



GLASS CUTTING
AUTOMATIC MACHINE

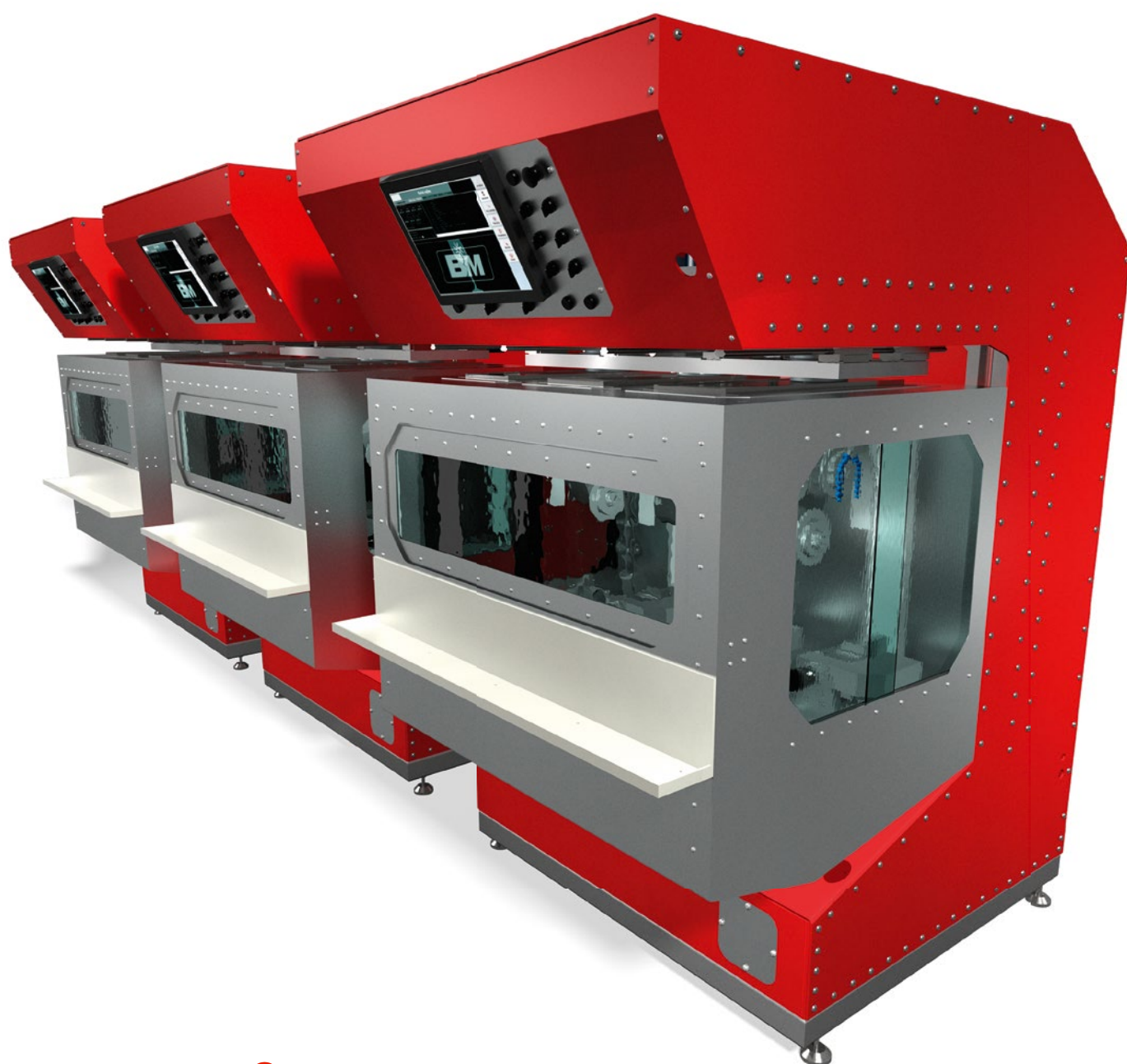
BM JACK 1 & 3



PRODUCTIVITY AND QUALITY



LIKE NEVER BEFORE



BM JACK 3



KEY CHARACTERISTICS

Glass-cutting automatic machines BM-Jack are designed for decorating glassware.

