VersaUV

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Roland VersaUV LEJ-640F

FLATBED PLOTTER FOR FLAT PRINTING ON RIGID AND FLEXIBLE MEDIA.

Overview

Based on the award-winning VersaUV technology, the VersaUV flatbed LEJ-640F prints CMYK plus white and clear inks onto both flexible materials and rigid substrates up to 15cm thick. With the LEJ-640F, you can print white on a variety of clear substrates for text and graphics that stand out. Layers of clear ink create custom patterns and embossing effects, perfect for premium brands. With a wide bed size of 1.6 by 2.5m, the LEJ-640F lets you explore a wide range of applications with just one device, from packaging prototypes and POP to wide-format signage and window displays.

Product highlights

• Prints on rigid or flexible media.
• Print width: 160 cm.
• Print surface capable of supporting objects weighing up to 200 kg and up to 15 cm thick.
• 3 formats with working areas of 200, 250 and 320 cm.
• Resolution: 1440 dpi.

• Roland UV CMYK + WH + GL inks.
• RIP Roland VersaWorks.
• Automatic media thickness sensor.
• 6 very high precision piezo-electric print heads.
• Low consumption cold UV lamp.
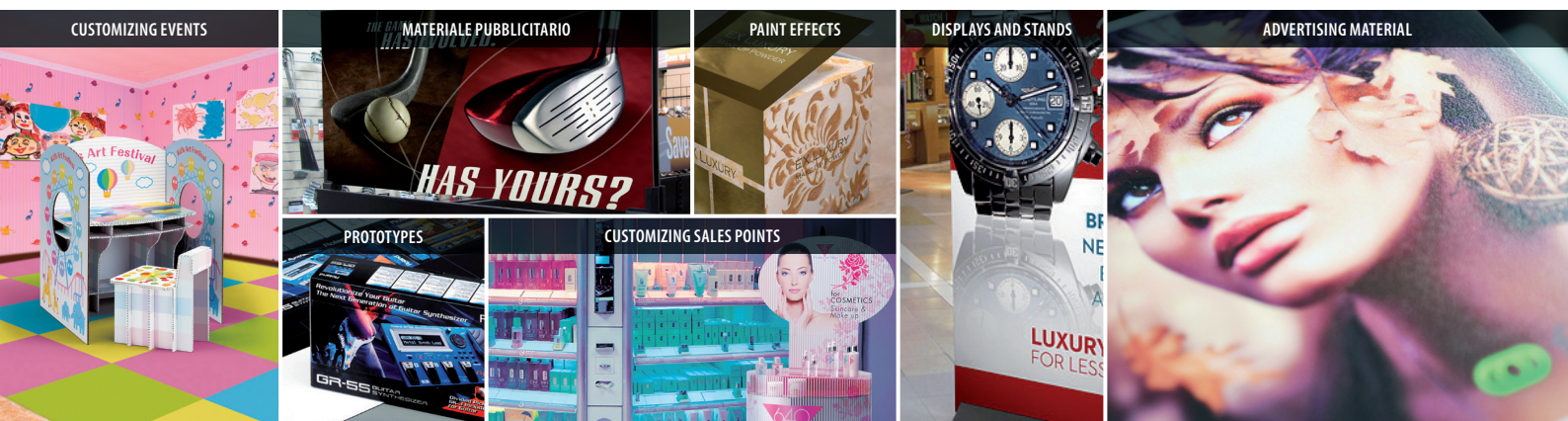• Partionable vacuum work surface.

Versatility

The LEJ-640F can print on a wide range of materials; rigid, flexible and sheets. These include polyurethane, polystyrene, polypropylene, cardboard, aluminium panels, fluted and corrugated boards and acrylics. It's also possible to print on sheets of flexible material such as self adhesive vinyl, polycarbonate, PET, polyethylene and PVC banner. The versatility and ease of use allows the operator to deliver many types of applications from one device.

Advanced technology

A fully-automated, built-in sensor determines the relevant print head height for each job, allowing for the thickness of the media to be printed. This feature prevents head strikes and ensures reliable, high-quality printing up to 1440 x 1440 dpi across the widest range of substrates with weights up to 200Kgs. The bed can be divided up into seven areas for ease of material handling and maximum productivity. Roland's unique ink circulation system prevents white ink particles from settling for reduced waste and consistent print quality.

