

FAB CUT F1

Automatic Cutting and Machining Center

5-6 axis CNC cutting and machining center designed to perform all the machining and cutting in an optimized way on the Pvc profiles.

The system is composed of an automatic bar loading magazine which feeds, through a gripper pushed by a brushless motor, a **Machining Module capable of accommodating up to 12 spindles (6 Standard) High Speed** and a rising **1-blade Cutting Module** that guarantees extremely precise cuts.

Introduction



Accuracy and Reliability

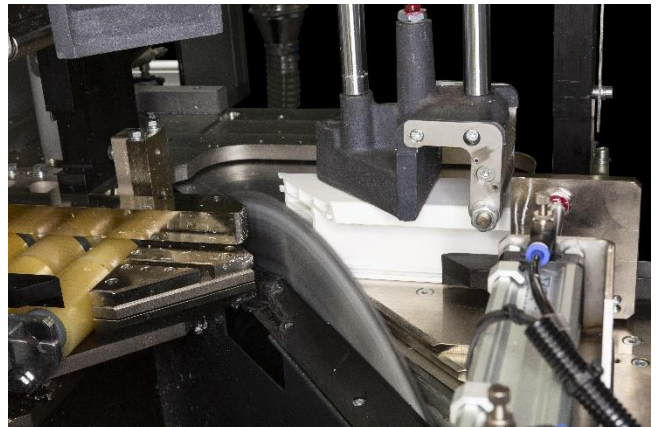
Compact and versatile, it is a system built with the most innovative technology available on the market and guarantees **extremely high reliability and precision over time.**

5 reasons to choose Fab Cut F1



Advanced Solutions

- ✓ **Versatile, reliable and precise over time.**
- ✓ **Optimize production lists:**
Fewer bars used thanks to *Graf Synergy* software.
- ✓ **Maximum Precision Over Time:**
Automatic profile alignment system (it linearizes the bar that is not perfectly straight) and *CNC Profile gripper* with reading of the real position by centesimal magnetic strip.
- ✓ **User Friendly:**
Intuitive system for simple management of work cycles.
- ✓ **High Technology:**
Machining Module capable of hosting up to 12 High Speed spindles (6 Standard) a *rising 1-blade Cutting Module*.



Fab Cut F1 is equipped with a modern **production list management software** that allows you to automatically import the cutting lists, allows the optimization of the number of bars to be used while keeping track of the machine's operation.

An **automatic profile alignment system** is also installed on the system which, in the event that the bar is not perfectly straight, linearizes it allowing optimal workpiece processing.

Specifications

Dimensions

Length	14.900 mm
Width	3.400 mm
Height	2.500 mm
Weight	3.000 Kg

Details

Installed Power	14 Kw
Power Supply	400 V
Air Consumption	120 NI/min
Operating Pressure	7 bar

Operating Features

Cutting Module

Structure

1 Blade Ø 500 with very high cutting precision over time also equipped with gasket.
Horizontal movement.

Machining

Cuts to -45° / 90° / +45°.

Machining Module

Struttura

6 Spindles *High Speed*.

Machining

Handle holes / Cylinder holes	Slots for condensate drain
Hinge holes	Burglary for the Lock
Ventilation holes	Closure Marking

All other possible machining required on Pvc profiles

Technical Features

Performance

Up to 300 Frames / 8h*

* It depends on the machining operations, the type of profile used, and the installed options.

Operators

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Loading Module

Loading warehouse with max of 8 bars.
Automatic bar loading system with straps.
Profile pusher moved by brushless motor and rack.

Profile Automatically Loadable

Length	700 / 6.500 mm
Width	40 / 130 mm
Height	40 / 130 mm

Discharge Module

Automatic extractor of cut profiles on a unloading table.
Unloading magazine with safety photocell.
Max capacity of unloading 15-20 pieces.

Optional

Upon request the machine can be equipped with:

Configuration with **6 additional spindles**.

Blade Ø 550 mm (necessary to cut **180 mm profiles**) with **additional presser kit**.

Retrieve Opt: The application allows you to re-insert the pieces to be machined again in the cutting lists following production errors, a new cutting list optimized for these.

Blade rotation by brushless motor for cuts at intermediate angles (between -45° and +45°).

Bar gripping system using a 2-axis CNC gripper on a linear motor on a prismatic guide.

Motorized unloading table with belts with output on the opposite side of the loading.

Exhauster with 2 bags.

Manual labeling machine.

Labeling machine with automatic label applicator.

Profile loading system for profile length from 400 to 700 mm.

Profile width measurement sensor: Alert to incorrect profile load.

Available Variants

Preparation for **cutting and machining aluminum profiles**.

Integration of the **automatic cross-sectioning unit**.

Integration of the **V-Notch cutting unit**.

Tool break sensors.

Horizontal profile clamps system with locking capacity for large section cuts (up to 230 mm).

Fly Optimizer: Automatic measurement system of the bar remains that allows you to optimize the production list again in order to reuse the production leftovers.

Customized solution for adapting the machine to profiles with particular shapes (post technical analysis).

Stats: Software for the analysis of production data that reports the timing of daily, weekly, monthly and annual operations.

Possibility of **predisposition for automatic connection** to one or two ASG-E screwing centers.

Chippings conveyor - Version 1.200 mm or 2.000 mm.

Soundproof booth.

Unloading table extension.

Horizontal clamps for cutting profiles 30-130 mm wide.

Profile height measurement sensor: Alert to incorrect profile load.

Inserting mechanical stops for fixed size intermediate cuts.