



SUMMA ROLL CUTTERS

S One | S Class 2 Series

**World renowned vinyl
and contour cutters**

A large, industrial-grade Summa roll cutter is shown in a side profile. It has a long, horizontal cutting bed with multiple rollers and a control panel on the right side. A roll of material is being processed, and a cut piece is visible. The machine is dark grey or black with blue accents. The background is a blue and white geometric design.

Summa

Summa.com | #SummaFinish

SUMMA S2 75

The S2 75 is Summa's smallest vinyl roll cutter from the S2 Series and represents the ideal cutting solution for startup sign makers who want to automate their cutting workflow and extend their cutting applications.

Key Benefits

- Advanced cutting technology
- Ergonomic design
- User-friendly features
- Legendary tracking performance
- Connectivity
- Summa GoSign software

Ideal to cut:

- Reflective, holographic, mirroring materials
- In- and outdoor signage
- Traffic and advertising signs
- Safety indications
- Vehicle and window lettering

Advanced Cutting Head Technology

The S2™ D Series unites legendary S Class power and precision with an efficient and affordable drag knife cutting head. The S2™ T Series features a state-of-the-art True Tangential™ cutting head, cutting with more force and accuracy than any other cutter in its class.

All S2 models are designed with premium components and show resilience to perform day in and day out.



Video:
Scan the QR code to watch all the Summa videos

Technical Specifications

Model	S2 75	
Dimensions	141 x 68 x 111 cm	
Media Width	6 to 84 cm	
Max. Working width	74.2 cm x 50 m 'Oversized' mode allows a wider cutting area: +/-7 cm	
Alignment Type	<ul style="list-style-type: none">• OPOS X - OPOS Xtra• OPOS - CAM (factory upgrade)• Barcode job recognition	<ul style="list-style-type: none">• Up to 2 x 64 marks on the X-line• Y-Line compensation
Tracking Performance	12 m max. within guaranteed specifications for media less than 760 mm	4 m max. within guaranteed specifications for media larger than 760 mm
Accuracy	0.2% of move or 0.25 mm, whichever is greater	
Speed	Up to 141 cm/s diagonal	
Acceleration	Up to 5.5 G diagonal	
Knife Pressure	Drag Knife: Up to 400 grams / Tangential Knife: Up to 600 grams	
Other Features	FlexCut (cutting through)	
Connectivity	Ethernet, USB	
Power requirements	100-120 / 220-240 VAC, 50/60 Hz, 85 VA maximum	
Included software	Summa GoSign Software, Summa Cutter Control	

*In 'Oversized' mode the tracking performance is no longer guaranteed.

Smart Features

The S2 Series is standard equipped with a range of convenient features, adding to the production efficiency and guaranteeing a perfectly cut product without hassle.

Enjoy an automated workflow and ease-of-use:

- Tangential or drag knife technology
- Up to 600 gr of knife pressure
- Cutting accuracy with OPOS Xtra alignment
- G-Performance
- Automation with the barcode workflow
- Up to 12 m tracking guaranteed
- Connectivity: USB, Ethernet
- Summa GoSign software



SUMMA S2 120

The S2 120 is the ideal intermediate size for many cutting jobs. All S2 models were designed on a foundation of unrivalled technology and reliability. Enjoy leading-edge cutting performance to deliver precisely cut products. Fast and straightforwardly.

Key Benefits

- Advanced cutting technology
- Ergonomic design
- User-friendly features
- Latest alignment method
- Legendary tracking performance
- Connectivity
- Summa GoSign software

Ideal to cut:

- Reflective, holographic, mirroring materials
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Video:
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Technical Specifications

Model	S2 120	
Dimensions	187 x 68 x 111 cm	
Media Width	12 to 130 cm	
Max. Working width	120 cm x 50 m 'Oversized' mode allows a wider cutting area: +/-7 cm	
Alignment Type	<ul style="list-style-type: none"> • OPOS X - OPOS Xtra • Barcode job recognition 	<ul style="list-style-type: none"> • Up to 2 x 64 marks on the X-line • Y-Line compensation
Tracking Performance	12 m max. within guaranteed specifications for media less than 760 mm	4 m max. within guaranteed specifications for media larger than 760 mm
Accuracy	0.2% of move or 0.25 mm, whichever is greater	
Speed	Up to 141 cm/s diagonal	
Acceleration	Up to 5.5 G diagonal	
Knife Pressure	Drag Knife: Up to 400 grams / Tangential Knife: Up to 600 grams	
Other Features	FlexCut (cutting through)	
Connectivity	Ethernet, USB	
Power requirements	100-120 / 220-240 VAC, 50/60 Hz, 85 VA maximum	
Included software	Summa GoSign Software, Summa Cutter Control	
*In 'Oversized' mode the tracking performance is no longer guaranteed.		

