



EXPOGLASS

SOLUTIONS FOR GLAZIERS

www.expoglass.pl/en

About the Company



Expoglass

For a long time we have also been involved in glass processing, and therefore we have extensive knowledge in this field. These experiences allow us to create devices tailored to the needs of our market.

Knowing the needs of our clients, we focus on functional products that are easy to use and durable.

The entire design and production process takes place in Poland, based on subassemblies of Polish and western producers. This allows us to control and maintain the appropriate quality of products. This approach makes our products excellent solutions for our clients problems, making the glass processing faster, easier and safer.

History



17.03.2014

Establishment of Expoglass, dealing in glass processing



24.06.2014

Production and sale of the first machine for an external customer



10.03.2016

Bringing to the final version of projects: glass racking systems and glass cutting tables



18.11.2016

Debut at GLASS 2017 fairs in Poznan



30.10.2017

Beginning the work of the Expoglass drilling machine in one of the polish customer's plant



23.10.2018

Presentation of the Priam glass drilling machine at Glasstec 2018 Messe Düsseldorf

12.04.2014

Creating the first machine for our own needs



04.11.2015

The end of glass processing and the transformation of production completely towards the construction of machines



11.03.2016

The steady increase in sales of glass cutting tables and glass racking systems



20.08.2017

Completing and refining the project of the prototype of an automatic two-spindle drilling machine for glass, 2 prototypes ready to work



19.11.2017

Presentation of the second copy of the glass drilling machine - Expoglass Priam at GLASS 2018

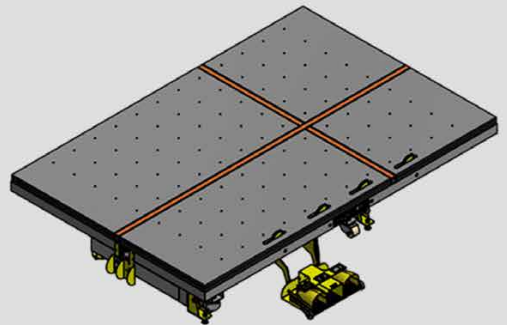
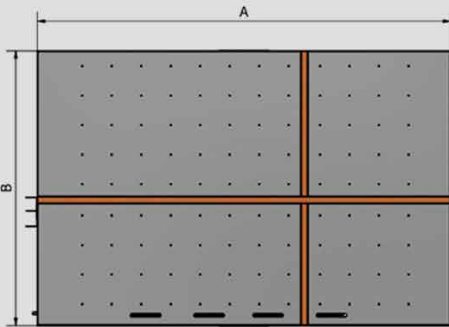
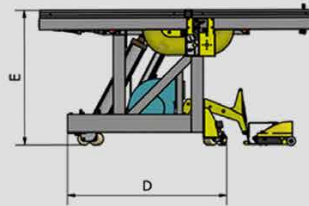
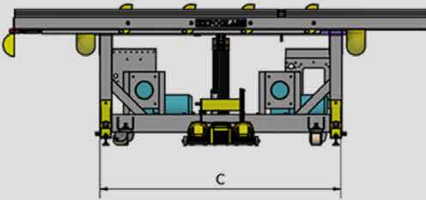


GOAL

MANUFACTURING MACHINES WHICH
MAKE YOUR WORK:

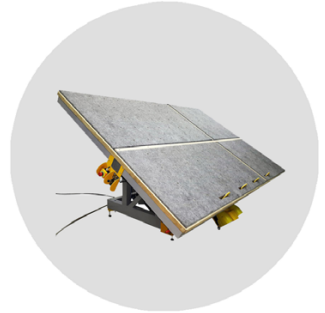
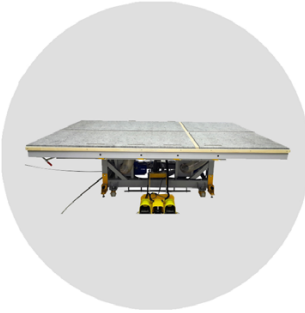
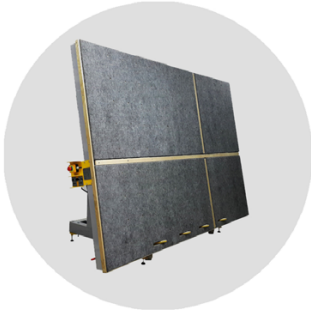
- FASTER
- EASIER
- SAFER

