

GLASS CUTTING MACHINE **BMK 1**

The cutting machine is equipped with a spindle. The shaft (diameter of 40mm) is mounted in sliding bearings. The shaft tip (with an internal M 12 thread) is conical (ratio 1:5). The cutting machine is separated from the tray yet, at the same time, it is solid due to its concrete base. The drive is realised with a POLY-V belt and six-step pulleys which guarantees a transfer of sufficient power and excellent dynamic performance. The back side of the case carries a safe 24V halogen lamp which illuminates the cutting disc. Optionally, the machine can be supplied with a working table, tray made of laminated plastics, water distribution piping, splash cover, glasscutter's stool, etc.



This vertical cutting machine has been designed for manual cutting of various decorative patterns on glass articles and, in particular, mat cutting. A design of this machine is modular, so that the main welded frame fits into any desired structure. The cutting machine is usually supplied as a two-piece set consisting of the machine placed on a concrete base and a separate tray made of fibreglass reinforced plastic (the tray is supported with a stand). As for technological design, this is the best solution.

TECHNICAL DATA

		BMK1
Dimensions of the machine:	Depth [mm]	560
	Height [mm]	1350
	Width [mm]	890
Machine weight	[kg]	240
Dimensions of the machine base	[mm]	550x400
Spindle revolutions	[rpm]	300-2800
Height of the spindle axis	[mm]	1250
Total input of the machine	[kVA]	1,5
Electric motor model IM B3	Output [kW]	1,1
	Revolutions [rpm]	915
	max. noise level [dB]	80
Electric power supply		3+PE 50Hz, 400V

GLASS CUTTING MACHINE **BMK 2**

The cutting machine is driven by a two-speed asynchronous motor mounted in the rear section of the concrete base. Power transmission of the motor is carried out with a POLY V-belt that guarantees a transmission of sufficient power having excellent dynamic qualities. Six-step cone pulleys are used. A low-voltage (24V) halogen lamp illuminating the cutting disc is mounted in the rear part of the cast-iron box. If required by the customer, this cutting machine can be equipped with a work-table, a tray made of fibreglass reinforced plastic, a water distribution system, a splash guard, and a stool for the cutter. The cutting machine BMK-2 can also be equipped with a stepless control of revolutions.



This machine has been designed for the hand cutting of various decorative patterns on glass articles by using silicon carbide or diamond-impregnated tools. A solid concrete base ensures the perfect rigidity of the cutting machine. There is a cast-iron box on the supporting concrete base which holds the electrical wiring of the machine. The cutting machine is equipped with a spindle. The shaft (diameter is 50 mm) rotates on bearings and supports a conical tip with an internal thread of M 12 (ratio 1 : 5).

TECHNICAL DATA

		BMK2
Dimensions of the machine:	Depth [mm]	680
	Height [mm]	1360
	Width [mm]	890
Machine weight	[kg]	370
Dimensions of the machine base	[mm]	550x400
Spindle revolutions	[rpm]	240-5000
Height of the spindle axis	[mm]	1250
Total input of the machine	[kVA]	3
Electric motor model IM B3	Output [kW]	1,4/1,9
	Revolutions [rpm]	690/1410
Max. noise level	[dB]	80
Electric power supply 3+PE 50Hz, 400V		



FLAT - GRINDING MACHINE **BMH-D/1,5**

This is a versatile machine giving the possibility to use loose or bonded abrasives in a wide range of spindle revolutions. The machine also meets stringent requirements specified for the use of advanced types of diamond-impregnated tools. A wire-reinforced concrete base makes the grinding machine perfectly rigid. A specially designed spindle is mounted at the center of the concrete base. The grinding machine is driven with the aid of an asynchronous motor that is located below a protecting hood on a tensioning plate in the rear section of the machine. A steel tray with sloping bottom (splash guard) is mounted at the top of the concrete base. The revolutions of the machine are selected by taking into consideration the type of abrasive tool used. If required by the consumer, the machine can also be fitted with a stepless control of the revolutions.