Advanced Cutting Head Technology

The S2™ D Series unites legendary S Class power and precision with an efficient and affordable drag knife cutting head. The S2™ T Series features a state-of-the-art True Tangential™ cutting head, cutting with more force and accuracy than any other cutter in its class.

All S2 models are designed with premium components and show resilience to perform day in and day out.



Smart Features

The S2 Series is standard equipped with a range of convenient features, adding to the production efficiency and guaranteeing a perfectly cut product without hassle.

Enjoy an automated workflow and ease-of-use:

- Tangential or drag knife technology
- Up to 600 gr of knife pressure
- Cutting accuracy with OPOS Xtra alignment
- G-Performance
- Automation with the barcode workflow
- Up to 12 m tracking guaranteed
- Connectivity: USB, Ethernet
- Summa GoSign software



SUMMA S2 140

The S2 140 is the ideal intermediate size for many cutting jobs. All S2 models were designed on a foundation of unrivalled technology and reliability. Enjoy leading-edge cutting performance to deliver precisely cut products. Fast and straightforwardly.

Key Benefits

- Advanced cutting technology
- Ergonomic design
- User-friendly features
- Latest alignment method
- Legendary tracking performance
- Connectivity
- Summa GoSign software

Ideal to cut:

- Reflective, holographic or mirroring materials
- In- and outdoor signage
- Traffic and advertising signs
- Safety indications
- Vehicle and window lettering



Video:
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Technical Specifications

Model	S2 140	
Dimensions	202 x 68 x 111 cm	
Media Width	17 to 145 cm	
Max. Working width	135 cm x 50 m 'Oversized' mode allows a wider cutting area: +/-7 cm	
Alignment Type	<ul style="list-style-type: none"> • OPOS X - OPOS Xtra • Barcode job recognition 	<ul style="list-style-type: none"> • Up to 2 x 64 marks on the X-line • Y-Line compensation
Tracking Performance	12 m max. within guaranteed specifications for media less than 760 mm	4 m max. within guaranteed specifications for media larger than 760 mm
Accuracy	0.2% of move or 0.25 mm, whichever is greater	
Speed	Up to 141 cm/s diagonal	
Acceleration	Up to 5.5 G diagonal	
Knife Pressure	Drag Knife: Up to 400 grams / Tangential Knife: Up to 600 grams	
Other Features	FlexCut (cutting through)	
Connectivity	Ethernet, USB	
Power requirements	100-120 / 220-240 VAC, 50/60 Hz, 85 VA maximum	
Included software	Summa GoSign Software, Summa Cutter Control	
*In 'Oversized' mode the tracking performance is no longer guaranteed.		

Advanced Cutting Head Technology

The S2™ D Series unites legendary S Class power and precision with an efficient and affordable drag knife cutting head. The S2™ T Series features a state-of-the-art True Tangential™ cutting head, cutting with more force and accuracy than any other cutter in its class.

All S2 models are designed with premium components and show resilience to perform day in and day out.



Smart Features

The S2 Series is standard equipped with a range of convenient features, adding to the production efficiency and guaranteeing a perfectly cut product without hassle.

Enjoy an automated workflow and ease-of-use:

- Tangential or drag knife technology
- Up to 600 gr of knife pressure
- Cutting accuracy with OPOS Xtra alignment
- G-Performance
- Automation with the barcode workflow
- Up to 12 m tracking guaranteed
- Connectivity: USB, Ethernet
- Summa GoSign software



SUMMA S2 160

The S2 160 is Summa's largest S2 roll cutter size, offering great flexibility in the cutting workflow with the ability to process many job sizes. All S2 models were designed on a foundation of unrivalled technology and reliability. Enjoy leading-edge cutting performance to deliver flawlessly cut products. Fast and straightforward.

