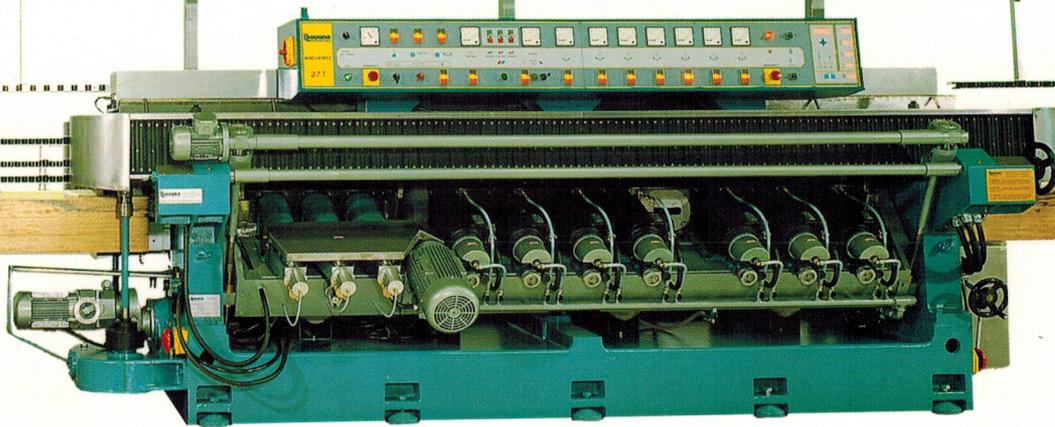
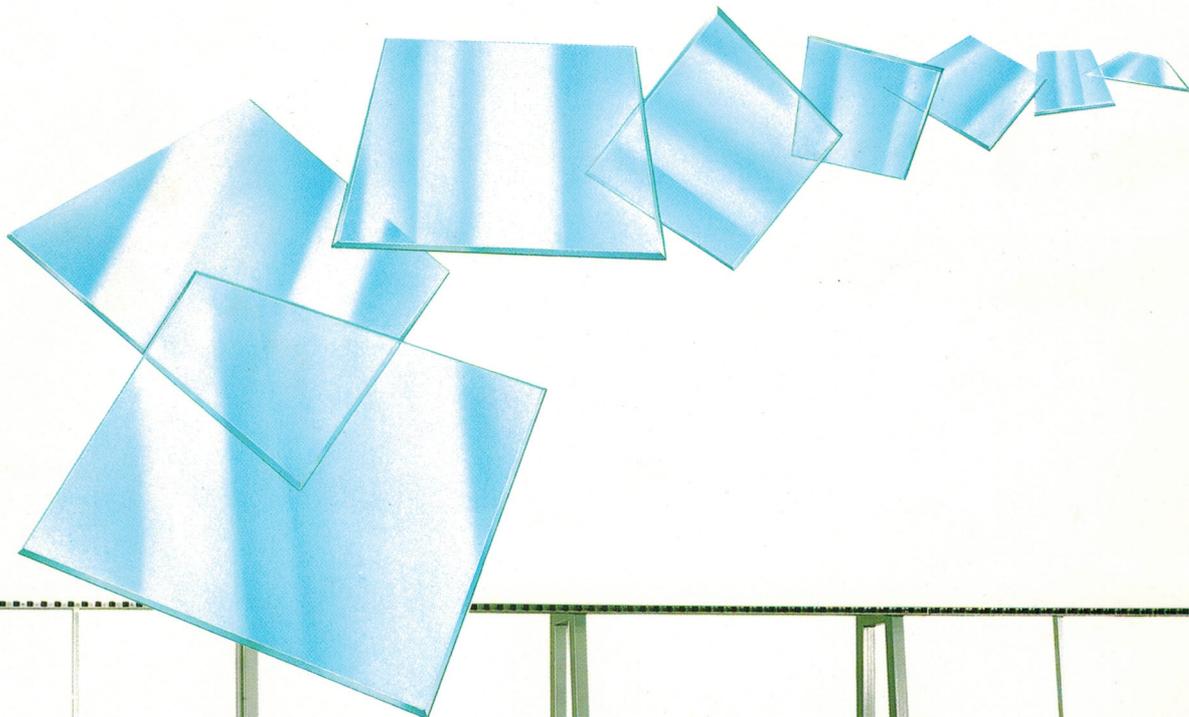


