

# B590K-PUR

CONTOUR EDGE BANDING MACHINE

Contour edge banding machine up to 140 mm Work piece thickness, Pre-melting unit for EVA and PUR hotmelt, Speed from 2,5 – 12m/min, Quick change glue pot, Glue pot and glue roller teflon coated, Standby function, Guillotine cutting max. 615mm<sup>2</sup>, tilting machine table up to 45° and digital length counter.




**BASIC FEATURES**

High-rigidity, electrically welded machine frame

The machine has a compact design, is versatile and user friendly

Suction with Ø 80 mm connector

The machine features a new, patented worktable which grants smooth panel sliding and extremely flexible edging without using jigs

Sliding on nylon blocks grants flawlessness and perfect cleaning of the panel melamine surfaces

Cardan-shaft transmission directly connected to the glue spreading roller, protected by a torque limiter

Adjustable side and upper edging guides

Adjustable edging guide on the gluing roller

Revolving roll edging holder Ø 500 mm

Built-in electrical cabinet with main switch

The control panel is placed in a very convenient and functional position, together with machine start and control pushbuttons

Machine control is granted by a 3,5" colour touch screen PLC placed in a very convenient and functional position; all functions such as program change, temperature variation, working speed and unit enabling are easily accessible. The B590K-PUR is designed for edge banding of straight panels with straight profile, for concave and convex curves with minimum concave curve radius 20 mm

Edge shearing system up to 3 mm with electronic millimetre counter (encoder), with three working options, manual for workpieces with different dimensions, automatic or automatic with self-learning function (patent) for large-sized workpieces

Slow-down areas can be pre-set by a simple pressing of the supplied pedal, to help the operator during gluing on critical areas (curves), thus obtaining a better gluing

New design gluing unit with forefront technical features

Glue tank capacity 2 kg with original Dupont® complete Teflancoating granting the best working conditions both with PU glues or EVA hot melt glues

Integrated programmable stand-by function to control automatic temperature reduction after a non-use period, stops glue spreading roller revolving and reduces power consumption whilst preserving glue technical features

Installed power is 2,4 kW, equipped with quick release system for easy maintenance, heated glue roller with dedicated temperature control and long life system (patent pending) in order to reduce extraordinary glue tank maintenance to the minimum

**ELECTRONIC MILLIMETRE COUNTER WITH INVERTER:** For the automatic control of the PVC shear unit, allows setting of the requested edge length by means of a PLC equipped with bi-directional encoder. In case of edging of particularly difficult parts with concave and convex curves, the operator can use the self-learning function in order to slow down edging speed on the most critical points. By means of a pedal, the operator can save up to 15 slowdown areas. After the first panel has been finished, when machining all the next panels with the same shape, the machine automatically slows down in the pre-set areas, thus improving product quality and operator working conditions.

**3 MM SHEAR:** For roll edging shearing up to 3 mm thickness, equipped with fixed coil holder Ø 800 mm. **MAXIMUM CUTTING SECTION** with standard configuration: 435 mm<sup>2</sup>; **MAXIMUM CUTTING SECTION** with accessory no. 17: H= 200: up to 615 mm<sup>2</sup>.

**0° -> 45° TILTING WORK TABLES:** Height adjustable, with anti-darkening and antiwear treatment

**COIL HOLDER Ø 800**

**EDGE GUIDE ON RUBBER ROLLER:** Height adjustable upper edge guide on rubber gluing roller

**HEATED GLUE POT ROLLER:** with heating element of adequate power, electronic temperature control with 2nd thermostat

**TEFLON COATED GLUE TANK:** For easy glue tank cleaning and replacement

**AUTOMATIC TEMPERATURE REDUCTION:** Automatic temperature reduction with pre-settable timer to reduce glue temperature during machine stand-by

**PIN ROLLER:** Loading device for PVC/ABS 3 mm edging (Ø 40 H 50 hole Ø15)

**GLUING ROLLER Ø20:** To carry out edging with minimum radius R=10

**ELECTROPNEUMATIC PRE-MELTING UNIT** – patented: With grain glue 4 kg tank with level sensor. It grants constant glue quantity and temperature both in small and large consumption conditions. Ideal if combined with the double spreading glue tank.

**EXTERNAL LOADING SYSTEM FOR PRE-MELTING UNIT**

**SLIDING CARRIAGE:** Sliding carriage to machine panels up to 3000 mm long. Handling during machining and return of the machined panel to the loading/unloading position

is automatic. Equipped with universal adjustable panel locking system to suit to panel shape and length. Once the panel has been positioned, a pneumatic system locks it and allows carrying out the subsequent machinings.

**MOTORIZED DRIVING MECHANISM (patented):** Feeding unit that allows obtaining higher pressure of the panel against the gluing roller. Roller motorization is transmitted by the gluing roller, so that synchronization between the two rollers is maintained in case of machine speed variation, thus avoiding any phase shift between the two rollers and loss of time. The unit can be vertically and longitudinally adjusted, can be jointed in two points, thus permitting head turning by 0° to 180° with respect to the gluing roller. Pneumatic cylinder for unit raise and fall.

**SUPPORTING BARS WITH STEEL BALLS:** Height-adjustable steel bar with a range of steel balls, can be fitted on the worktable to support large-sized straight and curved panels.

**WORK HEIGHT 200 MM:** With glue tank, shear, edging guide and glue roller height increase. H=200 mm

**Technical Data**

Workpiece thickness	10 – 140 mm
Edging thickness	0,4 – 3,0 mm (5,0mm abhängig vom Kantenmaterial)
Electrical connection	400V, 50 Hz , 3Ph
Total load	5,8 kW
Feed speed	2,5 – 12 m/min
Air connection	6 Bar
Weight – nett	500 kg
Working height	approx. 875 mm
Internal radius	min. 20 mm
Glue pot capacity	2 kg
Space required	approx.. 1800 x 1000 x 1400 mm without turntable



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The technical data is a guide line only – our products are being constantly updated and we reserve the right to alter specifications, therefore the illustrations may vary from the actual machines from time to time. We reserve the right to alter the construction of our machines.