

THE WORLD'S FIRST DESKTOP FLATBED ECO-SOLVENT PRINTER FOR SENSITIVE APPLICATIONS



SF-200 Flatbed eco-solvent printer for sensitive applications

The SF-200 desktop flatbed printer is ideal for digital printing of full colour images, logos and text onto toys, soothers, food packaging (lunch-boxes, drinking bottles, etc.), sports equipment, health and personal hygiene items (e.g. toothbrushes), glasses frames, medical devices, promotional items, safety equipment, cosmetic containers, electronics and much more.

The solution is suitable for users with highly specific print requirements for materials such as ABS, PVC, TPU, PET, PMMA, wood, glass and leather¹ - to name a few, and provides customisation of objects and media with print areas up to 508 mm (w) x 330 mm (l) with maximum 100 mm in height and 5 kg of weight.

With the SF-200 users can print many or single objects with detailed colourful images and high durability, giving them the opportunity to offer high quality prints on objects that require increased health safety.

INKU SF inks², which are used in SF-200, are tested for meeting the requirements of EN71-3 standard (toys safety)³.

The solution is also complimented by optional active carbon filter with heated full-size drawers, which allows the solution to be used in retail environments and ensures faster drying time and de-gassing of the final product.

Kids and Safety

The SF-200 is designed specifically with the toy industry and children's safety in mind. When it comes to kids, the safety and health requirements cannot be too strict. The inks used for the SF-200 have been successfully tested for compliance to the EN71-3 toy safety standard³, which is an addon to the Toy Safety Directive. This allows for detailed and personalized print of toys made of a wide variety of plastic materials, wood and leather to name a few and it stands the roughest handling of e.g. kids playing with and exploring the durability of their toys.



Food Packaging

Customisation of food containers and food packaging is now possible with the SF-200 where the eco-solvent inks used are highly durable and does not affect the items contained. This allows for the industry to offer personalised items either directly from the factory or e.g. sold directly from the retail outlet with personalised images and/or text added to the object such as a lunchbox or a drinking bottle.

Medical Devices and Instruments

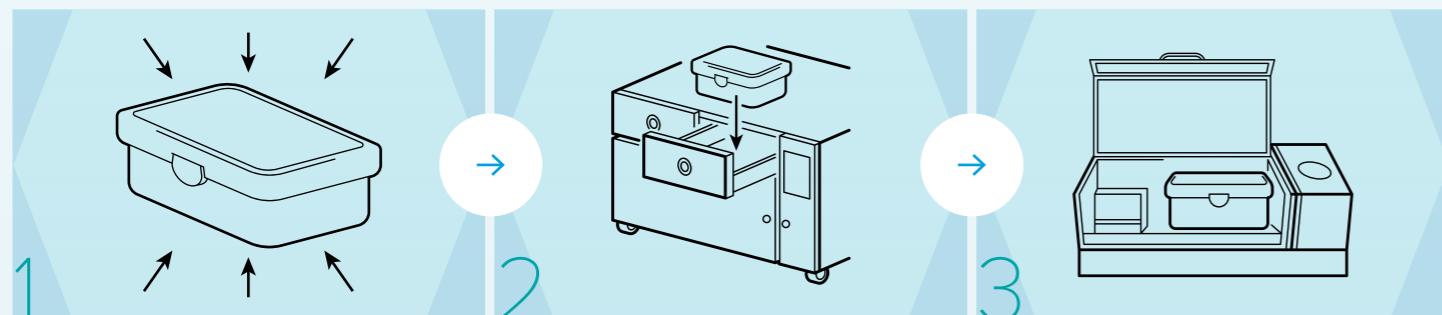
For medical equipment, the SF-200 can apply customised or general print onto labels and plastic devices such as pill organisers, trays, boxes etc, which is very often in direct contact with human skin and used in environments where people are often in a sensitive position. The durability of the inks used means that items can be reused where necessary without the need for reprint.



Health and Personal Hygiene Items

Even for personal hygiene and health items the requirements for increased safety measures can be relevant. Therefore, the SF-200 has also found its way to customers and manufacturers in this type of industries and production environments, where customisation of items such as tooth brushes, thermometers and cosmetic containers are business drivers to differentiate themselves from their competitors.

