

SL4-FF EVO



CNC 4-Head Welding Machine

The first and only 4-head CNC welding machine in the world that **completely eliminates the welding bead from the corner** and allows you to weld profiles with **glass or a closing panel already inserted** inside the switchboard.

Unique machine of its kind, it performs perfect welding guaranteeing absolutely flat and homogeneous surfaces **also with profiles that**, instead of the metal reinforcement, have inside them **non-weldable products such as fiberglass, aluminum or other components**.

Introduction

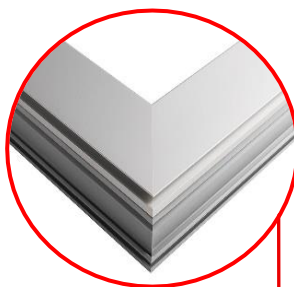


V-Perfect: *The Perfect Weld*

The basis of the project is the **V-Perfect technology**, a patent that allows you to work **painted or coated PVC profiles** with films but also to combine them with **acrylic coatings** or real materials such as **laminates in wood or aluminum** and **without having to touch up with the marker anymore**.

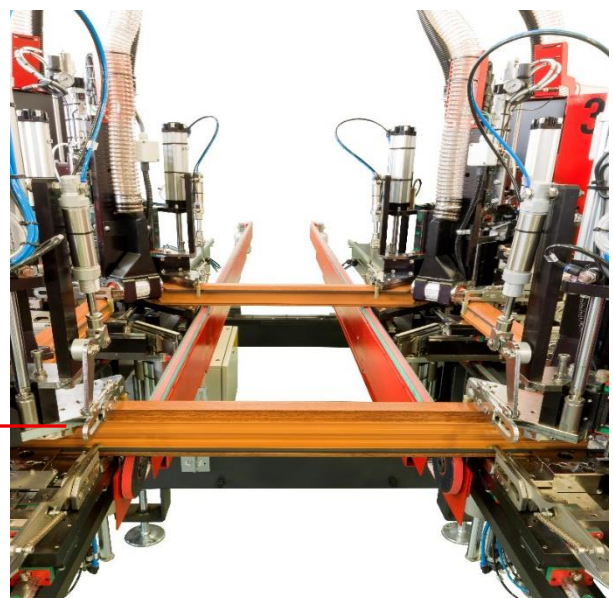


5 reasons to choose SL4-FF EVO



Every Material / Every Coating

- ✓ **Allows to weld profiles coated with any type of film or foil.**
- ✓ **Time and cost reduction:**
After welding, there is no need to clean or touch up.
- ✓ **Labor Reduction:**
Not having to finish the corners, only 1 operator is required to load the profiles.
- ✓ **Space Saving:**
Extremely compact machine (starting from just 20 m2).
- ✓ **Solves the problem of profile tolerances:**
It has a special automatic calibration system that allows you to compensate the profiles tolerances.



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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 the finished profiles.

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

Specifications

Dimensions

Length	6.000 mm
Width	5.100 mm
Height	2.200 mm
Weight	from 3.000 to 5.000 Kg

* Depending on the size required.

Details

Installed Power	17 Kw
Power Supply	400 V
Air Consumption	180 NI/min
Operating Pressure	7 bar

Operating Features

Composition

Structure

4 heads *Quad*.

Operators

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Machining

Horizontal and contemporary welding of the 4 corners.
Gasket worked directly during the welding cycle.

Technical Features

Performance

Up to 1 frame/90-150 sec.*

* Depending on the types of profiles, weld bead and loading speed.

Dimension Welding Corner

Maximum	3.200 mm
Minimum	370 mm

Dimension Welding Profile

Height	35 ÷ 130 mm
Width	40 ÷ 130 mm

Optional

Upon request the machine can be equipped with:

Additional heads for drilling and/or screwing of transverse.

Mobile unloading belts with lateral movement.

C-Welding.

3-sided door framing welding U (including C-welding).

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 countershims, monitoring of the working time, monitoring of the time for unloading from the cooling table).

Electronic control system of countershims.

Exhauster.

Machine version according to UL/CSA.

Software for converting imported data files.

Welding **option maximum height 180 mm.**

Welding **option for 140 mm wide profiles.**

Cooling table.

Different configurations for welding of different size from standard machine (3,200 x 2,800 mm).

Available Versions

Diagonal: Version for welding 4 angles with crosspiece already assembled.