These machines are yet another revolutionary step in glass cutting. On request, we can mount three spindle-cutting heads, which will enable you to perform glassware decorating with different cutting tools in one single stage, without having to re-align the product.

Each individual machine cutting tool is driven by a servomotor. The cutting spindles are driven by asynchronous motors. Built into the machine is an electric circuit board with all the necessary components for controlling the machine. There is a touch-screen on the front side of the machine which allows you to adjust parameters necessary for tuning up the cutting program and to control manual movements and operations.

The flexible element can be replaced with a "sensitive servomotor", which makes it possible to control the forward movement even by tiny increments. The advantages of this, in comparison with pneumatic version, are:

Being able to control cross cuts, with the depth of the first cut being stored in memory so that all subsequent cuts are adjusted to this.

The cutting is done more smoothly, enabling higher cutting speeds.

Pneumatic version is installed as standard.

Other advantages are, as follows:

An extra wide product axis inclination of -45° to 70° .

Design software is needed to run the cutting program, which can be obtained in one of the following ways:

1. Purchase from Horus.
2. Generating a file according to the customer's specifications. This will be particularly convenient in the case of regular repeat orders.
3. Upgrading an older Horus or Wincut program.

The design software will generate a data file, which will be downloaded into the machine computer (situated in the machine circuit board). The machine computer will control repeated cycles of the

whole cutting process. When cutting with a number of machines, only one design software is needed. It will generate data files for individual machines, i.e. different patterns can be cut by different machines.

The data files can be downloaded from the design software using one of the following ways – network data transfer, flash disc, CD, DVD or wireless data transfer.

The machine can be delivered with a cooling water circuit, including tank, pump and centrifuge. Water consumption is about 1000 litres a month.

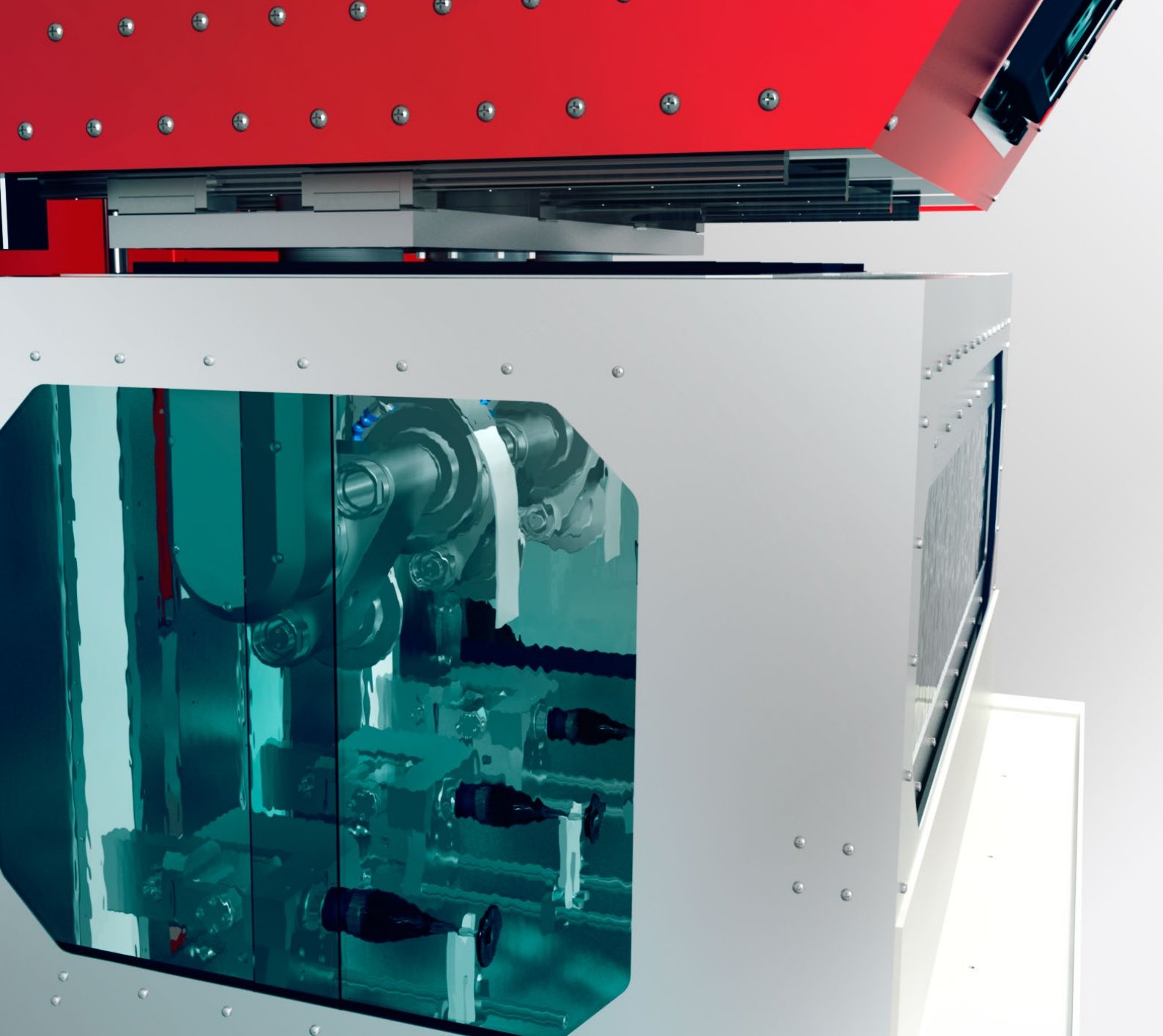
Even an untrained operator can work the machine after adjustments have been made.

