

🧧 K C M 🔮 O O

IGNRACER

2

4



PRECISION MEETS PERFORMANCE

Industrial Printers

6000

888A

10



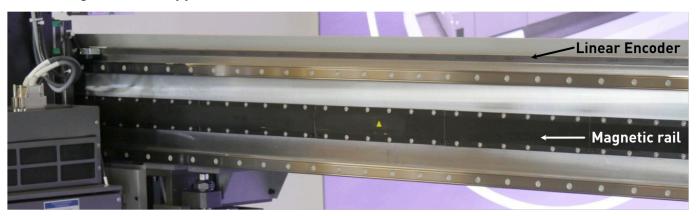
High Adhesion to Substrate High Precision Printing

Digital Primer and Varnish 3D Layering Effect



INDUSTRIAL PRINTING SOLUTIONS

SIGNRACER is advancing all flatbed printers with the newest linear motor technology for demanding industrial applications.



Linear Motor Technology

The integration of a linear motor in SIGNRACER flatbed printers ensures fast and smooth carriage motion. This technological advancement replaces the traditional belt-driven system, providing direct and precise motion control, significantly reducing vibrations and maintenance needs.

Reduced Vibration for Premium Print Quality

The advanced design of SIGNRACER printers significantly lowers vibration levels. This results in smoother carriage movement and superior print quality, especially in high-detail graphics and 3D printing applications. The shift to linear motors in SIGNRACER printers offers remarkable durability improvements. This change reduces mechanical wear, noise levels, and maintenance, enabling reliable and quiet operation in various environments.

Key benefits of linear motor and linear encoder

- Electromagnetic force mechanism.
- Higher speed, for high-speed production.
- Superior precision, with high-resolution output.
- Suitable for industrial environment as linear magnetic encoder is not sensitive to temperature and dirt.

Highest Accuracy with 1-Micron Linear Encoder

Equipped with a 1-micron linear encoder, SIGNRACER printers achieve the highest accuracy in carriage movement. This feature is critical for detailed and wide-format printing, ensuring perfect alignment and uniform print quality across large surfaces.

Higher Resolution 1200 x 1210 DPI

The upgrade to a 1200 x 1210 DPI resolution in SIGNRACER printers represents a significant improvement in print quality and color alignment which is only possible with the precise 1 micron encoder. This higher resolution allows for super precision, essential for producing finely detailed images and sharp text. It's particularly beneficial for applications where visual clarity and detail are paramount, such as in high-end graphics, detailed photographs, and precise industrial prints.

- Less vibration, ensuring smoother operation.
- Minimal maintenance, with fewer wear components.
- Higher durability, with robust long-term operation.
- Suitable for high-end, precision-intensive tasks.







High Performance UV LED

Signracer printers use the IST INTECH LED System, which has very high performance and air cooling (no water cooling tubes in the cable chain!). These LEDs Systems are offered with a 3 years warranty. Modular design allows custom LED UV configurations for various applications. LED UV lamps feature long life and light wavelength that perfectly matches the ink. Our LED is adjustable from 10-100% with maximum power of 14 Watt/cm2. High settings allow quick curing and the best adhesion and lower LED performance can be beneficial for further production processes (CNC machining, stretching materials, etc.)

Standardization of Ricoh Gen. 6 print heads across all models

- The Ricoh Gen. 6 assures uniform, high-quality printing with improved resolution and accuracy.
- SIGNRACER 1610 now also available in double row configuration.
- Higher frequency up to 40 KHz in Grey-scale mode
- Higher carriage speed up to 1.3 m/s
- 50% speed improvement over Ricoh Gen. 5
- Smaller drop size of 5,10, 15 pl for finer visual graphics
- Special wave-form development for Signracer inks
- Industrial grade stainless steel housing

L S -> 🖬	📇 🛄 🖷	2.00us	MANANAN	🚻 ₩ 🔍 2.0	Ous
				80us) · · · · ·	
					4.00
	all ben		and the		-
		···· /			
W	1 1		t 1: :		
				· /	
			tt	1	
	8e - 1				
	1				
	(
		_			
				1: : :	
20.0V		CH1 /	32.0V	0.00000	

Signracer has a development partnership and OEM agreement with Ricoh. Therefore we were one of the first companies offering Ricoh's Gen. 6 printheads on the market. Ricoh's smaller drop print heads are suitable for special applications that demand higher precision like watch faces or industrial components. We develop our own inks and waveforms, which is extremely important for small drop print heads and high frequency like Gen. 6. This feature allows us even higher print output, and top quality at maximum printing speeds without compromise. Signracer waveforms are a perfect match with our ink formulations especially in Grey-scale printing.

