

PERFORMANCE VINYL AND CONTOUR CUTTERS

SUMMACUT® SERIES

Since 1996, the SummaCut Series has evolved to become the world's most advanced performance-price leader. The new SummaCut Series is the product of decades of Summa's brilliant European engineering.

Numerous refinements have been made, such as the OPOS X technology, which is known from our most advanced S Class 2 cutting plotters. The OPOS X technology is now integrated into a newly designed drag knife cutting head.

The SummaCut Series is capable of reading registration marks for contour cutting on standard materials but also on reflective, holographic or mirroring materials, and on the many different types of laminates being used today.



D60



D120



D140
D140FX



D160

VINYL CUTTERS THAT SET THE INDUSTRY STANDARD FOR PERFORMANCE AND VALUE

The SummaCut cutter features highly complex algorithms to compensate for any deformation of the print, using the world's most reliable sensor technology. This makes the SummaCut cutter a winning contour cutter for any sign or print shop.

Summa engineers know there is not a more important vinyl cutter feature than tracking. This is why every cutter we build starts with our exclusive and patented MicroSprocket™ grit roller.

Milled from the finest materials in a unique process assuring each roller has an exacting diameter, we then specially coat each roller to eliminate the risk of wear and oxidation which could degrade tracking over time.

Quality craftsmanship is about more than low price. It is about value. With cutting performance that rivals other top-of-the-line cutters, it comes as no surprise that the affordably priced SummaCut D60 is one of the most popular vinyl cutters ever built.

FEATURES & TECHNICAL SPECIFICATIONS

1 The large, easy-to-use control panel allows you to quickly and easily change settings such as speed, pressure and plot mode in order to perform test cuts.

2 Our high-speed cutting head features the utmost accuracy for exceptionally reliable and effortless vinyl cutting.

3 Integrated media rollers and roll flanges load your vinyl straight and keep your media on track, even when cutting at top speed.

4 OPOS X contour cutting alignment means you can die-cut valuable printed vinyl graphics with complete confidence and reliability.



Intuitive control panel



Accurate OPOS X contour cutting



FlexCut feature



Legendary tracking



Model	D60	D120	D140 (FX)	D160
Dimensions	100 x 35 x 30 cm	160 x 68 x 112 cm	175 x 68 x 114.5 cm	198 x 68 x 114.5 cm
Media Width	7 to 66 cm	12 to 126 cm	18 to 141 cm	18 to 164 cm
Cutting Area** extended mode	60 cm x 50 m** 63 cm	120 cm x 50 m 123 cm	135 cm x 50 m** 138 cm	157.5 cm x 50 m 160.5 cm
Alignment Type	<ul style="list-style-type: none"> • OPOS X • Barcode Jobrecognition 		<ul style="list-style-type: none"> • Up to 2 x 64 marks on the X-line • Y- Line compensation 	
Tracking Performance	Within +/- 0.1 mm on plots: up to 8 m long on rolls up to 760 mm wide* up to 4 m long on rolls over 760 mm wide*			
Accuracy	0.2 % of movement or 0.25 mm, whichever is greater*			
Speed	Up to 113 cm/sec diagonal			
Acceleration	Up to 3 G diagonal			
Knife Pressure	0 - 400 grams, in 5 gram increments			
Connectivity	USB RS232 (serial)	USB Ethernet	USB Ethernet	USB Ethernet
Included Software	Cutter Control software; Winplot™ & MacSign™ Cut cutting software			

*For complete specifications, please visit www.summa.eu

** SummaCut FX series differ from the regular series, please see the next page for the SummaCut FX series specifications

FEATURES OF BOTH THE **S CLASS 2** & THE **SUMMACUT** SERIES

DRAG KNIFE TECHNOLOGY

Its simplicity has made Drag Knife (or swivel knife) technology the most commonly used.

An offset parameter defines the distance between the knife tip and the rotating center.

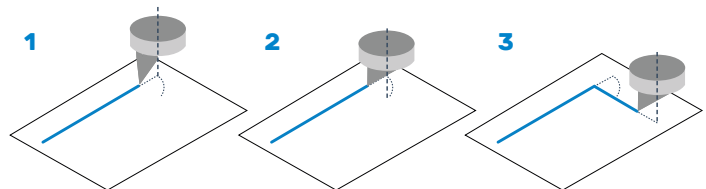
In order to know the position of the freely rotating knife inside the knife holder, a drag movement is made, assuming the knife tip will follow accordingly.

Summa cutters include enhanced methods to optimize this drag movement in order to obtain the best possible cutting quality.



DRAG MOVEMENT

- 1** The Drag Knife stops cutting right before entering a corner.
- 2** The eccentric blade is rotated by performing a drag movement to the desired angle, never leaving the media.
- 3** Once the drag-movement is completed, the corner cutting continues.



