

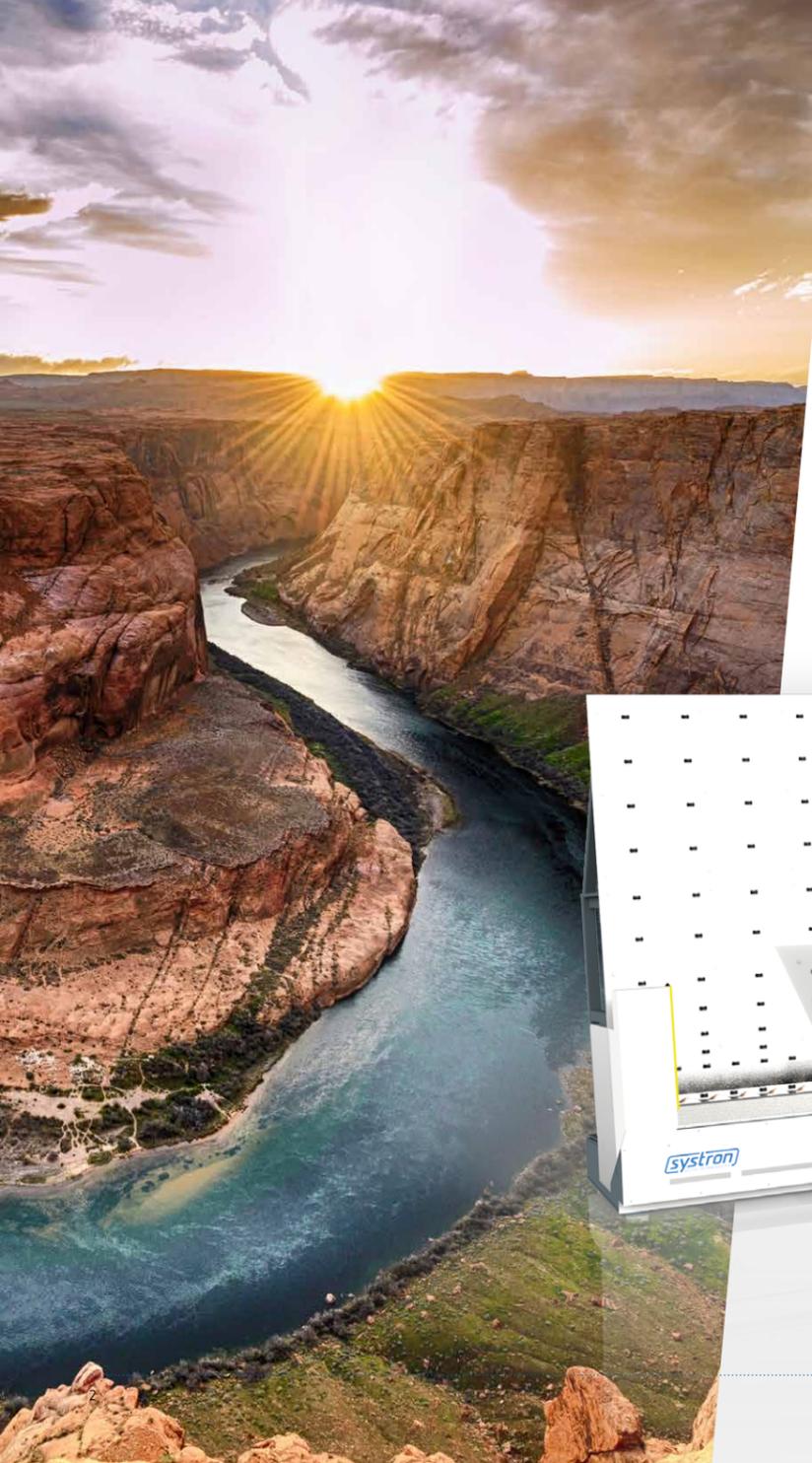


*Vertical glass processing with  
integrated waterjet technology*



**sys tron proHD**

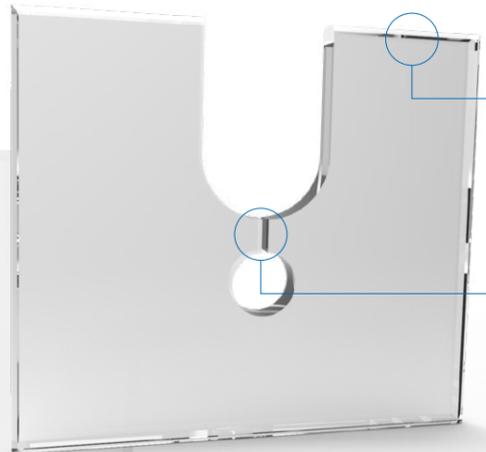
3525 / 5027 / 6033



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

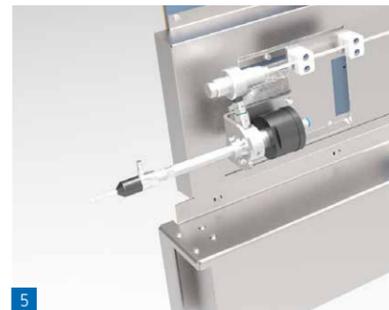
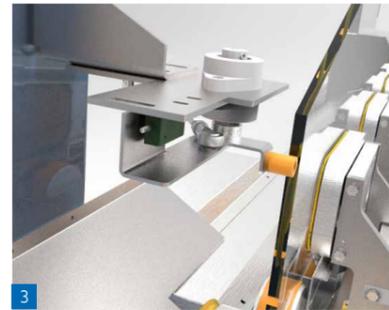
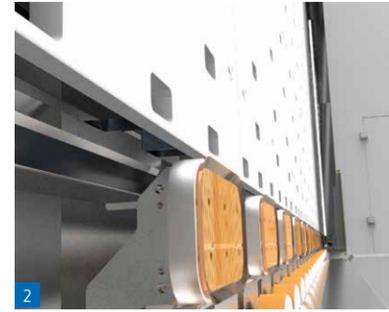
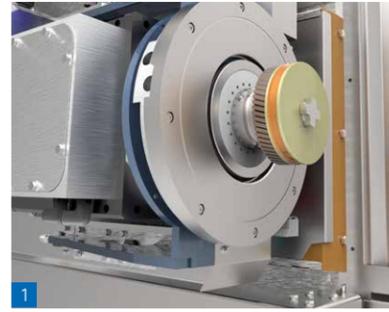
## systron introduces new standards

- + 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**