F COM	IPLIANCE	
	Cignracor	272516-420
("	Signracer	Certificate Number
	Signracer IN	03(03/2022 - 03/25/2023
REENGUARD		Certificate Period
COUCT CERTIFIED FOR		Certified
COM/GG 2010		Status
GOLD	UL 2858 - 2053 Gold Standard for Chemical Emissions	eine a Daennen Soulenmart affe so als charas als So M 1 and a loading of
ting of 33-us mill	compliant in accordance with California Department of Public Health (CDPH) Scienderd Web	lad VL2-sace using an Office Environment with an air change of sold in 1 ^a and a
but tested in accordance with UL allos to	est method to show compliance to emission limits on ∂_{x} adult. Section (), and (), i	

The GREENGUARD Gold Certification ensures the interior products are low in chemical emissions, decreasing indoor pollution levels. This program sets the most stringent guidelines for total VOC emissions. Greenguard Gold Certified products emit minimal gases. They maintain healthy indoor air quality, by reducing our chemical exposure. Low level of formaldehyde emissions specifically, makes them suitable for use in child's room or educational settings which has to meet even stricter standards. Lower emissions mean healthier indoor air, thereby reducing the risk of various irritations and diseases.



SIGNRACER features developed for industrial printing

- Extended color gamut ink set with CMYKLcLm, Orange, Violet and Light Black.
- New digitally printed primer for highest industrial adhesion requirements.
- High-distance printing accuracy up to 6 mm.
- Automated 3D Layer printing.





- Signracer SR-200+ ink series for highest industrial adhesion requirements.
- PremiumFlex+ for printing on leather.
- Signracer meets the newest directive for Safety of machinery SN EN ISO 13850 (optional).

SIGNRACER

• Antistatic system (optional)

Signracer has optimized the printer for distance printing in high quality. With our print heads we can achieve good printing results in a distance of 6-7 mm. Above this distance we have developed a patented technology to achieve good printing results up to 12 mm distance. This technology is already used to print on shoes, tools and components which are not 100% flat.

SIGNRACER 2512 HB

HB stands for High Bridge, direct printing on higher objects, by moving the bridge up to 50 cm height.



The SIGNRACER 2512 HB was designed especially for those industrial customers who require printing capabilities up to 50 cm height. The printer is using motorized lifting mechanisms on both sides of the high bridge. In combination with a linear motor and 1-micron encoder, we can achieve the same accuracy as standard SIGNRACER flatbeds, even at the highest bridge position.



LOW POSITION

MEDIUM POSITION

HIGH POSITION

The combination of our high bridge design and the high-distance printing capabilities (7 mm) make this a unique industrial solution in the market. All our industrial inks can also be used on SIGNRACER 2512 HB. With PremiumFlex+, we can print on shoes and other fashion products like leather or artificial leather. With SIGNRACER SR-200+ ink, we can print on challenging materials like plastics, solid metals, wood, glass.



SIGNRACER 2512 HB 3D

Signracer has customers in the Swiss watch industry who need high-precision 3D printing. For this purpose, ink layers of 10-40 microns are applied to create a few mm height. To build up the printed structure precisely, an innovative laser scanning of the printed surface is required. The laser scanner determines the highest point of the digitally printed layer and automatically adjusts the height of the bridge during the printing process. The biggest advantage of this technology is super high precision printing with controlled distance to the media and the fact, that printing doesn't have to be interrupted.

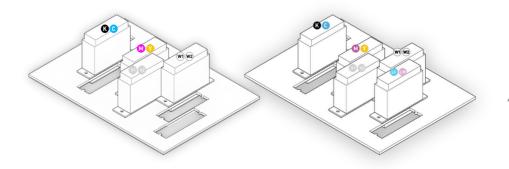
SIGNRACER 2512V

V stands for simultaneous printing of White, Color and Varnish.





