

# FAB CUT V

## Automatic Cutting and Machining Center

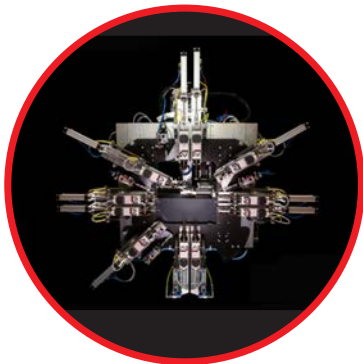
**6-axis CNC** cutting and machining center designed specifically for those who want to automate the production of the **Special Productions** Department.

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.

### Introduction

#### Maximum Versatility

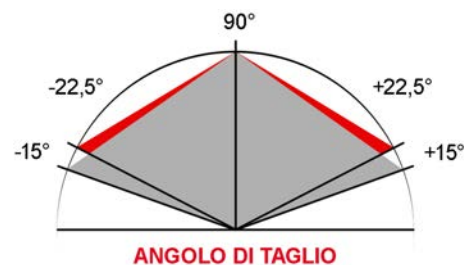
The system is composed of an automatic bar loading magazine which feeds, through a gripper pushed by a linear motor, a machining module capable of accommodating up to **12 spindles High Speed** (6 Standard) and a rising **1-blade cutting module** that guarantees cuts with extreme and intermediate angles.



### 5 reasons to choose Fab Cut V

#### Innovation and Automation

1. Specifically designed **to innovate and automate production in the Special Productions** Department.
2. It allows to obtain cuts **with extreme and intermediate angles**.
3. **High reliability and precision over time**.
4. **Automatic profile alignment:** linearizes the bar that is not perfectly straight allowing maximum precision.
5. **Production list management software:** allows the optimization of the number of bars to be used, the operator only has to loading and unloading the pieces.



Fab Cut V 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, and leaves the operator only the task of loading and unloading the material.

## Specifications

### Dimensions

Length	15.520 mm
Width	3.400 mm
Height	2.800 mm
Weight	3.600 Kg

### Dimensions

Installed Power	14 Kw
Power Supply	400 V
Air Consumption	180 NI/min
Operating Pressure	7 bar

## Operating Features

### Cutting Module

#### Structure

1 Blade Ø 550 with very high cutting precision over time of Pvc Profile also equipped with gasket.  
Rising movement.  
Rotation of the cutting angle by brushless motor and reading on the centesimal magnetic strip.

#### Machining

Cuts to  $-22,5^\circ$  /  $+22,5^\circ$ .

### Machining Module

#### Structure

6 Spindles High Speed.

#### Machining

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

All other possible machinings required on Pvc profiles

## Technical Features

### Performance

Up to 150 Frames / 8h\*

\*Depending on processing and type of profile used.

### Operators n. 1

### Loading Module

Loading magazine with max of 10 bars.  
Bar loading system with straps.  
Bar gripping system using a 2-axis CNC gripper controlled by a prismatic guide linear motor with position reading on a centesimal magnetic strip.

### Profile Automatically Loadable

Length	500 / 6.500 mm
Width	40 / 130 mm
Height	40 / 180 mm

### Discharge Module

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

## Optional

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

Configuration with **6 additional spindles**.

**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.

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

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

**Exhauster** with 2 bags.

**Manual labeling machine.**

**Tool break sensors.**

### Available Variants

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

**Labeling machine with automatic label applicator.**

**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.

**Stats:** software for the analysis of production data which 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.**

**Motorized degree divisor:** allows **cutting angles from  $-15^\circ$  to  $+15^\circ$ .**