

DIGITAL PRINTING WEB TO PRINT



ROQ Portugal (Head Office)
**S.Roque - Máquinas e Tecnologia
Laser S.A.**
Rua das Ribes, 400
4765-774 Oliveira de S. Mateus
Portugal
P. +351 252 980 500
sales@roqinternational.com

ROQ Brazil
**São Roque do Brasil - Indústria
de Máquinas Têxteis, SA.**
Rua Raimundo Correia, 200
Passo Manso 89031-300
Blumenau SC, Brazil
P. +55 047 3037 3205
celina.furtado@roqinternational.com

ROQ United States
ROQ US, LLC
11909 NE 65th Street
PO BOX# 821830
Vancouver, WA 98682
USA
P. 87-ROQ-IT-NOW
1-877-674-8669
sales@roq.us

www@roqinternational.com

FOLLOW US





Welcome to ROQ's
digital printing products catalog.

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

THE BEST OF BOTH WORLDS

SCREEN & DIGITAL

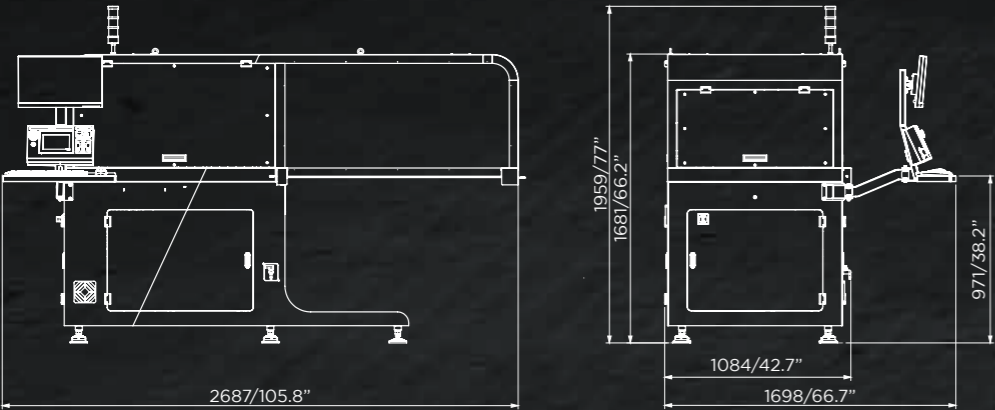
HOW CAN ROQ Hybrid
HELP YOUR BUSINESS?

-  **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**
minimum number of two screens