SIGNRACER 2512V is a special flatbed printer with triple row configuration and a sophisticated LED especially designed for this application. This printer can print and cure white, colour and varnish in one production process. The special LED uses a low intensity curing module for the delayed curing of the varnish. This allows finer control over the varnish curing process, and it results in superior solid and gloss finish.







New special LED module for delayed curing of varnish

SIGNRACER PRECISION MEETS PERFORMANCE

Print textual of print								
Print NeadsImage: space of the	Specifications	SIGNRACER 1610	SIGNRACER 2512	SIGNRACER 2512 HB (3D)	SIGNRACER 2512V	SIGNRACER 3116	SI	
Ricch Gen. 6 [Standard]2-8 [Pint Heads2-8 [Print technology		Multi-drop technology			Multi-drop technology		
Ricch Gen. 5 (Dpt) not2-4 Print Heads2-8 Print Heads-4-5 Print Heads2-8 Print HeadsPrinted1601 + 100 mm2500 + 1250 mm2500 + 1250 mm2500 + 1250 mm3100 + 1600 mmRicch Gen. 5 (Bott)Printegizer top prisHensynem A 4 zenes vacuum table with regideration pinsHensynem A 4 zenes vacuum table with regideration pinsHensynem A 4 zenes vacuum table with regideration pinsRicch Gen. 5 (Bott)0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/sRicch Gen. 5 (Bott)0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/sRicch Gen. 5 (Bott)0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/sRicch Gen. 5 (Bott)1200 nezzles [7 - 21 p] grayscale1200 nezzles [7 - 21 p] grayscale1200 nezzles [7 - 21 p] grayscale1300 + 3100 + 100 mmRicch Gen. 5 (Bott)1300 + 3100 + 1700 mm1200 + 4700 + 2500 mm1220 + 4670 + 1940 mm1300 + 2500 rezzles [7 - 21 p] grayscale1Bitelight vettilt ve	Print Heads							
Printed Finited Keitergemit Zames vacuum table with registration table with registration table with registration pinsZ500 + 1250 mmZ500 + 1250 mmZ100 + 1500 mmZ100 + 1500 mmCerring Speet Ricch Gen 51Retti Ricch Gen 51Retti Ricch Gen 51Retti Ricch Gen 51Retti Den 24 Marker 19 and 13 m/s1.3 m/s1.3 m/s1.3 m/s1.3 m/s1.3 m/sRicch Gen 51Retti Ricch Gen 51Retti Ricch Gen 51Retti Ricch Gen 51Retti Den 24 Marker 19 - 19 pi grapscale Densetis 71280 nazzles 19 - 19 pi grapscale 1280 nazzles 19 - 19 pi grapscale 1280 nazzles 17 - 21 pi grapscale 	Ricoh Gen. 6 (Standard)	2–8 Print Heads	2–8 Print Heads	2–8 Print Heads	4–5 Print Heads	2–8 Pri	int Heads	
Hatted bit with registration pins Homeyonic backer status with registration pins Homeyonic backer status with registration pins Carriage Speci Riceh Gen, 6 (Linear motor) 1.3 m/s 0.8 m/s	Ricoh Gen. 5 (Optional)	2–4 Print Heads	2–8 Print Heads	-	4–5 Print Heads	2–8 Pri	int Heads	
Note the right registration pinsNote the right registration pinsNote the right registration pinsNote the right registration pinsRicch Cen. 6 (Linaar motir)1.3 m/s1.3	Printbed	1600 × 1000 mm	2500 × 1250 mm	2500 × 1250 mm	2500 × 1250 mm	3100 × 1600 mm	;	
