

Bavelloni K4/S Automatic Horizontal Beveling Machine

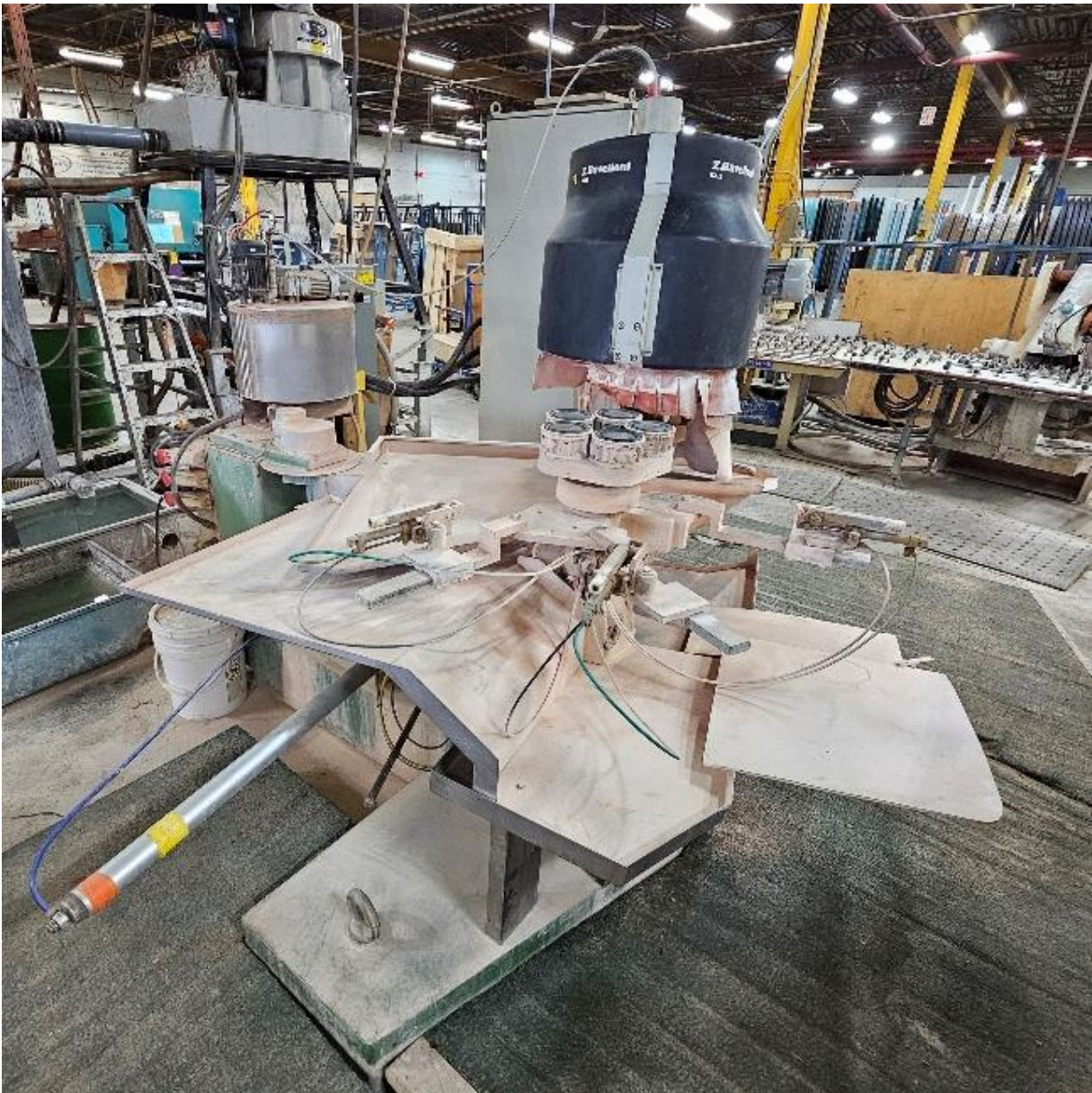


Details

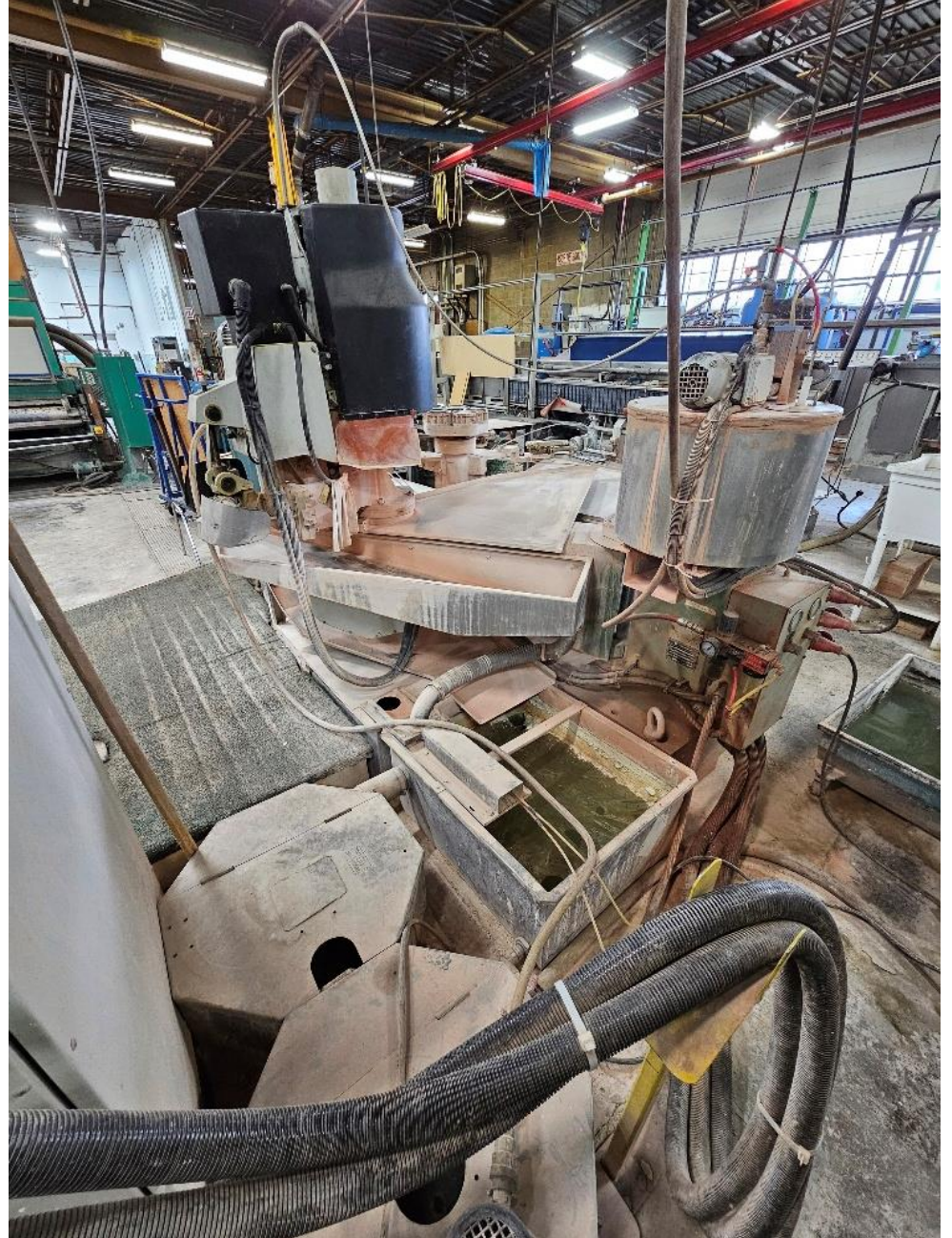
Electrical information	
Tension	500 V
Power	7 KW
Frequency	60 Hz
Current	12 A

Additional Information

This 2002 K4/S automatic horizontal beveling machine was made in Italy. The original general specification of the bevelling machine is attached below. Comes with instruction manual.









1. GENERAL DESCRIPTION

K/4-S is an automatic horizontal bevelling machine. It works simultaneously on two axes (x, y) by following the profile of the glass sheet to be worked. The C axis is the automatic rotation of the faceplate in both directions. Vertical positioning and inclination of the wheel in automatic mode is done on Z axis (Fig. 1.1).

WORKABLE MATERIAL:	Shaped glass sheets
APPLICATIONS:	Grinding and polishing with abrasive wheels and others
WORKING PROCESSES:	Bevel with polished finish (Fig. 1.1)