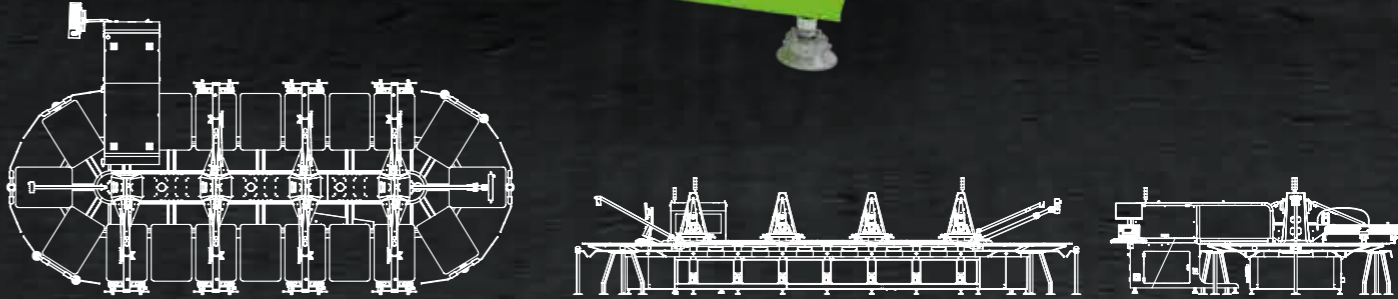


ROQ Hybrid	H04C04	H06C06	H08C04	H12C06	H12C04	H18C06
printhead technology	Piezoelectric/FujiFilm Dimatix					
number of printheads	4 to 12 per station				12 to 18 per station	
ink set	CMYK/CMYK+2					
advisable printing gap range (mm/inch)	3 - 4* / 0.11" - 0.16"					
printing heigth range (mm/inch)	3 - 20 / 0.12" - 0.78**					
max. printing area (mm/inch)	400x700 / 15.7"x27.6"		500x700 / 19.7"x27.6"			
max. productivity (pieces/h)	130**		320**		320 in 380x300 mm	
range of resolutions (dpi)	508 x 200 dpi; 508 x 400 dpi; 508 x 600 dpi; 508 x 800 dpi; dpi; 508 x 1200 dpi; 508 x 1600 dpi; dpi; 508 x 2000 dpi; 508 x 2400 dpi 635 x 200 dpi; 635 x 400 dpi; 635 x 600 dpi; 635 x 800 dpi; dpi; 635 x 1200 dpi; 635 x 1600 dpi; dpi; 635 x 2000 dpi; 635 x 2400 dpi					
carriage swath (mm/inch)	120 / 4.72"		240 / 9.45"		380 / 15"	
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***					

* the greater the distance between the surface to be printed and the printhead, the lower the definition.
** productivity for a job with A4 size, printed at a resolution of 508 x 800 dpi (4 pass). bidirectional 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 & DIRECT TO GARMENT

PRINT ON DEMAND

200
PIECES/HOUR*



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

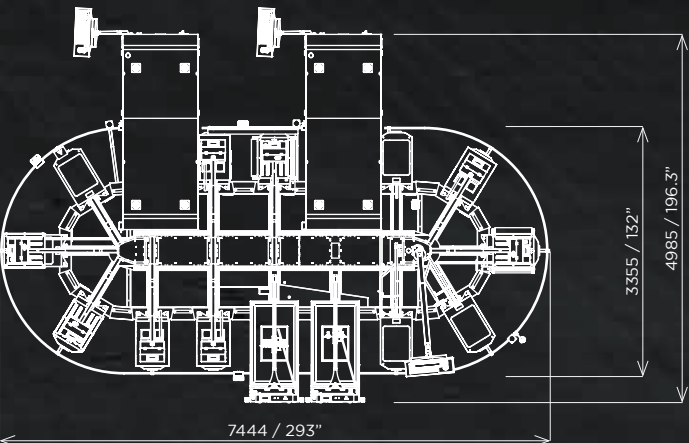
WHITE & CMYK+2 DIGITAL STATION		H12C04 H18W / H18C06 H18W
maximum print area (mm/inch)	380x450 / 14.6"x17.2"	
carriage width (mm/inch)	380 / 14.6"	
number of printheads	12 or 18 per station	
ink set	CMYK/CMYK+2	
printhead technology	Piezoelectric/FujiFilm Dimatix	
advisable printing gap range (mm/inch)	3 - 4** / 0.11" - 0.16"	
printing height range (mm/inch)	3 - 20 / 0.12" - 0.78"	
range of resolutions (dpi)	508 x 200 dpi; 508 x 400 dpi; 508 x 600 dpi; 508 x 800 dpi; dpi; 508 x 1200 dpi; 508 x 1600 dpi; dpi; 508 x 2000 dpi; 508 x 2400 dpi; 635 x 200 dpi; 635 x 400 dpi; 635 x 600 dpi; 635 x 800 dpi; dpi; 635 x 1200 dpi; 635 x 1600 dpi; dpi; 635 x 2000 dpi; 635 x 2400 dpi	
carriage swath (mm/inch)	240 / 9.45"	380 / 15"

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)

* productivity for the web to print mode (all jobs different), for a resolution of 508 x 1200 dpi (6 pass) in the colour station, in the bidirectional mode 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. The ROQ primer module will guarantee a pre-treatment uniform layer over all the fabrics.

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

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.

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