Ricch Gen. 6 Linear motor)1.3 m/s1.3 m/s1.3 m/s1.3 m/s1.3 m/s1.3 m/sRicch Gen. 5 LBettlUB m/s0.8 m/	Flatbed		Honeycomb 4 zones vacuur	n table with registration pins	Honeyco	mb 4 zones vacuum table with registr	ation pins	
Nicoh Gen. 5 (label)0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/s0.8 m/sNozzle Usanity I Pro size1280 nozzles I 5 - 15 pl grayscale1280 nozzles I 5 - 15 pl grayscale1380 nozzles	Carriage Speed							
Nozzie Quantiy I Drop size Rich Gen A / 24 KHz1280 nozzies I > 15 gl grayscale1280 nozzies I > 17 z1 gl grayscale1280 nozzies I > 17 z1 gl grayscale1280 nozzies I > 17 z1 gl grayscale1380 hg1380 hg <td>Ricoh Gen. 6 (Linear motor)</td> <td>1.3 m/s</td> <td>1.3 m/s</td> <td>1.3 m/s</td> <td>1.3 m/s</td> <td>1.3 m/s</td> <td></td>	Ricoh Gen. 6 (Linear motor)	1.3 m/s	1.3 m/s	1.3 m/s	1.3 m/s	1.3 m/s		
Ricoh Gen, 6/ 40 KHz Ricoh Gen, 5/ 20 KHz 1280 nozzles [5 - 15 pl grayscale1280 nozzles [5 - 15 pl grayscale1380 sp g	Ricoh Gen. 5 (Belt)	0.8 m/s	0.8 m/s	0.8 m/s	0.8 m/s	0.8 m/s		
Rich Gen 5/ 20 KHz Dimensions [heighty-scale]1280 nozzles [7 - 21 pl grayscale-1280 nozzles [7 - 21 pl grayscale-1300 × 3100 × 1700 mm1300 × 3100 × 1700 mm1300 × 470 × 1960 mm1320 × 4670 × 1960 mm1320 × 4670 × 1960 mm1350 × 5230 × 2220 mm131990 × 3100 × 3100 × 1700 mm760 kg1380 kg1450 kg1380 kg1610 kg1610 kgEnergy Consumption4 kW6 kW6 kW6 kW6 kW6 kW6 kW6 kWMedia / Curing1400 mm / 1600 mm2540 mm / 2500 mm2540 mm / 2500 mm2540 mm / 2500 mm3150 mm / 3100 mm3Media / Kut	Nozzle Quantity I Drop size							
Dimensions (height with dr. edgm) "without PC 200 $1320 \times 4670 \times 1960$ mm $1400 \times 4700 \times 2500$ mm $1320 \times 4670 \times 1960$ mm $1330 \times 5220 \times 2220$ mm $1330 \times 520 \times 220$ mm	Ricoh Gen.6 / 40 KHz	1280 nozzles 5 - 15 pl grayscale	1280 nozzles 5 - 15 pl grayscale	1280 nozzles 5 - 15 pl grayscale		1280 nozzles 5 - 15 pl grayscale		
Instruction of the state of	Ricoh Gen.5 / 20 KHz	1280 nozzles 7 - 21 pl grayscale	1280 nozzles 7 - 21 pl grayscale	-		1280 nozzles 7 - 21 pl grayscale		
Weight 760 kg 1380 kg 1450 kg 1380 kg 1610 kg Energy Consumption 4 kW 6 kW	(height × width × depth)	1300 × 3100 × 1700 mm	1320 × 4670 × 1960 mm	1400 × 4700 × 2500 mm	1320 × 4670 × 1960 mm	1350 × 5230 × 2220 mm	135	
Media / CuringMedia / S40 mm / 2500 mm2540 mm / 2500 mm2540 mm / 2500 mm3150 mm / 3100 mm3150 mm / 3100 mm3Media Width / Max. Print Width1640 mm / 1600 mm2540 mm / 2500 mm2540 mm / 2500 mm2540 mm / 2500 mm3150 mm / 3100 mm3Media TypeRigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6, Glass)Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Rigid and flexible IPVC Boards, Aludibond, PS, PP, Acrylat, PET-6,Maximum 100 mmMaximum 100 mm/ Mat		760 kg	1380 kg	1450 kg	1380 kg	1610 kg		
Max. Media Width / Max. Print Width 1640 mm / 1600 mm 2540 mm / 2500 mm 2540 mm / 2500 mm 2540 mm / 2500 mm 3150 mm / 3100 mm 3 Media Type Rigid and flexible / VCE Boards, Aludibond, PS, PP, AcryL, PET-G, Glass Rigid and flexible / VCE Boards, Aludibond, PS, PP, AcryL, PET-G, Glass Rigid and flexible / VCE Boards, Aludibond, PS, PP, AcryL, PET-G, Glass Maximum 100 mm	Energy Consumption	4 kW	6 kW	6 kW	· · · · · · · · · · · · · · · · · · ·	6 kW		