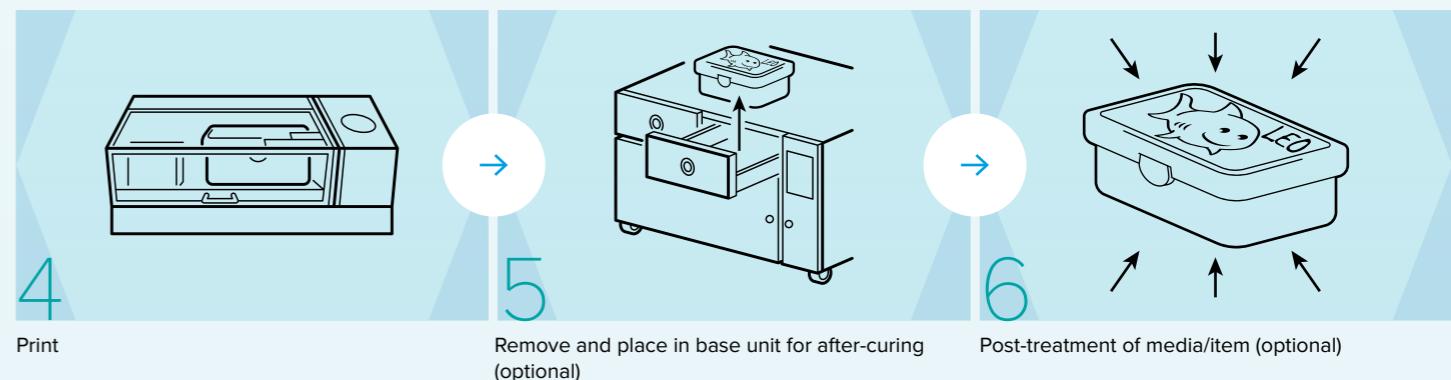
Printing is quick, clean and safe with the SF-200³



Pre-treatment of media/item (optional)

Place in base unit to pre-heat (optional)

Place in SF-200



Print

Remove and place in base unit for after-curing (optional)

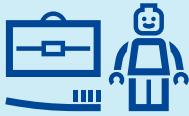
Post-treatment of media/item (optional)

¹ Special printing workflow is required for some of the materials.

² Available in five colours (cyan, magenta, yellow, black and white, 220 cc)

³ Toy manufacturer is responsible for compliance with legal requirements with toys.

Key benefits



Precisely print vivid, full colour images on a range of clear and coloured objects and media.



Highly durable SF-200 inks are tested to meet the requirements of EN 71-3 standard ².



Includes user-friendly VersaWorks 6 RIP software, developed to make your printing operation quick and easy.



Stacks on optional base unit with spacious heated drawers for pre- and post-treatment if required. Enables use in retail and office environments.

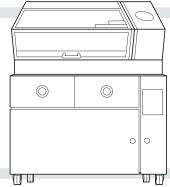
SF-200

Printing method		Piezo ink-jet method
Media/object	Width	Max. 538 mm (21.2 in.)
	Length	Max. 360 mm (14.2 in.)
	Thickness	Max. 100 mm (3.94 in.)
	Weight	Max. 5 kg (11 lb.)
Printing width / printing length		Max. 508 (W) x 330 (L) mm (20 x 13 in.)
Ink	Type	Ink specified by Roland DG Corporation
	Colours	Five colours (cyan, magenta, yellow, black, and white)
Printing resolution (dots per inch)		Max. 1440 dpi
Distance accuracy (*1)		Error of less than \pm 0.3 % of distance travelled or \pm 0.3 mm (\pm 11.8 mil), whichever is greater
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving functions		Automatic sleep feature
Power requirements		AC 100 to 240 V \pm 10%, 1.1A, 50/60 Hz
Power consumption	During operation	Approx. 81 W
	Sleep mode	Approx. 13 W
Acoustic noise level	During operation	60 dB (A) or less
	During standby	49 dB (A) or less
Outer dimensions		1202 mm (W) x 962 mm (D) x 549 mm (H) (47.3 x 37.9 x 21.6 in.)
Weight		110 kg (242.5 lb.)
Environment	During operation	Temperature: 20 to 32°C (68 to 90°F), Humidity: 35 to 80%RH (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), Humidity: 20 to 80%RH (no condensation)
Included items		Power cable, RIP software, cleaning liquid, drain bottle, user documentation, etc.

¹ Temperature: 25°C (77°F), Humidity: 50% RH

Specifications, designs and dimensions listed may be subject to change without notice.

SF-200 WITH BASE UNIT



Optional SF-200 Base Unit

Airflow	100 - 200 m ³ /h
Combined filter	Gas/HEPA filter
Controls	Power on/off / 2 x PI temperature controllers
Monitoring	VOC. Filter Change Indicator
Electronic supply	240V
Frequency	50/60 Hz
Full load current	Max. 10A
Estimated weight	180 - 200 kg
Heated drawer dimensions	397 mm (w) x 617 mm (d) x 102 mm (h)
Overall dimensions	1210 mm (w) x 1023 mm (d) including spigot 995 mm / excluding spigot x 712 mm (h), 740 mm including top spigot
Lockable / levelling castors	x 4

RolandCare Warranty



Enjoy the peace of mind of having one of the most comprehensive warranty packages in the industry, included with the SF-200.

¹ Special printing workflow is needed. ² Certification of the printed product is not guaranteed. It is the responsibility of the user printing the product to gain any certifications required and to bear the cost of any certification process. Toy manufacturer is responsible for compliance with legal requirements with toys. ³ Print process may be specific to each application

Roland DG reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland DG dealer for details. No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. Roland DG Corporation has licensed the MMP technology from the TPL Group.

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