



*Vertical glass processing with  
integrated waterjet technology*



***sys tron proHD***

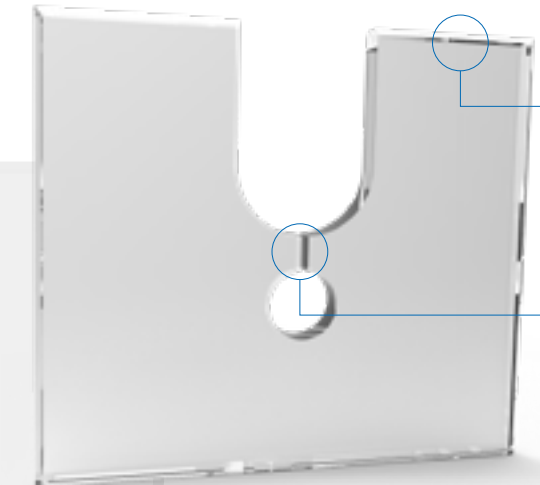
*3525 / 5027 / 6033*





The systron proHD is a vertical glass processing centre with integrated waterjet technology. The machining of contours and cut-outs can be performed with the highest precision and shortest cycle time due to the solid construction and the use of our patented systems. A barrier-free design enables the operator an easy access to all machine components, also having an ergonomically working position.

# All in one! This is exactly what we can do for you!



Vertical glass processing in perfection

The most difficult tasks will be carried out easily

- grinding of inner and outer contours
- polishing of inner and outer contours
- holes and cutouts by means of water jet technology
- double-sided deep counter sinking by means of the helix method

## Systron introduces new standards

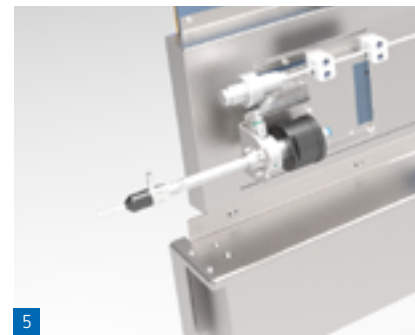
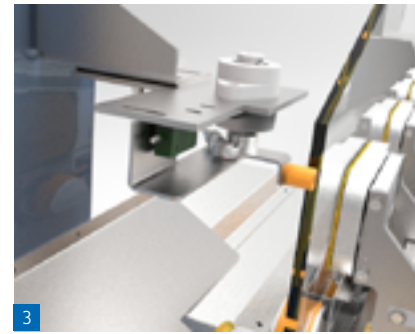
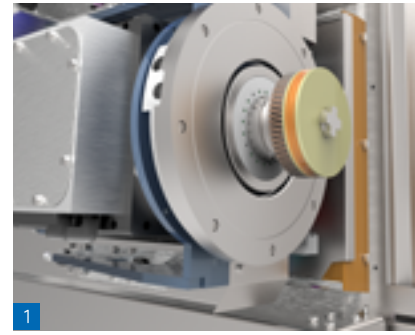
- + Clamping once for all interior and exterior machining
- + Minimal machining tolerances, max. +/- 0.2 mm on the entire product size
- + No machining restrictions on contours and special shapes
- + No set-up times between different glass thicknesses and types
- + Very rigid, vibration-free construction allows highest processing quality also at oblique edges or radii





## Highlights

- + **Constant polishing quality by precisely controlled polishing pressure**
- + **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**
- + **Low maintenance costs of the high pressure unit by new / patented systems**
- + **continuously protected suction cups**
- + **no mechanical contact at machining coated glass surfaces**
- + **intuitive graphical machine interface enables easy operation of the system**

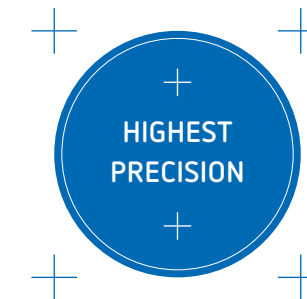


1. High performance spindle
2. Transport system, by means of suction cups
3. Automatic glass measurement
4. 50-fold tool exchanger
5. Waterjet cutting head

