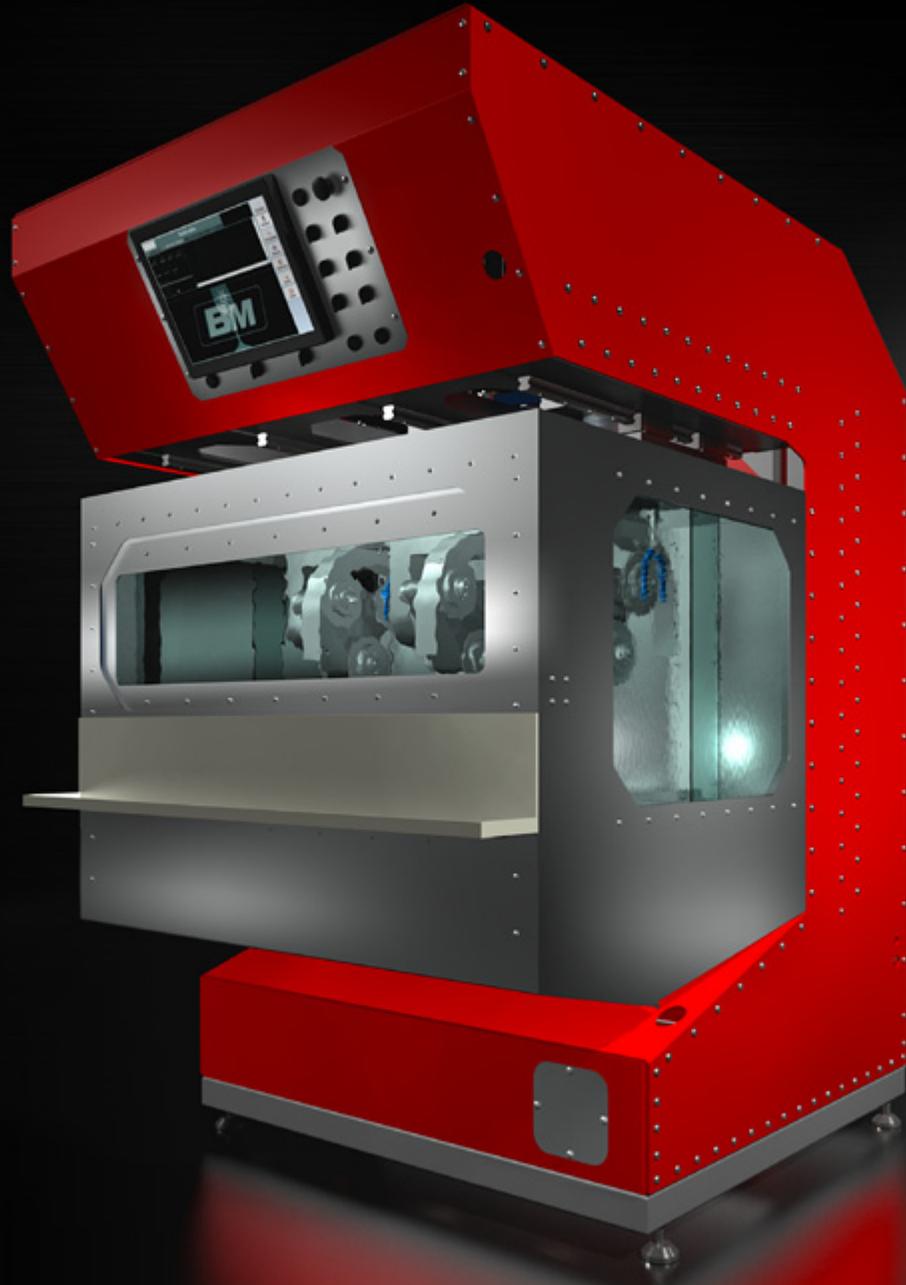


GLASS CUTTING AUTOMATIC MACHINE
BM JACK 3



PRODUCTIVITY AND QUALITY



LIKE NEVER BEFORE



BM JACK 3



KEY CHARACTERISTICS

The flexible element has been 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.

Other advantages are, as follows:

- An extra wide product axis inclination of -45° to 70° .
- A transversal travel unit for cutting plane surfaces.

Glass-cutting automatic machine BM-Jack is designed for decorating glassware.