BISELLATRICI BOVONE

METRO DOPO METRO SCOPRI LA SUPERIORITÀ

THE MEASURE OF SUPERIORITY - INCH AFTER INCH



bovone

MINI MAXI 371 - 362 and VELOCE 371 - 362

These machines have been designed to obtain polished bevels and have the following main features:

- 1) High working speed;
- 2) Possibility to run different sized glass sheets, from the maximum ones the rack can accept down to the minimum of 120 x 120 mm. for the "VELOCE" and 35 x 35 mm. for the "MINI-MAXI";
- 3) Possibility to treat glass sheets of variable thicknesses from 3 to 25 mm.;
- 4) Quick and simple adjustment to obtain bevels with variable angles from 3° to 45°;
- 5) Patented transporting tracks with moulded linking elements and calibrated pivots of stainless steel;
- 6) Central body of the machine of cast iron to damp vibration due to wheels action on the glass sheets and to assure a perfect working.

Lead-in and take-off conveyors

For the "MINI-MAXI" they are made of cast aluminium with wooden front sides to protect glass. Glass is carried by a belt allowing a high transport precision and easy maintenance. Belt adjusting device is fitted.

For the "VELOCE", infeed/outfeed conveyors are made of cast iron and glass supporting is made by a chain, with top neoprene inserts, to allow a high loading capacity. Front wooden sides are fitted as well as chain adjusting devices.

Base and side frames

Are made of cast iron with inside ribs and level making devices, machined guide strips and adjusting units.