Glass cutting tables



Dimension	A	B	C	D	E
SDRM	2800	1860	1640	920	1070
SDRD	3400	2400	2240		1380
SDRXL	3400	2600			

Glass cutting tables



The purpose of use

Expoglass glass cutting table is a machine which makes operation of glass cutting: easier, faster and safer. Usually it also reduces the number of necessary operators during the glass cutting process. The main three features which helps in glass cutting are: tilted top, breaking bars and air cushion system.

Loading the glass

The basic function of all glass cutting tables is to enable safe and convenient glass loading. Glass sheets, should be handled in a vertical orientation, otherwise they could break under their own weight. In our tables, in order to be able to put the sheets on the table safely and comfortably, it is enough to pull out the loading cantilevers from the table top, tilt the table top to an inclined position and place the panes on the brackets.

Breaking the glass

Breaking bars greatly improve the glass breaking process. After scoring the glass, it is enough to set the surface in such a way that the score is located above the bar and press the pedal under the table. Pressing the pedal causes the breaking bar to lift, pushing from the bottom along the score on the glass and the material breaks under its own weight. Depending on the orientation in which we cut the glass, we can use breakers - longitudinal or transversal.

Manipulating large and / or heavy panels

While manipulating large and / or thick glass sheets, large friction is generated on the worktop surface. This phenomenon makes it difficult for the operator to work, and in some cases may unable the operator to operate alone. An additional risk is scratching of the glass at the moment when there are pieces of glass or other dirt on the table. The occurrence of these problems can be minimized by using an aircushion system.

Glass cutting tables

Advantages of using

Safety of operation

- Safe vertical loading
- Breaking with bars
- Foot panel hiding during the tilting of the top

Higher effectiveness and reduction of the number of operators

- Fast breaking of the glass
- Efficient manipulating thanks to air cushion system

Less material loss

- Less scores on glass thanks to air cushion system
- Higher quality of edge after breaking the glass with bars
- Less risk of failure while breaking the glass



Glass cutting tables

Long-term use thanks to highest quality

- Whole production takes place in Europe
- All of the parts are high quality
- All spare parts are available

Ergonomics

- 2 x 230V industrial sockets
- Whole design process focused on our and clients' experience

Mobility

- All tables equipped with wheels
- Tables with tilted top need 1/3 less space



Glass racking systems



Expoglass racking system is the steel construction used to store plate materials, especially glass sheets.

They consist of a frame - a fixed steel structure and a group of single racks - drawers (inside the frame), which can be pulled in order to load or unload the glass. The drawers are narrow steel frames inclined at an angle of around 5 degrees with the 1cm of space between each other.

Therefore Expoglass glass racking system optimizes the storage of glass sheets and can save up to 75% of the space, comparing to conventional A type glass racks, with quick access to every single kind of stored glass.

Glass racking systems

Expoglass glass racking systems are available in various dimension versions listed below

Name	M80	M260	D80	D220	S140
Storage width per drawer [mm]	80	280	80	220	140
Max load per drawer [kg]	900	2500	1500	2500	1500
Size of stored sheets [mm]	1605 x 2550	1605 x 2550	2550 x 3210	2550 x 3210	1700 x 3210
Number of drawers*	10÷20	8÷ 12	10÷16	8÷16	8÷16

