STEEL CONNECT

Cutting centre for reinforcements

Blade cutting centre for **steel reinforcements** of PVC window profiles.

An intuitive and user-friendly machine, designed to **reduce lead times** and equipped with modern production **list management** software that allows **cutting lists to be automatically imported** and production synchronised when in line with GRAF Synergy cutting and machining centres.

The **CONNIE module** turns into a revolutionary cutting centre combined with a brand new **module for welding the metal blanks of internal reinforcements to PVC profiles**. It takes advantage of a totally innovative approach to **drastically reduce the waste** of metal blanks, otherwise destined for disposal and recovery as metal scrap. It offers window and door manufacturers concrete advantages, not previously possible, both from an environmental and economic sustainability point of view.

Presentation

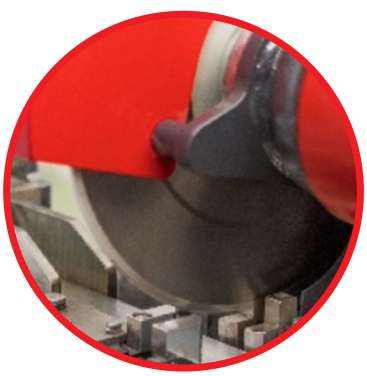
Optimises production lists

The application allows the optimisation of the number of bars to be used by means of the **Fly Optimizer** (optional), an innovative system for automatic measurement of bar remnants, which allows the production list to be re-optimised in order to be able to reuse waste.

5 reasons to choose Steel Connect

Cutting-edge technology

1. **Reduces lead times:** makes reinforcement cutting efficient.
2. It allows operation **in synchrony with the cutting of PVC profiles.**
3. **It automatically optimises the cut.**
4. **Electronic blade wear control.**
5. **Electronic control of cutting speed** for consistent cutting and longer blade life



The Steel Connect is equipped with an automatic bar loading magazine with a **rack pusher** that feeds a cutting module with a descending blade.

Thanks to the **possibility of aligning finished parts on both sides of the unloading table**, it is possible to configure the ejection of aligned parts at the beginning or at the end of the unloading according to production flow requirements (optional).

Specifications

Dimensions

Length	14.900 mm
Width	3.400 mm
Height	2.800 mm
Weight	2.500 Kg

Details

Power installed	10 Kw
Power	400 V
Air consumption	200 Nl/min
Min. Exercise Pressure	7 bar

Operational Characteristics

Cutting Module

Structure
1 Blade Ø 350 mm.
Downward movement at a constant, controlled speed.

Machining
Cut at 90°.

Technical Characteristics

Performance

Up to 1800 cut/ 8h*
*Dependent on the section and type of metal to be cut and the machine configuration.

Operators n. 1

Automatically Loadable Profile Dimensions

Length	700 / 6.000 mm

Workable Profile Dimensions

Max Length	80 mm
Min Width	20 mm
Max Height	60 mm
Min Height	20 mm

Loading Module

Loading magazine with a maximum capacity of 10 bars.
Bar loading system by means of chains.

Profile pusher driven by brushless motor and rack.

Unloading Module

Pneumatic cut piece extractor on unloading table..
Steel unloading table with safety photocell..

Max. unloading capacity 10 pieces.

Optional

AOn request, the machine can be equipped with:

Possibility of **lengthening the distance between cutting and unloading** to reduce the waiting time between one cut piece and the next, increasing productivity.

Increased automatic unloading table - width 5,000 mm.

Labelling machine for cut piece identification

Electronic axis-controlled **cutting speed control.**

Fly Optimizer to optimise bar recovery.

Soundproof cabins.