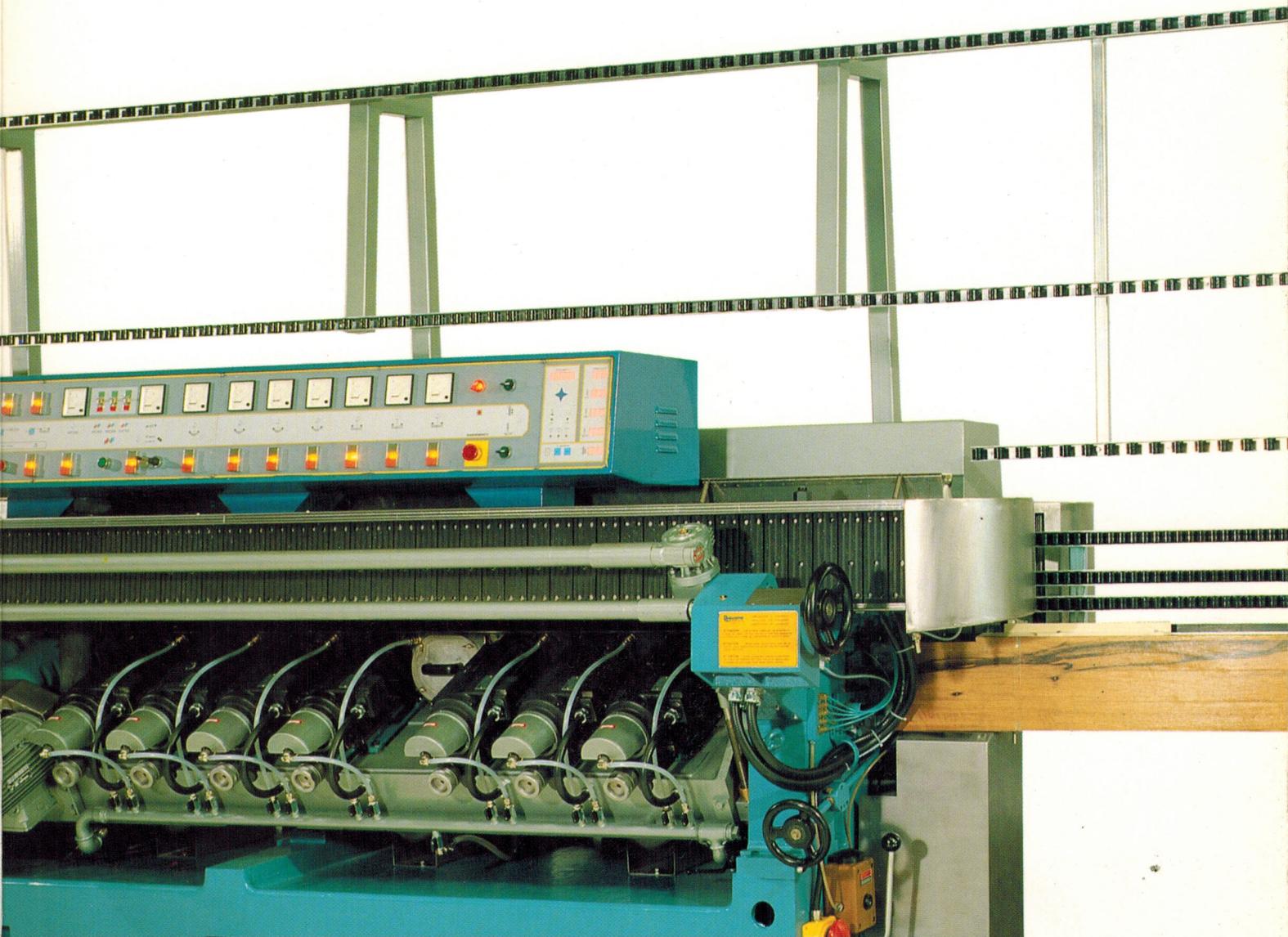
Caterpillar type tracks

The two caterpillar tracks are made of anodized moulded linking elements. Stainless steel pivots, where tight bearings are fitted, assure articulation. Particular devices are foreseen to protect bearings and guide strips against slurry entry. Tracks are without driving chain: this assures them a long life and makes easier glass feeding. The rear long pads are precision machined enabling the glass to be held on an accurate grinding platform by the short pads. The track sliding guides fitted on beams are made of hardened and rectified steel thus allowing a considerable precision and durability of the sliding surface. In order to allow an easier maintenance of track slide guides, an automatic centralized lubricating device is fitted.

Back beam

Of rugged and rigid structure, it lays on three supporting elements and in the "MINI-MAXI" moves on a vertical axis to allow selecting of the suitable position according to glass sizes.

Such position can be easily reached by a motorized device and is immediately shown on the control panel by a digital display.



Swivelling beam with spindle wheels

Bevelling, smoothing and polishing wheels spindles are mounted on a separate swivelling beam which is adjustable for angle variation in a few seconds. This allows a quick change of angle from 3° up to 45° without adjusting each spindle. Precision bearings, fitted on robust built spindles are protected against slurry entry by a set of labyrinth seal units. Provision is made for simple spindle adjustments. Each wheel is cooled by two pressure jets of liquid, by a high output recirculating pump. Polishing felts are controlled by air cylinders giving forward and backward movements. Pressure on the glass is controlled by a pressure gauge. Polishing felts are supplied with a cerium oxide mixture from a tank with a mixer by means of a pump.

Pencil edge and seam spindles

The "371" model fits a back spindle either for a diamond pencil edge wheel, 150 mm. diameter, or for a 25° arris wheel.

The "362" model fits two back spindles for diamond pencil edge wheel and for polishing arris wheel, both 150 mm. diameter. Alternatively, it is possible to fit a cup wheel for front seam instead of the polishing pencil edge wheel. In this case, the spindle is installed on the moving beam to match with the bevel inclination.