As in the case of single-position machine, this machine is yet another revolutionary step in glass cutting. The machine is designed to cut three products at the same time. 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. In total, there are eleven servomotors mounted in the machine. 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. We can supply a transversal travel unit upon request. With this you can cut plane surfaces, such as decanters, plates or sheet glass. 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.

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.

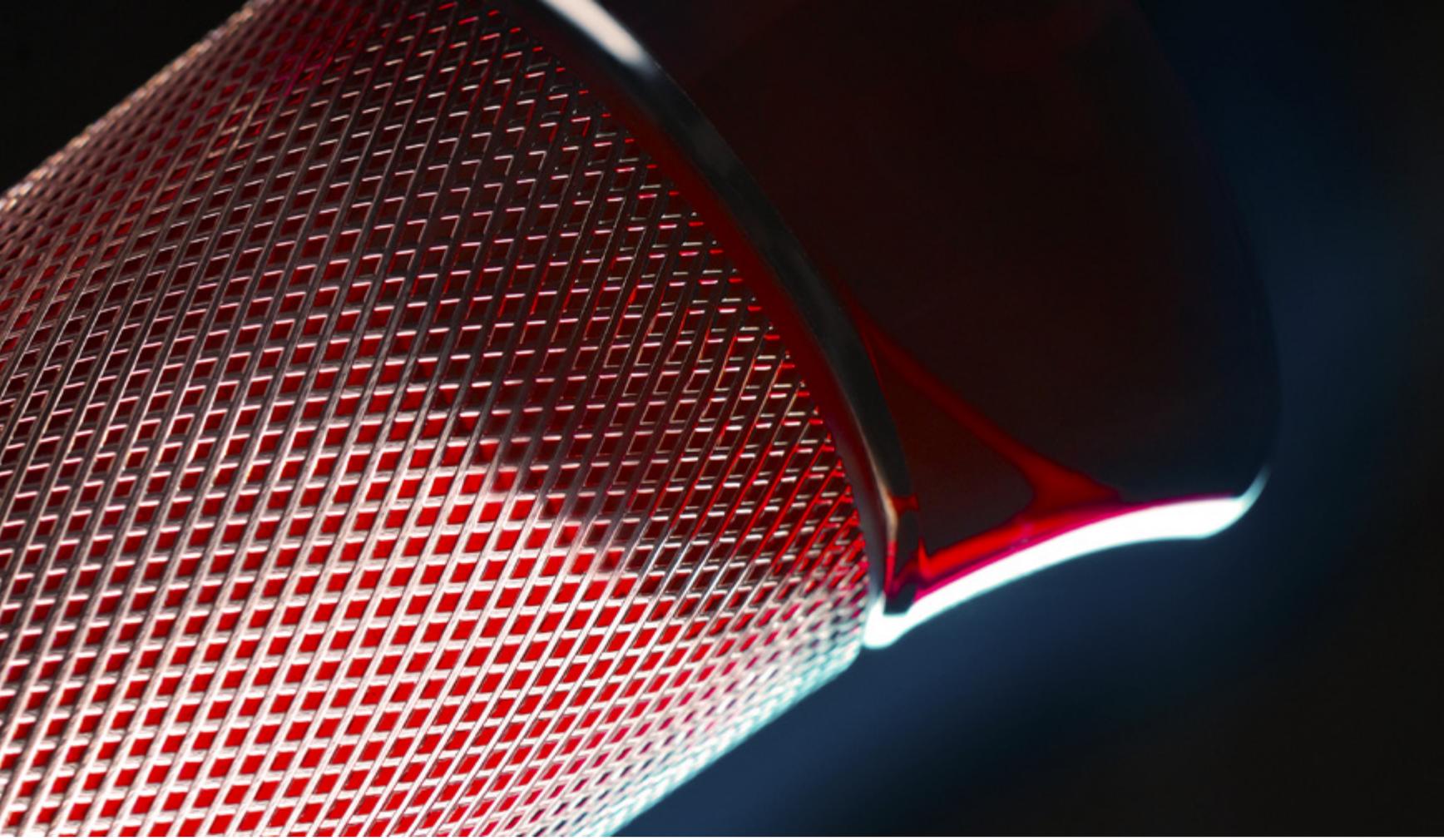
The design software will generate a data file, which will be downloaded into the machine computer (situated in the machine circuit board). The machine computer will control repeated cycles of the whole cutting process. When cutting with a number of machines, only one design software is needed. It will 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 is equipped with a closed cooling water circuit and water consumption is about 1000 litres a month.

