

Vertical edge processing

- seaming of outer contours
- grinding of outer contours
- polishing of outer contours





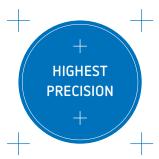
systron pro

3525 / 5027 / 6033



Vertical glass processing in perfection!





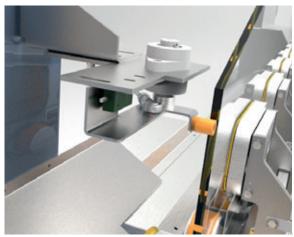
- Seaming of outer contours
- Grinding of outer contours
- Polishing of outer contours
- EXACT DIMENSIONS GUARANTEED

systron sets new standards

- Minimal machining tolerances, max. +/- 0.2 mm on the entire product size
- Hardly any machining restrictions on contours and special shapes
- No set-up times between different glass thicknesses and types (only tool change)
- Very rigid, vibration-free construction allows highest processing quality also at oblique edges or radii
- Seaming: Corner dubbing at maximum speed
- No mechanical touch during processing coated glass, therefore perfect for low-E glass
- All components come exclusively from premium manufacturers.

Highlights

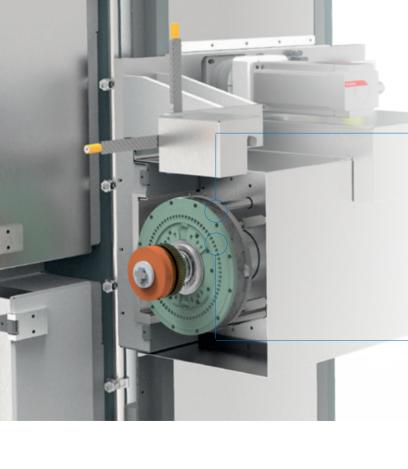
- Constant polishing quality by precisely controlled spindle torque monitoring
- Vibration-free machining prevents chipping
- Arris parallelism guaranteed by **patented**water-cushion guidance
- High pressure tool cooling over the entire tool circumference
- Automatic positioning of the glass sheets, also for special shapes
- Continuously protected suction cups
- No mechanical contact at machining coated glass surfaces
- Intuitive graphical machine interface enables easy operation of the system



Automatic glass measurement



High quality spindle from HSD



Processing spindle

Optimal grinding and polishing image

- 4) 3 tools per tool holder (depending on glass thickness)
 - for all kinds of processing

• with ample power reserves

• 100 diameter tools

Water cushion

- Patented process
- + Follows the glass surface

Massive vibration-free machine construction

A massive machine base frame and high-resolution servo axes are the basis for a very high-quality machining and polishing quality, which is guaranteed even after years of shift production. The integrated, modular design of the machine bed enables adaptation of the system for all production needs

Features

Chain magazine for 7 tool holders - up to 21 tools

- Storage of the tools **outside the wet area**
- Fast exchange times
- Tool package width up to 62 mm



Optional: Big Tool Storage and Changer - up to 60 tools

- 20 positions chain magazine for up to 60 tools
- A pneumatically operated slide separates the tool store from the wet area
- 2 tool changers can be mounted on the Y-axis = 40 positions (à 3 tools/position = 120 tools)





Clamping beam equipped with suction cups

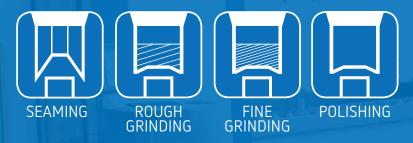
The X-axis is equipped with integrated tiltable suction cups. Only the required ones will be tilted out of the protected area.



EASY MODE (Option)

There is a separate operating mode where **rectangular** glass can be easily processed. With this EASY MODE, the length, height and thickness of the glass is **measured and** processed fully automatically.

The removals for Seaming, Grinding and Polishing must be defined once in the system. After measuring the glass, a dxf file with the respective processing data is automatically generated and the glass is processed according to the settings without operator influence.







Tool Measurement and Sharpening System

Every tool is measured automatically in certain intervals, set by the operator.

The determined tool wear will be corrected by taking over the actual tool diameter.

To ensure a constant material removal the tools will be sharpened (rectified) regularly.

Profiling and Dressing Device for Polishing Tools

Allows the use of flat polishing wheels, thus reducing storage costs.

Profile is be made according to glass thickness.

Profile remainders will be removed automatically by the dressing device.

Sharpening/profiling of the tools with almost NO loss of cycle time (during pick-up & move-out of the glass pane)

Software Option - Statstics presentation and evaluation of production data



This software option includes the installation and configuration of the software for the statistics of the production data per time unit.

The dashboard contains a general overview as well as statistics per glass thickness with a variety of parameters, as for example:

» Produced glass (m²)

» Produced grinding metres divided to - Rough grinding

» Number of units produced

- Fine grinding

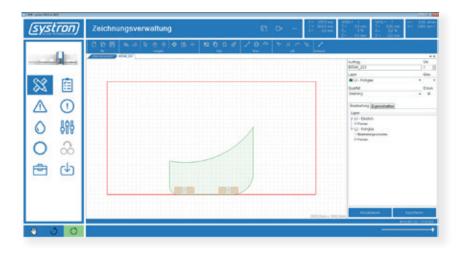
» Time allocation

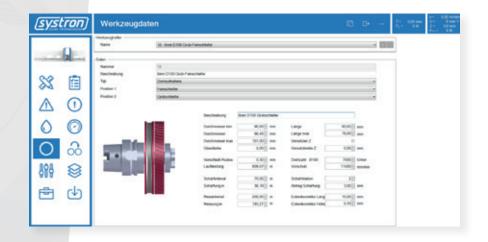
- Polishing

Control & Software

CAD-Software

The shape catalogue integrated in the CAD-Program allows you to quickly create production drawings, complex shapes can be transferred directly via DXF import. In order to better control the position of the vacuum cups and the orbits of the individual processing steps, those are displayed in advance.



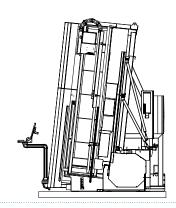


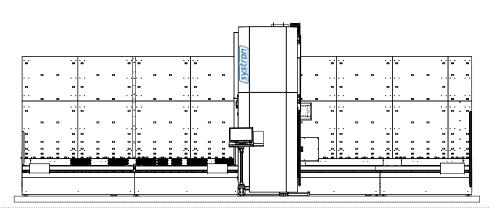
Machine control system

The intuitive machine software is clearly displayed on a multi-touch panel. A new operating concept allows fast and accurate axis positioning in manual mode. Example tool data: After entering the data of the tool holder, the build-up of the tool cone will be displayed graphically. The associated adjustment parameters are displayed clearly in one screen.

Technical data

		pro 3525	pro 5027	pro 6033
General technical data				
Max. glass size	mm	3500 x 2500	5000 x 2700	6000 x 3300
Min. glass size	mm	600 x 200	600 x 200	600 x 200
Max. sheet weight (for glass transport)	kg/m	200	200	200
Glass thickness	mm	4 – 25	4 – 25	4 – 25
Glass transport height	mm	780	780	780
Sheet inclination	degrees	6°	6°	6°
Max. grinding speed	m/min.	25	25	25
Automatic central lubrication			<u> </u>	 ✓
Automatic tool measurement			<u> </u>	✓
Automatic tool dressing device		ď	✓	✓
Automatic profiling device for polishing wheels			<u></u> ✓	ゼ
Dimensions				
Machine length	mm	8375	11270	13665
Machine height	mm	4290	4490	5090





☑ standard ○ option Bigger sizes on request





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