

Digital Printing Solutions



DESIGNED FOR PRECISION AND RELIABILITY



Patalganga Factory



Mumbai Head Office

INTRODUCTION

JAYSYNTH Orgochem, founded in 1973, is a leading manufacturer and exporter of textile dyestuffs and auxiliaries, digital textile printing inks, pigments, and pigment dispersions. With over 50 years of experience, the company is committed to innovation and excellence and has pioneered the development and manufacture of reactive dyes, disperse dyes and digital inks for textiles.

The company's digital textile inks range includes Reactive, Pigment, Disperse, Sublimation, and Acid inks, designed for industries like fashion, home textiles, and carpets. Each batch undergoes stringent testing for jetting speed, temperature stability, printability, and color consistency.

Jaysynth also introduced **DigiChrome**, a line of high-performance digital textile printing machines. When paired with **DiGiTEX** inks, these machines produce vibrant, high-density colors with excellent fastness properties. Our printers well known for their precision, reliability and productivity.

Jaysynth's **All-in-One Digital Pigment Printing System** eliminates pre-coating and washing for digital pigment printing thereby reducing environmental impact with zero liquid discharge.

Certified by **GOTS**, **OEKO-Tex**, **Eco Passport**, and compliant with **REACH**, Jaysynth's products meet the highest environmental and safety standards, reinforcing its commitment to quality and sustainability.

Jaysynth remains dedicated to delivering innovative solutions and exceptional customer service, continuously adapting to the evolving needs of the textile industry.





- 64 dual channel Ricoh Gen6 printheads
- Production speed of 1080 sqm/hr (2pass High Quality)

DCR 6419-16R

Features

- 1.8m width fabric in 2 pass
- Printing width : available in 1.9m fabric width
- 3 level fabric fold detection system with 3 laser sensors
- Automatic fabric centering system for feeding loose fabric from trolley or A-frame batch
- Smooth and precise carriage movement with magnetic linear motor drive
- In-line ink degassing and negative pressure control system for enhanced ink runnability
- Chiller system to maintain ink temperature
- Automatic belt cleaning system for continuous production and improved belt adhesive life
- Air flowing wiper after washing unit
- Synchronized with infra red, electric, oil or steam heated dryer
- Computer can be connected with USB 3.0 cable
- **Print with Reactive, Disperse, Acid and Pigment inks**



- 32 or 48 Ricoh dual channel Gen6 printheads
- Production speed of 500 sqm/hr (1.8m media width, 2 pass 8 color)

DCR 3219-8R (8 color) or DCR 4819-8R (12 color)

Features

- Printing width : available in 1.9m, 2.6m and 3.2m fabric width
- 3 level fabric fold detection system with 3 laser sensors
- Automatic fabric centering system for feeding loose fabric from trolley or A-frame batch
- Smooth and precise carriage movement with magnetic linear motor drive
- In-line ink degassing and negative pressure control system for enhanced ink runnability
- Automatic belt cleaning system for continuous production and improved belt adhesive life
- Easy to synchronized with infra red, electric, oil or steam heated dryer
- Computer can be connected with USB 3.0 cable
- **Print with Reactive, Disperse, Acid and Pigment inks**

Model		DCR 0419 - 1R	DCR 0819 - 2R	DCR 1619 - 4R	DCR 3219 - 8R	DCR 6419 - 16R
Printheads		4	8	16	32	64
Print width		1.9m	1.9m	1.9m	1.9m	1.9m
Print speed with media width (1.8m)	2 Pass	75 sqm/hr	152 sqm/hr	272 sqm/hr	500 sqm/h	1080 sqm/h
	3 Pass	50 sqm/hr	100 sqm/hr	182 sqm/hr	345 sqm/h	745 sqm/h

Medium Speed Large Format Inkjet Printer



- 24 Ricoh dual channel Gen6 printheads
- Production speed of 386 sqm/hr (1.8m media width, 2 pass 8 color)



DCR 2419-6R (8 color) or DCR 2419-4R (12 color)

Features

- Printing width : available in 1.9m, 2.6m and 3.2m fabric width
- 3 level fabric fold detection system with 3 laser sensors
- Smooth and precise carriage movement with magnetic linear motor drive
- In-line ink degassing and negative pressure control system for enhanced ink runnability
- Automatic belt cleaning system for continuous production and improved belt adhesive life
- Active take-up system to ensure stable stretchability of fabric
- Synchronized with infra red, electric, oil or steam heated dryer
- Computer can be connected with USB 3.0 cable
- **Print with Reactive, Disperse, Acid and Pigment inks**

