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a voilàp company

EV 2E

MANUAL CORNER CLEANER

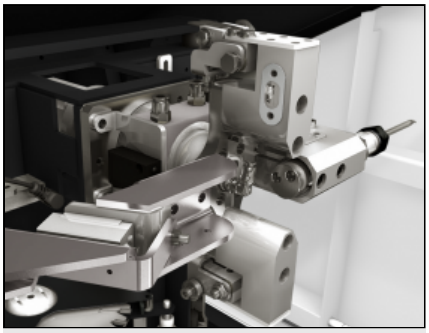


EV 2E is a CNC corner cleaning machine for PVC frames with 2 interpolated axes and automatic cycle. It has a 300 mm diameter blade which allows, with different work programs, cleaning the outer corner on various profiles. EV 2E also has top and bottom units with knife for cleaning the welding beads plus top and bottom units with knives for cleaning the inner corners. Machining of the inner and outer corners can be completed with the top and bottom drilling/milling units for cleaning the corners or gasket grooves. The machining units can be programmed independently from each other via a CNC PC which controls programming of the profiles and machine operation. When the machine is suitably confi gured with the necessary tools, it can handle all types of standard profi les including acrylic and coated profiles. The third NC axis controls the movement of the top units group, which can host up to 4 tool units.

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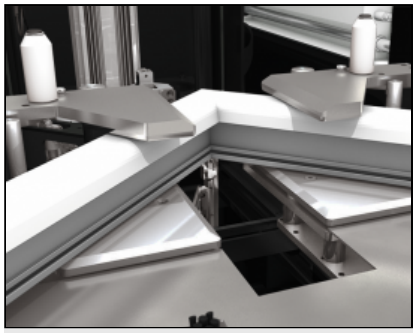
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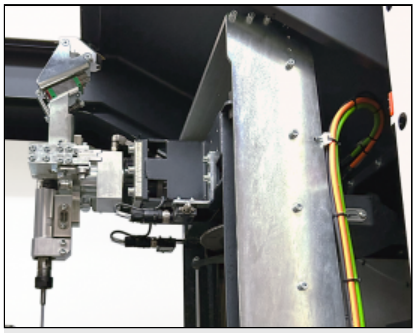
Top CNC controlled multitool unit

Machining with the top unit is carried out with tools mounted on a 4-position rotating group. A CNC controlled axis automatically brings the tool that will be used to the operating position. The group mounts two linear knives to clean the white and film-coated profiles, a double universal tool to clean inclined and rounded corners, a milling unit to clean gasket grooves.



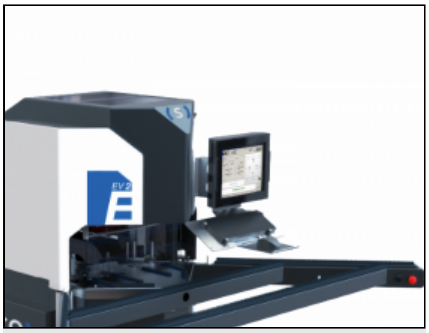
Automatic frame centring

A self-centring mobile work table makes it easy to insert the frame into the machine, by automatically positioning the welding bead of the corner in line with the tools. The knives guided by bearings that copy the surface of the profile and the high precision of the interpolated axes that guide the disc milling tool, allow for perfect cleaning of white and film-coated profile.



Cleaning module with 2 interpolated axes

The movement of the tools unit is managed by two high precision and quick-positioning interpolated axes, to ensure high quality standards in the same amount of time as superior category automatic machines. All movements are performed on linear recirculating ball slideways, ensuring the required rigidity and precision.



Orientable interface

Special care has been taken over the ergonomic aspects of the machine: the particular look of the machine embodies the objectives regarding protection and accessibility. The interface is easily orientable, allowing the operator to set and programme the machine from either the loading position or the right side, where the sliding lateral guard allows the work cycle in progress to be viewed.



Profile size control

As the profile is being positioned in the machine the position of the clamping hold-downs is verified. This measurement information allows the CNC to compare it with the main size parameters of the profile (thickness and height). The insertion of a profile different than expected by the programme will block processing and generate an error message, requesting the correct profile to be inserted and reducing human error to a minimum.

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POSITIONING SPEED

Y AXIS (m/min)	22,5
Z AXIS (m/min)	11,25
W AXIS (rad/sec)	5

AXIS ACCELERATION

Y AXIS (m/s^2)	2,5
Z AXIS (m/s^2)	2,5
W AXIS (rad/sec^2)	10

MODES OF OPERATION

Positioning of the frame: manual	●
Milling of different profiles	○

MACHINABLE SURFACES

With blade tool (external profile)	1
With top and bottom tools equipped with a knife (top and bottom face, inner profile)	3
With milling unit (top and bottom surfaces)	2

WORK AREA

Maximum dimensions of the frame manually loaded: unlimited	●
Minimum dimensions of the frame, external measurement (mm)	290 x 290
Minimum dimensions of the frame, internal measurement (mm)	160 x 160
Maximum profile height (mm)	180
Minimum profile height (mm)	35
Maximum width of the profile (mm)	150

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BLADE

Blade diameter (mm)	300
Blade support diameter (mm)	32
Blade speed (r.p.m.)	2.800

BASEMENT

Electrically welded steel basement	●

COMMAND AND CONTROL UNIT

Ventilated electrical cabinet	●
Air-conditioned electrical cabinet	○
Pneumatic panel	●
CNC-PC with Intel® processor	●
15” LCD-TFT graphic colour	●
1 GBbyte Compact Flash	●
USB ports	1
RJ45 network card	●

SOFTWARE

Microsoft® Windows® Embedded	●
TRIMCAM, software for programming on board of new profile codes	●

OVERALL DIMENSIONS AND POWER

Overall dimensions (width x length x height) (mm)	920 (2.460) x 2.179 x 1.782
Weight (kg)	620
Average absorbed power (kW)	3,5
Air consumption (Nl/min)	120

Included ● Available ○

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