

SATO CL-SXR

High-speed label printing with maximum precision from the very first label

- + Print speed up to 457 mm/s for high throughput
- + 104 or 167.5 mm print width for flexible applications
- + Up to 600 dpi for exceptionally detailed print results
- + 4.3" color touchscreen for intuitive operation
- + 600 m ribbon capacity for fewer media changes
- + Optional UHF RFID and HF RFID for the CL4-SXR



NEW PERFORMANCE CLASS FOR INDUSTRIAL LABEL PRINTING

The SATO CL-SXR Series is the new generation of high-performance industrial printers for demanding marking applications. It includes the CL4-SXR with a 104 mm print width for standard labeling applications and the CL6-SXR with a 167.5 mm print width for larger label sizes. As the successor to the proven CLNX-Plus Series, both models combine high print speeds with precise print results and convenient operation. Depending on the model, resolutions of 200 or 300 dpi are available, with an additional 600 dpi option for the CL4-SXR.

With print speeds of up to 457 mm/s on the CL4-SXR and 356 mm/s on the CL6-SXR, the series is also suitable for applications with high label volumes. The 4.3" color touchscreen with integrated video tutorials assists users with operation, setup, and maintenance.

Numerous interfaces, emulations, and upgradeable options enable flexible integration into existing production environments. SATO AEP also allows stand-alone applications to run directly on the printer. RFID, optional direct PDF printing, and 1D and 2D code verification further expand the range of applications.

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SPECIAL FEATURES

HIGH SPEED MEETS PRECISE PRINTING

The CL-SXR Series combines high throughput with precise label positioning. At 200 dpi, the CL4-SXR achieves print speeds of up to 457 mm/s, while the CL6-SXR reaches up to 356 mm/s. For particularly demanding print images, the CL4-SXR also offers a resolution of 600 dpi. The new sensor technology enables high print positioning accuracy even with small labels and demanding applications.

INTUITIVE OPERATION DIRECTLY ON THE PRINTER

The 4.3" TFT color touchscreen with a resolution of 480 × 272 pixels ensures clear and convenient operation. Integrated video tutorials assist users directly on the device with typical tasks such as loading labels and ribbons. Numerous display languages and printer fonts facilitate international use and reduce training requirements.

FLEXIBLE INTEGRATION INTO EXISTING SYSTEMS

LAN, USB, RS-232C, and the applicator interface are available for integration into industrial applications; Wi-Fi is available as an option. Numerous emulations facilitate integration into existing printing environments and enable the replacement of existing printing systems. The front USB host interface can also be used to transfer data, update firmware, or connect peripheral devices.

INTELLIGENT APPLICATIONS WITH SATO AEP

With SATO AEP – Application Enabled Printing – applications can be run directly on the printer. This enables stand-alone solutions without a permanently connected PC, for example. Print data can be processed, operating workflows can be customized, and external devices can be integrated. This opens up additional possibilities for decentralized marking solutions directly in production and logistics.

LESS DOWNTIME AND FEWER CONSUMABLE CHANGES

A ribbon capacity of up to 600 meters reduces the frequency of necessary media changes and supports long production runs. The printhead and platen roller can be replaced without tools, allowing maintenance work to be carried out quickly. At the same time, the integrated operating aids facilitate troubleshooting directly on the device and help reduce unplanned downtime.

GREATER PROCESS RELIABILITY AND LESS WASTE

The CL-SXR Series can optionally be equipped with a scanner for verifying printed 1D and 2D codes. This allows the quality of important markings to be checked directly during the printing process. A special function also enables printing from the very first label without first feeding blank labels for positioning. This reduces material consumption and avoids unnecessary label waste.

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TECHNICAL SPECIFICATIONS

PRINTING SPECIFICATIONS

Printing process	Thermal transfer; Thermal direct
Print width up to	167.5 mm ^①
Print length max.	2,500 mm ^②
Printhead resolution	203 dpi; 305 dpi; 609 dpi
Print speed up to	457 mm/sec ^③
Printhead technology	Flathead
PDF direct printing	+ ^④

① 104 mm (CL4-SXR) ② CL4-SXR (305dpi): 1500mm; CL4-SXR (609dpi): 400mm; CL6-SXR (305dpi): 1500mm ③ CL6-SXR: 356 mm/s ④ optional

PRINT MEDIA

Material width (labels and liner material)	22 - 177 mm ^①
Material thickness	0.06 - 0.28 mm

① CL4-SXR: 22-128 mm; CL6-SXR: 47-177 mm

RIBBON

Ribbon width	39.5 - 177 mm ^①
Core diameter	25.4 mm
Maximum length	600 linear meters
Winding	Inside (standard) Outside (standard)

① CL4-SXR: 39,5-128mm; CL6-SXR: 59-177 mm

HARDWARE

Display	4.3" colour TFT
RAM	2 GB
ROM / flash memory	8 GB
Flash memory expansion as an option	-
SD memory card slot	-
USB memory stick slot	+
Interfaces	RS232; USB host dual; USB; Ethernet 10/100 BaseT; Ethernet IPv4; Ethernet IPv6; Applicator port ^①

① WLAN optional

SATO CL-SXR

SOFTWARE

Emulations	ZPL, SDPL, SIPL, STCL, SEPL
Programming language	SBPL

PHYSICAL ASPECTS

System dimensions (HxWxL)	321 x 275 x 457 mm ^❶
Weight	19.4 kg ^❷
Authorisations	CE
Ambient temperature	0 - 40°C ^❸
Rel. humidity non-condensing	30 - 80 % ^❹
Frequency	50 - 60 Hz

❶ CL6-SXR: 321 x 338 x 457 mm ❷ CL4-SXR: 15,5 kg ❸ Continous/TearOff/Cutter: 0-40°C; Dispenser/Linerless Cutter: 5-35°C ❹ Continous/TearOff/Cutter: 20-85%

SATO CL-SXR



YOUR RELIABLE PARTNER

+ PERSONAL POINT OF CONTACT

Your personal point of contact from our team will listen to you and explain the options.

+ MADE IN GERMANY

With our Made in Germany production, we guarantee quality and availability.

+ APPROPRIATE SOLUTION

We develop the optimal solution for your requirements, independently of technology.

+ SEAMLESS SERVICE

Our comprehensive service network is always on hand to help.

+ REGIONALLY ROOTED, GLOBALLY CONNECTED

As a family-owned company with branches worldwide, customer relations are always our top priority.

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