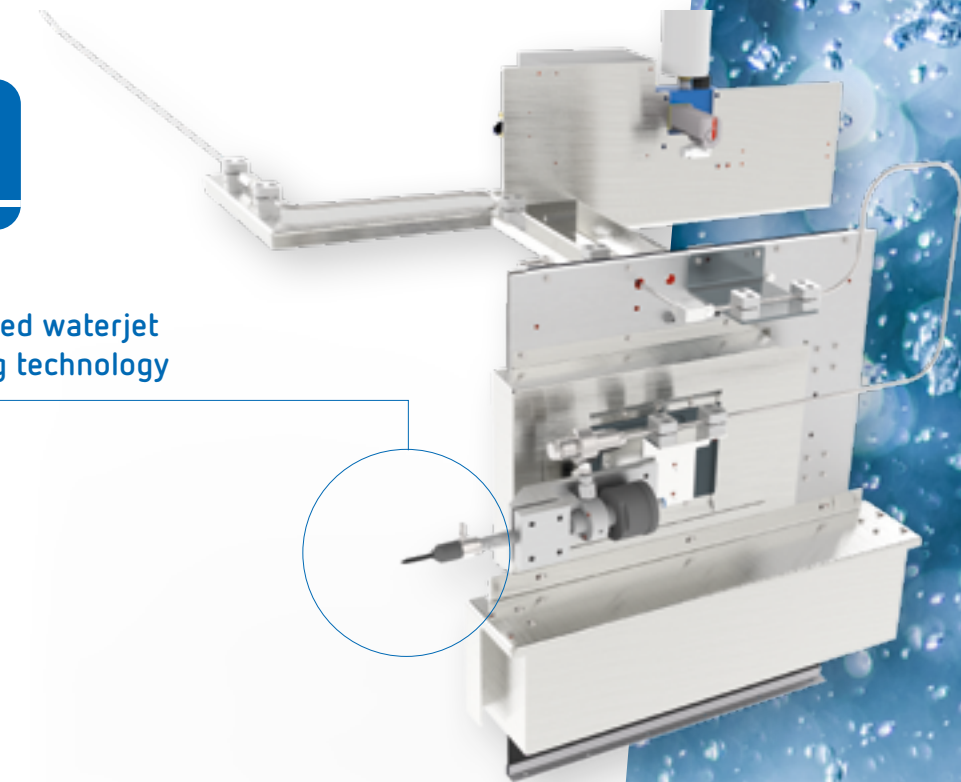
## Patented waterjet cutting technology



An up to 4000 bar strong water jet allows extremely fast cutting of all inner- and outer contours with even complex geometries with highest precision.



Patented waterjet cutting technology



The waterjet technology enables shortest cycle times. High quality waterjet cut contours can be toughened without post-processing. A reduction of production time up to 50% is possible.

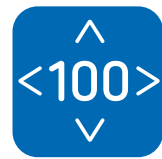
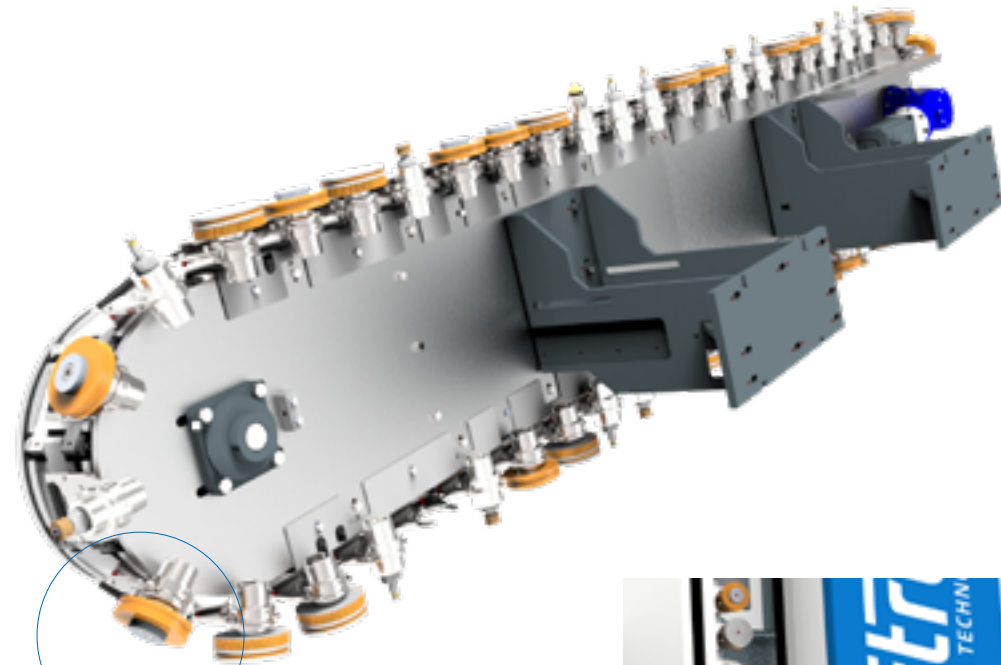
## Highlights