Key Benefits

- Advanced cutting technology
- Ergonomic design
- User-friendly features
- Latest alignment method
- Legendary tracking performance
- Connectivity
- Summa GoSign software

Ideal to cut:

- Reflective, holographic or mirroring materials
- In- and outdoor signage
- Traffic and advertising signs
- Safety indications
- Vehicle and window lettering



Video:
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Technical Specifications

Model	S2 160	
Dimensions	225 x 68 x 111 cm	
Media Width	17 to 168 cm	
Max. Working width	158 cm x 50 m 'Oversized' mode allows a wider cutting area: +/-7 cm	
Alignment Type	<ul style="list-style-type: none"> • OPOS X - OPOS Xtra • OPOS - CAM (factory upgrade) • Barcode job recognition 	<ul style="list-style-type: none"> • Up to 2 x 64 marks on the X-line • Y-Line compensation
Tracking Performance	12 m max. within guaranteed specifications for media less than 760 mm	4 m max. within guaranteed specifications for media larger than 760 mm
Accuracy	0.2% of move or 0.25 mm, whichever is greater	
Speed	Up to 141 cm/s diagonal	
Acceleration	Up to 5.5 G diagonal	
Knife Pressure	Drag Knife: Up to 400 grams / Tangential Knife: Up to 600 grams	
Other Features	FlexCut (cutting through)	
Connectivity	Ethernet, USB	
Power requirements	100-120 / 220-240 VAC, 50/60 Hz, 85 VA maximum	
Included software	Summa GoSign Software, Summa Cutter Control	
*In 'Oversized' mode the tracking performance is no longer guaranteed.		

Smart Features

The S2 Series is standard equipped with a range of convenient features, adding to the production efficiency and guaranteeing a perfectly cut product without hassle.

Enjoy an automated workflow and ease-of-use:

- Tangential or drag knife technology
- Up to 600 gr of knife pressure
- Cutting accuracy with OPOS Xtra alignment
- G-Performance
- Automation with the barcode workflow
- Up to 12 m tracking guaranteed
- Connectivity: USB, Ethernet
- Summa GoSign software

Advanced Cutting Head Technology

The S2™ D Series unites legendary S Class power and precision with an efficient and affordable drag knife cutting head. The S2™ T Series features a state-of-the-art True Tangential™ cutting head, cutting with more force and accuracy than any other cutter in its class.

All S2 models are designed with premium components and show resilience to perform day in and day out.



S CLASS 2 SPECIFICS

All specifications applicable on the S One Series are also applicable on the S Class 2 Series. Built on a foundation of experience and commitment to offer top-of-the-line cutters to grow with your business and last for many years to come.

S Class 2 T Series

The Summa S Class 2 T Series combines S Class power and precision with a state-of-the-art True Tangential™ cutting head.

Coupled with an astonishing array of innovations and built-in capabilities, this plotter offers you to best there is in roll cutting.



Tangential Cutting Head

T Series | Tangential Cutting Head

Featuring computer-controlled blade rotation and up to 600 grams of cutting force, Summa's T Series combines the precision of a flatbed cutter with the ease and speed of a roll-fed cutter by using our legendary True Tangential cutting head. The T Series simply cuts with more force and accuracy than any cutter in its class.



Key Strengths

- Unique to Summa technology
- Accurate depth control
- Perfect to cut Thick, Thin and Tough material
- Accurate results in corners and the tiniest of details

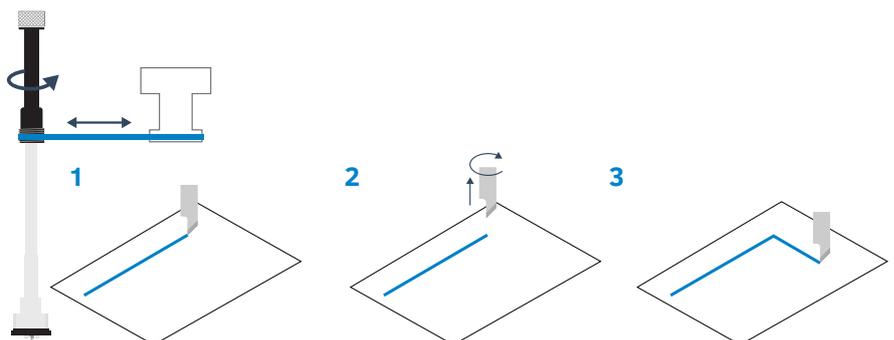


Tangential movement

1 | The Tangential Knife stops cutting right before a corner.