Bevel variations

Three digital displays are fixed on the main control panel. These displays show operating data enabling definition of bevel width in seconds according to glass thickness.

Control panel

Of modern design, it fits a wide range of instruments to have a full and quick control of the functions of the machine, using analog and digital indications.

In addition to the ammeters, which allow to check each wheel and felt, a set of large lighting digit displays shows the angle, bevel thickness glass thickness left after bevelling as well as speed, back beam positioning (for the "MINI-MAXI"), metre-counter and for the 362 models, the indications relating to the automatic intervention for checking and control of polishing wheels wear.

A set of warning leds allows a constant checking of the felts correct intervention and of the corresponding electronical system.

Electrical equipment

Comprising:

- low tension controls and push buttons (24 Volts);
- remote control switches fitted with magnetothermal relays protecting all motors.
- emergency «stop» switches at each end of the panel.
- Direction reversing switch.



SCHEDA TECNICA

Peso della macchina	kg. 4700 ca.
Dimensioni di ingombro (escluse vasche per i liquidi)	mm. 8200 lunghezza mm. 1100 larghezza mm. 2220 altezza
Altezza piano di lavoro	mm. 800 ÷ 860
Velocità variabile	m/min. 0,35 ÷ 4,40
Potenza installata	kw 18 circa
Mod. "371"	7 mandrini con mole per bisellare 1 mandrino per mola tangenziale 3 tamponi lucidanti
Mod. "362"	6 mandrini con mole per bisellare 2 mandrini per mola tangenziale 3 tamponi lucidanti
Spessori trattabili	da 3 a 25 mm.
Velocità indicative:	
bisello mm. 30	2,5 - 3,3 m/min.
bisello mm. 25	2,7 - 3,6 m/min.
bisello mm. 20	3,0 - 4,0 m/min.
bisello mm. 15	3,2 - 4,2 m/min.
bisello mm. 10	3,5 - 4,4 m/min.
Dimensioni minime:	
per la "Mini-Maxi"	mm. 35 x 35
per la "Veloce"	mm. 120 x 120
Larghezza massima bisello	mm. 60
La macchina consente di variare il bisello, cambiando angolo ed asportazione, con una sola regolazione.	

Servizio assistenza in più di 45 Paesi

TECHNICAL SHEET

Machine weight	4700 kg. about (10.400 lbs)
Overall sizes of the machine (excluding liquid tanks)	8200 mm. (27') length 1100 mm. (3'8") width 2220 mm. (7'4") height
Working height	800 ÷ 860 mm. (38" ÷ 40")
Variable speed	0.35 up to 4.40 m/min. (14" up to 173")
Electric power	18 Kw
Tropicalized motors:	
"371" model	7 bevelling spindles 1 pencil edge spindle 3 polishing wheels
"362" model	6 bevelling spindles 2 pencil edge spindles 3 polishing wheels
Glass thicknesses	3 up to 25 mm. (1/8" up to 1")
Indicative speeds:	
30 mm. (1"1/4) bevel	2.5 - 3.3 m/min. (98"-130"/min.)
25 mm. (1") bevel	2.7 - 3.6 m/min. (106"-142"/min.)
20 mm. (3/4") bevel	3.0 - 4.0 m/min. (118"-157"/min.)
15 mm. (5/8") bevel	3.2 - 4.2 m/min. (126"-165"/min.)
10 mm. (3/8") bevel	3.5 - 4.4 m/min. (138"-173"/min.)
Glass minimum sizes:	
"Mini-Maxi"	35 x 35 mm. (1.37" x 1.37")
"Veloce"	120 x 120 mm. (4.7" x 4.7")
Bevel maximum width	60 mm. (2.36")
The machine allows bevel variations by angle change and glass removal, by one single adjustment.	

After Sales service in more than 45 Countries