### Chain magazine for 50 tool holders - up to 100 tools

+ Tool exchange times  
below 7 seconds

+ Storage of the tools  
outside the wet area

+ clear view at the tool magazine  
due to a glass front

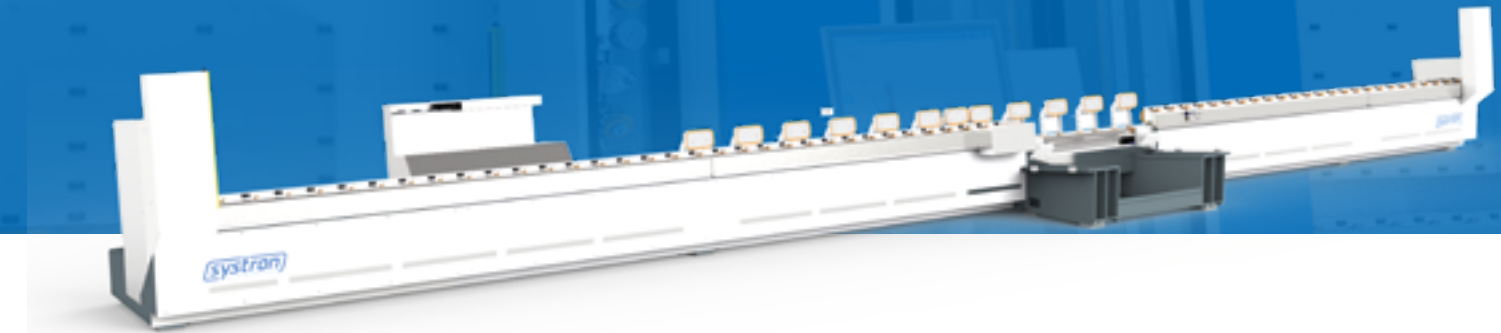


Up to 100 tools



### 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



### All processing steps performed with one machine in one clamping

- + Cutouts and holes all performed by waterjet
- + Inner and outer contours ground and polished

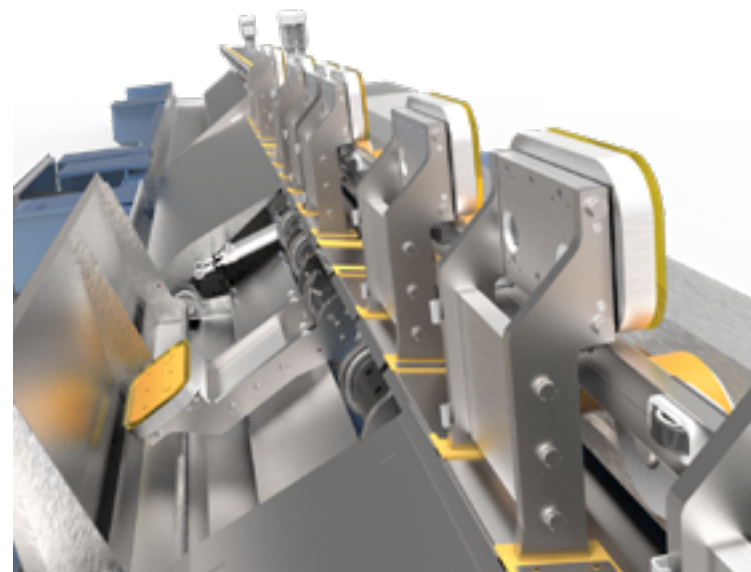




## Features

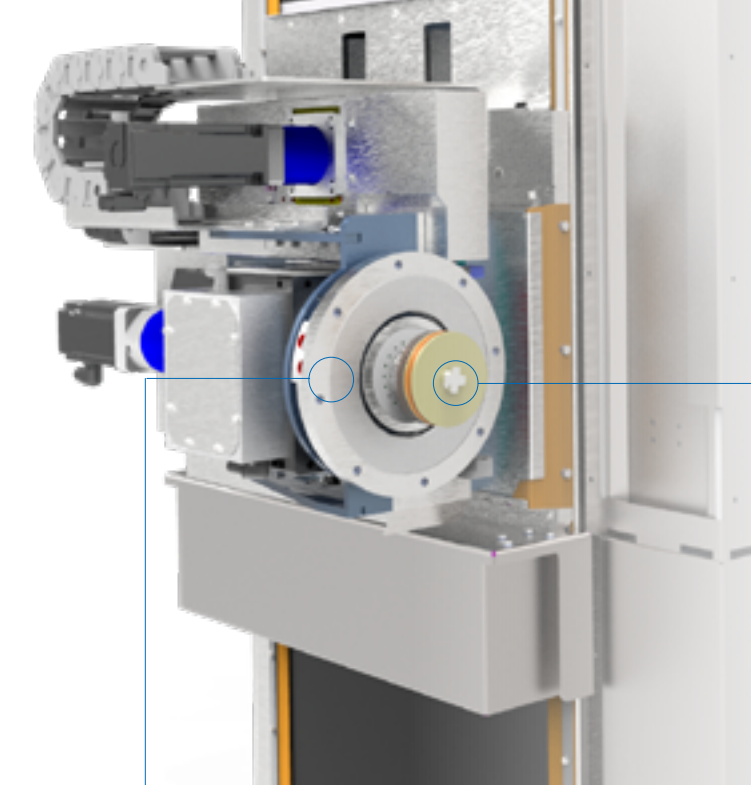
### Processing cabin

An optimal observation of the machining processes given by the spacious and easy-to-view processing cabin