*Number of drawers can only be an even number

Example - M80-20

Number of drawers – 20

Loading width of single drawer – 80mm

Max load of single drawer – 900 kg



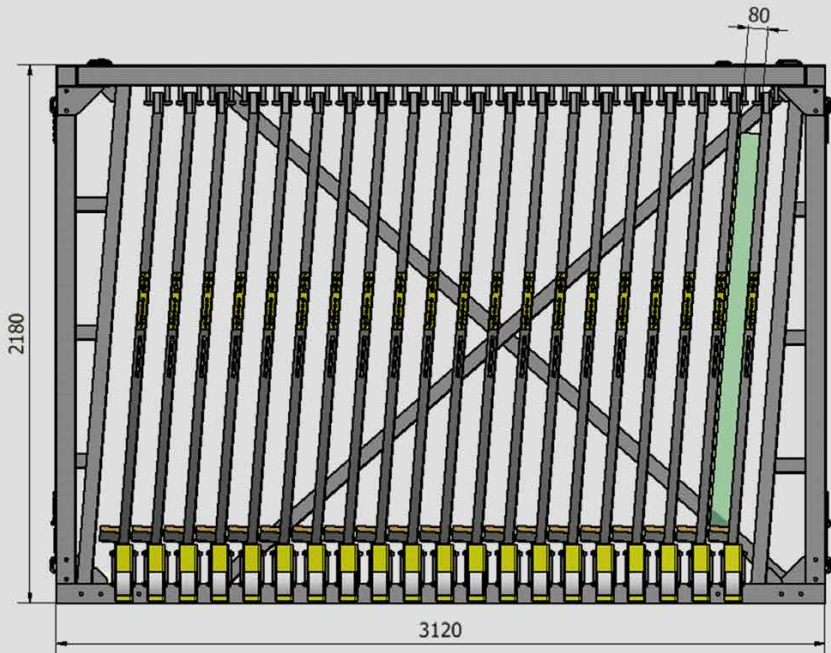
Example - M80-20

Total width – 3120 mm

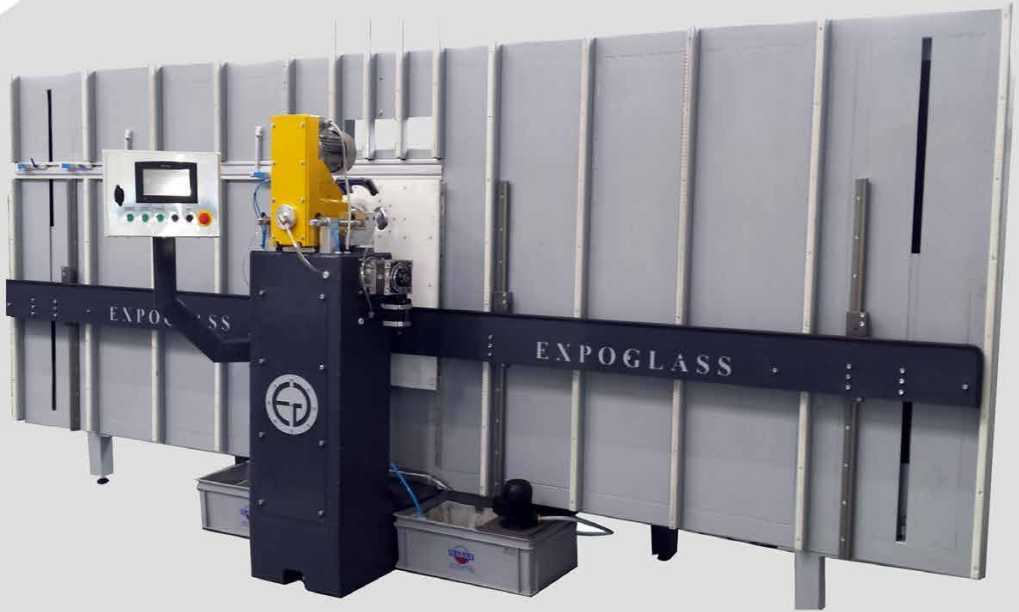
Capacity [kg] – $20 \times 900 \text{ kg} = 18\,000 \text{ kg}$

Capacity [mm] – $20 \times 80\text{mm} = 1600 \text{ mm}$

Access to any drawer at any time!



Glass drilling machines



EXPOGLASS PRIAM

The Priam is a two-spindle, vertical glass drilling machine, designed and manufactured in Poland. It is a device that was created for customers who need machine that is functional and easy to use but also very durable.