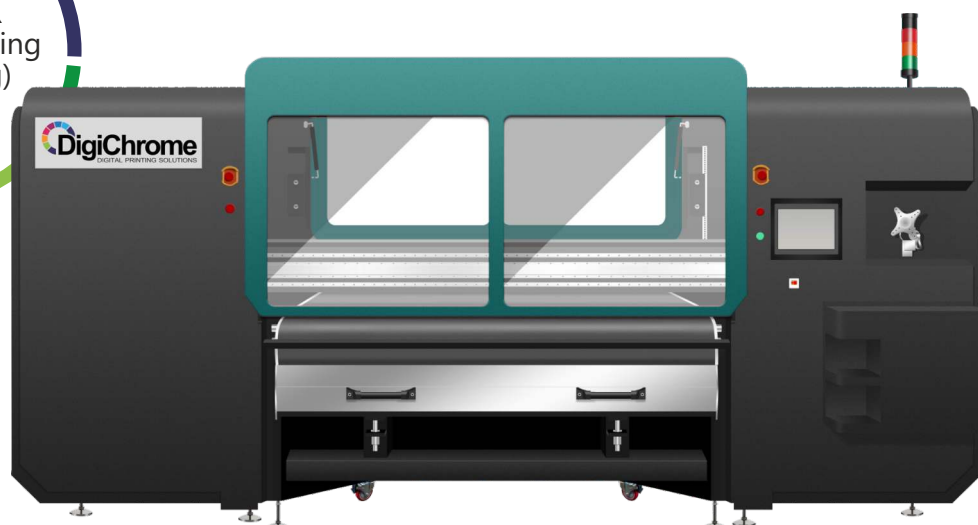
- 8 dual channel Ricoh Gen6 printheads
- Production of 152 sqm/hr (1.8m media width, 2 pass)



DCR 0819-2R (8 color) or DCR 1219-2R (12 color)

Features

- Printing width : available in 1.9m, 2.6m and 3.2m fabric width
- 3 level fabric fold detection system with 3 laser sensors
- Smooth and precise carriage movement with magnetic linear motor drive
- In-line ink degassing and negative pressure control system for enhanced ink runnability
- Automatic belt cleaning system for continuous production and improved belt adhesive life
- Active take-up system to ensure stable stretchability of fabric
- Synchronized with infra red, electric, oil or steam heated dryer
- Computer can be connected with USB 3.0 cable
- Optimal unitary fabric dryer for 4 heads model
- **Print with Reactive, Disperse, Acid and Pigment inks**



- 32 dual Spectra Starfire SG1024 printheads
- Production of 251 sqm/hr (1.8m media width, 2 pass) - DCS 3219
323 sqm/hr (3.2m media width, 2 pass) - DCS 3232
- Ink re-circulation system
- Suitable for applications that require large ink volume such as dhurries, bathmats, carpet upto 5mm pile

DCS 3219-4R / 3232-4R

Features

- Printing width : available in 1.9m, 2.6m and 3.2m printing width
- 8 color printing
- Magnetic suspension linear motor for higher printing accuracy
- Negative pressure ink control system and ink degassing system enhance the stability
- Advanced belt automatic cleaning system to ensure continuous production and improve belt adhesive life
- Active take-up/ unwinding system to ensure stable stretchability of media
- Full featured fabric feeding system with fabric press roller
- USB - C connection with computer
- **Print with Reactive, Disperse, Acid and Pigment ink**

Model		DCS 1619 - 2R		DCS 3219-4R		DCS 3232-4R	
Printing width		1.9m		1.9m		3.2m	
Media width		1.8m		1.8m		3.2m	
Print speed	Media width	sqm/hr (1.8m)	lm/hr (1.1m)	sqm/hr (1.8m)	lm/hr (1.1m)	sqm/hr (3.2m)	lm/hr (1.1m)
	2 Pass	140	89	251	195	323	195
	3 Pass	105	66	178	143	218	143

- 24 Epson i3200 printheads
- Production speed of 770 sqm/hr (1pass High Quality)

