PRINTEX
Towards Innovation

evolve

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- The elevator to success is out of order. You'll have to use the stairs . . . one step at a time. ~ Joe Girard

- People were created to be loved. Things were created to be used. The reason the world is in chaos, is because things are being loved, and people are being used. ~ unknown

CONTENTMENT IS NATURAL WEALTH, LUXURY IS ARTIFICIAL POVERTY.
~ Socrates

A PROBLEM IS A CHANCE FOR YOU TO DO YOUR BEST. ~ DUKE ELLINGTON

NEW MODEL

YOU

M and XL sizes

max. production up to 1050 pieces/h.

max. printing area 500x700mm

LCD touch screen 7″ (*) ou 10″ (**)

NEXT

XL sizes

max. production up to 1200 pieces/h.

max. printing area 500x700mm

LCD touch screen 10″

ECO

L, XL, XL+, 2XL and 3XL sizes

max. production up to 1300 pieces/h.

max. printing area 600x800mm

LCD touch screen 15″

* Only in the P08M P10M P12XL P14XL

** Only in the P16XL P18XL P20XL P22XL

YOU vs NEXT vs ECO

COMPARATIVE TABLE

FEATURES	YOU	NEXT (NEW)	ECO
Aluminum honeycomb pallets	✓	✓	✓
Squeegees with electric movement with AC variator	✓	✓	✓
Independent control panel on all print heads	✓	✓	✓
Flock and Foil	✓	✓	✓
Vernier registration	✓	✓	✓
Heads central lifting	✓	–	–
Heads individual lifting	–	✓	✓
Flock and Foil bellow the head	–	✓	✓
Servo AC driven rotation system	–	✓	✓
Go To Position	–	✓	✓
Continuous double index	–	✓	✓
Manual printhead lifting for cleaning	✓	✓	–
Automatic printhead lifting for cleaning	–	–	✓
Digital keyboard	–	–	✓
Digital Registration	–	–	✓
Number of strokes and coatings; selectable on the head panel	–	–	✓
Fly mode (optimized software for double rack)	–	–	OPTIONAL
Motorized Frames Supports	–	–	OPTIONAL
Automatic Lubrification	–	–	✓

