

No other machine can match the versatility and adaptability of the Summa F Series. Its robust construction, accuracy and multi-functional head allows you to install up to three tools simultaneously from a wide range of options, making countless applications possible. Since the tools and modules can be added at any time, upgrades are easy and cost-effective.



## TANGENTIAL MODULE

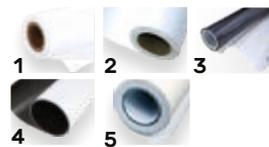
The powerful Tangential Module offers a vertical force of 10 kg and a horizontal force of 20 kg and corresponds to a wide range of matching tools. Each of the many and varied tools has a barcode ID, which ensures automatic recognition and parameter settings. Also, multiple Tangential Modules can be added into the multi-functional head to allow multiple jobs to be assigned to a single machine, such as creasing and cutting, without having to remove modules.

### 1 Kiss-Cut Tool

With mechanically-controlled knife pressure, this tool is specifically designed for kiss-cutting material down to its liner up to 1.2 mm thick. This tool also includes an adjustable nose piece for precise depth control.



Ideal for cutting



1. Paper < 200 gr
2. Adhesive vinyl / Sandblast material
3. Window film
4. Magnetic material
5. Adhesive PVC banner vinyl

Blades

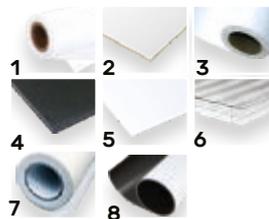


### 2 Single Edge Cutout Tool

The Single Edge Cutout Tool is designed for detailed cutting through material up to 6 mm thick. A spring-loaded gliding disk allows cutting of very precise details and can be fixed at a set depth.

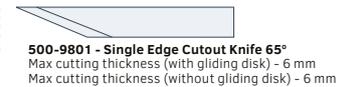


Ideal for cutting



1. Paper < 200 gr
2. Cardboard 300-500 gr
3. Adhesive vinyl
4. Hard foamboard <= 2 mm
5. Polypropylene <= 1.2 mm
6. Polycarbonate <= 0.6 mm
7. Adhesive PVC banner vinyl
8. Magnetic material

Blades



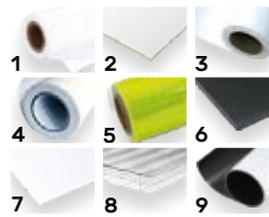
### 3 Double Edge Cutout Tool

The Double Edge Cutout Tool ensures minimal wear when cutting through rigid material up to 5 mm thick.

Again, a spring-loaded gliding disk allows cutting of very precise details and can be fixed at a set depth.



Ideal for cutting



1. Paper < 200 gr
2. Cardboard 300-500 gr
3. Adhesive vinyl
4. Adhesive PVC banner vinyl
5. Reflective sheeting
6. Hard foamboard <= 1.2 mm
7. Polypropylene <= 1.2 mm
8. Polycarbonate <= 0.6 mm
9. Magnetic material

Blades

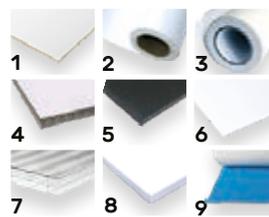


### 4 Heavy Duty Cutout Tool

The Heavy Duty Cutout Tool is suitable for cutting through thicker material up to 15 mm thick.



Ideal for cutting



1. Cardboard 300-500 gr
2. Adhesive vinyl
3. Adhesive PVC banner vinyl
4. Corrugated plastic <= 5 mm
5. Hard foamboard <= 1.2 mm
6. Polypropylene <= 0.6 mm
7. Polycarbonate <= 0.6 mm
8. Foamboard with paper <= 5 mm
9. Varnish blankets

Blades



## 5 Creasing Tools

Several Creasing Wheels, designed in different depths and radius sizes, are available for creasing and scoring paper, cartons, polypropylene and PVC material.