DUAL HEAD

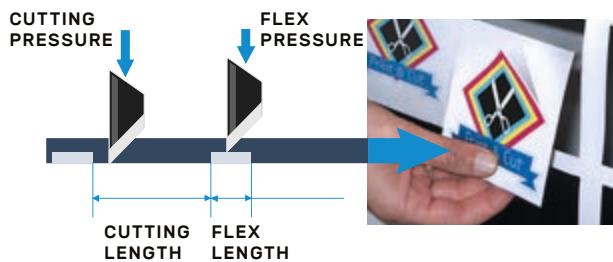
As an option, the S Class 2 T Series and the SummaCut Series can be equipped with a cutting head with dual functionality. This special Dual Head features an extra pen adaptor, instead of the OPOS sensor, allowing you to work alternately with each tool.

The perfect solution for drawing and cutting patterns in one easy step!



CUTTING THROUGH WITH FLEXCUT

Summa's FlexCut feature enables you to cut simple designs completely through the material.



Alternately, one length is cut completely through the material, and one length is cut halfway through. This way a kind of tear-off line is created, ensuring the material keeps a certain rigidity during transportation through the Summa cutter, while remaining easy to remove from the design afterwards.

MATERIAL TRANSPORT

Tracking is the ability to transport the media through the machine in a repetitive way. This ability makes sure that one single job is cut within specifications, covering the complete guaranteed tracking length. Nevertheless, also longer jobs are accepted by the cutter.

The guaranteed tracking length also indicates the possibility of doing multiple jobs sequentially, exceeding the guaranteed tracking length several times without the need of reloading the media.



TWO BEATS ONE

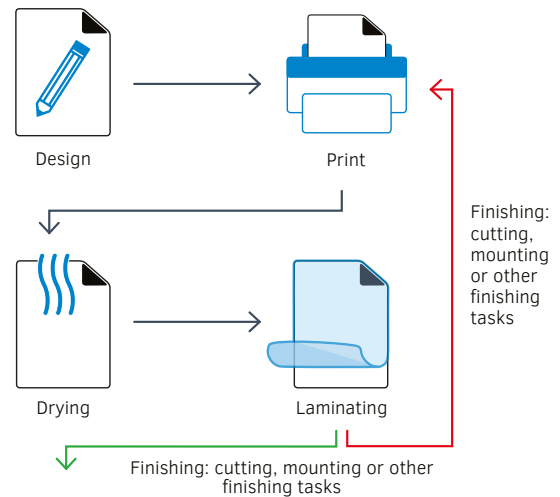
UNIQUE BENEFITS OF SUMMA'S DEDICATED CUTTING EQUIPMENT

- ✓ Cutters can do things no printer-cutter is designed to do. That is especially true with Summa cutters. Not only do they perform the simple kiss-cutting, needed to contour cut labels and graphics, but they can also **cut completely through** the backing in order to eliminate the need to manually cut individual labels. Or the user can kiss-cut and cut a separate path that goes through the backing in a **single operation** to create sheets of labels or large contour cut graphics that do not need to be sectioned manually by the cutter operator.
- ✓ **Alignment systems** Summa OPOS X can handle up to **128 marks**.
- ✓ Manual tasks are eliminated, which **improves** operator **productivity** and **reduces** job **costs**.
- ✓ Professional-grade cutters are far more capable than the light-duty cutting heads on inkjet printer-cutters, and they have **more cutting force** (grams of down force).
- ✓ Summa cutters can handle **very rigid materials**, such as Lexan over-laminate, floor graphic kits and other thick and semi-rigid laminates. But that is merely one aspect of what separates a dedicated cutter from a printer with a cutting head.
- ✓ **Material tracking** in cutters is designed for back-and-forth travel on a sheet of labels. It might go back and forth as many as 50 times. Summa cutters have **heavy-duty** motors, which can handle the weight of large, laminated prints. Moreover, they cut with much **greater consistency**, assuring that every label is cut **precisely** and **weeded easily**.
- ✓ Many print shops evolved from screen printing and still do both printing and cutting. Summa cutters are **optimized** for all types of printing and add value throughout the organization.
- ✓ Cutting involves more than just printed vinyl. **Vinyl graphics** and **lettering** are also commonly produced by shops of all sizes. It makes no sense whatsoever to schedule production of cut vinyl in print production.
- ✓ You are far better-served with a vinyl cutter that can do **all cutting**, whether contour cutting or cut vinyl lettering.