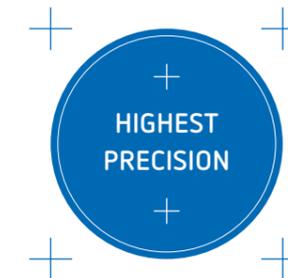


1. High performance spindle
2. Transport system, by means of suction cups
3. Automatic glass measurement
4. 50-fold tool exchanger
5. Waterjet cutting head

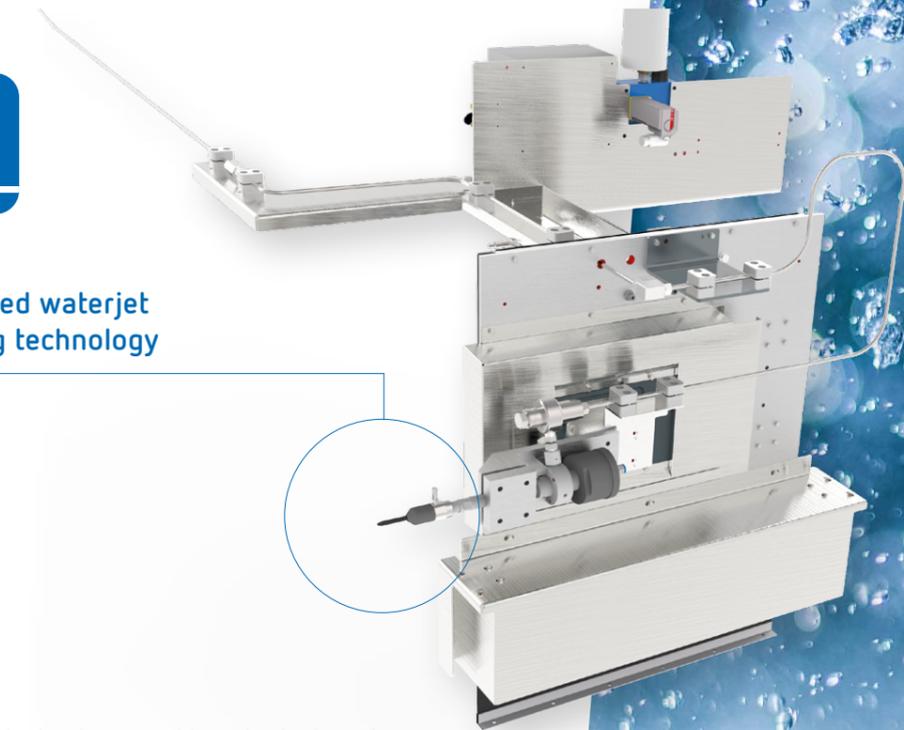
## Patented waterjet cutting technology



Up to 4000 bar pressure waterjet allows extremely fast cutting of all inner- and outer contours with even complex geometries with highest precision.