DCTE1-2422

Features

- 2.0m printing width
- Inbuilt dual heater dryer
- High precision carriage base plate ; easy head position adjustments
- Embedded magnetic clutch ensures media take-up tension is constant for guaranteed stability and print quality
- Integrated head cleaning and moisture capping module
- Fully sealed auto moisturizing and cleaning
- Super High Density Sublimation ink from Jaysynth for brightest prints and lower GSM paper



- 8 / 16 Epson i3200 printheads
- Production speed of 590 sqm/hr (1 pass) - DCTE2-1916
280 sqm/hr (1 pass) - DCTE2-1808

DCTE2-1916/1808

Features

- 1.9m printing width
- Inbuilt front and bottom dryer
- High precision carriage base plate ; easy head position adjustments
- Embedded magnetic clutch ensure the media take-up tension is constant for guaranteed stability and print quality.
- Integrated head cleaning and moisture capping module
- Fully sealed auto moisturizing and cleaning
- Super high density sublimation ink from Jaysynth for brightest prints on lower GSM paper




DIGITEX- R 500

R 500 is high viscosity, premium quality HD reactive inks for roll to roll printing on Natural and Regenerated Man-made fabric in fashion and home furnishing

	R-511	Cyan
	R-511	Sky Blue (Lc)
	R-511	Strong Cyan
	R-511	Magenta
	R-511	Pink (Lm)
	R-511	Yellow
	R-512	Special Black
	R-513	Deep Black
	R-511	Orange
	R-511	Red
	R-511	Blue
	R-511	Grey

DiGiTEX- R 600

R 600 is high viscosity Reactive ink, having self penetrating property, specially developed for Natural and Regenerated Manmade Fabric (Terry towel, Durries, Rugs & Coir/Jute mats)

	R-604	Cyan
	R-604	Strong Magenta
	R-604	Yellow
	R-604	Special Black

Cotton- Linen & Modal, Tencel Viscose Rayon and Bamboo Rayon

Fastness										
DiGiTEX R	Light ISO 105/B02	Chlorinated Water ISO 105 E01			Perspiration Alkaline ISO 105 E04			Washing ISO 105 C02 at 50°C		
		CH	CO	WO	CH	CO	WO	CH	CO	WO
Cyan	5 - 6	4 - 5	5	5	4 - 5	4	4 - 5	4 - 5	4 - 5	5
Light Cyan	4	4 - 5	5	5	4 - 5	4	4 - 5	4 - 5	4 - 5	5
Strong Cyan	5 - 6	4 - 5	5	5	4 - 5	4	4 - 5	4 - 5	4 - 5	5
Magenta	6	4 - 5	5	5	4 - 5	4 - 5	5	4	5	5
Light Magenta	4	4 - 5	5	5	4 - 5	4 - 5	5	4	5	5
Yellow	6	4 - 5	5	5	5	5	5	5	5	5
Special Black	4	4 - 5	5	5	4 - 5	4 - 5	5	4	4 - 5	5
Deep Black	3 - 4	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4	4 - 5	4 - 5
Orange	4	4 - 5	4 - 5	5	4 - 5	4	5	4	5	5
Blue	5 - 6	4 - 5	4 - 5	4 - 5	4 - 5	4	4 - 5	4	4 - 5	5
Red	4	4 - 5	5	5	4 - 5	5	5	4	5	5
Grey	4	4 - 5	5	5	4 - 5	4 - 5	5	4	4 - 5	5











Pre-treatment:

DiGiPrint R 101 PT	
Ingredient	% ingr.(Real)
Jayprint MIP	4
Sodium Bicarbonate	3
Soda Ash	1
Urea	10
Sodium Alginate	2
Thickner HRT	1
Resist salt	0.5
Water	78.5
Total	100

DiGiPrint R 102 PT	
Ingredient	% ingr.(Real)
Jayprint DP	2.1
Sodium Bicarbonate	3
Urea	10
Water	84.9
Total	100







DIGITEX- DD 500

DD 500 is high viscosity premium quality high color density disperse inks for roll to roll printing on Polyester fabric

	D-553	Cyan
	D-553	Magenta
	D-553	Yellow
	D-553	Strong Black
	D-553	Orange
	D-553	Blue
	D-553	Red
	D-553	Grey
	D-553	Sky Blue (Lc)
	D-553	Pink (Lm)

DiGiTEX- DD 555

DD 555 is high viscosity self-penetrating Disperse Direct ink, specially designed for Polyester Carpets (non-woven, Tufted and Woven)

