other major equipment in flat glass field

- ✓ It works as temporal buffer to optimize glass flows from different origin toward single output, or as single origin toward multiple outputs.

- ✓ The patented double decks storage area improve, by doubling, the number of available slots in the same foot print thus increasing the storage area without requesting more factory floor space.

- ✓ The extremely fast and reliable cycle time, allows various processes to be directly linked in full automatic mode.

- ✓ It can process Low E glass

- ✓ As option, the storage system can be equipped with metal sheet among all the slots to avoid glass fragments diffusion in case of glass breakage after tempering

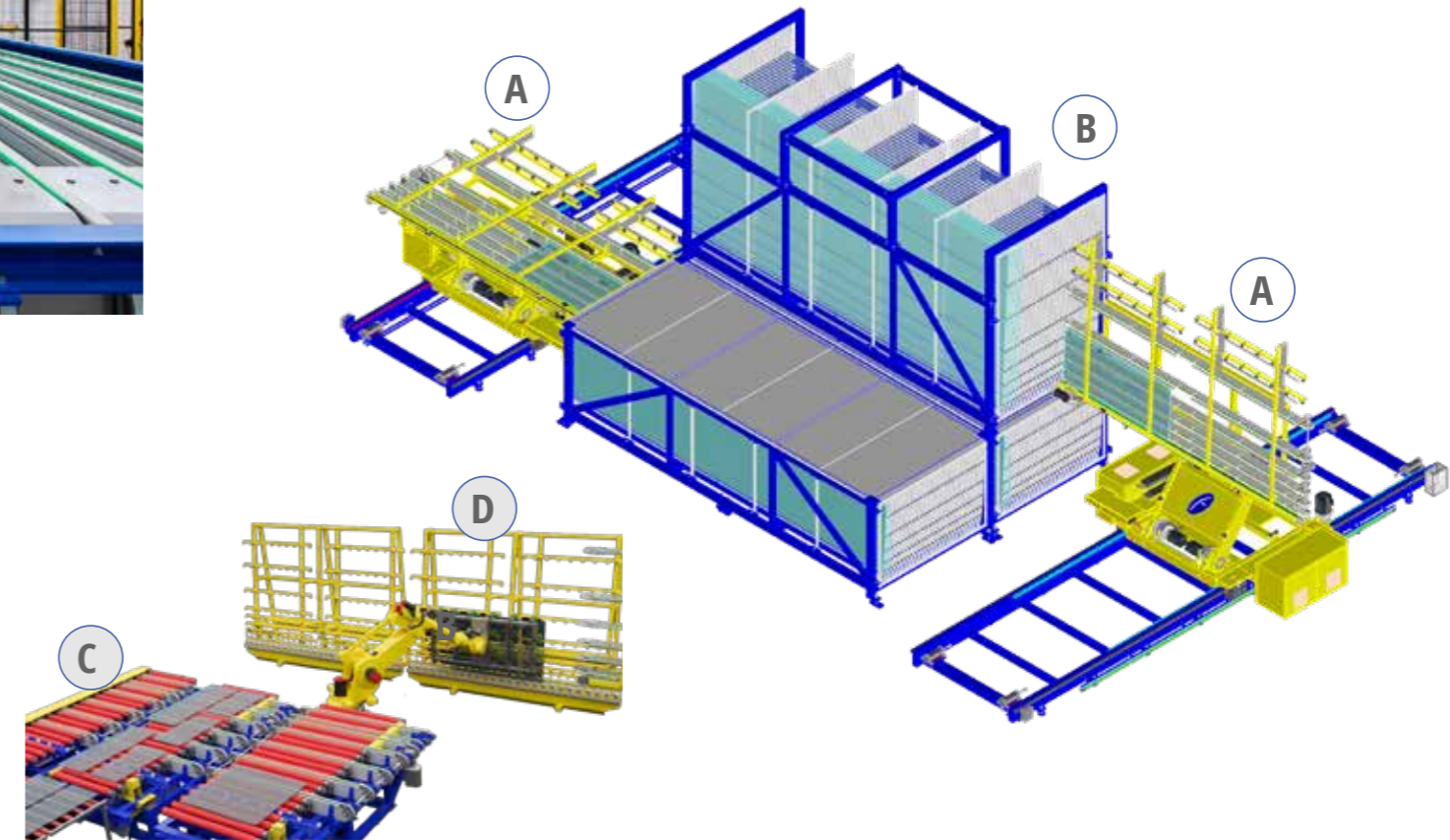**Sortiflex** can works only with Forvet Navetta 45 system

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SORTIFLEX

Technical data	Storage for h=1100 mm / 2500 mm glass	
	H= 1100mm	**H= 2500mm**
Storage overall dimensions	6000 x 2310 x 1730 mm	6000 x 2310 x 2970 mm
Maximum slot length	5900 mm	
Maximum glass dimension (X)	as per NAVETTA size	
Minimum glass dimension	400 x 200 mm	
Number of slots	30	
Single storage max capacity	5000 kg	10000 kg
Maximum glass thickness	15 mm	

Navetta 45	
Maximum glass dimension	3500/4500 x 2500 mm
Minimum glass dimension	400 x 200 mm
Maximum NAVETTA speed on running ways (Y axis)	200 m/sec
Horizontal/Vertical transport capabilities	
Loading/Unloading capabilities	

The SORTIFLEX could be composed by:

A. NAVETTA 45: loading and unloading shuttles

B. STORAGE UNITS: single or double decks storage area

C. Furnace pre bed optimization

D. Turning robots to cope with non straight direction (NO LOW-E)

E. SORTING optimization software

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FORBOT

Main differences between FORBOT and SORTIFLEX

	FORBOT	SORTIFLEX
Max glass dimension	3000x1500 mm	2500x4500 mm
Glass transport (in a row)	Single glass	Multiple glass
	Horizontal	Horizontal and vertical
Transportation belt speed	30 m/min	60 m /min
Translation speed axis	Up to 60 m/min	Up to 180 m/min
Storage system	"L"- racks	Multi slots – floors - storages
Optimization	During racks unloading	During storage loading and unloading
Selectivity	Low - medium	High
Glass mix (tks, dim …)	Low - medium	High
Furnace pre bed optimization	Transfer tables (bidirectional)	Special table with independent belts drivers

SORTIFLEX

Logic will get you from A to B.

IMAGINATION

will take you everywhere.

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