

SIGNRACER

PRECISION MEETS PERFORMANCE

INDUSTRIAL FLATBED UV LED PRINTER

SIGNRACER 3020

3050 x 2050 mm industrial flatbed for oversized panels, signage, and furniture workflows.



📏 3050 x 2050 mm print area for oversized panels and signage.

⚡ Up to 69 m²/h draft throughput in triple-row configuration.

🔧 4-zone vacuum bed with registration pins for stable hold.

LARGE-FORMAT INDUSTRIAL FLATBED PRINTING

The SIGNRACER 3020 is an industrial UV flatbed with a 3050 x 2050 mm print area for qualified signage, panel, furniture, and large-format applications.

Ricoh Gen. 6 printheads provide 5-15 pl grayscale drops, while the linear-motor carriage and triple-row curing configuration support production modes up to 69 m²/h draft throughput. Approve detail, gradients, registration, colour, cure, adhesion, finish, and usable speed on the intended substrate.



INDUSTRIAL FIT SNAPSHOT

1 µm Positioning

Linear motor precision enables high-resolution output for detailed graphics and fine text on oversized substrates.

100 mm Media Height

Print directly on thick rigid substrates including wood, composite, and technical materials.

69 m²/h Draft Speed

Triple-row draft mode provides the stated maximum throughput for large-format production with tight deadlines; approve quality and usable speed in the selected production mode.

BUILT FOR OVERSIZED INDUSTRIAL PRODUCTION



3050 x 2050 mm Vacuum Bed

The 4-zone vacuum bed supports hold-down of qualified large panels. Confirm media flatness, vacuum settings, loading, and clearance for the actual sheet.



Archived GREENGUARD Gold Records

Archived certificate records for SR-200+ and SR-100 HD cover periods ending 25 January 2025. Confirm current certification, the exact ink family, and project scope before specification.



Triple-Row Printhead Configuration

Up to 8 Ricoh Gen. 6 heads in triple-row layout support draft throughput up to 69 m²/h.

KEY CAPABILITIES

3050 x 2050 mm Print Bed

Print qualified panels and surfaces within the 3050 x 2050 mm area without tiling when the finished artwork fits the bed.

Up to 69 m²/h Draft Throughput

The triple-row configuration reaches up to 69 m²/h in draft mode. Approve quality and usable speed in the selected production mode.

Linear-Motor Positioning

Linear-motor drive with 1-micron encoder measurement resolution supports carriage positioning across the 3050 mm print width.

CORE TECHNOLOGY BEHIND 3020 PERFORMANCE



Linear Motor + 1-Micron Encoder

Direct electromagnetic carriage motion replaces belt dependency and improves positional control across the full 3050 mm print width.



Ricoh Gen. 6 Print Engine

Ricoh Gen. 6 heads provide 5-15 pl grayscale drops at up to 40 kHz. Approve tones, edges, colour, and detail in the intended print mode.



Air-Cooled UV LED Curing

The IST INTECH system offers adjustable power up to 16 W/cm² in triple-row configuration. Confirm cure, heat response, adhesion, finish, and required resistance at the intended speed and ink load.



SR-100 HD for Multi-Purpose Production

Published SR-100 HD data reports solvent and scratch resistance for mixed rigid and roll-media work.



SR-200+ for High-Adhesion Industrial Parts

Published SR-200+ data positions the ink for adhesion-focused industrial work with Orange and Violet gamut options.



PREMIUMFLEX+ for Flexible Materials

Published PREMIUMFLEX+ data reports flexibility for leather-like and soft substrates, including Bally Test durability above 50,000 cycles.

HIGH-FIT APPLICATIONS FOR SIGNRACER 3020



Large-Format Signage and Displays

Use the 3050 x 2050 mm bed for oversized panels, exhibition walls, and point-of-sale displays that fit within one flatbed layout.



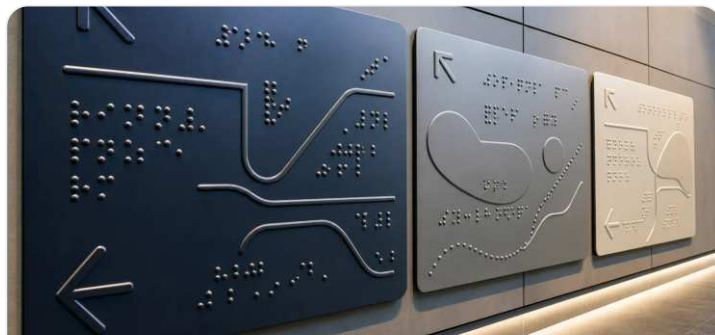
Furniture and Interior Panels

Decorate qualified wood, MDF, and composite panels for furniture and interior applications.



Wayfinding and Directional Signage

Lay out directional signs, room-identification panels, and architectural wayfinding on the oversized bed.



Braille and Tactile Signage

Lay out multiple tactile sign panels on the large bed after project-specific validation.



Architectural Glass and Panels

Decorate qualified glass and architectural panels within the machine clearance and bed size.



Digital Masking and Surface Processing

UV-curable digital masking printed directly on metal for brushing and sandblasting.

SIGNRACER 3020

Print Engine

PRINT TECHNOLOGY
UV-Cured Industrial Inkjet

PRINTHEADS / COUNT
Ricoh Gen. 6, 2 to 8

NOZZLES / DROP SIZE
40 kHz: 1280 nozzles | 5-15 pl grayscale

PRINT RESOLUTION
635 x 900 dpi

CARRIAGE DRIVE / SPEED
Linear Motor, up to 1.2 m/s

Media & Bed System

PRINT AREA
3050 x 2050 mm

FLATBED TYPE
Honeycomb 4 zones vacuum table with registration pins

MAX MEDIA WIDTH / PRINT WIDTH
3100 mm / 3050 mm

MAX MEDIA THICKNESS
Maximum 100 mm

SUPPORTED MEDIA
PVC, aluminium composite, acrylic, wood, MDF, glass, PET-G, composite panels, leather, corrugated board, mesh, vinyl, foam board; validate production media before approval

UV Curing System

CURING TECHNOLOGY
LED UV curing with variable power levels

CURING WIDTH / POWER
Single: 90 mm / 14 W/cm²
Double: 180 mm / 14 W/cm²
Triple: 210 mm / 16 W/cm²

Ink Solution

INK CONFIGURATION 1
CMYK + White

INK CONFIGURATION 2
CMYK + LC + LM + LK + White

INK CONFIGURATION 3
CMYK + Orange + Violet + White + Varnish

INK CONSUMPTION
8 ml/m²

Electrical & Physical

POWER CONSUMPTION
6 kW

DIMENSIONS (L X W X H)
5230 x 3200 x 1350 mm

WEIGHT
1760 kg

SHIPPING CRATE (L x W x H)
5560 x 2280 x 1800 mm

SHIPPING WEIGHT
2250 kg (gross) / 490 kg (crate)

Software & Documentation

RIP SOFTWARE
Caldera, Ergosoft

CONFORMITY MARKING
CE marking

CONSUMABLES (NOT COVERED)
Printheads, inks, filters and other wear parts

PRINT SPEED BY CONFIGURATION

CONFIGURATION	4-PASS	6-PASS	9-PASS
SINGLE ROW	28	23	16
DOUBLE ROW	49	41	30
TRIPLE ROW	69	58	42

Validate the 3020 on Your Parts

Share your materials, artwork, and quality targets for a focused test-print and rollout recommendation from SIGNRACER.



Scan for the live product page

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