Media TypeRigid and flex/JE/VE Boards, Aludibond, PS, PP, Ac/JE, VET-G, GlassRigid and flex/JE/VE Boards, Aludibond, PS, PP, Ac/JE/VE/Te/TE/TE/TE/TE/TE/TE/TE/TE/TE/TE/TE/TE/TE/	Media / Curing							
Media Thickness Maximum 100 mm Maximum 100 mm Maximum 500 mm Maximum 100 mm LED UV curing with variable power levets Composition of the	Max. Media Width / Max. Print Width	1640 mm / 1600 mm	2540 mm / 2500 mm	2540 mm / 2500 mm	2540 mm / 2500 mm	3150 mm / 3100 mm	31	
Media Curing System LEU UV curing with variable power level State State <th< td=""><td>Media Type</td><td>Rigid and flexible</td><td>e (PVC Boards, Aludibond, PS, PP, Acry</td><td>lat, PET-G, Glass)</td><td>Rigid and flexible</td><td>(PVC Boards, Aludibond, PS, PP, Acry</td><td>/lat, PET-G, G</td></th<>	Media Type	Rigid and flexible	e (PVC Boards, Aludibond, PS, PP, Acry	lat, PET-G, Glass)	Rigid and flexible	(PVC Boards, Aludibond, PS, PP, Acry	/lat, PET-G, G	
Media Curing System IDENDETIDUAL Curing with variable power level IDENDETIDUAL Curing with variable	Media Thickness	Maximum 100 mm	Maximum 100 mm	Maximum 500 mm				
Double Row180 mm / 14 Watt/cm2180 mm /	Media Curing System	L	ED UV curing with variable power leve	ls				
Triple Row 120 mm Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] 120 mm Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] 21 Printing Speeds Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 Watt/cm ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm Varnish [Low Intensity] Image: Color (14 ma ²) + 30 mm ² /h (30 m ²) + 30 m ² /h (30 m ²)/h (3	Single Row	90 mm / 14 Watt/cm²	90 mm / 1	4 Watt/cm ²		90 mm / 14 Watt/cm²	90	
Iriple Row Single Row / Double Single / Double / Triple Row Single Row / Double Row Single Row / Double Row Single Row </td <td>Double Row</td> <td>180 mm / 14 Watt/cm²</td> <td>180 mm /</td> <td>14 Watt/cm²</td> <td></td> <td>180 mm / 14 Watt/cm²</td> <td>180</td>	Double Row	180 mm / 14 Watt/cm²	180 mm /	14 Watt/cm²		180 mm / 14 Watt/cm²	180	
Ricoh Gen. 6 Single Row / Double Single / Double / Triple Row Single / Double / Triple Row Triple Row Single Row / Double Row Single Row Draft (4 pass, 600x900 dpi) 28 m²/h / 47 m²/h 40 m²/h / 60 m²/h / 84 m²/h 28 m²/h / 49 m²/h / 63 m²/h 33 m²/h 41 m²/h / 69 m²/h 44 m²/h Production (6 pass, 600x900 dpi) 20 m²/h / 40 m²/h / 29 m²/h 30 m²/h / 46 m²/h / 65 m²/h 24 m²/h / 42 m²/h / 56 m²/h 24 m²/h 30 m²/h / 40 m²/h 32 m²/h Quality (9 pass, 600x900 dpi) 15 m²/h / 29 m²/h 22 m²/h / 36 m²/h / 44 m²/h 16 m²/h / 30 m²/h / 40 m²/h 16 m²/h 22 m²/h / 40 m²/h 32 m²/h Production (6 pass, 600x900 dpi) 15 m²/h / 29 m²/h 22 m²/h / 44 m²/h 16 m²/h / 30 m²/h / 40 m²/h 16 m²/h 22 m²/h / 40 m²/h 32 m²/h Production (6 pass, 600x900 dpi) 15 m²/h / 29 m²/h 22 m²/h / 44 m²/h 16 m²/h / 30 m²/h / 40 m²/h 16 m²/h 22 m²/h / 40 m²/h 32 m²/h Production (6 pass, 600x900 dpi) 23 m²/h 29 / 44 m²/h - 21 m²/h 31 m²/h / 50 m²/h 5ingle Production (6 pass, 600x900 dpi) 18 m²/h 21 / 35 m²/h - 14 m²/h	Triple Row		210 mm /	16 Watt/cm²			210	
