

# SL4FF 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, aluminium or other components**.

### Introduction

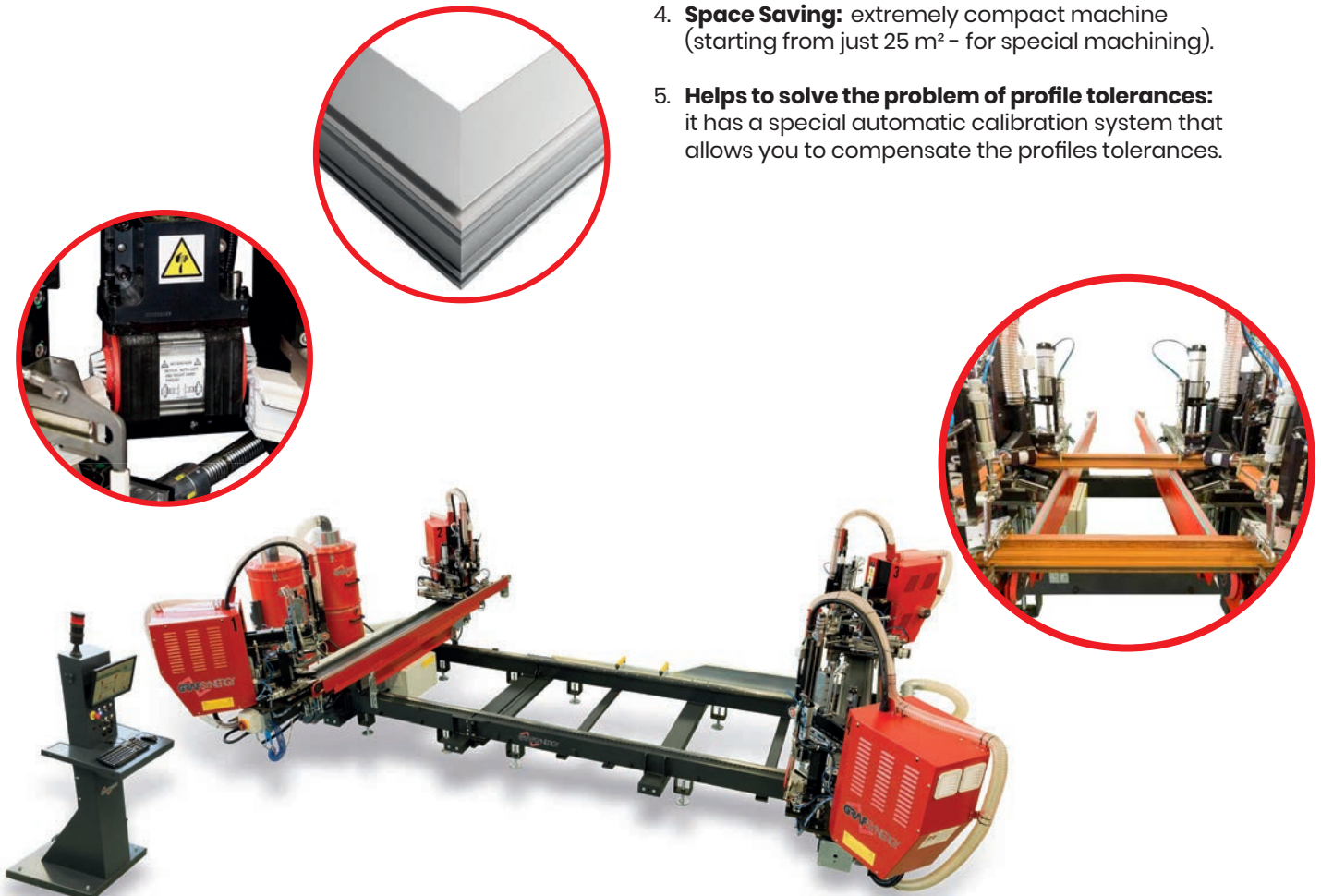
#### V-Perfect: The Perfect Weld

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 SL4FF EVO

#### Every Material / Every Coating

1. **Allows to weld** profiles coated with any type of film or foil.
2. **Time and cost reduction:** after welding, there is no need to clean or touch up.
3. **Labor Reduction:** not having to finish the corners, only 1 operator is required to load the profiles.
4. **Space Saving:** extremely compact machine (starting from just 25 m<sup>2</sup> - for special machining).
5. **Helps to solve the problem of profile tolerances:** it has a special automatic calibration system that allows you to compensate the profiles tolerances.



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 SL4FF 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 machining cycles in profile height up to 0.5 mm.

## Specifications

### Dimensions

Length	7.000-9.500 mm
Width	6.000-7.000 mm
Height	2.400 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	600 NI/min
Operating Pressure	7 bar

## Operating Features

### Composition

#### Structure

4 heads Quad.

#### Machining

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

#### Operators n. 1

## 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	300x330 mm

\* On request up to 6,000 mm

### Dimension Welding Profile

Height*	35 ÷ 130 mm
Width*	40 ÷ 130 mm

\*Out-of-limit dimensions subject to technical verification

## Optional

### Upon request the machine can be equipped with:

**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.**

#### Cooling table.

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

**RS – Rapid Speed** option.

### Available Versions

**Diagonal:** version for welding 4 angles with crosspiece already assembled.