

# DIGITAL PRINTING WEB TO PRINT

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YOUR PARTNER IN PRINT

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Welcome to ROQ's  
digital printing products catalog.

This is a journey that ROQ has been dedicated to, since 2016. As is its tradition, it works hard to be able to deliver excellent products to the market. Every day, technology moves forward and ROQ is determined and focused on presenting innovative products with unquestionable quality and reliability.

Within this catalog, you will find a hybrid solution in which ROQ can combine its excellence in printing with the elegance brought on by the new age of digital printing.

This mix of technologies allows for agility and versatility that had never before been provided to a printer.

The ROQ Now is in charge of this 100% digital solution. An innovative solution where within the same ecosystem the reliability and precision of the ROQ oval machines coexist with the industrial digital printing that ROQ has developed.

Here you will find the solution you need to make sure your business can grow sustainably..

**ROQ - Your Partner in Print**



# DIRECT TO GARMMENT

## SCREEN & DIGITAL

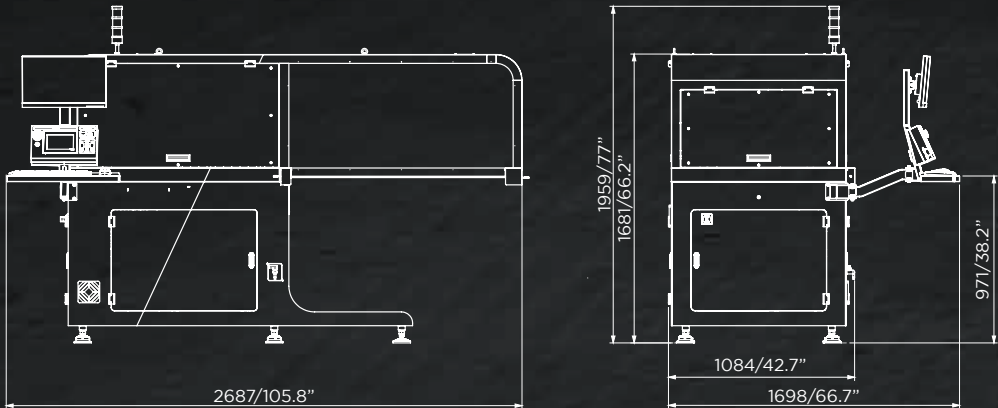


### HOW CAN ROQ Hybrid HELP YOUR BUSINESS?

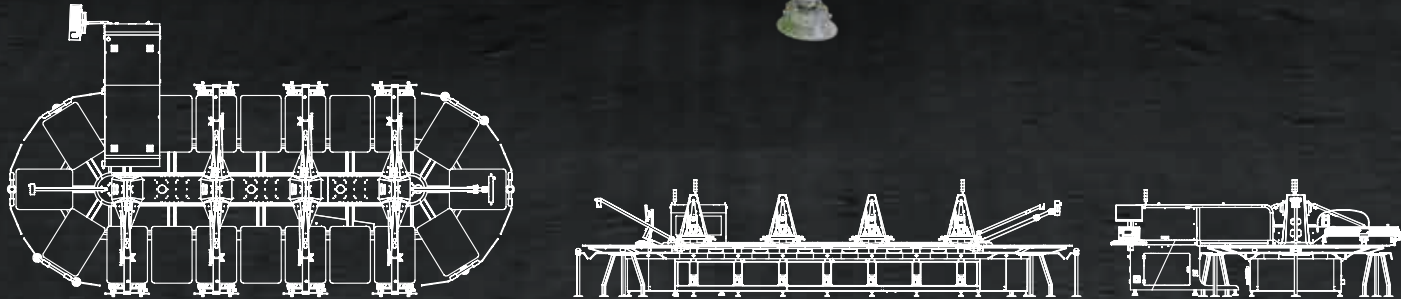
- great standards**  
high production with digital quality
- detail and color**  
sharp and detailed prints large color gamut
- simplicity**  
easy to operate simple to maintain
- money saving**  
it only uses two screens

ROQ Hybrid	5070C	3870C
printhead technology	Piezoelectric/FujiFilm Dimatix	
number of printheads	8 or 12 printheads per station*	12 or 18 printheads per station*
ink set	CMYK/CMYK+2	
advisable printing gap range (mm/inch)	3 - 4" / 0.11" - 0.16"	
printing heigth range (mm / inch)	3 - 20 / 0.12" - 0.78"	
max. printing area (mm / inch)	500 x 700 / 19.7" x 27.6"	380 x 700 / 14.6" x 27.6"
max. productivity (pieces/h)	320**	
resolution	508x2400 635x2400	
RIP Software	ROQ Studio powered by Neostampa	
operating conditions	20°-25°C/68-77°F, humidity 50-70% non-condensing	
power supply	AC 100-240V, 50Hz, 60Hz, 3300W***	
width (mm / inch)	1682 / 66.2"	
lenght (mm / inch)	2992 / 117.8"	
height (mm / inch)	2075 / 81.72"	

\* available for other configurations upon request.  
 \*\* productivity for a job with A4 size, printed at a resolution of 508 x 800 dpi (4 pass) at normal speed in a ECO circular machine.  
 \*\*\* the advertised power is only for the digital station without any other equipment.