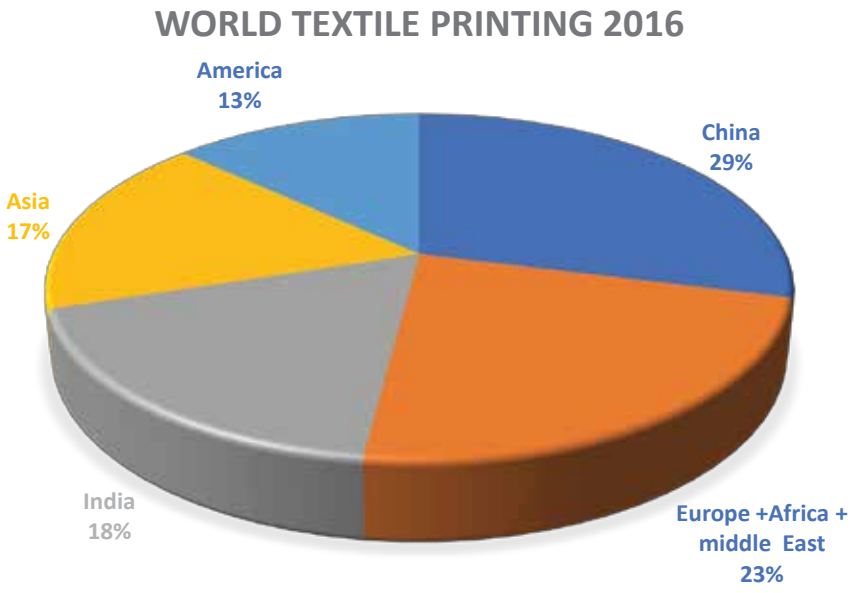
CRESA
Textile Chemicals

TEXTILE PRINTING: A DIGITAL WORLD

SOLUTIONS FOR DIGITAL TEXTILE PINTING PROCESSES

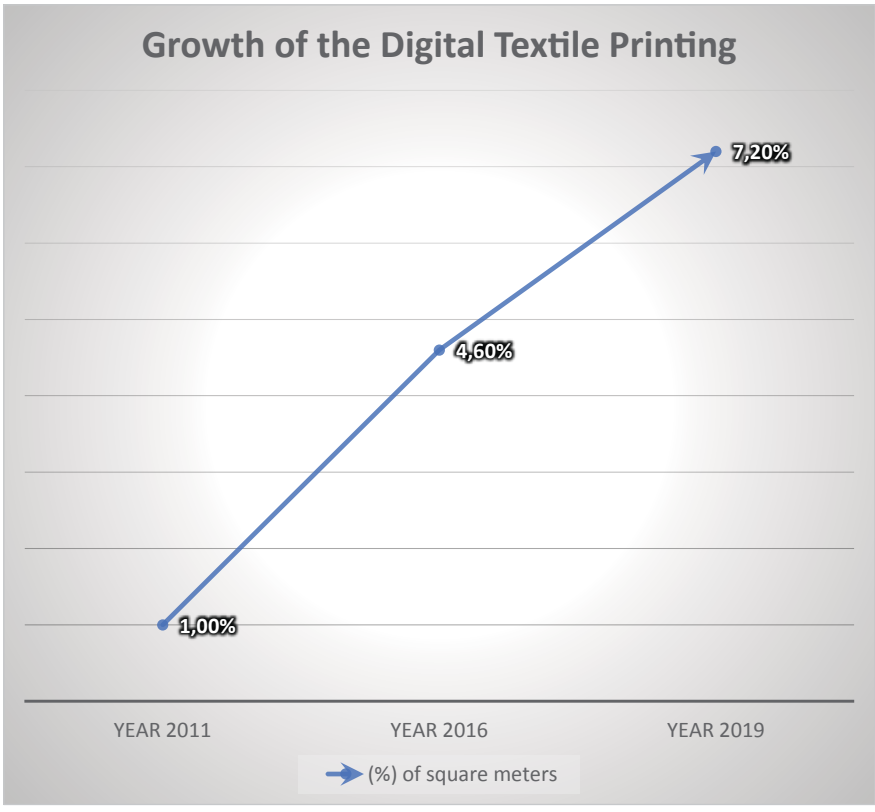
TEXTILE PRINTING – GENERAL INFORMATION

- World Textile Printing has added 33.000 millions of square meters in 2016
- An annual growth of 2.5% is expected, adding 825 million of square meters more in 2017
- A sight the world distribution it's showed and represented in the attached graphic.



GROWTH OF THE DIGITAL TEXTILE PRINTING

- The Digital textile printing had its origins in the early years of the 21st century
- In 2011 it represented only 1% of the total textile printing
- In 2016 it reached the 4,6%
- In 2019 It's expected to be able representing a 7.2%



Conventional vs Digital Printing

CONVENTIONAL PRINTING

- Separation of designs in basic colors
- Color limitation
- Recording cylinders/screens (1 per color)
- Big size printing machines
- High cost of sampling
- Kitchen of colors and thickeners
- Need for great productions
- High stock of products, screens/cylinders
- Cylinders/screens washing machine

DIGITAL PRINTING

- Digital files.
- From Computer to plotter, with a specialized software (RIP)
- No color limitation
- Change of design without loss of material or time
- Quick and easy preparation of samples
- Little workforce
- Saving 30% of energy and 95% of water consumption
- **Cleaner, more agile, less stock and lower energy cost**

CLASSIFICATION OF INKS BY APPLICATION

INK TYPES vs APPLICATION			
SOLVENT / ECO SOLVENT	UV	LATEX	**WATER BASE**
Signage, lettering, advertising…			**Textile**