Draft (4 pass, 600x900 dpi) 28 m²/h / 47 m²/h 40 m²/h / 60 m²/h / 84 m²/h 28 m²/h / 49 m²/h / 63 m²/h 33 m²/h 41 m²/h / 69 m²/h 44 m²/h Production (6 pass, 600x900 dpi) 20 m²/h / 40 m²/h 30 m²/h / 46 m²/h / 65 m²/h 24 m²/h / 42 m²/h / 56 m²/h 24 m²/h 30 m²/h / 40 m²/h 32 m²/h Quality (9 pass, 600x900 dpi) 15 m²/h / 29 m²/h 22 m²/h / 36 m²/h / 44 m²/h 16 m²/h / 30 m²/h / 40 m²/h 16 m²/h 22 m²/h / 40 m²/h 24 m²/h 24 m²/h Ricoh Gen. 5 Single Row Single Row Single Row Single Row Double Row Triple Row Single Row / Double Row Single Row	Printing Speeds							
Production (6 pass, 600x900 dpi) 20 m²/h / 40 m²/h 30 m²/h / 46 m²/h / 65 m²/h 24 m²/h / 42 m²/h / 56 m²/h 24 m²/h 30 m²/h / 51 m²/h 32 m²/h Quality (9 pass, 600x900 dpi) 15 m²/h / 29 m²/h 22 m²/h / 36 m²/h / 44 m²/h 16 m²/h / 30 m²/h / 40 m²/h 16 m²/h 22 m²/h / 40 m²/h 24 m²/h 24 m²/h 24 m²/h 24 m²/h 30 m²/h / 51 m²/h 32 m²/h 24 m²/h 30 m²/h / 50 m²/h 24 m²/h 30 m²/h / 40 m	Ricoh Gen. 6	Single Row / Double	Single / Double / Triple Row	Single / Double / Triple Row	Triple Row	Single Row / Double Row	Single	
Quality (9 pass, 600x900 dpi) 15 m²/h / 29 m²/h 22 m²/h / 36 m²/h / 44 m²/h 16 m²/h / 30 m²/h / 40 m²/h 16 m²/h 22 m²/h / 40 m²/h 24 m²/h Ricoh Gen. 5 Single Row Single Row Single Row Single Row Duality (9 pass, 600x900 dpi) 13 m²/h / 50 m²/h / 40 m²/h 24 m²/h Draft (4 pass, 600x900 dpi) 23 m²/h 29 / 44 m²/h Single Row Duality (9 pass, 600x900 dpi) 31 m²/h / 50 m²/h Single Row	Draft (4 pass, 600x900 dpi)	28 m²/h / 47 m²/h	40 m²/h / 60 m²/h / 84 m²/h	28 m²/h / 49 m²/h / 63 m²/h	33 m²/h	41 m²/h / 69 m²/h	44 m²	
Ricoh Gen. 5 Single Row Single Row Single Row / Double Row Triple Row Single Row / Double Row Single	Production (6 pass, 600x900 dpi)	20 m²/h / 40 m²/h	30 m²/h / 46 m²/h / 65 m²/h	24 m²/h / 42 m²/h / 56 m²/h	24 m²/h	30 m²/h / 51 m²/h	32 m²	
Draft (4 pass, 600x900 dpi) 23 m²/h 29 / 44 m²/h - 21 m²/h 31 m²/h / 50 m²/h Production (6 pass, 600x900 dpi) 18 m²/h 21 / 35 m²/h - 14 m²/h 23 m²/h / 38 m²/h	Quality (9 pass, 600x900 dpi)	15 m²/h / 29 m²/h	22 m²/h / 36 m²/h / 44 m²/h	16 m²/h / 30 m²/h / 40 m²/h	16 m²/h	22 m²/h / 40 m²/h	24 m²	
Production (6 pass, 600x900 dpi) 18 m²/h 21 / 35 m²/h - 14 m²/h 23 m²/h / 38 m²/h	Ricoh Gen. 5	Single Row	Single Row	Single Row / Double Row	Triple Row	Single Row / Double Row	Sing	
	Draft (4 pass, 600x900 dpi)	23 m²/h	29 / 44 m²/h	-	21 m²/h	31 m²/h / 50 m²/h	3	
Quality (9 pass, 600x900 dpi) 14 m²/h 16 / 29 m²/h - 10 m²/h 17 m²/h / 31 m²/h	Production (6 pass, 600x900 dpi)	18 m²/h	21 / 35 m²/h	-	14 m²/h	23 m²/h / 38 m²/h	2	
	Quality (9 pass, 600x900 dpi)	14 m²/h	16 / 29 m²/h	-	10 m²/h	17 m²/h / 31 m²/h	1	
	Certified Ink Series		SR-100 HD, SR-200+, PREMIUMFLEX+	+		SR-100 HD, SR-200+, PREMIUMFLEX	+	