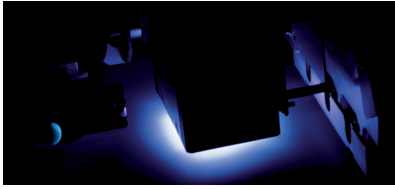CUSTOMIZING EVENTS   MATERIALE PUBBLICITARIO   PAINT EFFECTS   DISPLAYS AND STANDS   ADVERTISING MATERIAL

PROTOTYPES   CUSTOMIZING SALES POINTS

UV-LED lamps

The LEJ-640F features the latest generation UV-LED lamps, designed to cure Roland ECO-UV inks. This state-of-the-art curing system is safe to use and requires little power to operate. Lamps last up to 10,000 hours*.

The LEJ-640F LED curing lamps automatically reposition themselves for optimum image quality in each print mode.
The life span of Roland UV-LED lamps may vary due to temperature and printing conditions.
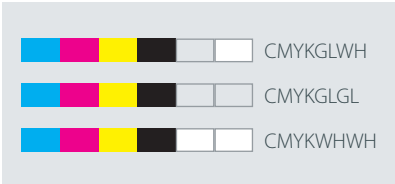
Specialty ECO-UV inks

The LEJ-640F outperforms traditional CMYK printers with the addition of white and clear inks that together open up a new world of design opportunities. With high-opacity white ink, you can print crisp, bright text and graphics on a range of coloured and transparent material. Clear ink can be layered into striking gloss and matte finishes. More than 70 ready-to-apply patterns are included in Roland's VersaWorks Texture System Library.

Possible combinations

CMYKGLWH
CMYKGLGL
CMYKWHWH

ECO-UV: CMYKGLWH when your design calls for clear ink together with the white and CMYK color inks.
ECO-UV: CMYKGLGL to produce a fast embossed effect on your prints.

ECO-UV: CMYKWHWH for a high level white covering.

RELIEF EFFECTS | GLASS CLEAR COATING | MATTE CLEAR COATING | PRINTING ON RIGID MATERIALS

Specifications

Specifications		
Printing method		6 heads piezo, UV LED
Acceptable media	Dimensions *1	Width 1,660mm, Length 2,580mm (extendable) *2
	Thickness	Up to 150mm (6")
	Weight	Max 200 kg
Printing area		Width 1,600mm, Length 2,500mm
Ink cartridges	Type and capacity	ECO-UV 220cc
	Capacity	Cyan, Magenta, Yellow, Black, White and Gloss
Vacuum system	Turbine	2.2Kw (three-phase) with silencing system
	Partition	5 selectable areas (mm): 750 x 550, 800 x1100
Interface		Ethernet Base 10/100
Printing resolution		Up to 1440 DPI
Movements		Stepping motors 24,000 pulse/mm
Distance accuracy		Error of less than ± 0.3% of distance travelled, or ± 0.3 mm (25°C)
Repetition on horizontal repositioning		± 0.01 mm
Control panel		LCD B/N 6 inches
Print media settings		Continuous, Unload sheet, Return to origin, 3D layers
Media height detection		Manual / Automatic optical (laser) for opaque materials
Surface security check		Optical (laser barrier)
Power requirements		AC 380V three-phases (3+GND) - Switch Plug 16A 50/60Hz
Power consumption	With vacuum	2,700 W
	Sleep mode	150 W
Acoustic noice level	With vacuum	< 70 dB
Air requirements	Pressure	from 4 to 7 bar
	Volume *3	< 3 litres/hour
Environmental	Power on	Operation temperature: 20-32 °C, Humidity 35-80% (no condensation)
	Power off	Operation temperature: 5-45 °C, Humidity 20-80% (no condensation)
Max dimensions		3,184(L) x 3,283(P) mm
Shipment dimensions packed	Shipment	2,225(L) x 3,283(P) mm
Printing bed height		895 mm
Weight	Total	1,000 kg
	Distribution	On 4 points diameter 120mm (1510 x 2910 mm)

*1 functional dimensions of vacuum bed.   *2 not covered length, out of printing unit.   *3 Depends on number of starts of vacuum system, the air is used only for the valve commands.
The usage of the machine is limited only to those instructed and trained by Roland.

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