



COLARIS.COMPARISON CHART



COLARIS³

The high performance Printer for highest speed and special applications



COLARIS.INFINITI

The high Quality Printer at a budget price

COLARIS.MODELS - COMPARISON

	COLARIS.INFINITI	COLARIS ³
Characteristics	Industrial high speed printer with Seiko 1024 print heads	Industrial high speed printer with Fuji Dimatix Starfire print heads
Print width	1800 mm	1800, 2600, 3200 mm (and soon 4200 mm)
Production speed	300 m ² at 360 * 720 dpi; 2 passes	690 m ² at 400 * 800 dpi; 2 passes
Engineering	ZIMMER.AUSTRIA	ZIMMER.AUSTRIA
Manufactured	China	Austria
Certificates	CE, TUV Tested	CE, TUV tested
Print heads	SPT 1024 GS	FD Starfire 1024 S/M/L
Resolution	360 to 1,440 dpi	400 to 1,600 dpi
Repairable print head	No	Yes, nozzle plate and modules can be replaced
Ink circulation system	No	Yes; Starfire RediJet Technology
Grayscale printing	Yes, 4 levels	Yes; 4 level Starfire VersaDrop technology
Ink de-gassing	Yes	Yes
Drop size	7-14-21 pl	S-type: 10-20-30 pl M-type: 30-60-90 pl L-type: 80-160-240 pl
Number of printheads per colour	2 or 4	4 colors: 4, 6, 8, 12, 16 5-8 (12) colors: 4, 6, 8 (8)
Max. number of printheads	32	64 - (96)
Number of colours	4 or 8	4 / 6 / 8 / (12 - available mid 2016)
Dye and ink systems	<ul style="list-style-type: none"> • Dystar Reactive for cellulose and cotton • Dystar Acid ink for polyamide, wool and silk • Dystar Disperse for polyester 	<ul style="list-style-type: none"> • Acid • Disperse • Direct sublimation • Reactive • Pigment • VAT
Ink tank capacity	10 liter	10 or 25 liter
Printhead operating temperature	Cooling to 20°C	Heating to 30°C - reduces need for air-conditioning
Print head maintenance	Auto-cap; auto-purge; ink-collection	Auto-cap; auto-purge at minimum ink waste
Operating conditions	20-28°C / 55 %-75 % humidity	15° - 28°C / 40 - 80 % humidity
Expected lifetime of printheads	>2 years using certified inks	>4 years using certified inks

COLARIS INFINITI vs COLARIS³ COMPARISON CHART (ENG)

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Machine Characteristics		
Drive system	Panasonic	Lenze Drive
Head drive	Heavy duty tooth belt	Linear drive
Control system	With USB 3.0 data transfer	Zimmer high performance control with 10 Gbit Ethernet data transfer
Fabric gluing system	Permanent glue for woven and knitted fabric	<ul style="list-style-type: none"> • Permanent glue • Thermoplast glue with Infrared activation • Wet glue for linting products
Moving press roller to avoid stop marks	Yes	Yes
Belt washing device	1 brush; 2 squeegees	2 brushes; 3 squeegees
Optional belt dryer	No	Available optionally
Fabric supervision to avoid head crashes	Yes	Yes
Additional line components		
Entry	<ul style="list-style-type: none"> • Small batch unwinding • A-frame unwinding • Centre guiding with synchronisation 	Various entry configurations are possible - depending on product and application
In-Line Pre Coat	No	CHROMOJET digital or MAGNOROLL pre-coat applicator could be integrated for terry towel, furnishing, carpet and other pile products where full penetration is needed
Dryer	<ul style="list-style-type: none"> • Infrared electric dryer • 1 Chamber dryer with 3 passes • Plaiter or roll-up at exit • Steam, gas or thermo-oil heating • Dryer can also be provided by customer 	<p>The dryer is built according to the application</p> <p>For acid and disperse printing on heavy products it is also possible to have a steamer - washer and dryer behind the printer for inline fixation washing and drying</p>
Process technology		
Post print process	Off-line process on all fabrics required	In-line processing available incl. steaming-washing-drying-finishing, depending on products

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Applications		
Woven and knitted products	up to 300 g/m ²	up to 1,200 g/m ²
Carpet printing on Polyamide and Polyester carpets	No	Yes, in combination with CHROMOJET digital in-line pre-treatment and SUPRAPRESS penetration system <ul style="list-style-type: none"> • Needlefelt • Flocked floor coverings • Flat weave constructions • Loop and cut pile up to 1,200 g/m² mats; promotion, Event and exhibition carpets, carpet tiles
Terry towel printing	No	Yes, in combination with CHROMOJET digital in-line pre-treatment and with terry towel alignment system and design centring system
High pile products like upholstery, plush, velour, velvet, Polar fleece blankets	No	Yes, in combination with in-line pre-treatment and with SUPRAPRESS penetration system
Special applications	No	Yes, can be developed in cooperation with ZIMMER.AUSTRIA
Software		
RIP	Onyx®; Photoprint®; Inedit®	Inedit®, Caldera® and many others
Operating system	Windows 8® and higher	Windows 8® and higher
Data handling		The design is loaded stroke by stroke to the print engine
Advantages / Disadvantages		
Resume	Industrial printer with excellent value for the money	Industrial high speed printer with latest Starfire print head technology for sophisticated applications beyond normal digital textile printing