

One Portfolio. Three Motions. Built to Win Every Print.

SATO RIBBONS

CATALOGUE

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satoeurope.com

Table of Contents

[Ribbon Offering](#)

[Why SATO Ribbons](#)

[Value Line](#)

[Flex Line](#)

[Flow Line](#)

[Thermal Transfer Ribbons](#)

[European Technical Lab By SATO](#)

[Thermal Transfer Ribbon Comparison Table](#)

[SATO Printer Model Match Matrix](#)

**Always available.
Always flexible.
Always reliable.**

SATO has the right thermal transfer ribbon for your application.

For standard printing on paper labels, wax ribbons deliver strong results at the lowest running cost. Where you need greater durability or wider substrate compatibility, wax-resin steps up in performance. For environments requiring resistance to chemicals, solvents, abrasion and heat, resin ribbons support compliance-critical labelling.

Paired with SATO thermal transfer labels, our ribbons are engineered for sharp print quality, stable printer performance and longer printhead life.

We stock three ribbon ranges to match different operational requirements: Value for high-volume everyday printing, Flex for broader compatibility and improved durability, and Flow for longer print runs with fewer changeovers. All ranges are tested in our European Technical Lab in France.

For custom sizes, special grades, colours or specialist requirements, speak to your SATO Supplies Specialist.

MATERIAL	QUALITY	LINE	COST
WAX	SWX85	VALUE Line	€
	SWX95	FLEX Line	€€
	SWX100	FLEX Line	€€
	SWX-MAX*	FLOW Line	€€
WAX RESIN	SWR85	VALUE Line	€
	SWR100	FLEX Line	€€
RESIN	SRS85	VALUE Line	€€
	SRS100	FLEX Line	€€€

*SWX-MAX: is offered in 800m rolls with 600m outer diameter equivalent.



Why SATO ribbons

Matched performance. Proven in real production environments.

SATO ribbons are engineered to work as part of a complete system. When paired with SATO labels and SATO printers, every component is tested together to optimise print quality, protect printheads and maximise uptime.

That means greater stability on your line, fewer unexpected variables and less time spent troubleshooting.

- ▶ Wide range of sizes with immediate stock availability
- ▶ Short lead times from European manufacturing
- ▶ Tested in our European Technical Lab for quality, durability and speed
- ▶ Technical and presales support to match the right ribbon to your application

Three lines. Clear choice.



VALUE

For cost-effective everyday printing

Cost-efficient, reliable ribbons for high-volume, price sensitive applications.



FLEX

For mixed applications needing extra durability

Best-in-class, versatile ribbons covering a wide spectrum of materials and applications.



FLOW

For high-volume printing with fewer changeovers

Longer & more sustainable ribbons to reduce downtime and keep production moving.

Value Line



Reliable printing. Smart cost.

The Value range is built for operations where cost per label matters most. These ribbons deliver solid print quality on standard paper substrates without over-specifying for the job. If you are running high-volume shipping, routing or warehouse labelling, Value gives you the output you need at a price that makes sense.

Why choose Value?

- ▶ Lowest cost per label in the SATO ribbon range
- ▶ Manufactured in Europe with fast lead times from permanent stock
- ▶ Tested in our European Technical Lab for quality and printhead compatibility
- ▶ Custom sizes and special grades available on request

Talk to your SATO Supplies Specialist about the right Value ribbon for your application.

For cost-effective everyday printing

Best for:

- ✔ High-volume labelling applications
- ✔ Standard paper label applications
- ✔ Cost-controlled print environments



Flex Line



One ribbon range. Multiple applications.

The Flex range is for operations that print across different substrates and applications. Rather than holding multiple ribbon products and managing changeovers between grades, Flex handles paper, coated and selected synthetic media in one range. Sharper print definition, stronger durability and broader compatibility make it the workhorse ribbon for mixed environments.

Why choose Flex?

- ▶ Prints across a wider range of substrates: TTP, PET, PP, PE, Vinyl (TTV), polyamide, TTT (TT tags).
- ▶ Affordable alternative to premium solutions with broad material compatibility.
- ▶ Manufactured in Europe with short lead times from permanent stock.
- ▶ Special and custom options available on request.

Talk to your SATO Supplies Specialist about the right Flex ribbon for your application.

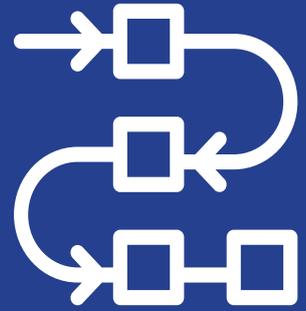


Best in class quality. Built for versatility. Driven by performance.