Certified Ink Series	SR-100 HD, SR-200+, PREMIUMFLEX+	SR-100 HD, SR-200+, PREMIUMFLEX+		
Colour Configurations	CMYK + LC + LM + White + Varnish / CMYK + LC + LM + LK + White	CMYK + LC + LM + White + Varnish / CMYK + LC + LM + LK +		
	CMYK + Orange + Violet + Light Black + White	CMYK + Orange + Violet + Light Black + White		
Ink Consumption				
Ricoh Gen.5	10 mV/m²	10 ml/m²		
Ricoh Gen.6	8 ml/m²	8 ml/m²		

Flatbed Specifications





SIGNRACER 3020	Specifications
	Print technology
	Print Heads
	Ricoh Gen. 6 (Standard)
	Ricoh Gen. 5 (Optional)
3050 x 2050 mm	Printbed
	Flatbed
	Carriage Speed
1.3 m/s	Ricoh Gen. 6 (Linear motor)
0.8 m/s	Ricoh Gen. 5 (Belt)
	Nozzle Quantity I Drop size
	Ricoh Gen.6 / 40 KHz
	Ricoh Gen.5 / 20 KHz
	Dimensions
350 × 5230 × 3200 mm	(height × width × depth) *without PC arm
1760 kg	Weight
	Energy Consumption
	Media / Curing
3100 mm / 3050 mm	Max. Media Width / Max. Print Width
G, Glass)	Media Type
	Media Thickness
	Media Curing System
90 mm / 14 Watt/cm²	Single Row
180 mm / 14 Watt/cm²	Double Row
210 mm / 16 Watt/cm²	Triple Row
	Printing Speeds
gle / Double / Triple Row	Ricoh Gen. 6
m²/h / 74 m²/h / 97 m²/h	Draft (4 pass, 600x900 dpi)
m²/h / 55 m²/h / 70 m²/h	Production (6 pass, 600x900 dpi)
m²/h / 43 m²/h / 49 m²/h	Quality (9 pass, 600x900 dpi)
ngle Row / Double Row	Ricoh Gen. 5
31 m²/h / 50 m²/h	Draft (4 pass, 600x900 dpi)
23 m²/h / 38 m²/h	Production (6 pass, 600x900 dpi)
17 m²/h / 31 m²/h	Quality (9 pass, 600x900 dpi)
	Ink Specifications
	Certified Ink Series
Vhite	Colour Configurations
	Ink Consumption
	Ricoh Gen.5
	Ricoh Gen.6
	9

Journey to UV Extended Color Gamut Inkset



Process Colors

SIGNRACER has introduced SR-200+ Magenta-R and Yellow-HD (nickel-free) colors to expand the color gamut beyond the traditional CMYK setup, while addressing future health standards.

Light Colors



The use of Light Cyan, Light Magenta-R, and new Light Black are especially important for industrial production including, fashion and watch making. These light colors contribute to the production of fine gradients, less grainy appearance and excellent shading.



White, Varnish

Based on the strict industrial customer requirements, SIGNRACER developed new White ink formulations without yellowing effects. Such White is a requirement to achieve a extended color gamut. Varnish comes in two variants for rigid and flexible media, which can be applied partially, creating a unique visual and tactile experience.



Special Colors

To further enhance extended color gamut ink set, we introduce Orange and Violet inks. These special colors significantly enhance color reproduction and allow you to create prints with rich, deep tones that faithfully represent the original colors.

GREENGUARD Gold Certification

The GREENGUARD Gold Certification exceeds basic compliance requirements by emphasizing safety considerations to ensure products are suitable for use in sensitive environments such as schools and healthcare facilities. This certification takes into account the well-being of vulnerable groups, including children and the elderly, affirming the product's safety for such settings.

