

SIGNRACER

PRECISION MEETS PERFORMANCE

INDUSTRIAL FLATBED UV LED PRINTER

SIGNRACER 3116

Large-format 3100 x 1600 mm
industrial flatbed with linear motor
precision and scalable throughput.



🎯 3100 x 1600 mm print area for large rigid and flexible media.

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

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

LARGE-FORMAT PRODUCTION PRINTING

The SIGNRACER 3116 is an industrial flatbed with a 3100 x 1600 mm print area and 4-zone vacuum bed for qualified large-format rigid and flexible media. Approve media flatness, vacuum settings, registration, and clearance on the actual job.

The 3116 supports up to 8 Ricoh Gen. 6 printheads with 5-15 pl grayscale drops and a linear-motor carriage specified up to 1.2 m/s. Approve grayscale detail, registration, colour, and usable speed in the selected production mode.



INDUSTRIAL FIT SNAPSHOT

1 µm Encoder Resolution

Linear-motor carriage with encoder feedback at 1-micron measurement resolution; approve detail and registration in the intended print mode.

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 wide-format production with tight deadlines; approve quality and usable speed in the selected production mode.

BUILT FOR WIDE-FORMAT INDUSTRIAL PRODUCTION



Wide-Format Vacuum Bed

The 3100 x 1600 mm print area uses multi-zone vacuum hold. Confirm panel flatness, vacuum settings, loading, and registration on 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

3100 × 1600 mm Print Bed

Wide enough for full-size panels and signage, with a 1600 mm depth suited to standard sheet sizes and production workflows.

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.

Single-, Double-, and Triple-Row Options

Available curing and printhead layouts support different throughput and ink-channel requirements. Select the configuration before order and validate the intended workflow.

CORE TECHNOLOGY BEHIND 3116 PERFORMANCE



Linear Motor + 1-Micron Encoder

Direct electromagnetic carriage motion replaces belt dependency and improves positional control across the full 3100 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 14 W/cm². 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

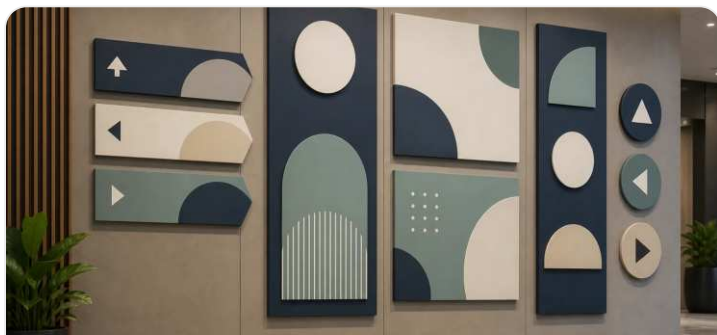
Published SR-200+ data positions the ink for adhesion-focused industrial work with Orange and Violet gamut options.



PREMIUMFLEX+ for Flexible Materials

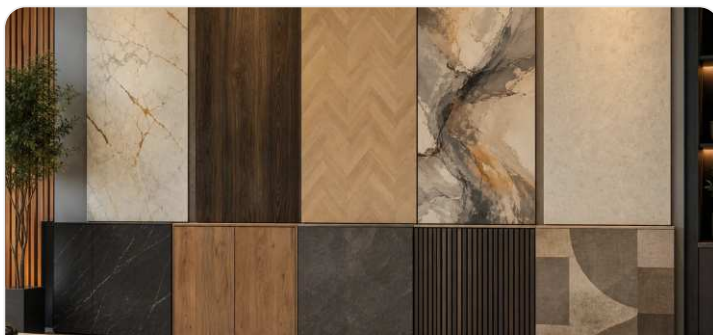
Published PREMIUMFLEX+ data reports flexibility for leather-like and soft substrates, including Bally Test durability above 50,000 cycles.

HIGH-FIT APPLICATIONS FOR SIGNRACER 3116



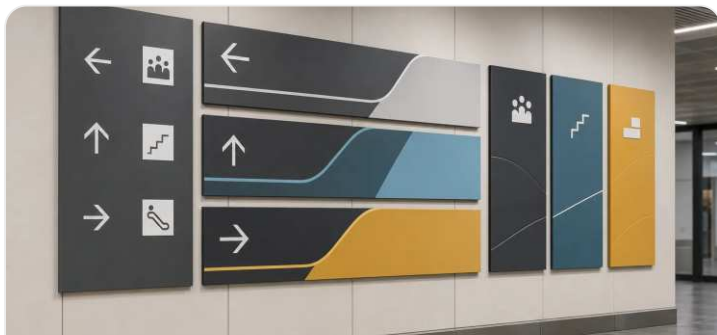
Wide-Format Signage and Displays

Use the 3100 x 1600 mm bed for wide panels, exhibition graphics, and point-of-sale displays that fit within one flatbed layout.



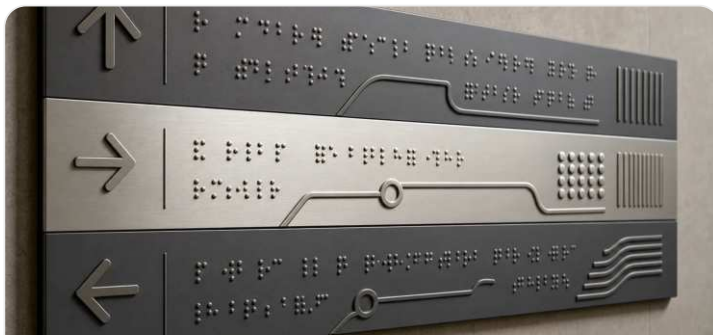
Furniture and Interior Panels

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 wide-format bed.



Braille and Tactile Signage

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



Architectural Glass and Panels

Wide-format decoration on glass, acrylic, and architectural panel materials with consistent color across the full bed.



Digital Masking and Surface Processing

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

SIGNRACER 3116

 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
3100 x 1600 mm

FLATBED TYPE
Honeycomb 4 zones vacuum table with registration pins

MAX MEDIA WIDTH / PRINT WIDTH
3150 mm / 3100 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 2220 x 1350 mm

WEIGHT
1610 kg

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

SHIPPING WEIGHT
2100 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 3116 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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