Best for:

- ✓ Mixed media and multi-application print lines
- ✓ Operations consolidating ribbon products
- ✓ Garment and textile tags, storage and box labels, and general logistics, food, medical and electronics labelling.

Flow Line



More prints per roll. Less waste. Less downtime.

The Flow range uses thinner ribbon material to fit more ribbon onto the same roll. A printer with a 600m maximum capacity can run up to 800m of Flow ribbon. That means fewer changeovers per shift, less production downtime and less packaging waste going to disposal.

Why choose Flow?



100%
solvent-free
No solvent-based coatings.



26%
less plastic
per roll than standard ribbons.



Up to 40% more printing time
Fewer changeovers per shift.



Manufactured in Europe
Shorter lead times.

Longer runs. Fewer stops. Lower environmental impact.

Best for:

- ✓ High-volume industrial print lines and print engines
- ✓ Continuous production and automated labelling
- ✓ Operations looking to cut changeover time and reduce ribbon waste



Talk to your SATO Supplies Specialist about switching to Flow.

Thermal Transfer Ribbons

Thermal transfer ribbons produce durable, high-quality prints for barcode and labelling applications. Paired with the right label material, they provide strong resistance to heat, chemicals and abrasion, making them suited to the most demanding operational environments.

Our thermal transfer ribbon range is designed to:

- ▶ Optimise printer performance
- ▶ Reduce downtime and maintenance
- ▶ Ensure high-quality, scannable print results
- ▶ Support long-lasting durability and compliance

Whether you need wax, wax-resin or resin, **SATO** provides ribbons engineered for your operational, environmental and regulatory requirements.

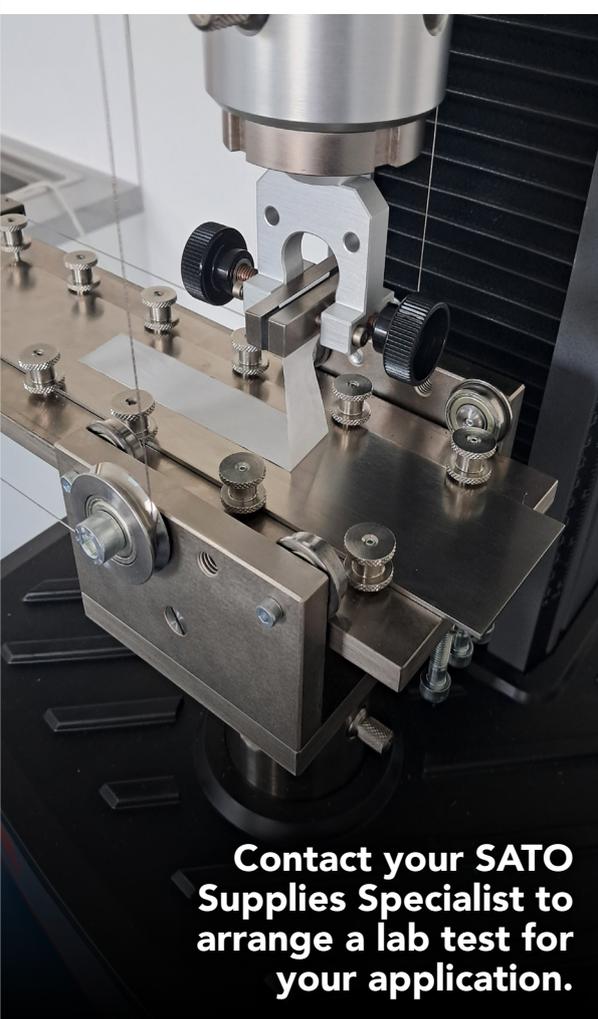
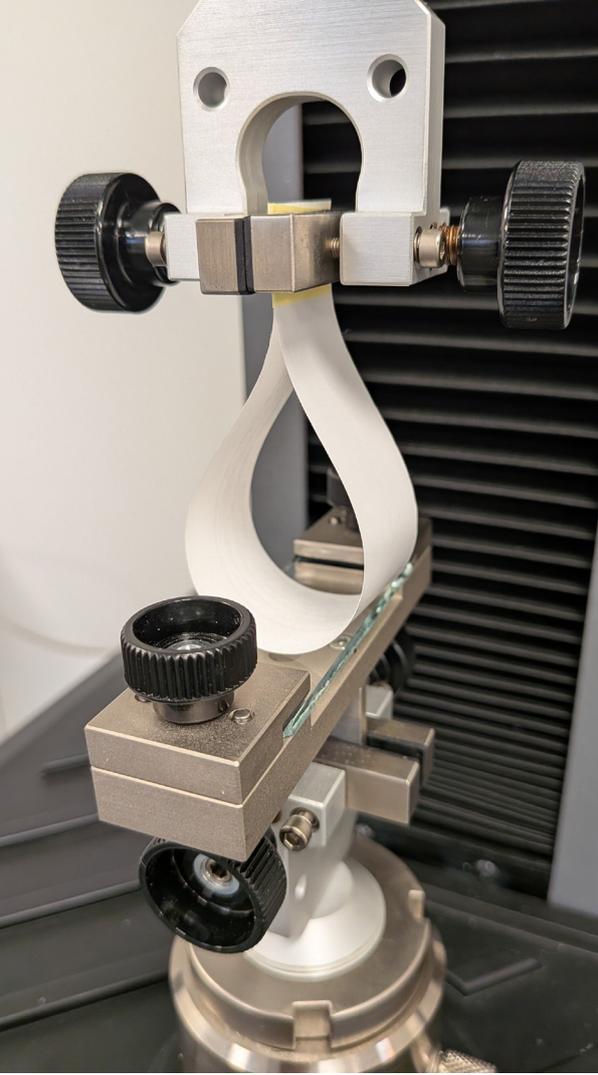