DISADVANTAGES OF A HYBRID PRINTER & CUTTER

- ✗ Sending jobs back into print production to perform cutting tasks would **delay** other printing and would significantly limit the capacity of the printer.
- ✗ **Alignment systems** are limited to a **4-point** method. Therefore alignment systems and built in print-and-cut units are slow, inaccurate and limited in use with different materials and laminates.
- ✗ The light-duty cutting heads on inkjet printer-cutters have **less cutting force** (grams of down force) and are far less **uncapable** when compared to the professional-grade cutters.
- ✗ The **cutting speed** of integrated printer-cutters is much lower than the one on Summa cutters, which will **reduce** the printing **capacity** even more.
- ✗ With modern print techniques, a great deal of **heat** is used, **deforming** the printed material significantly.
- ✗ Cutting after printing without reloading and aligning generates significant shift between the print and the cut line. Long jobs will **fail** completely.

Workflow

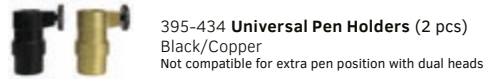
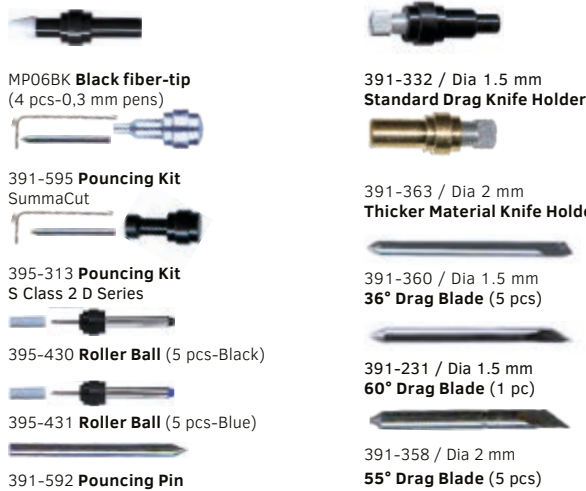


MORE THAN JUST CONTOUR CUTTING

| Greater productivity | More accurate | More cutting modes | More material choices |

CONSUMABLES & SOFTWARE

SUMMACUT & S CLASS 2 D SERIES



S CLASS 2 T SERIES



GENERAL



Cutter knife guidelines

When you choose a knife to cut your material, always use the lowest degree knife (shallowest angle), assuming the thickness of the material did not exceed the maximum listed for that knife.

	Recommended		Alternative										
					D Series	391-360 36° Drag Blade (5 pcs)	391-231 60° Drag Blade (1 pc)	391-358 55° Drag Blade (5 pcs)	T Series	390-534 36° Tangential Blade	390-551 36° Double Tip	390-560 45° Double Wedge	390-550 60° Tangential Blade
Standard Vinyl													
Engineering Reflective													
Sandblast (Monument)													
Rhinestone													
Heat Press (Apparel)													
Material thickness is the first specification to determine which knife to use. If the material thickness is unknown, please use the following recommended chart.													
Max. Thickness (mm)	0.25	0.60	0.80	0.25	0.25	1.00	1.20						
Max. FlexCut Thickness (mm)	0.50	0.60	0.80	0.25	0.25	1.00	1.20						
391-332 / Dia 1,5 mm Standard Drag Knife Holder													
391-363 / Dia 2 mm Thicker Material Knife Holder													
395-322 Tangential Knife Holder													
395-348 Standard Nose Piece													
395-347 Low Nose Piece													
395-330 Dummy Nose Piece													
is used for Ballpoint and Holder for Drag Blades													

WINPLOT™ & MACSIGN™ CUT

WinPlot

WinPlot is a cutting software utility for the Microsoft Windows operating systems, which is delivered free of charge with every new Summa cutter.

Compatibility: WinPlot supports all Summa cutting devices, including SummaCut and S Class 2. Supported communication ports: USB, serial (RS 232), ethernet, centronics parallel and any printer port installed on your operating system which enables networked printing.

Input: Includes plug-ins for **CorelDRAW** and **Illustrator** and imports simplified .eps, .ai and .pdf files from other applications.

Edit: Allows scaling, mirroring and rotating of the design or parts of the design.

Output: / **Nesting with support of multiple copies :** WinPlot automatically rotates and positions different designs as well as multiple copies in order to optimize the use of material. / **Paneling :** Jobs larger than the media width will be split in panels. / **Integration of OPOS :** Using Summa's Optical Positioning System has never been easier. / **Weeding Box :** Automatically generates weeding boxes around cut images. / **Cutting by color**

MacSign Cut

MacSign Cut is a "bridge" application that imports artwork saved by popular desktop publishing applications (e.g., Illustrator, Freehand, Canvas, CorelDRAW, and so on) and sends them to Summa vinyl cutters. Imported artwork is displayed on the worksheet before processing and can be resized, positioned, mirrored, turned, distorted, duplicated, etc. The tiling feature separates a design into two or more pieces, with user-specified overlaps, and allows you to cut designs larger than the cutter width.

After a 30-day trial, free registration is required. MacSign Cut is included with every Summa cutter. Compatible with: Mac OS X (10.5 10.12), Mac OS 9