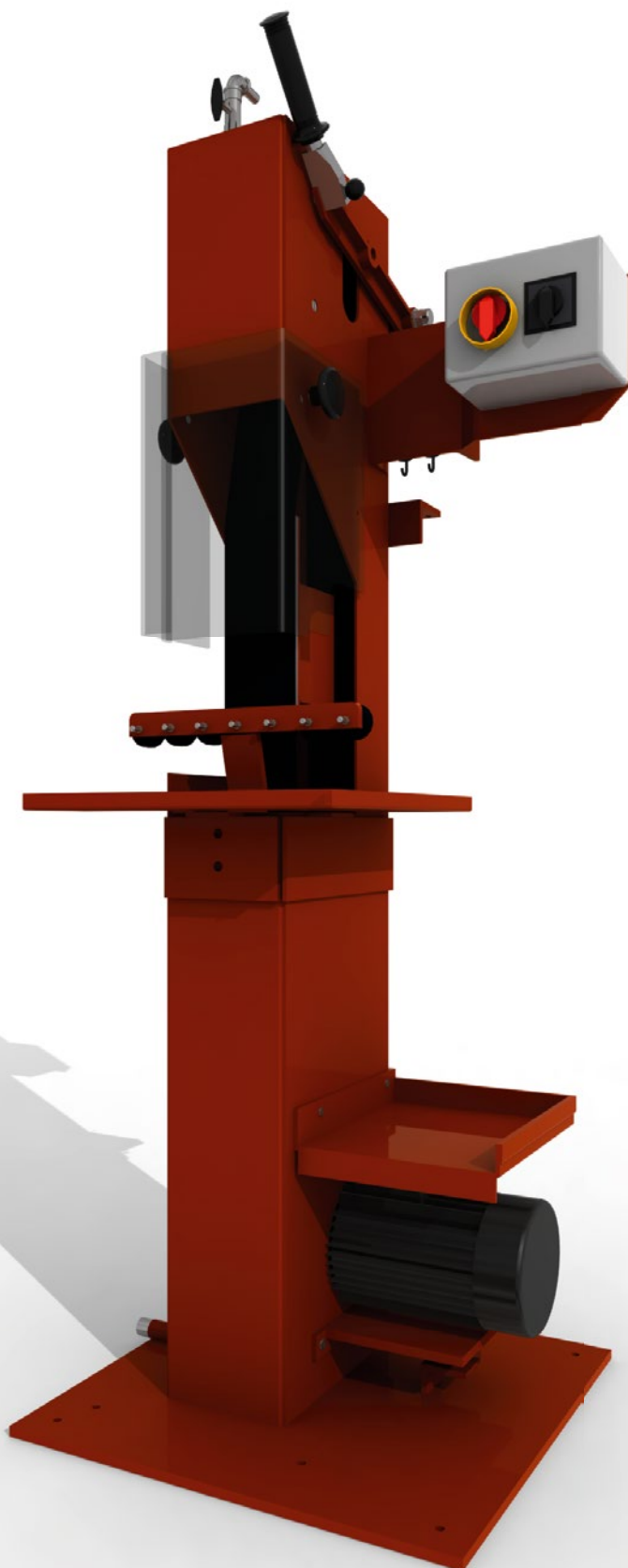


The horizontal flat-grinding machine is earmarked for the cold working of flat surfaces of glass and ceramic articles, stone, etc. Hand-held articles are pushed against the top surface of the abrasive disk.

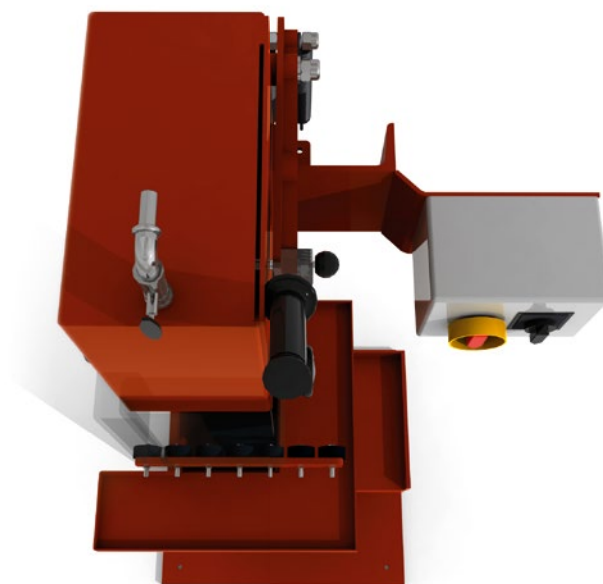
TECHNICAL DATA

	BMHD
Depth [mm]	1110
Height [mm]	1030
Width [mm]	880
Machine weight [kg]	470
Disk above floor [mm]	870
Spindle revolutions [rpm]	240-5000
Height of the spindle axis [mm]	1250
Total power input [kVA]	1,5
Electric power supply	3+PE AC 50Hz, 400V

BELT GRINDING MACHINE PB 100/3000



This machine is especially designed for flat working of glass or similar materials cooled with water or water emulsion. It is an ideal machine for bevelling the edges and removal of overpresses or other production faults. The abrasive band and its grit must be chosen with regards to the processed material and required quality of the ground surface.