Patented waterjet cutting technology

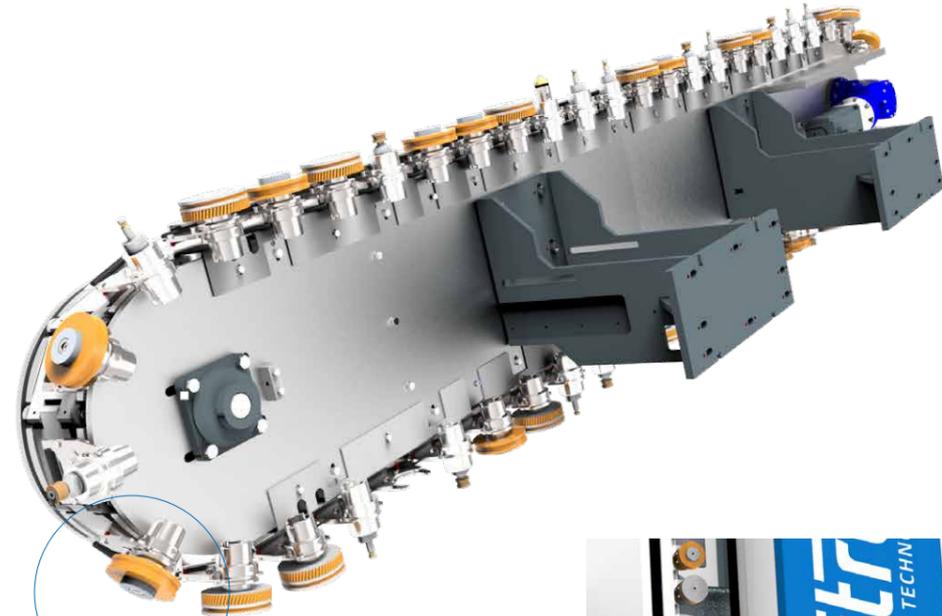


The waterjet technology enables shortest cycle times. High quality waterjet cut contours can be toughened without post-processing. A reduction of production time up to 50% is possible.