WATER BASE INKS		
SOLUBILITY	**INK**	**FIBER (APPLICATION)**
SOLUBLE	REACTIVE	cellulosic, silk, wool (fashion, haute couture)
	ACID	Polyamide, silk, wool (swimsuit, corsetry. Haute couture)
INSOLUBLE	DISPERSE	Polyester (flags, presential marketing, sport clothes)
	PIGMENT	Fiber blends (Home Textile, fashion)

DIGITAL PRINTING PROCESSES

PROCESS STEP	REACTIVE	ACID	DISPERSE DIRECT	DISP. SUBLIMATION	PIGMENT
Desizing	YES	--	--	--	YES
Optical bleaching	YES	YES	YES	YES	YES
PPED	YES	YES	YES	--	YES
Direct Digital Printing	YES	YES	YES	--	YES
Indirect Digital Printing	--	--	--	YES	--
Steaming ST	YES	YES	--	--	--
Steaming HT - Thermosol	--	--	YES	--	YES
Calendering	--	--	--	YES	--
Washing	YES	YES	YES	--	--
Fixing	YES	YES	--	--	--
Finishing Rame	YES	YES	YES	--	YES

NOTE: *All fabrics required must be Pre-fixed before printing*

PPED: *Digital Printing Pre-Treatman (Fabric)*

Steaming ST: *Steaming with saturated steam*

Steaming HT: *High temperature steaming*

- Continuous innovation as a driving force to offer the best solution to each of our customer's needs. **45 years of experience** in pigment dispersion, chemical specialties and dyes for the textile industry.
- Currently we can offer the full range of products needed for Pre-treatment of fabrics and their finish, as well as inks for digital printing with pigments.

PRE-TREATMENTS FOR DIGITAL TEXTILE PRINTING

PRE-TREATMENT FOR DIGITAL PRINTING WITH REACTIVE INKS

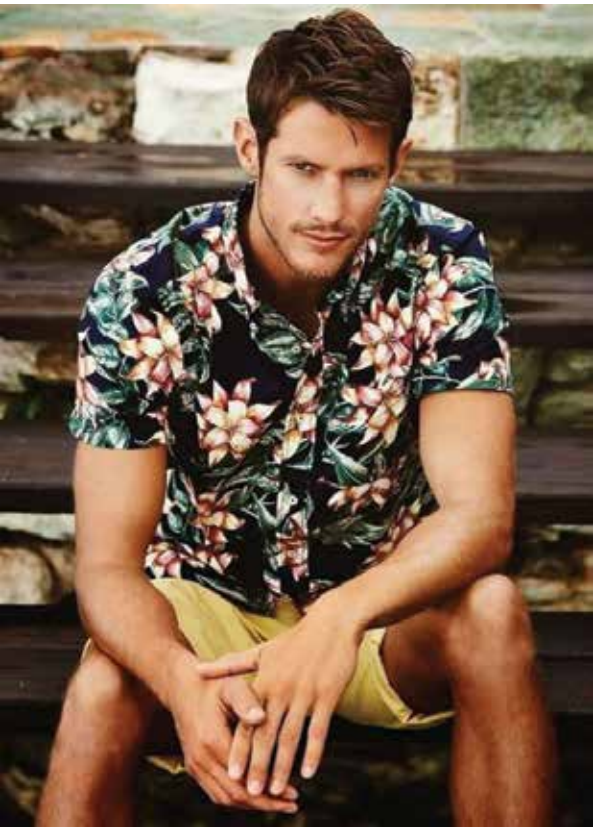
• CRESA INK-JET R

Suitable for COTTON and VISCOSE fabrics

RECIPE	Cotton	Viscose
WATER (g/l)	Rest	Rest
CRESA INK-JET R (g/l)	100 – 160	100 – 200
Sodium Carbonate (g/l)	20	20
Urea Technique (g/l)	80	200
DEOXIN LAP (g/l)	25	25

- PICK-UP = 70% - 85%
- Drying a maximum Temperature of 120 ºC
- Steaming 10 – 15 min at 102 ºC wiyh ST steam
- Washing and fixing