2 | A motor lifts and re-orientates the blade.

3 | Once the blade has reached the desired angle, it is lowered and continues to cut the corner.



S Class 2 D Series

Summa S2™ D Series vinyl cutters are specifically designed for high-volume cutting environments. They unite legendary S Class power and precision with an efficient and affordable drag knife cutting head. Boasting an astonishing array of industry-first innovations and built-in capabilities, the S2™ D Series is a do-it-all dynamo with the resilience to perform day in and day out.



S Class 2 OPOS CAM Series for S2 T75 & S2 T160

Summa's Tangential module, combined with an OPOS CAMera offers state-of-the-art registration mark recognition at lightning-fast speeds. Summa OPOS CAM roll cutters are, therefore, cutting-edge and unmatched in many Print&Cut workflows.

- Unique True Tangential cutting technology
- Higher accuracy by placing 'infield' registration marks
- Accurate fixed-size cutting with 'Fixed size mode'
- Job segmentation to preserve the best tracking performance
- Mark registration about 10 times faster than any light sensor
- Custom camera profile to process challenging media types
- Available as factory upgrade for Summa S Class 2 T75 & T160



Compatible with F Series Twin Workflow

The Summa Twin™ Workflow is an innovative cutting solution, combining the strengths of two Summa cutters – the power of an F Series flatbed cutter and the speed of an S Class OPOS CAM cutter. This combination significantly enhances productivity and performance through a smooth integration into existing workflows.



“I truly believe that the purchase of the Summa vinyl cutter back in 2016 was in many ways a good move. It helped us to reach higher quality levels, thus contributing to lift our business to the next level.”

/ Industria Graphica FG about investing in a Summa S Class 2 T160



Dual Head

As an option, the S Class 2 T 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!



G-Performance Mode

This mode is especially designed to enhance the speed and performance of digital finishing operations on the S2 roll cutters up to 40%. The advantages include faster cutting speeds on wider substrates and faster reading of the registration marks. Especially within large industrial environments, this G-performance mode will prove its worth and give your overall workflow a serious boost.



Summa 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

A smooth transportation of the material is undoubtedly one of the most important issues when vinyl cutting. The exclusive Summa MicroSprocket drive drum tracks full rolls without skewing. This way, absolute cutting accuracy is guaranteed up to 12 meters in length, enabling to cut long or various designs subsequently without the need to reload. Durable titanium coated grit rollers assure job continuity for many years to come with the best tracking system available on the market.

Media Options

A servo-powered roll-up system for S2 140 & S2 160

After a job is finished, the system will roll up the artwork neatly and prepare the machine for the next unattended job. The integrated paneling feature splits long-length runs into shorter consecutive jobs, allowing to cut complete rolls unattended and deliver the output nicely rolled-up.



Servo-powered roll-up system

A solid, most effective media rack for S2 140 & S2 160

Store your media rolls effectively and keep your work environment neat and tidy with the optional media rack. Note: The roll-up system and the media rack cannot be combined.

Extra pinch rollers

Extra pinch rollers can be factory installed or retrofitted when required in order to obtain more grip (middle pinch roller only).



Media rack

Registration Marks (OPOS Contour Cutting)

Summa's automated contour alignment system OPOS stands for Optical Positioning System. The OPOS sensor registers printed squares that are placed around the graphic. This allows OPOS to determine the exact position of the printed graphic and enables you to die-cut valuable printed and laminated vinyl graphics with complete confidence and ease.

OPOS X

The OPOS X feature, standard on all Summa models, automatically looks for the cross marks by using a sensor. The possibility to use multiple cross marks is a unique OPOS feature and guarantees the best possible accuracy. The OPOS X sensor even detects registration marks through dense laminated graphics with uneven texture and brings contour cutting to a much higher level.

OPOS XY / OPOS XY2

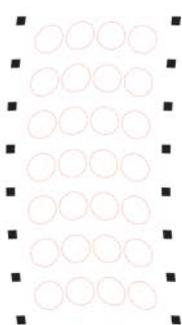
OPOS XY allows to measure a line across the print width, additionally to the OPOS marks. This will automatically adjust media curvature or deformation across the width of the print. The OPOS XY2 alignment method adds an extra measurement line at the rear of the print, allowing to compensate for any changes in print curvature between start and finish of your print job.