Features and Benefits:

- Low VOC Emissions: Minimizes indoor air pollution.
- Safer Printing Solutions: Ideal for sensitive environments such as schools and healthcare facilities.
- Sustainability: Demonstrates SIGNRACER's commitment to environmental responsibility.
- Compliance with Health Standards: Meets rigorous health-based criteria for safer products.
- Market Differentiation: Offers a competitive advantage by prioritizing safety and sustainability.



• Extended color gamut

SR-200+

SR-100 HD

• Non-sticky finish

PREMIUMFLEX+

- other flexible materials
- Good adhesion on above material
- High density colour
- Best long term flexibility and stretch ability

Ink Type	Colours	Print Head Temp.	Key Features	Adhesion	Application
	СМҮК	38°C	Multi-purpose ink with high	Good	Roll + Some Rigids
SR-100 HD	White	40°C	solvent and scratch resistance.		
~~ ~~~	CMYK, LC, LM, LK, Orange, Violet	42°C	Enhanced performance, superior adhesion, increased flexibility,		Rigid+Roll
SR-200+	White, Varnish	42°C	extended color gamut, non-sticky finish.	Excellent	
PREMIUMFLEX+	CMYK, LC, LM	46°C	Long term flexibility on special materials like leather, fabrics and	Good	Leather
	White, Varnish	46°C	melamine.	0000	Leather

The ink bottles are also used as the printer ink reservoirs. We achieve slow aging of the ink because old inks are never mixed with new inks. This results in a very stable printer and no sediments in the bottles because they are always changed.



- Greenguard Gold Certified
- Low viscosity ink developed for LED
- Good adhesion on roll and rigid material Good flexibility
- High density colours
- Highest solvent and scratch resistance
- Greenquard Gold Certified
- Enhanced performance
- Superior adhesion
- Superior solvent resistance
- Increased flexibility

- Medium viscosity ink developed for LED
- Developed for leather, fake leather and







PRECISION MEETS PERFORMANCE

SIGNRACER

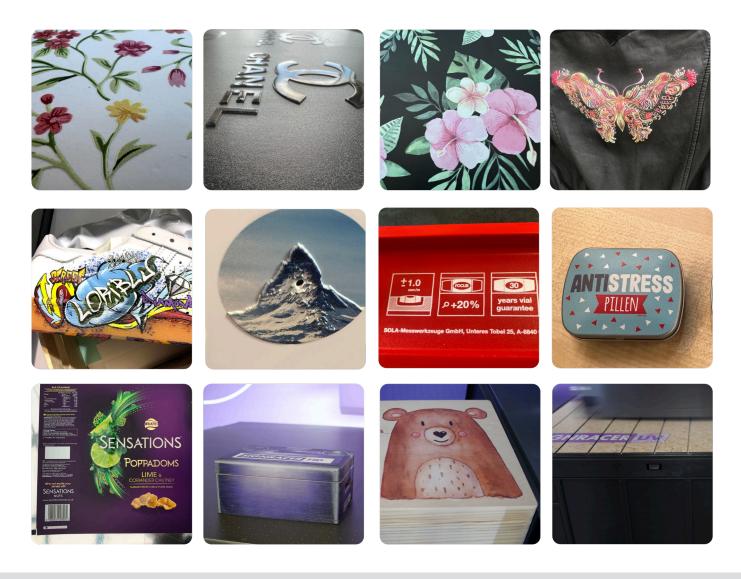
Industrial Applications

SIGNRACER SR-200+ Ink

SIGNRACER SR-200+ ink guarantees superior adhesion to challenging materials such as various metals, including aluminum, stainless steel, and anodized aluminum, crucial for industries like automotive and watchmaking. Such robust adhesion is vital for applications requiring endurance against harsh conditions. Its ability to pass stringent tape tests after extreme climate treatments makes it ideal for durable, high-quality prints on industrial components.

SIGNRACER PremiumFlex+ Ink

SIGNRACER PremiumFlex+ ink is specifically formulated for high flexibility, making it ideal for leather and artificial leather used in shoes, bags, fashion items, and racing suits. This ink ensures long-term flexibility, essential in the fashion footwear and luxury goods sectors. Its durability and high elasticity are key for products that undergo regular use and physical stress, meeting the demanding requirements of the Bally Test for industrial leather standards.



SIGNRACER GmbH Gartenweg 24 CH-6343 Buonas, Switzerland Phone: +41 41 792 01 57 E-mail: info@signracer.ch Website: www.signracer.ch