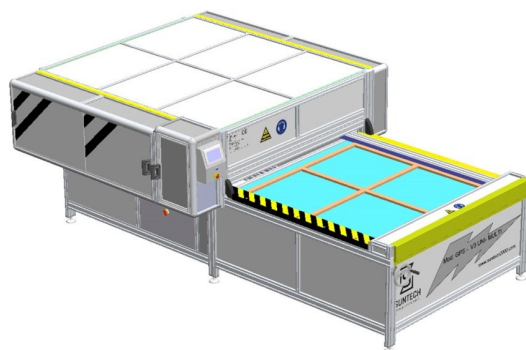


## Automatic Fabric Stapling and Stretching for Racks with Wooden frame (Canvas)



### GPS-V3 UNI-MULTI



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### BASIC OPERATION, FROM A FLEXIBLE SEMI-AUTOMATIC CONCEPT

The **GPS-V3 UNI-MULTI** is the definitive solution for the stretching and stapling of canvases in wooden frames, of small, medium and large sizes, that include constant changes of formats, as well as different thicknesses of the wooden frames.

A semi-skilled, non-technical operator is required for production. He simply places the wooden frame on the canvas, on the stapling table, with the references provided by the machine. You only have to worry that your work is efficient, since the rest is done by the machine.

It works in a TWO stage process. Stretching and stapling two opposite sides at the same time, in a 1st stage, and positioning the frame, rotated 90°, in a 2nd stage. The detection of the measurement in each stage is automatic. The staples are distributed according to the detected length. Continuous and variable changes in frame size provide great flexibility and productivity.

The **GPS-V3 UNI-MULTI** supports wood frame thicknesses, from 16mm to 45mm in height. This selection can be previously programmed for the most commonly used thicknesses. Or it is entered on the keyboard millimeter by millimeter. And with a press on the screen, the thickness to be used is selected and the frame stops are automatically positioned at the appropriate distance from the development of the fabric.

The **GPS-V3 UNI-MULTI** can process multiple frames at the same time, in both stages. Provided that the sum of all the frames deposited on the table does not exceed 1500mm. Logically, productivity with small frames will be increased if the appropriate production methodology is used.

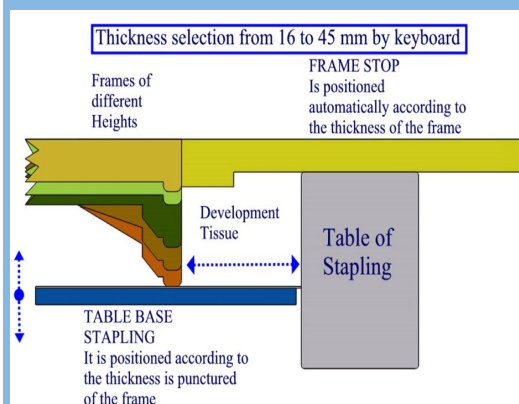
The **GPS-V3 UNI-MULTI** uses high-performance stapling technology, containing staple feed magazines of more than 10,000 units, allowing long periods without constant refilling. Automatically detects when the staple level drops to a minimum level.

The **GPS-V3 UNI-MULTI** controls the fabric tension, electronically, in very small numerical magnitudes depending on the type of fabric and the quality of tension chosen.

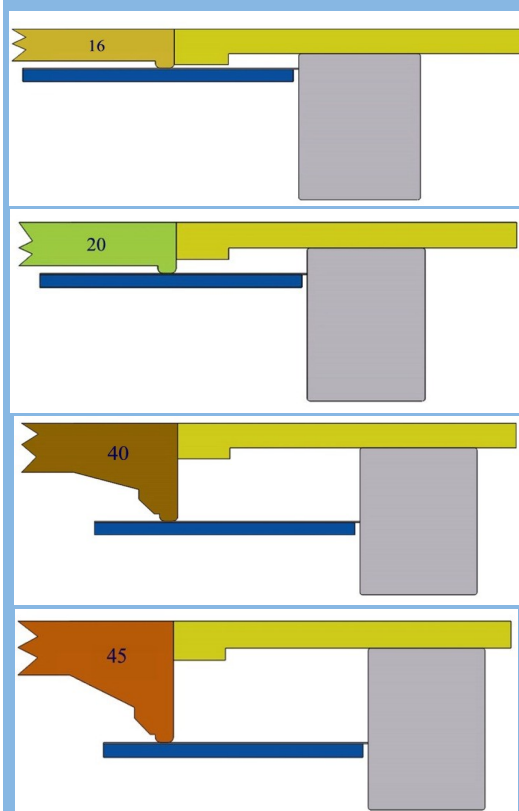
The **GPS-V3 UNI-MULTI** electronically controls and regulates the travel speed of components that travel in long strokes, such as staplers and stapling table, without consuming compressed air.

The **GPS-V3 UNI-MULTI** controls the depth of the staples when lowering the stapler to search for the fabric, in two ways. With adjustable mechanical stop, or by pressure of support on the fabric. This last option is the closest to how staples are embedded when manual stapling is performed. All the staples at the same depth, as the nose of the stapler travels against the fabric. This pressure is adjustable.

## FRAME THICKNESS SELECTION SCHEME



## EXAMPLES OF PROGRAMMED THICKNESSES



## MULTIPLE FRAME PROCESSING

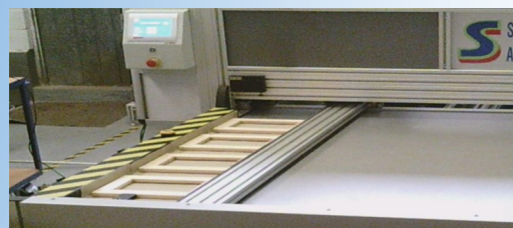
It is one more feature of the **GPS-V3 UNI-MULTI** for small size frames, whose format allows to deposit more than one quantity on the Stapling Table, both in the 1st Phase and in the 2nd Phase.

But it should be noted that in the multiple process, it is not only the speed of the machine that is fundamental, but the procedure used and the skill of the operator. This is essential in the MULTIPLE process.

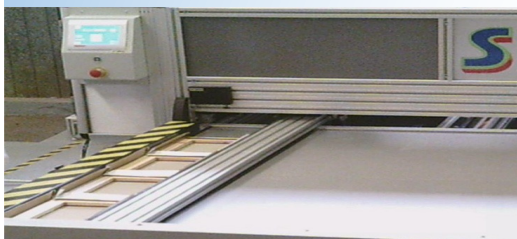
A productive organization of long series must be employed. In order for the operator to use the same folding and positioning movements per phase. Finish the series in the 1st Phase and start the 2nd Phase

The computation of both phases will be favorable to a high production.

**1st PHASE (Indicate on Screen: Phase number + Number of Frames + Tissue Development)**



**2nd PHASE (indicate on the screen: Phase number + number of Frames)**



## FABRIC PROCESSING WITH IMAGES



Stretch and staple processing on image-printed fabrics is easy with the **GPS-V3 UNI-MULTI**. The references that the machine provides to place the fabric on the stapling table are very useful for centering the wooden frame with respect to the fabric. Once the developments that come out of the thickness of the frame have been defined, plus the reverse of the fabric on the frame, and by entering these data on the screen, the machine places the necessary references in their position, without the need to print reference marks on the fabric.

## SOME PRODUCTION GUIDANCE DATA

Frame (cm)	Process	Cant./hora
150 x 150	Fase1 + Fase2	60-80
100 x 100	Fase1 + Fase2	70-90
600 x 600	Fase1 + Fase2	80-100
300 x 300	Fase1 + Fase2	95-110
200 x 220	MULTIPLE	190-220