OPOS Barcode

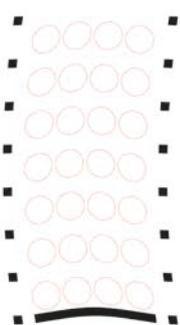
The barcode reading functionality is a productivity tool, allowing to process multiple jobs without operator intervention. Also, the risk of sending the wrong data to the wrong print no longer exists. The OPOS X sensor reads the barcode and sends the correct job to the computer. The computer returns the matching cutting information which is then processed by the cutter. When the job is finished, the cutter automatically starts looking for the next job and its barcode.

OPOS Xtra

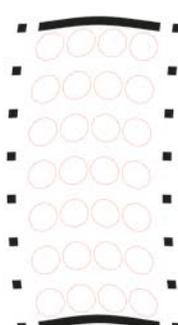
A next evolution in OPOS is OPOS Xtra. This alignment mode is designed to handle irregular material deformation over the length of the print by adding additional XY lines between the designs. This increases the accuracy and alignment methodology for smaller stickers.



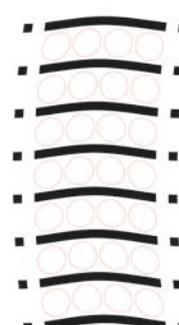
OPOS X



OPOS XY



OPOS XY2



OPOS Xtra

OPOS alignment systems are available for all models

TECHNICAL SPECIFICATIONS

Model	S2 75	S2 120	S2 140	S2 160
Dimensions	141 x 68 x 111 cm	187 x 68 x 111 cm	202 x 68 x 111 cm	225 x 68 x 111 cm
Media Width	6 to 84 cm	12 to 130 cm	17 to 145 cm	17 to 168 cm
Max. Working width Oversized mode*	74.2 cm x 50 m	120 cm x 50 m	135 cm x 50 m	158 cm x 50 m
	'Oversized' mode allows a wider cutting area : +/- 7 cm*			
Pinch rollers	2	3	4	4
Alignment Type	<ul style="list-style-type: none"> OPOS X - OPOS Xtra OPOS CAM : Factory upgrade on new Summa S Class 2 S75T and S160T 		<ul style="list-style-type: none"> Barcode job recognition Up to 2 x 64 marks on the X-line Y-Line compensation 	
Tracking Performance	Within +/- 0.1 mm on plots: <ul style="list-style-type: none"> up to 12 m long on rolls up to 760 mm wide* up to 4 m long on rolls over 760 mm wide* 			
Accuracy	0.2% of move or 0.25 mm, whichever is greater			
Speed	Up to 141 cm/s diagonal			
Acceleration	Up to 5.5 G diagonal			
Knife Pressure	Drag Knife: Up to 400 grams / Tangential Knife: Up to 600 grams			
Other Features	FlexCut (cutting through)			
Connectivity	Ethernet, USB			
Power requirements	100-120 / 220-240 VAC, 50/60 Hz, 85 VA maximum			
Included software	Summa GoSign™ Software, Summa Cutter Control, MacSign™ Cut Cutting Software			
*In 'Oversized' mode the tracking performance is no longer guaranteed.				



S2 75



S2 120



S2 140



S2 160

Summa Vinyl Cutters Comparison		S One FX Series	S One Series	S Class 2 D series	S Class 2 T series	S Class 2 OPOS CAM series
Maximum Media Width	60	-	70.5 cm	-	-	-
	75	-	-	84 cm	84 cm	84 cm
	120	-	135 cm	130 cm	130 cm	-
	140	142 cm	150 cm	145 cm	145 cm	-
	160	-	169 cm	168 cm	168 cm	168 cm
Cutting Technology	Drag Knife	Drag Knife	Drag Knife	True Tangential Knife	True Tangential Knife	
Opos X	✓	✓	✓	✓	✓	
Opos Xtra	✓	✓	✓	✓	✓	
Camera	-	-	-	-	✓	
Barcode Support	✓	✓	✓	✓	✓	
Roll-up	-	-	Optional	Optional	Optional	
Velocity	**	***	****	*****	*****	
Flexible Working Sizes	-	✓	✓	✓	✓	