- 500-9325**  
Creasing Tool D25 R3 W8  
corrugated C-B-C Flute (4-7 mm)
- 500-9326**  
Creasing Tool D25 R1.5 W8  
corrugated B-C Flute (3-4 mm)
- 500-9327**  
Creasing Tool D25 R0.75 W1.5  
corrugated E-B Flute (1.5-3 mm)
- 500-9328**  
Creasing Tool D15 R0.35  
W0.7 - 2pt  
cardboard 300 - 500 gr m<sup>2</sup> /  
corrugated E Flute (1.5 mm)
- 500-9329**  
Creasing Tool D15 R0.17  
W0.35 - 1pt  
polypropylene sheets <= 1.2 mm

## 6 V-Cut Tools

The V-Cut Tools are available in 5 angles and are designed to cut a V-shaped groove in rigid sandwich and foam composite boards up to 27 mm thick, depending on the material's density.



- 500-9340**  
V-Cut 0°
- 500-9341**  
V-Cut 15°
- 500-9342**  
V-Cut 22.5°
- 500-9343**  
V-Cut 30°
- 500-9344**  
V-Cut 45°

Ideal for V-groove cutting

- Honeycomb board
- Re-board®
- Foamboard with paper <= 5 mm
- Foamboard with paper > 5 mm

Blades

**500-9825 - V-Cut Blade 0.9 mm**  
Max cutting thickness 18-27 mm

**500-9826 - V-Cut Hard Metal**  
Max cutting thickness 18-27 mm

## 7 Electronic Oscillating Tool EOT

Ideal for cutting soft and medium density materials such as corrugated board and foam up to 18 mm thick. The Electronic Oscillating Tool is driven by an electric motor, producing up to 12,000 rpm and moves a knife up and down over a stroke of 1 mm.



Ideal for cutting

- Corrugated B-C-E Flute (1.5-4 mm)
- Foamboard with paper <= 10 mm
- Foamboard with paper > 5 mm
- Honeycomb board < 10 mm
- Gasket

Blades

- 500-9800 - EOT L25 Knife 65°**  
Max cutting thickness (with gliding disk) - 5 mm  
Max cutting thickness (without gliding disk) - 5 mm
- 500-9810 - EOT L25 Knife 65° - 80°**  
Max cutting thickness (with gliding disk) - 5 mm  
Max cutting thickness (without gliding disk) - 11 mm
- 500-9811 - EOT L25 Knife 65° - 85°**  
Max cutting thickness (with gliding disk) - 5 mm  
Max cutting thickness (without gliding disk) - 11 mm
- 500-9815 - EOT L33 Knife 45° - 85°**  
Max cutting thickness (with gliding disk) - 13 mm  
Max cutting thickness (without gliding disk) - 19 mm
- 500-9813 - EOT L25 Knife 0° - 75°**  
Max cutting thickness (with gliding disk) - 5 mm  
Max cutting thickness (without gliding disk) - 6 mm
- 500-9814 - EOT L38 Knife 45° - 86°**  
Max cutting thickness (with gliding disk) - 18 mm  
Max cutting thickness (without gliding disk) - 24 mm
- 500-9812 - EOT L28 Knife 65° - 85°**  
Max cutting thickness (with gliding disk) - 8 mm  
Max cutting thickness (without gliding disk) - 14 mm

## 8 Pneumatic Oscillating Tool POT / POT-L<sup>NEW</sup>

The Pneumatic Oscillating Tool <sup>(A)</sup>, powered by compressed air, moves its knife up and down over a stroke of 8 mm.

The Pneumatic Oscillating Tool-L (POT-L) <sup>NEW (B)</sup> is an addition to the standard POT and is used with a Longer type of knife. The POT-L is able to process thick, soft foams with a maximum thickness up to 42 mm.

The robust construction of the tool makes it suitable to cut thick material, such as honeycomb board, corrugated board and foam board.