TECHNICAL DATA

		PB
Dimensions:	Length [mm]	570
	Height [mm]	1650
	Width [mm]	650
Machine weight	[kg]	140
Dimensions of the base	[mm]	570x570
Water consumption	[l/min]	2
Belt Size	[mm]	100x3000
Speed	[m/s]	11,1/22,3
Total power input	[kVA]	1,9
El. motor Model IM B3 output	[kW]	1,1 /1,4
Motor revolutions	[rpm]	1420/ 2845
Electric power supply 3+PE, 50Hz, 400V		

GLASS - TOP GRINDING MACHINE BHO 01

The machine is designed for fine grinding of the top edges of thin wall glass articles. The products are loaded manually and ground automatically according to parameters set on the control panel. The clamping head fastens the product bottom up for subsequent grinding. The clamping head is a three-jaw type one, its fastening force is constant and comes from a spring situated in the central shaft. The clamping head revolutions are adjustable and range from 0.9 to 3.2 revolutions per second. The clamping head can be tipped by 35° towards the operator to ease the product loading. Its vertical working travel is about 80mm. The clamping head can be adjusted vertically for products whose height ranges from 40mm to 320mm. The two grinding units are equipped with front-end tools and their pressure can be adjusted pneumatically. The machine guarantees high precise grinding of the articles, and it is designed for small-scale and middle-size production capacity.



The machine is designed for upper edge soft grinding of thin-walled glass products. It is equipped with a clamping head and two grinding units with flat diamond discs.

TECHNICAL DATA

			BHO
Dimensions of the machine:	Length	[mm]	800
	Height	[mm]	1760
	Width	[mm]	800
Machine weight (excl. the cooling liquid)		[kg]	245
Height of the ground article		[mm]	40 - 320
Max. diameter of the ground article		[mm]	200
Chucking head revolutions		[rps ⁻¹]	0,9 - 3,2
Grinding discs revolutions		[rpm]	2800
Total input of the machine, appr.		[kW]	1
Water bath volume, appr.		[l]	50
Flat grinding diamond disc, diameter		[mm]	200

CRACKING OFF MACHINE P-22

The structure of the vertical guide with two horizontal arms equipped with burners is highly rigid and enables an easy and accurate adjustment of the burners. The shaft is equipped with a spring clutch that makes it easier to fix the glass article on the rotating table. Thanks to this clutch, the rotation of the table can be stopped by hand.

The two - station column cracking-off machine is suitable for cracking off glass articles up to 500 mm (20") high with a diameter of up to 250 mm (10").

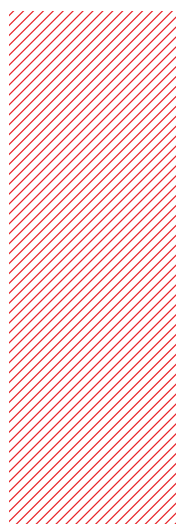


TECHNICAL DATA

		P22
Dimensions of the machine:	Depth [mm]	610
	Height [mm]	1680
	Width [mm]	960
Revolutions of rotating tables (3 speeds)	[min ⁻¹]	33/42/51
Working table height	[mm]	900
Diameter of rotating table	[mm]	250
Max. height of the processed article	[mm]	500
Input of electric motor	[kVA]	0,12
Cracking-off medium	PB + pressure air	
Electric power supply	1+N+PE, 50Hz, 230V	

GLASSMAKER'S FIXTURE **BM BOY 05** "tramping device"

Using this fixture in manual production of blown glass results in substantial reduction of labour. Last but not least, there is a substantial reduction in consumption of water because the BM BOY is equipped with a closed cooling circuit. The main difference of this fixture, compared to other similar products, consists in a profound simplification of the mould mounting. This also results in much shorter time necessary for the mould exchange.



TECHNICAL DATA

		BM BOY
Dimensions of the machine:	Depth [mm]	830
	Height [mm]	870
	Width [mm]	1080
Approximate weight (cooling water excluded)	[kg]	145
Height of the upper level of the tramp platform with the pedals (can be adjusted continuously to match the height of operational platform)	[mm]	800-965 (750-915)
Height of the mould platform (adjustable continuously)	[mm]	310-500
Max. angle of the mould opening (adjustable in steps)		78°/90°/106°
Input of electric motor	[kVA]	0,22
Air pressure (consumption max. 4 l/min)	[Mpa]	0,5-0,6
Cooling liquid (closed water circuit)	[l]	30-35
Maximum flow of the cooling water	[l/s]	0,45
Electric power supply	1+N+PE, 50Hz, 230V	
Switchboard protection	IP 54	

This fixture is designed for handling a traditional glassmaker's mould in the manual production of blown glass. Its main task is to close and open the mould according to glassmaker's wishes, and rinse and cool it after the glass article has been blown.