### 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.



### processing spindle

Optimal grinding and polishing pattern

- + 2 tools per tool holder
- + with ample power reserves for all kinds of processing

### Water cushion

- + patented process
- + follows the glass surface

### High pressure aggregate

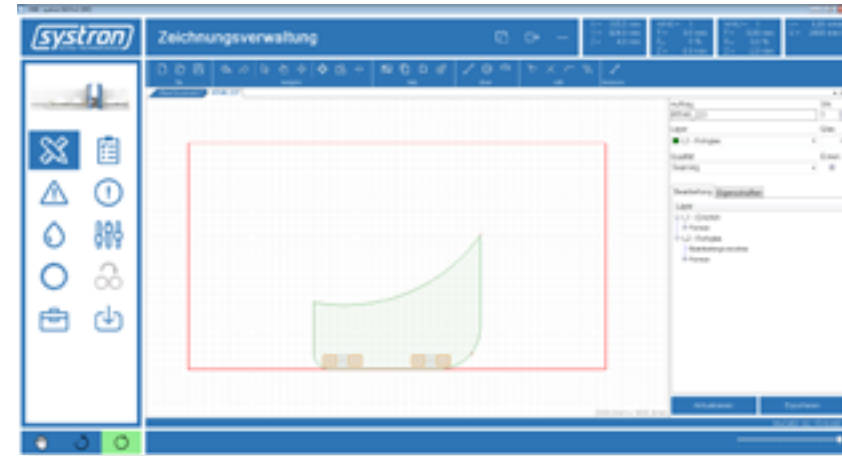
- + 4000 bar
- + new technology



## 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.

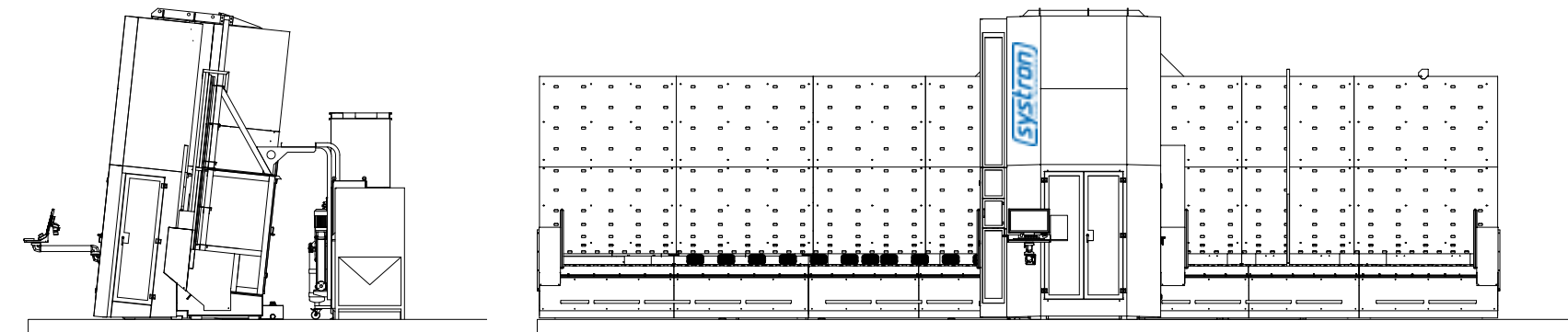
### Technical data

		Pro HD 3525	Pro HD 5027	Pro HD 6033
<b>general technical data</b>				
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	kg/m	200	200	200
glass thickness	mm	3 – 25	3 – 25	3 – 25
glass transport height	mm	760	760	760
sheet inclination	degrees	6°	6°	6°
max. grinding speed	m/min.	25	25	25
automatic central lubrication		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
automatic tool measurement		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
automatic tool dressing device		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
automatic profiling device for polishing wheels		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### dimensions

machine length	mm	10625	13820	15915
machine height	mm	4290	4490	5090

standard  option







**systemon**  
GLASS TECHNOLOGIES

systemon GmbH . Pfarrwald 47 . 3354 Wolfsbach . Austria  
+43 7477 44152 . office@systemon.at . www.systemon.at