Ideal for cutting

- Triple walled cardboard
- Double walled cardboard
- Packaging Foam
- Honeycomb board >= 10 mm
- Foamboard with paper > 5 mm
- Re-board®
- Foamboard with plastic
- Rubber

Blades

- 500-9830 - POT Knife Flat Point L20 T0.63**  
Max cutting thickness - 18mm
- 500-9831 - POT Knife Flat Point L27 T0.63**  
Max cutting thickness - 25mm
- 500-9832 - POT Knife Flat Point L20 T1.5**  
Max cutting thickness - 18mm
- 500-9833 - POT Knife Serrated L27 T1.0**  
Max cutting thickness - 25mm
- 500-9834 - POT Knife Point L20 T1.0\***  
Max cutting thickness - 16mm  
\*Extra protective mat recommended
- 500-9835 - POT-L Knife L50 T1.0\***  
Max cutting thickness - 42mm  
\*POT-L Tool Only

## DRAG MODULE

The Drag Module makes notations with pens or kiss-cuts a wide range of material with a pressure of 600 grams of downforce, using a drag knife.

Identical to the Tangential Module, multiple Drag Modules can be added into the multi-functional head to allow both kiss-cutting and drawing without the need to remove modules.



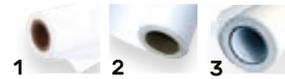
### 1 Drag Knife Tool

The Drag Knife Tool is specifically designed for fast kiss-cutting a wide range of material.

With 600 g of force, this tool is ideal for cutting through a wide range of adhesive vinyls.



Ideal for cutting



1. Paper < 200 gsm
2. Adhesive vinyl
3. Adhesive PVC banner vinyl

Blades



391-231 - Drag Knife - 60°  
Max cutting thickness - 0.6 mm



391-358 - Drag Knife - 55°  
Max cutting thickness - 0.8 mm



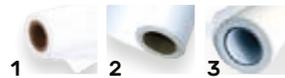
391-360 - Standard Knife 36°  
Max cutting thickness - 0.25 mm

### 2 Pen Tool & Universal Pen Holder Tool

Attached to the Drag Module, this fast and accurate tool allows precise drawing on a range of materials, using either our own brand of fiber tip pens or a variety of third-party pencils and pens in a multitude of sizes and diameters, using the Universal Pen Holder Tool.



Ideal for cutting



1. Paper < 200 gsm
2. Adhesive vinyl
3. Adhesive PVC banner vinyl

Pens



MP06BK - Fibre Tip Pen - Black



395-430/395-431 Roller Ball Pen  
Black / Blue

Pen holder



**Universal Pen Holder / Black**  
accepts pen/pencils from 6.5 mm to 10 mm in diameter



**Universal Pen Holder / Copper**  
accepts pen/pencils from 9.5 mm to 11 mm in diameter

## HIGH TORQUE ROTARY MODULE <sup>NEW</sup>

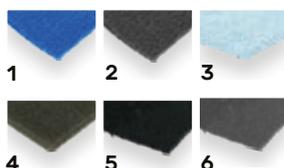
The High Torque Rotary Module on the Summa F Series is driven by an electronic motor and is capable of handling all kinds of textiles. Thanks to extra rotational power, the HT RM is also able to cut tougher and thicker substrates, such as banner material.

In general, the vacuum table has less grip on textiles. However, the Rotary Knife produces minimal horizontal forces, ensuring the material stays in place. Consequently, also extremely porous material can easily be processed with the HT RM.

The module is compatible with all existing F Series installations.



Ideal for cutting



1. Fleece
2. Felt
3. Packaging Foam
4. Foam <= 5 mm
5. Synthetic Textiles
6. Technical Textiles

Decagonal Knives



500 - 9860 Decagonal Knife D25  
Max cutting thickness - 1.5 mm



500 - 9861 Decagonal Knife D28  
Max cutting thickness - 3 mm



500 - 9862 Decagonal Knife D32  
Max cutting thickness - 5 mm

## ROUTING MODULE

### Standard Router

The Standard Routing Module on the Summa F Series has a 1 kW motor, capable of handling most solid boards in the graphic and sign industry. Hard foam PVC, acrylic and aluminum covered foam boards as well as other materials, such as wood and MDF can be processed.

