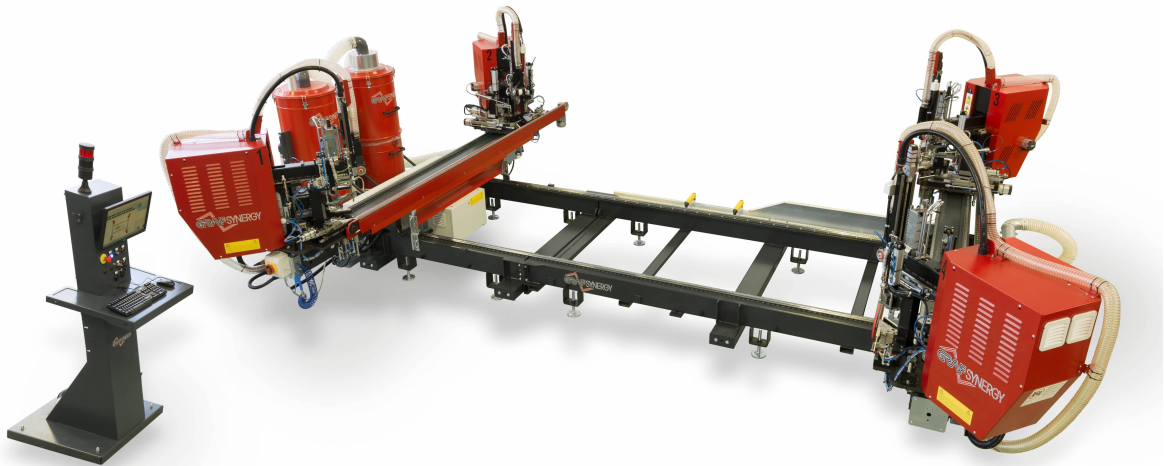


SL4-FF EVO DIA - 4 Head CNC Welding Machine



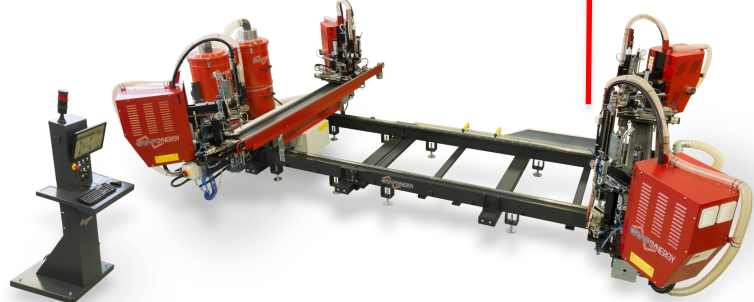
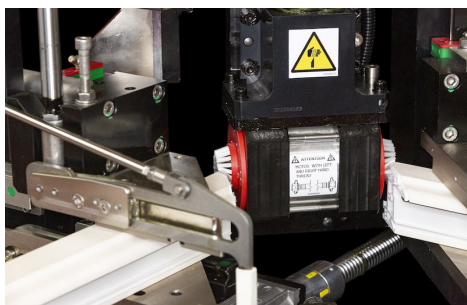
The first and only 4-head CNC welding machine in the world that completely eliminates the welding seam from the corner and allows you to obtain PVC windows of uniform quality and superior aesthetics.

A unique machine of its kind, it ensures perfect and simultaneous welding of 2 angles, guaranteeing absolutely flat and homogenous surfaces also with profiles that, instead of reinforcing metal, have inside them non-weldable products such as fibreglass, aluminium or resin. The DIA version allows the welding of the 4 external corners even with a pre-assembled cross beam.

Introduction

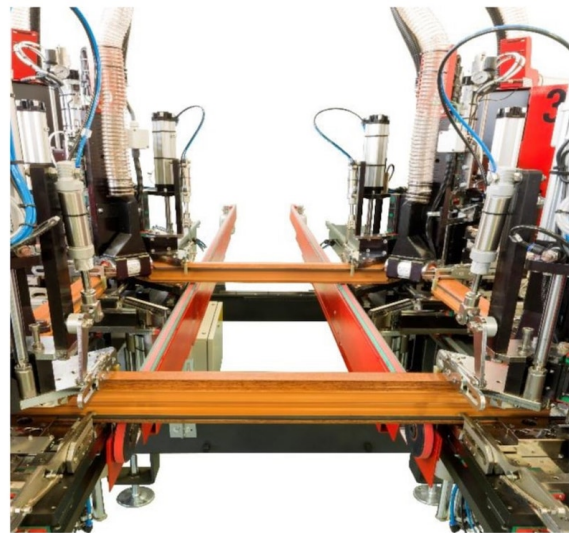
V-Perfect : The Perfect Weld

The patented V-Perfect Technology allows you to work with all types of coloured and foil products. Acrylic, laminated and aluminium coated profiles weld seamlessly without the need to touch up the finished weld.



5 Reasons to choose SL4-FF EVO DIA

- **Versatile** – Welds profiles coated with any type of film or foil
- **Efficient** – One operator required. The seamless welding eliminates the need for corner cleaning.
- **Labour Reduction** – Not having to finish the corners, only 1 operator is required to load the profiles.
- **Space Saving** – Extremely compact machine (starting from just 20m²)
- **Concise Welding** – All profile tolerances are measured prior to welding and recalibrated prior to the welding process.



All the necessary operations are therefore carried out automatically, **milling** with the High Speed System, **positioning** at the operating levels, **cyclical casting**, **compression** and **cooling** and, at the end of the process, release with finished profiles.

The SL4-FF EVO DIA is also equipped with a positioning system of the upper contour block with magnetic locking as well as the possibility to automatically adjust the burn (5÷6mm) and to compensate for the errors of the cutting angles, horizontal and vertical, within 2mm tolerance and automatically correct errors in profile height up to 0.7mm.



Specifications

- Length – 6,000mm
- Width – 5,100mm
- Height – 2,200mm
- Weight – from 3,300 to 5,000kg
- Installed Power – 17kW
- Power Supply – 400V
- Air Consumption – 180 NI/min
- Operating Pressure – 7 bar

Operating Features

- Composition – 4 head structure Quad
- Number of operators - 1
- Horizontal and simultaneous welding of the 4 corners
- Gasket processed directly during the welding cycle

Technical Features

- Up to 1 frame every 90-150 sec (depends on the types of profile, weld bead and loading speed)
- Maximum Dimension Welding Corner – 3,200mm (Up to 6,000mm on request)
- Minimum Dimension Welding Corner - 370mm
- Minimum Profile Height – 35mm
- Maximum Profile Height – 130mm
- Minimum Profile Width – 40mm
- Maximum Profile Width – 130mm

Optional

Upon request the machine can be equipped with the following:-

- Mobile unloading belts with lateral movement
- C-Welding
- 3-sided door framing welding U (including C-welding)
- Electronic control system of contour blocks
- UL/CSA compliant machine version
- Software for converting imported data files
- Cooling table
- Exhauster
- Production data monitoring – Control of all the data of the welded elements deriving from the optimization and manual production over time (change time of the contour blocks, monitoring of the working time, monitoring of the time for uploading from the cooling table).
- Welding option maximum height 180mm
- Welding option for 130mm wide profiles
- Different configurations for welding of different size from standard machine (3,200mm x 2,800mm)