Thermal transfer ribbons use heat from the printhead to transfer a coated ink layer onto a label or substrate. The ribbon formulation determines durability, resistance and material compatibility.

The right ribbon grade depends on your application. Key factors:

- ▶ Substrate compatibility (paper vs synthetic)
- ▶ Environmental exposure (chemicals, abrasion, heat)
- ▶ Required durability across the label lifecycle
- ▶ Printer speed and energy settings
- ▶ Compliance and traceability standards

Selecting the correct grade delivers reliable scanning, stable output and longer printhead life.



**Contact your SATO
Supplies Specialist to
arrange a lab test for
your application.**

European Technical Lab by SATO

Before a SATO ribbon reaches your site, it is tested in our European Technical Lab. We validate the right combination of label material, ribbon grade, print speed and temperature to confirm performance under your operating conditions.

Testing covers smudge resistance, surface compatibility, environmental exposure and adhesive performance. If your application involves demanding conditions such as chemical contact, outdoor storage or temperature extremes, we test for that specifically.

Our technical and presales team also supports regulatory requirements, including food-contact compliance and sustainability reporting. We analyse label constructions and help specify the right materials for label manufacturing.

What the European Technical Lab delivers

- ▶ Application-specific ribbon and label matching, tested before deployment
- ▶ Performance validation across quality, durability and speed
- ▶ Technical support from first conversation through to production go-live
- ▶ Regulatory and compliance guidance, including food contact and sustainability

Thermal Transfer Ribbon Comparison Table



	SWX – WAX	SWR – WAX-RESIN	SRS – RESIN
Compatible Materials	Uncoated, Machine Coated and Semi-Gloss Paper	Coated, Selected Synthetics, Gloss and Semi-Gloss Paper	Gloss Paper and Synthetic Materials (PET, PE, PP, PVC)
Print Durability	Low	Medium	Very High
Abrasion Resistance	Low	Medium	Very High
Chemical Resistance	Low	Medium	Extremely High
Heat Resistance	Low	Medium	Very High
Moisture Resistance	Low	Medium	High
Printhead Energy Required	Low	Medium	High
Image Sharpness	Good	Very Good	Excellent
Outdoor Suitability	Not recommended	Limited	Excellent
Application Life	Short-Medium Term	Medium-Long Term	Long-Term
Cost Level	€	€€	€€€
Application fields	Food & Beverage, Transport & Logistics, and Retail.	Manufacturing, Healthcare, Transport & Logistics, Horticulture, Retail & Automotive.	Automotive, Chemicals, Electronics, Manufacturing, Transport & Logistics, Healthcare.
Recommended for	Shipping Labels, Routing, Shelf Labels and Warehouse Labels, Crate Label.	Apparel Hang-Tags, Storage Bin Labels, Plant Identification.	Chemical Bins and Engine Labelling, Sea Containers Identification, Critical Packaging, Outdoor Labels & Micro Labels (PCB)
Traceability	Limited	Moderate	High

SATO Printer Model Match Matrix



	Model	Core Size,"	Max length, m	Max width, mm	Max Outer Diameter, mm
Desktop	CT4-LX	½	100	110	39
	WS4	1	300	110	68
Industrial	WT4-AXB	1	450	110	82
	CL4NX Plus	1	600	128	90
	CL6NX Plus	1	600	177	90
	SG112-ex	1	300	273	70
Print Engine	S84NX	1	600	128	108
	S86NX	1	600	177	108

For more information, please contact
your local SATO office, or visit:

satoeurope.com