### HF Router (High Frequency Router)

The HF Routing Module is equipped with a high-frequency spindle and a higher power output, which allow higher processing speeds. The utmost balanced, high-frequency spindle provides for a much smoother finishing of rigid substrates. The bit is pneumatically controlled and can be replaced manually in a fast and simple way. This maximizes productivity of the cutter when processing, for instance, acrylics, wood and plastics.

The Routing Modules for the F Series allocate slots 2 and 3 of the head. Slot 1 remains free for another tool. Of course, the modules can easily be attached to the mounting pole when not in use, making the two slots available again for other modules and tools. The modules are compatible with existing installations with a 3-phase power connection. Summa GoProduce can drive the modules without the need to purchase any additional software upgrades.



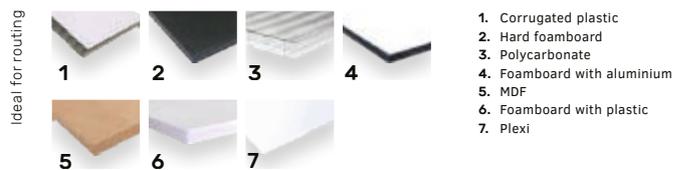
STANDARD ROUTING MODULE



HF ROUTING MODULE



GANTRY

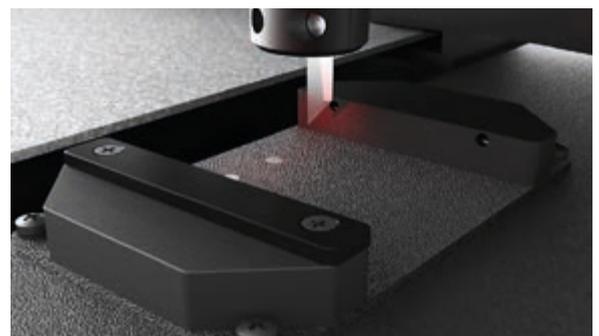


Both Routing Modules come with a vacuum cleaning kit to remove unwanted chips and dust. The kit includes a brush assembly, host and mounting pole (gantry). The vacuum cleaner is an optional accessory.

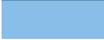
## AUTOMATED DEPTH CONTROL / ADC

The Automated Depth Control (ADC) simplifies tool, knife or bit changes significantly. The ADC measures the tip of the knife or bit accurately and sets the down position of the tool to the level of the table.

When starting up the unit or after a tool change, all installed tools are measured to detect changes and avoid operator errors. The measurement only takes a few seconds and provides for a swift tool change. On all tangential controlled tools, the ADC can also detect the tangential calibration values (Origin, Lat and Long). This ensures the best settings can always be used to get the most optimal cut quality.



# TOOL APPLICATION OVERVIEW TABLE

Recommended   
Alternative 



Drag knife    Kiss Cut + standard knife    Kiss Cut + 390-560 knife    Kiss Cut + 390-550 knife    Single Edge    Double Edge    Heavy Duty    Electronic Oscillating Tool    Pneumatic Oscillating Tool    Pneumatic Oscillating Tool-Long

## CARDBOARD MATERIALS

Paper < 200 gsm									
Cardboard 300-500 gsm									
Corrugated B flute (3 mm)									
Corrugated C flute (4 mm)									
Corrugated BC flute (7 mm)									
Corrugated E flute (1.5 mm)									
Honeycomb board < 10 mm									
Honeycomb board >= 10 mm									
Re-board® 10 mm									
Re-board® >= 10 mm									

## ROLL MATERIALS

Adhesive vinyl									
Adhesive PVC banner vinyl									
Banner Vinyl									
Sandblast material									
Reflective sheeting									
Window film									