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

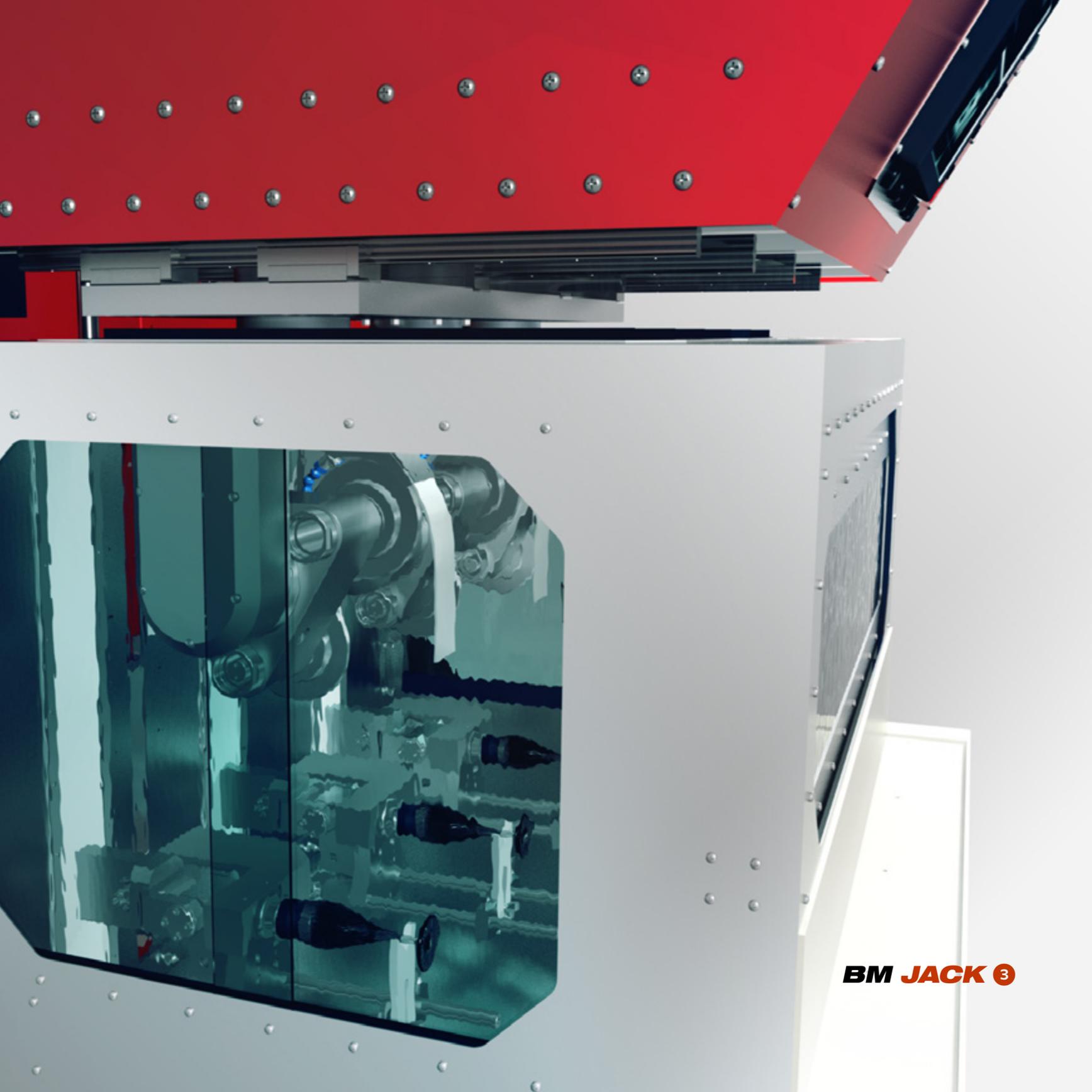
However, adjustment of the machine and maintenance of the program has to be done by a qualified person, and Bohemia Machine s.r.o. is happy to provide the training for your personnel.