Hybrid works in conjunction with a XL size screen printing machine, as illustrated in this image:





WEB TO  
PRINT  
PRINT ON DEMAND



ROQ Now

pallets	16*
productivity - (pieces/hour)	up to 200**
pallets type	Special pallets with fabric hold down system
RIP software	RoqStudio and RoqServer Special Edition
jobs management software	RoqNowSW
operating conditions	20°-25°C/68-77°F, humidity 50-70% non-condensing
electrical requirements	3x400V AC 50 Hz, 55 kVA, 3ph + N + PE****
compressed air pressure	0.7 Mpa 120L/min., 17.6 cfm
ink type	Aquarius (by Dupont Artistri) water based pigment

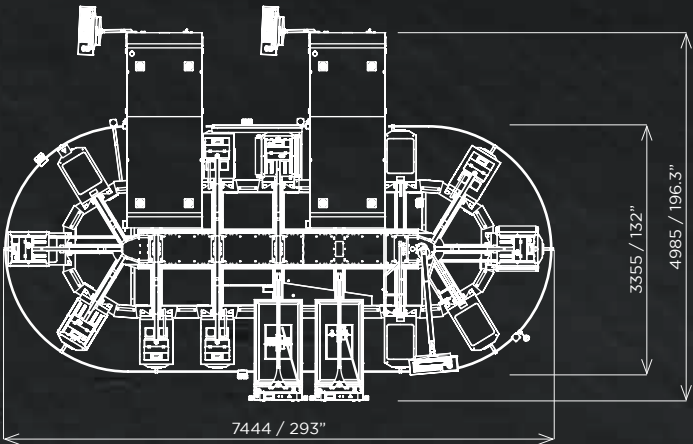
WHITE & CMYK+2 DIGITAL STATION	FC5070W/FC5070C	FC3870W/FC3870C
maximum print area (mm / inch)	340x450 / 13.3"x17.2"	380x450 / 14.6"x17.2"
carriage width (mm / inch)	250 / 9.3"	380 / 14.6"
number of printheads	8 or 12 per station*	12 or 18 per station*
printhead technology	Piezoelectric/FujiFilm Dimatix	
advisable printing gap range (mm / inch)	3 - 4*** / 0.11" - 0.16"	
printing height range (mm / inch)	3 - 20 / 0.12" - 0.78"	
resolution available	508x2400 635x2400	
printhead recirculation	integrated	

ROQ PRIMER	
method of deposition /number of nozzles	sprinkler/2 or 8 nozzles
tank size (L)	5
pre-treatment lay down	10 - 50 g
control method	Speed Control + uni and bidirectional

ROQ DRYERS	
power	7,2 kVA
power/area	3,8 (W/cm²)
number of heating lamps	6 x 1200W

ROQ LEVEL	
power	4 kVA
power/area	2 (W/cm²)

\* available for other configurations upon request.  
\*\* productivity for a job with A4 size at normal printing speed 508 x 1200 dpi (6 pass). Web print mode (all jobs different), bidirectional at normal speed.  
\*\*\*the greater the distance between the surface to be printed and the printhead, the lower the definition.





HOW CAN ROQ Now  
HELP YOUR BUSINESS?



UPLOAD  
ARTWORK



CHOOSE  
RECIPE



PRINT

←  
WANT TO  
KNOW MORE?

SEE DETAILS

Its fully automated workflow allows for:



**flexibility**

upload the artworks you want  
black and white t-shirt templates



**time saving**

very quick production  
short delivery times



**100% digital**

no screens needed



**money savior**

only one operator



**customization**

indifferent products



**residual setup time and cost**

no minimum quantity

# INKS & CONSUMABLES

## ROQ Hybrid

### PRIMER PASTE

The Primer Paste is applied using the screen printing process, giving a foundation for the digital ink to adhere the white base. The Primer Paste helps the digital inks to remain vivid without inhibiting the hand feel.

### PRIMER LIQUID

Primer Liquid is a special product to be applied on white fabric that will work as a binder for the digital inks. It gives to the print high sharpness/definition, good hand feel, high brightness/colour strength and good wet and dry rubbing fastness. In order to guarantee a suitable application of pre-treatment the following equipment is needed: ROQ Primer.

### WHITE SCREEN PRINTING WATER BASE

White Paste is the water-based Paste that is applied on dark fabric by screen printing process. This white base gives the garment a foundation for Digital Inkjet printing.

### CLEANING SOLUTION

An Inkjet printhead is a very sensitive device that can malfunction with irregular viscosity, surface-tension or because of the particles on the ink. Therefore, the whole system, including the tanks, pipings and the internal ink delivery system needs to be completely flushed and cleaned before introducing MicroPigment Inks into the system. The Cleaning Solution is also used for the daily maintenance.

**MP 2.0**  
MICROPIGMENT  
textile pigment ink for  
digital printing



C M Y K R G

Micropigment 2.0 is a fine digital pigment ink that provides excellent definition, colour performance, and wide-ranging colour space. Micropigment 2.0 exhibits great processing consistency, stability, and printhead reliability.

## ROQ Now



### AQUARIUS

powered by  
DuPont™ Artistri®

DuPont™ Artistri® digital textile inks are a step-change in technology, offering a 30% improvement in color compared to previous generation digital DTG inks. The Artistri® ink system significantly streamlines the DTG workflow, saving both time and manpower and providing the ROQ NOW with a deep colour gamut, image sharpness and excellent wash fastness.



The ROQNOW pre-treatment solutions enable clean and consistent printing. Different pre-treatments are used for white and coloured substrates. There are many advantages in using the right pre-treatment:

- It works as binding agent of the ink to substrate
- Allows to print cotton and cotton/polyester blend fabrics
- Improves white ink opacity on dark and colored cotton garments
- Faster white ink set-up
- Improves the wash fastness and also the color yield
- Improves the color gamut and image sharpness

The ROQ primer module will guarantee a pre-treatment uniform layer over all the fabrics.

This solution is specific to maintain the ROQ NOW printheads in good condition. Used on daily prevention and for specific cleaning the cleaning solution is mandatory to keep the ROQ NOW running in proper conditions.



# AT THE HEART OF PRINTING TECH