## SYNTHETIC MATERIALS

Corrugated plastic <= 5 mm									
Corrugated plastic > 5 mm									
Hard foamboard <= 2 mm									
Hard foamboard > 2 mm									
Polypropylene sheets <= 1.2 mm									
Polycarbonate <= 0.6 mm									
Polycarbonate > 1 mm									
Plexi									

## FOAMBOARD

Foamboard with paper <= 5 mm									
Foamboard with paper > 5 mm									
Foamboard with plastic									
Foamboard with aluminium									

## WOOD

MDF									
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## SPECIAL MATERIALS

Magnetic									
Varnish blankets									
Gasket									
Foam									
Textiles (Coated-Uncoated)									
Rubber									



# PARTS & TOOLS

## ORDER CODES: CONSUMABLES

Consumables for Drag Module	Consumables for Electronic Oscillating Tool / EOT	Consumables for Routing System
391-332 Drag Knife Holder for 36° & 60° 391-360 Standard Drag Knives - 36° (5x) 391-231 Drag Knife - 60° MP06BK Fibre Tip Pens - Black (4x) 395-430 Roller Ball Pens - Black (5x) 395-431 Roller Ball Pens - Blue (5x) 395-434 Pen Holders	500-3313 Knife Guide for EOT 500-9800 EOT Knife L25 - 65° 500-9810 EOT Knife L25 - 65°- 80° 500-9811 EOT Knife L25 - 65°- 85° 500-9812 EOT Knife L28 - 65°- 85° 500-9813 EOT Knife L25 - 0°- 65° 500-9814 EOT Knife L38 - 45°- 86° EOT Knife L33 - 45°- 85° 500-9815	500-9850 Routing Bits D3/3 L38/11 1FI UC (3x) 500-9852 Routing Bits D4/4 L50/12 1FI UC (3x) 500-9854 HF Routing Bits D6/3 L50/06 MP 1FI UC (3x) 500-9856 HF Routing Bits D6/4 L50/12 MP 1FI UC (3x) 500-9857 HF Routing Bits D6/6 L50/12 MP 1FI UC BAL (3x) 500-9858 HF Routing Bits D6/6 L58/22 MP 1FI UC BAL (3x) 500-9859 HF Routing Bit D6/6 L50/14 / POLISHING (1x) 500-9863 Routing Bits D6/10 L50 90° B 2FI (2x) 500-9864 Routing Bits D6/6 L50/22 2FI UC /DC (2x)
Consumables for Tangential Module	Consumables for Pneumatic Oscillating Tool / POT / POT-L	Accessories
390-534 Standard Tangential Knife - 36° (5x) 390-550 Sandblast Tangential Knife - 60° 390-551 Double Tip Tangential Knife - 36° 390-560 Tangential Knife 45° Wedge 40/25° 390-553 Knife Install Tool 395-348 Nose Piece for 36° 500-9801 Single Edge Cutout Knife - 65° 500-9802 Double Edge Cutout Knife - 50° 500-9803 Double Edge Cutout Knife - 60° 500-9804 Double Edge Cutout Knife - 50° / Burr- Free 500-9807 Heavy Duty Cutout Knife - 45° / 90° 500-9825 V-Cut Blade - 0.9 mm (5x) 500-9826 V-Cut Blade - Hard Metal 500-3303 Gliding Disk Single Sided Knife 500-3315 Gliding Disk Double Sided Knife	500-9830 POT Knife Flat Point L20 T0.63 (3x) 500-9831 POT Knife Flat Point L27 T0.63 (3x) 500-9832 POT Knife Flat Point L20 T1.5 (3x) 500-9833 POT Knife Serrated L27 T1.0 (3x) 500-9834 POT Knife L20 T1.0 (3x) 500-9835 POT-L Knife L50 T1.0 (3x)	500-0241 3 mm Collet for 1050 Kress 500-0242 4 mm Collet for 1050 Kress 500-0243 6 mm Collet for 1050 Kress 500-0244 8 mm Collet for 1050 Kress  500-9379 6 mm Collet for HF Router
	Consumables for High Torque Rotary Module	
	500-9860 Decagonal Knife D25 (3x) 500-9861 Decagonal Knife D28 (3x) 500-9862 Decagonal Knife D32 (3x)	500-9347 Vacuum Cleaner Bag for Hercules (5x) 500-9348 Filter for Hercules 500-9349 Carbon Filter for Hercules 500-9332 Vacuum Cleaner Bag for 500-9331 (5x) 500-9202 Remote Controller Pack

