

SUMMA F SERIES™ Pro Flatbed Systems

You asked for it.



One machine, countless possibilities.
Introducing the most versatile flatbed cutting system ever.

Flatbed



SYSTEMS

With the F Series, Summa launches a completely new cutting product line based on 25 years of expertise building the world's very best cutting plotters. These advanced engineered flatbed cutting tables are capable of cutting sheet and rigid materials as well as roll stock. Up to three tools can be inserted at one time on the multi module tool holder. Changing tools is quick and easy. Automatic tool recognition, combined with digital and mechanical depth and or pressure control, insures precision cutting on a wide variety of materials.

The F Series base unit comes equipped with a drag module and Summas revolutionary optical camera marker recognition system for accurate contour cutting of printed flexible or rigid substrate materials.



Summa®



On the multi functional head, three modules can be mounted with a single screw system. Each module has an ID which is automatically recognized when the module is installed.

The central unit is equipped with a **laser pointer** for positioning the origin and setting material boundaries.

Furthermore, the integrated **camera** system that reads the registration marks guarantees fast and accurate contour cutting.

Multi Functional Head



Vacuum Table with Vacuum Selector & Vacuum Pump, Sound absorber and Switching Valve

The powerful **vacuum pump** with **sound absorber** holds the material steady in place during the job. Moreover, by blowing under the material that floats over the table, the electronic **switching valve** makes loading and unloading a child's play.

The **vacuum selector** adjusts the vacuum width automatically to the working area.

Multiple material handling options ensure optimal workflow for roll, sheet and board material.



Media advance Clamps, Roll support and Conveyor System.

Pneumatically driven **media advance clamps** hold the material down while pulling it forward in order to work continuously in panels or multiple jobs.

The **roll support** with media flanges keeps the media aligned for correct loading.

Thanks to the **conveyor** system, material is also be fed in cutting through jobs.

The F1612s **basket** is a separate unit mounted on sturdy rollers which is specially developed to capture the cut-out samples and the waste material from the F1612 in order to keep the workspace clean.



The **Tangential module** is the most powerful and most flexible module: it offers a vertical force of 12 kg and corresponds to a whole range of matching tools. Each tool has its own barcode ID that ensures automatic recognition and parameter setting.

For each application, an according tool can be installed on the tangential module.

The **Kiss cutting tool** is able to kiss-cut the most demanding roll-material with the highest accuracy.

The **Cutout tools** are able to cut through: the Single edge cutout tool is appropriate for most detailed cutting (eg. in vinyls, thin cardboard, ...). The Double edge cutout tool ensures minimal wear while cutting in tough materials (eg. magnetic, textile ...) and the Heavy Duty cutout tool is suitable for thicker materials (eg. softboard, carpet, ...).

The **Oscillating Tools** are most suitable for corrugated cardboard and foamboards.

The various **Creasing Wheels** make folds in a variety of cardboards.

The **V-Cut tools** are basically a static knives placed under an angle (45°, 30°, 22.5°, 15°, 0°) in order to produce angled cuts. By cutting in two directions, V-groves are cut out.



Tangential Module



Drag Module



The **Drag module** is a super fast module for making notations with pens or kiss-cutting a wide range of materials with a pressure of 600 gr. using a drag knife.

The **Router module** is capable of milling most used solid boards in the graphic and sign industry, such as hard foam PVC, acrylic and aluminium covered foam boards. The module has a 1 kW motor. The router also includes a vacuum cleaning kit to take away the chips and dust.



Axis Control



Axis Control standard delivered software that gives full control over Summa's cutting table at your fingertips. The optimized design for touch screen control makes Axis Control the optimum interface for the machine operator. Thanks to Summa's *remote controller*, the operator is even free to move around the table while changing the basic settings.



SummaFlex is a front-end application with job preparation, post processor and import plug-ins for CAD and illustration software (e.g. AutoCAD, Illustrator, CorelDRAW). The software integrates the Summa table perfectly into your workflow. It is the perfect link between your design station, RIP station, printers and cutting devices.



SummaFlex Pro

Once the workflow is set up, macros automate the process. Consequently the operator's handling before starting the next job is reduced to a minimum as well as the downtime of the table.

SummaFlex Pro has all the goodies of the standard version plus support for optical camera recognition, allowing for maximum flexibility in positioning marks and increased accuracy when contour cutting.



The sturdy *Extension Tables* can be placed in front and in the back of the table and adjusted to the correct height. Board material, several times longer than the F1612 working area, can be processed this way in combination with the conveyor belt system. The tables can also be used to place



the next job in the queue and post process the previous job. Not in use, the tables can be folded to take minimal space.

The *Basket* is mounted on sturdy roller casters so it can be easily moved around. Magnets keep the trolley in position when placed in front of the table. The front part can be tilted so the table is easily accessible for the operator.

The *Basket* is a handy tool to capture the cut-out samples and or the waste material, keeping the workspace clean. It can capture several metres of roll material.

The basket can be taken out to carry and idle it completely.

Model	F1612
Dimensions	235 X 194 X 110 CM (WITHOUT ROLL SUPPORT)
Media Width	UP TO 165 CM
Cutting Area	160 CM WIDE X 120 CM LONG UP TO 50 M LONG IN MULTI PANEL
Repeatability	WITHIN +/- 0.05 MM ON PLOTS
Accuracy	0.05 % OF MOVE OR 0.05 MM, WHICHEVER IS GREATER
Speed	UP TO 1000 MM/SEC
Acceleration	UP TO 1 G
Maximum Allowed Forces	VERTICAL: 200 NEWTON HORIZONTAL: 200 NEWTON
Connectivity	USB 2.0
Requirements	3X400V+N OR 3X230V OR 3X208V+N

*For complete specifications, visit www.summa.eu



The *Safety Pack* assures maximum security. A laser-beam system surrounds the table and controls the area. The unit can work with full power in production mode, while when put into safety mode, machine settings can be securely adjusted.