## 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

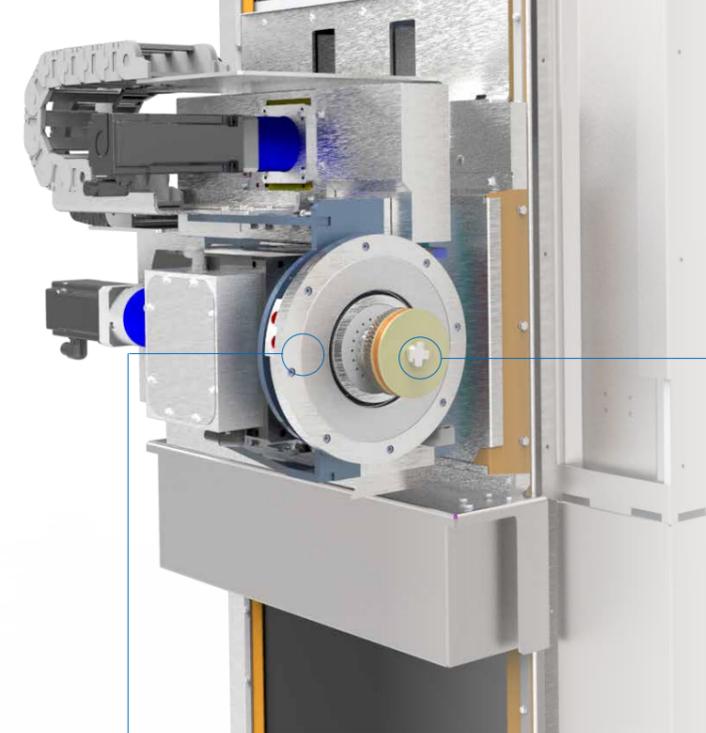
### Processing cabin

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

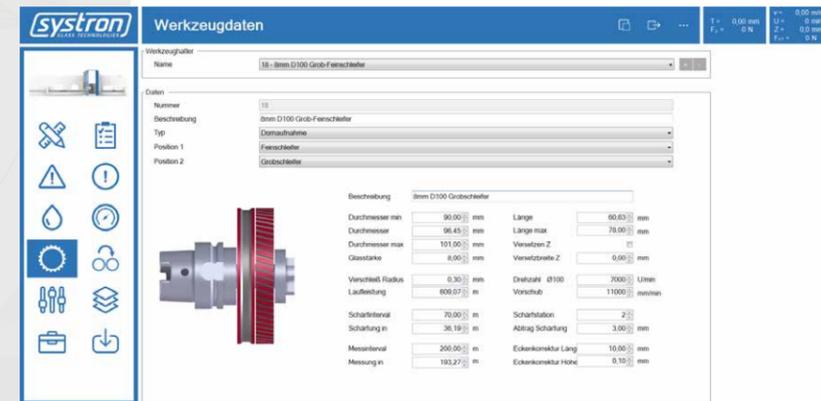
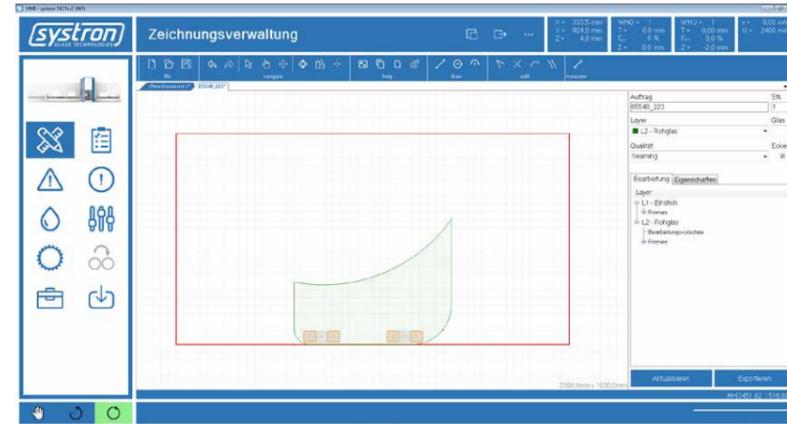
- + 4000 bar
- + New technology



## 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.

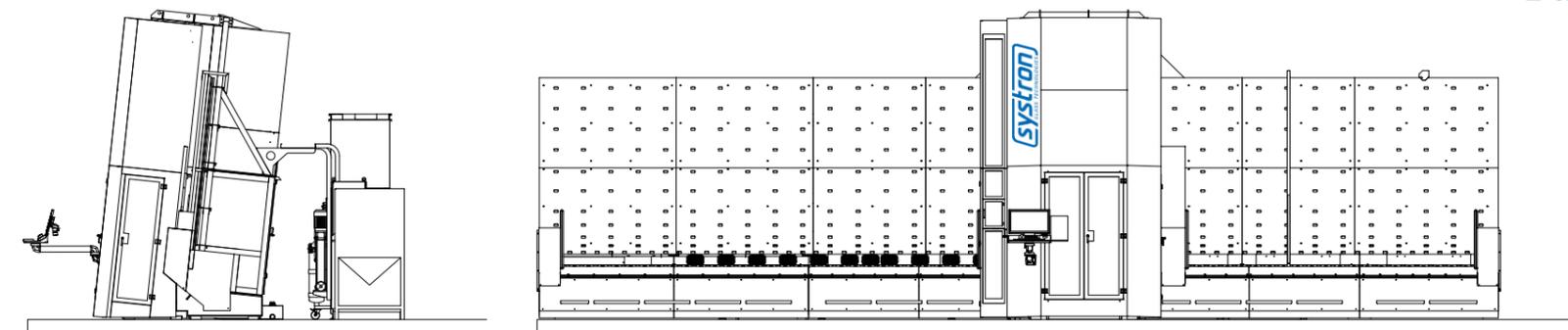
### Technical data

|   |         | proHD 3525                          | proHD 5027                          | proHD 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





**systron**  
GLASS TECHNOLOGIES

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