However, adjustment of the machine and maintenance of the program has to be done by a qualified person, and Bohemia Machine s.r.o. is happy to provide the training for your personnel.

BM-Jack 3 has another key features:

The machine is designed to cut three products at the same time.

The transversal travel unit can be supplied upon request. With this you can cut plane surfaces, such as decanters, plates or sheet glass.

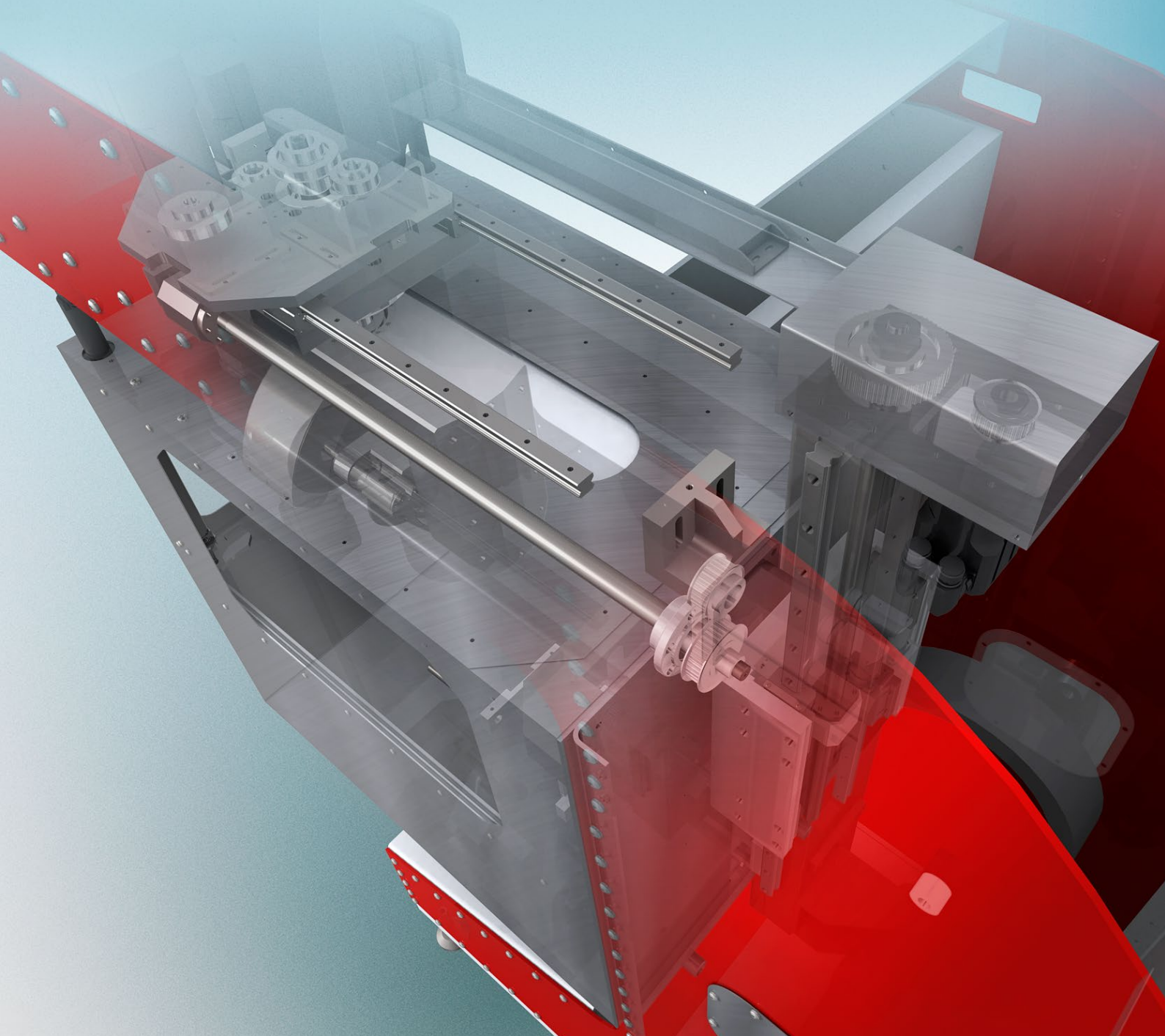


BM JACK 3: TECHNICAL DATA

Length of the machine	2200 mm
Width of the machine	1420 mm
Height of the machine	2240 mm
Machine weight	1850 kg
Cutting cycles	about 1-10/minute, depending on the pattern
Maximum product diameter	240 mm
Maximum product height	420 mm (max. cutting height 300 mm)
Product weight	up to 5 kg (according to customer's wishes)
Product shape	rotary (non-rotary and flat on request)

Clamping	vacuum or mechanical (pneumatic)
Installed input	11 kW
Average input	2 kW
Control medium	Pressure air, vacuum (vacuum pump on request, input 0.8kW)
Maximum wheel diameter	150 mm
Wheel revolutions	650-5600 rpm
Number of cutting wheels	3 (3x3)
Range of product axis inclination	- 45° to + 70°
Cooling medium	water with emulsion

Optional equipment (not included in the machine basic price): ■ Upon request, the machine can be fitted with a three-position revolving head that enables to fix three different working tools. The tools are exchanged in accordance with the program depending on the cut that is currently being processed. The tool exchange is automatic ■ Upon request, the machine can be delivered with a vacuum pump used for clamping products ■ Centrifugal continuous water treatment unit ■ Design (drawing) program Horus ■ Various diamond tools ■ Various clamps to fix the products



BM JACK 1: TECHNICAL DATA

Length of the machine	1720	mm
Width of the machine	600	mm
Height of the machine	2100	mm
Machine weight	750	kg
Cutting cycles	about 1-10/minute, depending on the pattern	
Maximum product diameter	420	mm
Maximum product height	350	mm
Product weight	up to 4 kg (according to customer's wishes)	
Product shape	rotary (non-rotary and flat on request)	

Clamping	vacuum or mechanical (pneumatic)	
Installed input	6,5	kW
Average input	3,5	kW
Control medium	Vacuum (vacuum pump on request, input 0.8kW)	
Maximum wheel diameter	150	mm
Wheel revolutions	200-6000	rpm
Number of cutting wheels	1 (3)	
Cooling medium	water with emulsion	



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