

Performance vinyl and contour cutters

SUMMACUT®



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
D60FX



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 doesn't come by 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.



Optical positioning



Accurate OPOS X contour cutting



Flexcut feature



Legendary tracking

Model	D60 (FX)	D120	D140 (FX)	D160
Dimensions	100 x 35 x 30 cm	160 x 68 x 112 cm	175 x 68 x 115 cm	198 x 68 x 114.5 cm
Media Width	7 to 66 cm	12 to 127 cm	18 to 142 cm	18 to 164 cm
Cutting Area** <i>extended mode</i>	60 cm x 50 m** <i>63 cm</i>	120 cm x 50 m <i>123 cm</i>	135 cm x 50 m** <i>138 cm</i>	157.5 cm x 50 m <i>160.5 cm</i>
Repeatability (guaranteed)	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)			
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





CONTOUR CUTTING WITH OPOS

The automated contour alignment system OPOS stands for Optical Positioning System. The OPOS X sensor technology senses marks on a wide range of materials.

Some of its features include a fully-automated workflow using barcodes, enabling you to contour cut multiple jobs without intervention.

Another feature automates the contour cutting of multiple sheets with repeating graphics. During this workflow, the OPOS sensor will start to look for marks immediately after a new sheet is loaded.

MULTIPLE MARKS

The strength of OPOS is the unique ability to register multiple marks along a job. This allows our system to contour cut large jobs more accurately.

Compared to a typical 4-point alignment system, which generates inaccuracies in its contour, OPOS scans a minimum of 4 and a maximum of 128 marks, providing much higher precision on large jobs.

Without
OPOS



With
OPOS



MEDIA BASKET

As the media advances, the output will be neatly collected in a textile basket, optional on D60 and D140FX models, preventing dust and debris from collecting onto the media.

This eliminates the problem of media coming in contact with dirty floors, which could contaminate work surfaces and result in particles being trapped between the vinyl and substrate. The basket also neatly organizes vinyl and other media when processing multiple jobs.

Optional stands for SummaCut D60 (FX)

- 1 Sturdy Metal Stand on 4 roller casters (#399-050)
- 2 Sturdy Metal Stand with fabric basket on 4 roller casters (#399-075)

1



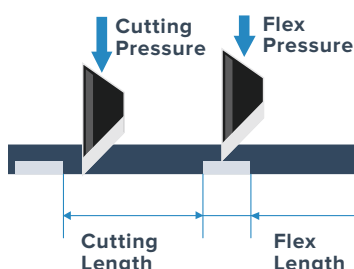
2



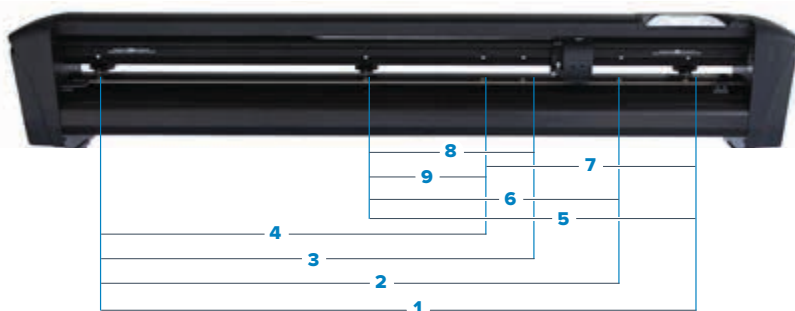
CUTTING THROUGH WITH FLEXCUT

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.



D140FX



	1 1323 mm	2 1172 mm	3 954 mm	4 864 mm	5 720mm
Working Area	6 570 mm	7 454mm	8 350mm	9 240mm	
	1 1372 mm	2 1220 mm	3 1000 mm.	4 914 mm	5 762 mm.
Target Media Width	6 610 mm	7 500 mm	8 400 mm	9 260 mm	

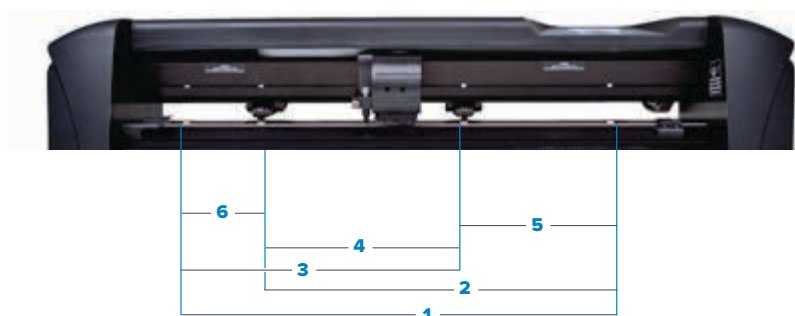
SUMMACUT FX SERIES

Price Breaker

Benefit from all the features of the SummaCut Series at an affordable price.

With pinch roller positions handling most common sizes and an extended cutting mode, the SummaCut FX Series is optimized for most common media sizes.

D60FX



Working Area	Target Media Width
1 575 mm	1 610 mm
2 470 mm	2 500 mm
3 375 mm	3 400 mm
4 270 mm	4 297 mm
5 190 mm	5 210 mm
6 95 mm	6 115 mm

INTERNAL INTELLIGENCE

Summa cutters are loaded with intelligent routines, optimizing the cutting data. All Summa Series use an advanced vector look-ahead technology that cuts complex images and lettering with improved efficiency.

The benefits are extensive. The cutting time is reduced considerably, curves are smoother, and the motors are less loaded, which increases the lifetime of the plotter.

Other intelligent features include:



Overcut

OverCut extends the vector at the beginning and at the end of a curve. This ensures the design is cut through completely. Without the OverCut function, the cut line may not be completely closed, causing difficulties when weeding.

OptiCut

OptiCut, a function specially developed for drag knife cutters, simulates tangential cutting. Due to performance of complex movements, the OptiCut feature compensates for changes in the blade offset, caused by wear and tear. The OptiCut feature makes sure the knife is orientated correctly. This revolutionary technology gives you optimal quality during your blade's lifetime.

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, longer jobs are also 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.

