

# SL4-FF EVO Wood

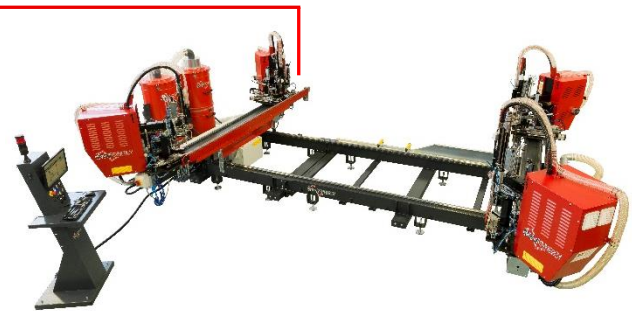


## CNC 4-Head Welding Machine

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 a joint that simulates the assembly angle of a wooden window frame on one of the faces. Unique machine of its kind, it performs both **seamless welds with traditional angle** joined at 45° and **“Timber look” effect** closures for which it welds one side at 45° and that of the opposite face at 90° while maintaining uniform quality and superior aesthetics.

The *SL4-FF EVO Wood* guarantees absolutely flat and homogeneous surfaces **even with profiles** that, instead of reinforcing metal, have inside them **non-weldable products such as fiberglass, aluminum or resin**.

### Introduction



### V-Perfect: *The Perfect Weld*

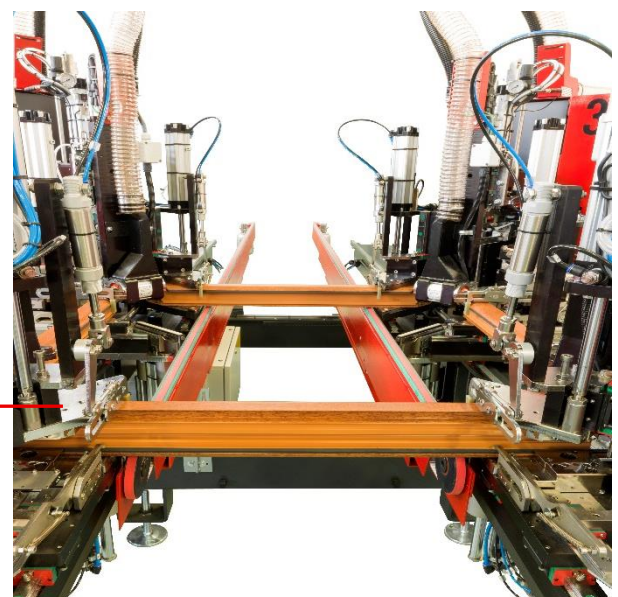
The basis of the project is the **V-Perfect technology**, a patent that allows you to work **painted or coated Pvc profiles** with films but also to combine them with **acrylic coatings** or real materials such as **laminates in wood or aluminum** and **without having to touch up with the marker anymore**.

### 5 reasons to choose SL4-FF EVO Wood



### Every Material / Every Coating

- ✓ **Flexibility:**  
Plant that makes seamless welding and “*Timber Effect*”.
- ✓ **Allows to weld profiles coated with any type of film or foil.**
- ✓ **Time and cost reduction:**  
After welding, it must not be cleaned or retouched, therefore the cleaner or the workpiece turning table are not required and only 1 operator is required.
- ✓ **Active Welding System:**  
The operator can intervene in advance on the expected final result.
- ✓ **Solves the problem of profile tolerances:**  
A special automatic calibration system allow to compensate for them.



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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.

While with traditional technology welding is "passive" as the result cannot be changed beforehand, with the seamless system it becomes "**active**" because thanks to an appropriate setting (milling, molds ...), **it's possible define the final result via software in advance** what concerns the finishing details and the desired performances.

## Specifications

### Dimensions

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

\* Depends on the dimension.

### 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** 1

### 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 (On request at 6.000)
Minimum	370 mm

### Dimension Welding Profile

Height	35 ÷ 180 mm
Width	40 ÷ 130 mm

## Optional

Upon request the machine can be equipped with:

**C-Welding.**  
**3-sided door framing welding U** (including C-welding).  
**Electronic control system of countershims.**  
**Software for converting imported data files.**  
**Mobile unloading belts** with lateral movement.  
**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 countershims, monitoring of the working time, monitoring of the time for unloading from the cooling table).