

# STEEL FAB CUT LASER



## Cutting and Working Centre for reinforcements - Blade + Laser

Cutting and working centre that combines **blade cutting with laser technology**, managed by a sophisticated 4-axis numerical control system that **allows all necessary machining operations to be carried out - slots, holes and notches - as well as cutting on metal reinforcements.**

A unique, intuitive and easy-to-use system designed to **reduce execution times** and equipped with modern **production list management** software that allows you to **automatically import cutting lists** and synchronise production when it is in line with *GRAF Synergy* cutting and working centres.

### Presentation



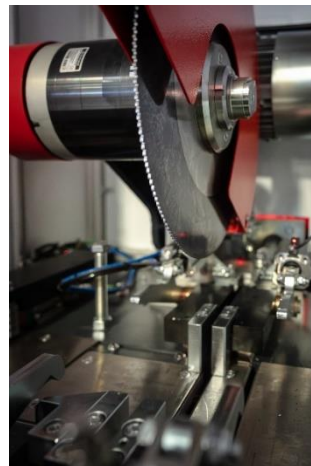
### Optimise production lists

The application allows the number of bars to be used to be optimised using **Fly Optimizer**, an innovative automatic bar remnant measurement system that allows the production list to be optimised again so that scraps can be reused.

### 5 reasons to choose STEEL FAB CUT Laser

#### Cutting-edge technology

- ✓ A unique system equipped with **extremely innovative technology.**
- ✓ **Reduces execution times:** Makes cutting reinforcements efficient.
- ✓ Allows **synchronised operation** with PVC profile cutting.
- ✓ **Automatically optimises cutting.**
- ✓ **Electronic blade wear control.**



The *STEEL FAB CUT Laser* is equipped with an automatic bar loading warehouse with **rack pusher** that feeds a laser cutting and processing module and a cutting module with descending blade.

Thanks to the **possibility of aligning the finished pieces on both sides** of the unloading table (optional), it is possible to configure the unloading with either an internal exit (U-shaped line) or an external exit (Z-shaped line).

## Specifications

### Dimensions

Length	15.500 mm
Width	4.000 mm
Height	2.800 mm
Weight	4.500 Kg

### Details

Power Installed	30 Kw
Power supply	400 V
Air consumption	1.200 NI/min
Min. Exercise Pressure	7 bar

## Operational Characteristics

### Cut Module

#### Structure

1 Blade Ø 350 mm.  
Descending Movement.

#### Processing

Cut at 90°.

### Work Module

#### Structure

4-axis CNC-controlled **laser** structure  
Rotary Movement

#### Processing

All processing required on metal profiles.

## Technical Characteristics

### Load Module

Loading warehouse with max. capacity of 9 bars.  
Bar loading system via metal chain.  
Profile pusher driven by brushless motor and rack.

### Operator

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### Automatically Loadable Profile Dimensions

Length	700 / 6.500 mm
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### Workable Profile Dimensions

Width Max	80 mm	Height Max	80 mm
Width Min	20 mm	Height min	20 mm

### Discharge Module

**Automatic extraction and unloading** of cut pieces using a second dedicated gripper on a controlled axis.  
Metal unloading table with safety photocell.  
Automatic system for unloading small scraps into the scrap bin.  
Max. unloading capacity 10 pieces.

## Optional

### Upon request, the system can be equipped with:

Extended unloading option for improved productivity.

**Automatic unloading table** - Width 5,000 mm.

**Clamping with controlled axes.**

#### Available Variants

Set-up with **blade cutting only..**

#### Controlled blade descent.

**Blade rotation motor** managed by electronic inverter for current consumption control.

**Positioning of unloaded profiles** on steel conveyor belt.

## Advantages of Laser cutting

- Reduced tool wear
- Greater repeatability over time
- Concentrated heat input with reduction of the heat-affected zone in the metal: minimal thermal distortion, very low structural alterations to the material, reduced cycle times, high productivity
- Better cut quality
- Cleaner process, less fumes and spatter