## ORDER CODES: HARDWARE

F1612-22/ F1612 Flatbed System	F1330-22, F3220-22	All F Series Systems
Media Handling Options	Miscellaneous Options	Tools for Tangential Module
500-9120 Basket 500-9121 Extension Table 500-9122 Roll-up 500-9140 Conveyor Extension Front	500-9165 Kit Pump Connection 12m 500-9166 Kit Pump Connection 25m	500-9311 Kiss Cutting Tool 500-9312 Single Edge Cutout Tool 500-9313 Double Edge Cutout Tool 500-9314 Heavy Duty Cutout Tool 500-9325 Creasing Tool D25 R3 W8 H7 500-9326 Creasing Tool D25 R1.5 W8 H5.5 500-9327 Creasing Tool D25 R0.75 W1.5 H1.5 500-9328 Creasing Tool D15 2pt 500-9329 Creasing Tool D15 1pt 500-9340 V-Cut Tool - 0° 500-9341 V-Cut Tool - 15° 500-9342 V-Cut Tool - 22.5° 500-9343 V-Cut Tool - 30° 500-9344 V-Cut Tool - 45° 500-9320 Electronic Oscillating Tool 500-9350 Pneumatic Oscillating Tool 500-9358 Pneumatic Oscillating-Long Tool (POT-L)
Mats And Belts	F1832-22, F2630-22, F3232-22	
500-9114 Conveyor Belt (F1612) 500-9115 Protective Mat (F1612) 500-9333 Routing Mat (F1612)	Miscellaneous Options	
	500-9155 Kit Pump Connection 12m 500-9156 Kit Pump Connection 25m	
F1330-22 / F1330 Flatbed System	All F Series Systems	
Mats And Belts	Modules	Automated Depth Control
500-9163 Conveyor Belt (F1330) 500-9164 Protective Mats (2x) (F1330) 500-9336 Routing Mat (F1330)	500-9300 Drag Module 500-9310 Tangential Module 500-9330 Routing System (F1612) 500-9357 Routing System (F1330) 500-9354 Routing System (F1832) 500-9337 Routing System (F2630) 500-9372 HF Routing System (F1612) 500-9371 HF Routing System (F1330) 500-9373 HF Routing System (F1832) 500-9370 HF Routing System (F2630) 500-9361 High Torque Rotary Module	500-9126 Field Upgrade: ADC Left (F1612)* *Requires: ADC Right  500-9130 Field Upgrade: ADC Left (F1330/F2630)* *Requires: ADC Right Field  500-9135 Upgrade: ADC Left (F1832/F3232)* *Requires: ADC Right  500-9136 Upgrade: ADC Left (F3220)* *Requires: ADC Right
F1832-22 / F1832 Flatbed System		
Mats And Belts		
500-9355 Conveyor Belt (F1832) 500-9356 Protective Mat (2x) (F1832) 500-9333 Routing Mat (F1832)		
F2630-22/ F2630 Flatbed System		
Mats And Belts	Accessories	
500-9153 Conveyor Belt (F2630) 500-9154 Protective Mat (2x) (F2630) 500-9336 Routing Mat (F2630)	500-9220 Base for Safety Pole 500-9345 Vacuum Cleaner 3000W: Hercules 500-9331 Vacuum Cleaner 1400W: 230V / 50Hz	

## ORDER CODES: SOFTWARE

All F Series Systems		
500-9511 Summa GoProduce™ (Upgrade) 500-9513 Summa GoProduce™ (Barcode option) 500- Twin Edition* 9501C *Please contact your dealer for more information		