PRE-TREATMENT FOR DIGITAL PRINTING WITH REACTIVE INKS



• CRESA INK-JET RVE

Suitable for VISCOSE fabrics

RECIPE	Viscose
WATER (g/l)	Rest
CRESA INK-JET RVE (g/l)	85
Sodium Carbonat (g/l)	25
Urea Technique (g/l)	150
DEOXIN LAP (g/l)	25
ANTIESPUMANTE JET-100 (g/l)	5

- PICK-UP = 70% - 85%
- Drying a maximum Temperature of 120 ºC
- Steaming 10 – 15 min at 102 ºC with ST steam
- Washing and fixing

PRE-TREATMENT FOR DIGITAL PRINTING WITH REACTIVE INKS

CRESA INK-JET S/R

Suitable for SILK fabrics or VISCOSE fabrics lower than <50 g/m2 of weight

RECIPE	Silk
CRESA INK-JET S/R (%)	100

SHAKE BEFORE USING

- PICK-UP = 70% - 85%
- Drying a maximum Temperature of 110 ºC
- Steaming 10 – 15 min at 102 ºC with ST steam
- Washing and fixing

PRE-TREATMENT FOR DIGITAL PRINTING WITH ACID INKS

• CRESA INK-JET A

Suitable for POLYAMIDE, SILK and WOOL fabrics

RECIPE	Polyamide
WATER (g/l)	Rest
CRESA INK-JET A (g/l)	35 - 50
Ammonium Sulfate (g/l)	50
Urea Technique (g/l)	50

- PICK-UP = 80% – 100%
- Drying a maximum Temperature of 120 ºC
- Steaming 30 – 45 min at 102 ºC with ST steam
- Washing and fixing

PRE-TREATMENT FOR DIGITAL PRINTING WITH DIRECT DISPERSE INKS

• CRESA INK-JET R

Suitable for POLYESTER fabrics

RECIPE	Polyester
WATER (g/l)	Rest
CRESA INK-JET R (g/l)	30 – 60
DEOXIN LAP (g/l)	5
Tartaric Acid (g/l)	1,5

- PICK-UP = 70% – 85%
- Drying a maximum Temperature of 120 ºC
- Steaming 8 min at 180 ºC with HT steam
- Reducing bath

PRE-TREATMENT FOR DIGITAL PRINTING WITH PIGMENT INKS

CRESA INK-JET PCN

Suitable for BLENDS of FIBER fabrics

RECIPE	CO	PES/CO
WATER (g/l)	Rest	Rest
CRESA INK-JET PCN (g/l)	50 - 70	70 – 100

- PICK-UP = 70% – 85%
- Drying a maximum Temperature of 120 ºC
- Polymerizing 2 - 3 min at 160 ºC

To improve the wet rubbing fastness it is recommended to finish with **80-100 g/l de CRESOFT PDI**

It's also recommended to adding a softener type **CRESYL ME-40 (20 g/l)** to improve the hand feeling

PRE-TREATMENT FOR DIGITAL PRINTING WITH PIGMENT INKS

• CRESA INK-JET P

Suitable for BLENDS of FIBER fabrics

RECIPE	CO – PES/CO
WATER (g/l)	Rest
CRESA INK-JET P (g/l)	25 - 50
CRESACRYL C-500 (g/l)	25 - 50

- PICK-UP = 70% – 85%
- Drying a maximum Temperature of 120 ºC
- Polymerizing 2 - 3 min at 160 ºC