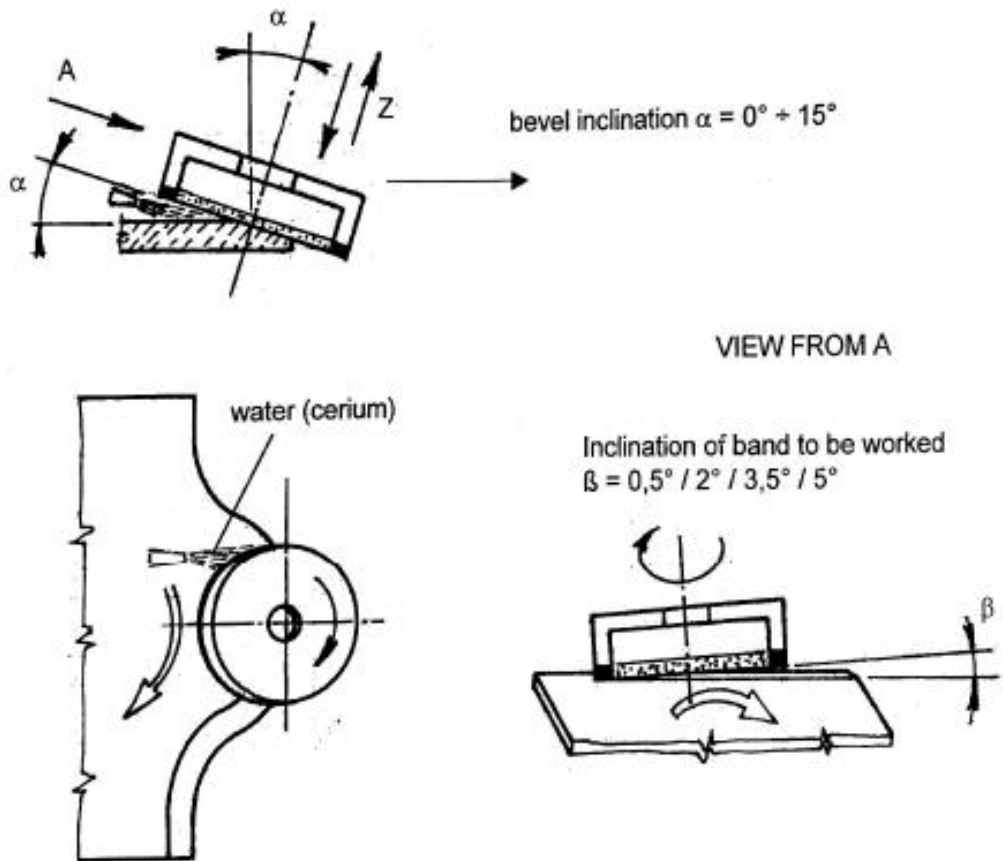



FIG. 1.1



TOOLS:	Diamond and polishing wheels
COOLING:	Direct water or cerium jet onto the tool
SHEET CLAMPING:	By means of suction-cups operated by pneumatic system
FUNCTION CONTROL:	By control panel with keyboard and 9" graphics display (with remote control keyboard on the machine)
PROGRAMMING:	By means of PLC in the electric cubicle

 **ATTENTION:** OPERATIONS OTHER THAN THOSE INDICATED IN THIS MANUAL ARE STRICTLY PROHIBITED. THE MANUFACTURER DECLINES ALL RESPONSIBILITY FOR DAMAGE OR INJURIES DERIVING FROM INCORRECT MACHINE APPLICATIONS.

1.1 TECHNICAL DATA

1.1.1 MACHINE DATA

Workable glass thickness:	mm	3 ÷ 20
Workable glass thickness by template:	mm	3 ÷ 15
Max. working dimensions: standard faceplate: faceplate on request:	mm mm	∅ 1000 ∅ 2200
Min. working dimensions: standard faceplate: faceplate on request:	mm mm	∅ 460 = 18" ∅ 260 = 10.25"
Max. working dimensions on a straight side:	mm	side of diagonal square 2200 (see par. 6.5.3.2)
Max. ratio between long and short side (for an ellipse or oval shape):		3 ÷ 1
Minimum strip width (to bevel short side):	mm	110
Maximum bevel width:	mm	40
Maximum bevel angle:		15°
Spindle speed:	rpm	600 + 3400
Faceplate speed:	m/min	0÷2
Power installed:	kW	4



1.1.2 TYPE OF TOOLS (SC. 1775)

Diamond cup wheel for roughing:	Ø 130 mm	N° 1 (pos. 1)
Bakelite cup wheel for half-finishing:	Ø 130 mm	N° 1 (pos. 2)
Bakelite cup wheel for half-finishing:	Ø 130 mm	N° 1 (pos. 3) – Used for bevel finish on closed shapes
Bakelite or rubber cup wheel for half-finishing:	Ø 130 mm	N° 1 (pos. 3) – Used to finish bevels radiused with straight paths previously processed by other bevelling machines.
Felt polishing cup wheel:	Ø 130 mm	N° 1 (pos. 4)

1.1.3 MACHINE DIMENSIONS AND WEIGHT

Machine length:	m	2,4
Machine width:	m	2,2
Machine height:	m	2,2
Height of working plane:	m	1,2
Total weight:	Kg	2100

1.1.4 NOISE

NOISE LEVEL measured as below:

Wheel	Glass	Bevel width mm	Acoustic pressure level dB(A) at distance from working area ...		
			1 m	1,5 m	2 m
Diamond wheel in resin	Thickness in 5mm Ø880mm	30	82	78	78
			73	73	73

Height from the ground:	m	1,6
Instrument:		phonometer type CRL 412 (manufactured according to IEC 651 rules)