	D-555	Cyan
	D-555	Magenta
	D-555	Yellow
	D-555	Strong Black
	D-555	Fluorescent Yellow
	D-555	Fluorescent Magenta

DiGiTEX DD - Polyester






Fastness							
DiGiTEX DD	Light ISO 105/B 02	Chlorinated Water ISO 105 E01			Perspiration Alkaline ISO 105 E04		
		CH	CO	WO	CH	CO	WO
Cyan	6	4 - 5	5	5	4 - 5	4	4 - 5
Magenta	6	4 - 5	5	5	4 - 5	4 - 5	5
Yellow	5 - 6	4 - 5	5	5	5	5	5
Strong Black	4	4 - 5	5	5	4 - 5	4 - 5	5
Orange	4	4 - 5	4 - 5	5	4 - 5	4	5
Blue	6	4 - 5	4 - 5	4 - 5	4 - 5	4	4 - 5
Red	6	4 - 5	5	5	4 - 5	5	5
Grey	4	4 - 5	5	5	4 - 5	4 - 5	5
Light Cyan	6	4 - 5	5	5	4 - 5	4	4 - 5
Light Magenta	6	4 - 5	5	5	4 - 5	4 - 5	5

Pre-treatment:

DiGiPrint D 102 PT	
Ingredient	% ingr.(Real)
Jayprint DP	1.9
Citric Acid	0.5
Jayprint Jet 19	1.3
Resist Salt	1
Water	95.3
Total	100

DIGITEX- P 600

P 600 is high viscosity premium quality pigment inks for roll to roll printing on Natural, Regenerated Man-made, Synthetic and Blended fabric.

	P-615	Cyan
	P-615	Sky Blue (Lc)
	P-615	Magenta
	P-615	Pink (Lm)
	P-615	Yellow
	P-615	Strong Black
	P-615	Orange
	P-615	Red
	P-615	Blue
	P-615	Green
	P-615	White

DiGi Print Pigment Pre-treatments







P-103	DTG Pre-treatment for Light Garments
P-108	DTG Pre-treatment for Dark Garments
P-120	Pre-treatment for Polyester and Blends
P-123	Pre-treatment for Cotton and Blends
P-127	Jet-able Pre-treatment for Ricoh Gen6 and starfire printhead



1, 5, 10, 35 & 200 Kgs







DIGITEX- T 200

T 200 is low viscosity, high density Sublimation ink formulated with low energy Disperse dyes for roll to roll printing on Transfer fabric

	T-226	Cyan
	T-226	Magenta
	T-226	Yellow
	T-226	Strong Black
	T-226	Fluorescent Yellow
	T-226	Fluorescent Magenta

DiGiTEX- T 600

T 600 is high viscosity, Sublimation ink formulated with low energy Disperse dyes for roll to roll printing on Polyester Carpets (non-woven, Tufted and Woven)

	T-602	Cyan
	T-602	Magenta
	T-602	Yellow
	T-604	Strong Black
	T-602	Fluorescent Yellow
	T-602	Fluorescent Magenta

Color Fastness	Rubbing		Chlorinated	Light
	Dry	Wet		
Cyan	4-5	4-5	4-5	5-6
Magenta	4	4	4-5	5-6
Yellow	4-5	4-5	4-5	6
Black	4-5	4-5	4-5	5

Color Fastness	Cyan			Magenta		
	Wash	Perspiration Acid/ Alkali	Sea Water	Wash	Perspiration Acid/ Alkali	Sea Water
Change in shade on fabric	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5
Change in shade on multifibre						
Acetate	4-5	4-5/4-5	4-5	4	4-5/4-5	4-5
Cotton	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5
Nylon	4-5	4-5/4-5	4-5	4	4/4	4-5
Polyester	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5
Acrylic	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5

Color Fastness	Yellow			Black		
	Wash	Perspiration Acid/ Alkali	Sea Water	Wash	Perspiration Acid/ Alkali	Sea Water
Change in shade on fabric	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5
Change in shade on multifibre						
Acetate	4-5	4-5/4-5	4-5	4	4/4	4
Cotton	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5
Nylon	4-5	4-5/4-5	4-5	4	4/4	4
Polyester	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5
Acrylic	4-5	4-5/4-5	4-5	4-5	4-5/4-5	4-5



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