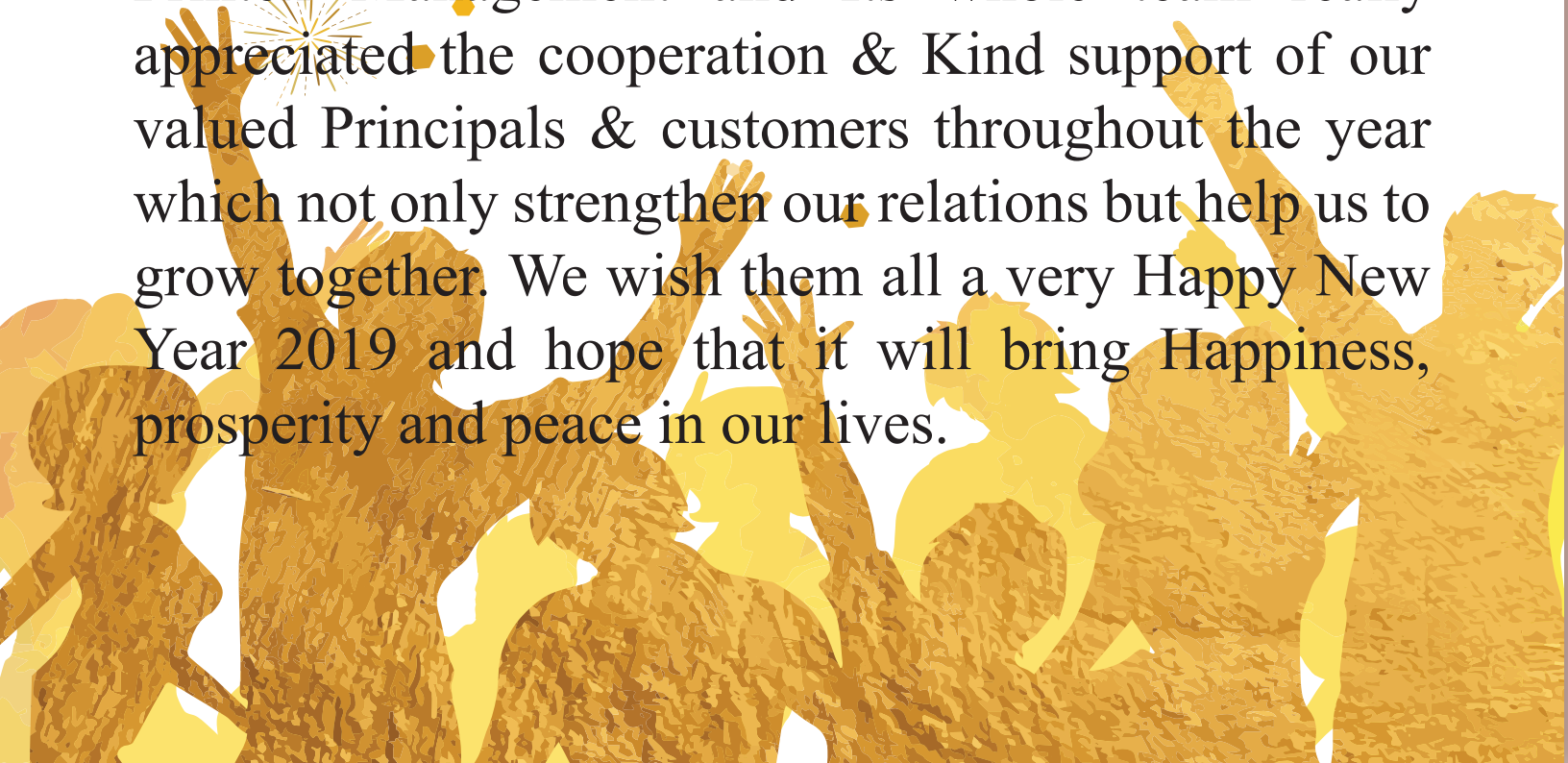
To improve the wet rubbing fastness it is recommended to finish with **80-100 g/l de CRESOFT PDI**

It's also recommended to adding a softener type **CRESIL ME-40 (20 g/l)** to improve the hand feeling

Happy NEW YEAR 2019

News *from* Printex

Printex Management and Its whole team really appreciated the cooperation & Kind support of our valued Principals & customers throughout the year which not only strengthen our relations but help us to grow together. We wish them all a very Happy New Year 2019 and hope that it will bring Happiness, prosperity and peace in our lives.



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Towards Innovation

Printex

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