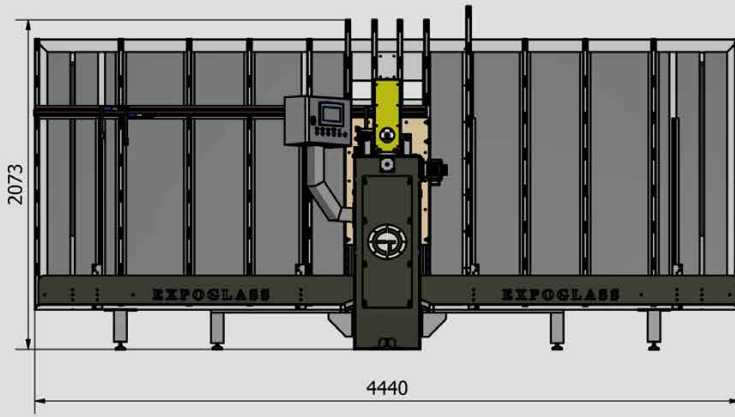
When designing the Priam glass drilling machine, we returned to the old school of mechanical engineering - machines with heavy, heat treated steel bodies built in such way that exploitation and service can be executed efficiently. Thanks to this different approach to design and production, our machine allows long-term, trouble-free glass drilling, which achieve multiple return on investment. To make sure that the elements of our machine are made with care, we manufacture them in Poland with our local cooperators. Even the main body of the machine is manufactured in our company in Nysa and then heat treated and later processed locally. As a result, all production is carried out under our careful supervision and any imperfections can be detected and eliminated before the product reaches the customer. Finally, also supporting european machning industry.

Expoglass Priam

Functionality at the highest level:

- **2 spindles (front and rear)** - allow drilling of the glass in a single pass - without turning it
- **Electronically controlled loading bar**- to set the dimension of the bottom edge of the glass to the center of the hole, simply enter the desired dimension on the touch screen - the machine will position itself to the appropriate position
- **Quick drills change mode** - after pressing the drill button, both spindles are automatically locked (you can not rotate them), the vertical table, which is between two drill bits, goes down - thus opening a large space between them. Thank to this process, normally, the drill can be unlocked without using a single key (in the worst case, only one), with a lot of space for comfortable carrying out this operation.
- **Automatic measurement of the length of drills** - after the exchange of drills, automatic calibration is performed - measuring their length so that the machine knows the distance between sheet and drill face of each drill - very important in small companies where most holes are made individually not in series
- **Automatic calculation of spindle depth** - after automatic spindle calibration, operator needs only to set on the touch screen the thickness of drilled glass. After that, machine automatically chooses the ideal values of depths and the operator's tasks will only include clicking on the button - "drilling" since the whole operation is performed automatically.
- **Electronically controlled spindle feed** - allows to significantly increase parameters of drilling. Thanks to this feature the spindle feed values can be perfectly matched to each situation and changed by a few clicks on the screen. This is illustrated, for example, by the fact that if, after drilling 15mm glass, we need 10 seconds to change settings, we can immediately drill 2mm glass without fear of cracking it. And all this without the operator's experience.
- **Automatic adjustment of RPM** - it is enough to enter on the touch screen the diameter of the drill bit and machine will automatically select a specific speed of rotation
- **Drilling in a closed chamber** - the Expoglass drilling machine has a separate drilling spindle not mounted directly on the electric motor. Which translates into several important advantages:
 - Easier service
 - High rigidity of the system
 - Minimized vibrations
 - Increased security
 - Improved cooling capabilities
 - Reduced splashing of water and thus extended life of the machine
- **Massive, ribbed body, subjected to heat and mechanical treatment** - even the most precise systems and mechanisms lose their sense on a flaccid body that deforms during operation. Due to the highly oversized body, the Expoglass drill has very low vibrations and deformations during operation, which makes it an extremely vital machine and can work on high parameters with close to zero risk of material breaking.

Glass drilling machines



Glass drilling machines



Hole in 2mm thick glass was made after 10 seconds of changing the parameters from 8mm glass drilling, which was executed before.

Achieved goal

Nowadays more and more companies encounter difficulties due to high employees rotation and also because of lack of qualified employees. Finding a solution for this problem was our main purpose while designing the Expoglass Priam. Most of the difficult operations are performed automatically so the operator does not need to acquire any special skills. For example he needs to type in the glass thickness and then machine drills to the right depth with precision of around 0,1 mm automatically. All of this makes Priam easy to use and there is no need to make training longer than half an hour. After such training operator should be able to drill all varieties of glass.

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