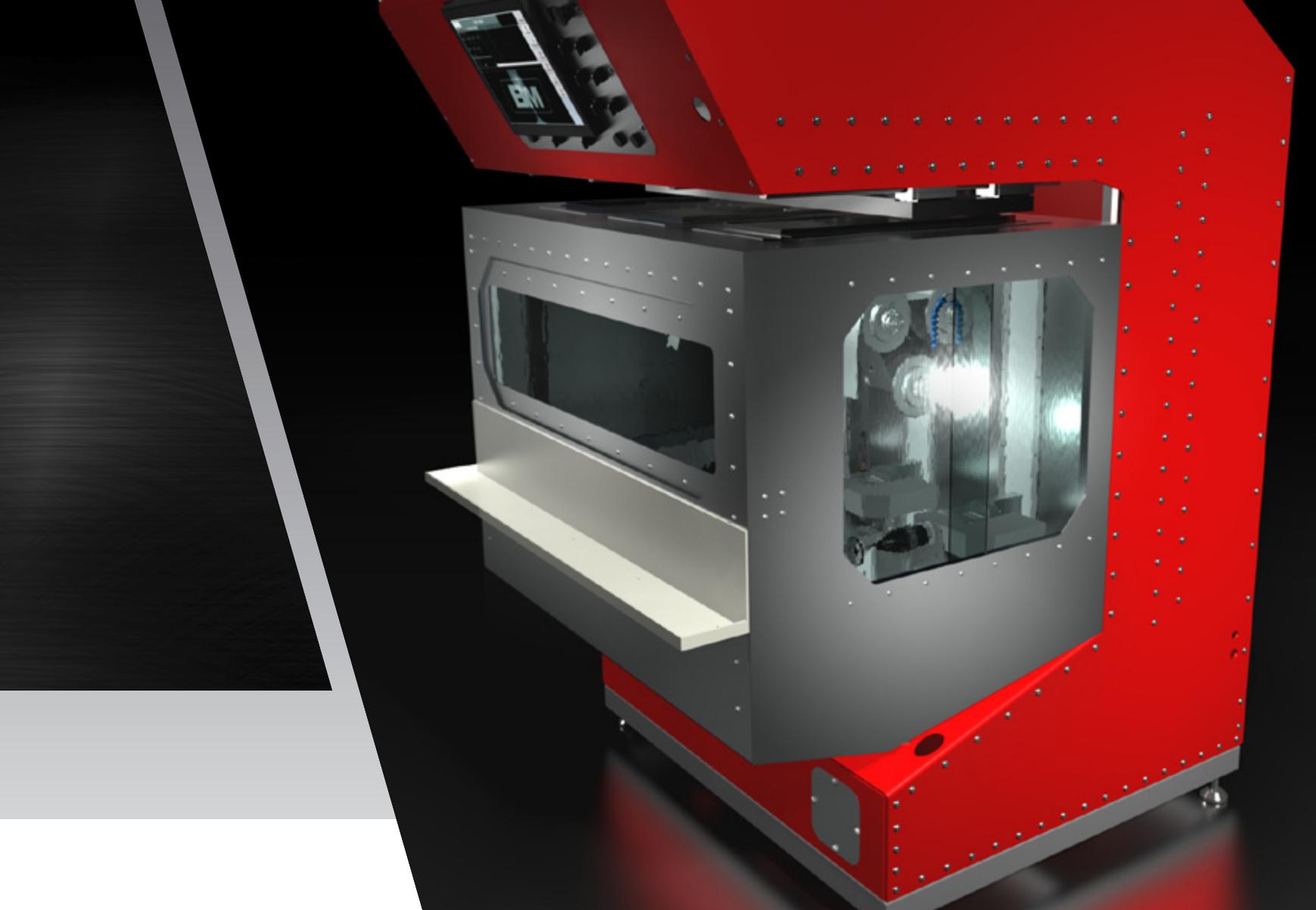
TECHNICAL DATA

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 (maximum 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



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+420 **569 453 149** ↙ tel
+420 **569 456 265** ↙ fax

BOHEMIA MACHINE s.r.o.

Zámecká 1177 | 582 91 Světlá nad Sázavou | Czech Republic
e-mail: info@bohemia-machine.cz

www.bohemia-machine.cz