MATRIX UV

SERIES

MATRIX UV

Croatian Creation

MADE IN EUROPE

azonprinter.com

WIDE RANGE OF APPLICATIONS

With Matrix UV printers you can cover wide range of applications , Matrix UV can be used in low to high volume productions like printing on lighters, pens, personalized items, low quantity products branding, while still if need arise being able to carry out the tasks of large industrial printer with higher quality results.

Matrix UV printers have large spectrum of compatible materials which adds to application range materials like wood, plastic, ceramic, glass, metal and many others can be printed with few simple steps.

RIGHT SIZE FOR YOUR BUSINESS

Due to Matrix UV wide range of applications you can choose between 4 standard table sizes.
Additionally to our customer satisfaction your printer can be customized in width and height according to your needs.

	MATRIX UV	MATRIX UV PRO	MATRIX UV PRO M	MATRIX UV PRO L
PRINT AREA:	590 x 1200 mm	590 x 1800 mm	1100 x 1200 mm	1100 x 2500 mm
HEAD HEIGHT:	200 mm			
MAX WEIGHT:	100 kg			

Matrix UV INK

Azon TurboJet

All Matrix UV printers are fueled with Azon TurboJet Ink. UV TurboJet inks are specially developed to ensure vivid colors and maximum fastness on almost any material. In case of materials with extremely smooth surface texture, primer is available to make sure that each Matrix UV user can achieve outstanding and satisfying print results.

EN 71-3 Approved

To increase Matrix UV range of applications TurboJet inks fulfill even the toughest EU regulations and norms. TurboJet is phthalate free ink.

Vivid Colors

Due to specially designed formula TueboJet inks provide vivid color on almost any material. Graphic printed with TurboJet will not fade over time .

Increased Adhesion

No drying time needed, once printed your product is ready for further processing.

CONTI System

Each Matrix UV is equipped with CONTI ink system [continues ink supply]. CONTI allows for printer to be refilled with ink during the printing operation which translates to zero time loss during the refill. Matrix UV printers use 6 bulks with capacity of 500 ml each. [White bulks are equipped with on demand ink agitation]

MATRIX UV SERIES INK SYSTEM CONFIGURATION

6x 500ml bulks CMYK + Varnish + White

6x 500ml bulks CMYK + 2x White

[custom configurations are available]

RIP SOFTWARE

AZON RIP

With Azon RIP software you are getting absolute control over your Matrix UV printer.
Even the most complicated and creative ideas are just few clicks away from being printed.
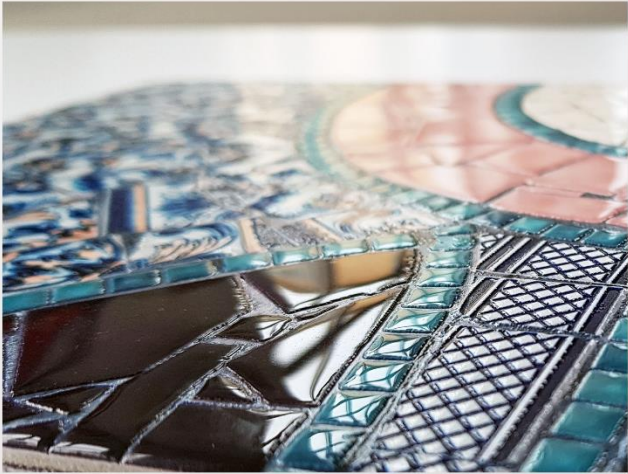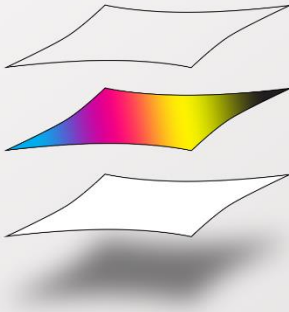
FROM A SIMPLE TILE TO MOSAIC ART

With individual control of each channel you can define up to
5 layers to create stunning effects
on material like a simple tile.

Varnish Ink Layer
shiny finish on top

Color Ink Layer
super realistic colors

White Ink Layer
creating emboss effect

With ink cost calculator you will have precise data abut ink cost for each graphic even before print.
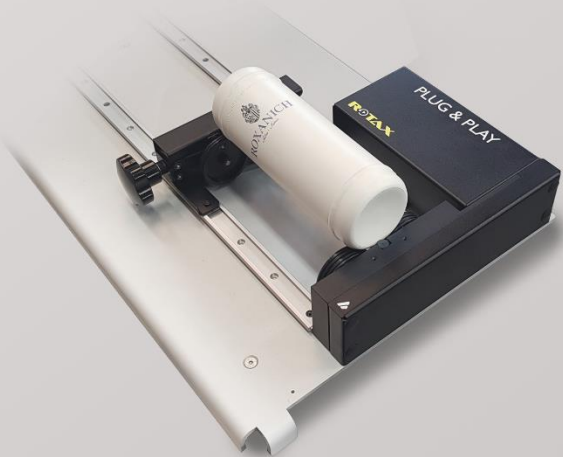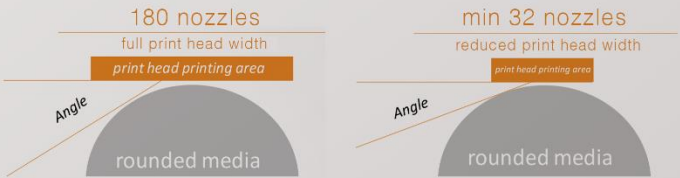Advanced profiling allows for optimum ink consumption while delivering perfect results.

ADA BRAILLE PRINT

Predefined settings for printing by ADA Braille
standard. [settings ca be adjusted according to
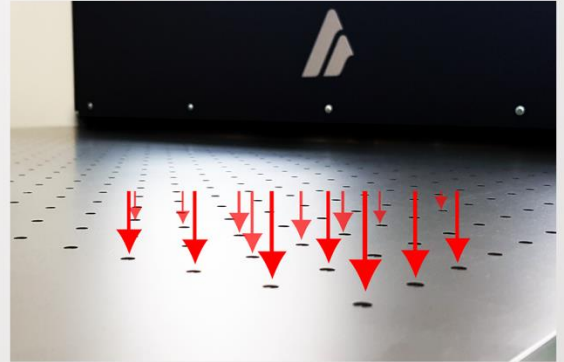requested ADA BRAILLE grade]

NOZZLE PER CHANNEL

While printing on rotary add on you can regulate
number of nozzles used per channel. Nozzles
regulation allows for printing on round objects
with perfect print results every time .

180 nozzles
full print head width
print head printing area

min 32 nozzles
reduced print head width
print head printing area

Angle
rounded media

Angle
rounded media

FEATURES

SELECTIVE VACUUM

All printers within Matrix UV series are equipped with vacuum tables. Vacuum tables are separated into zones which can be easily turned on and off depending on size of the material.

LOOP MODE

Feature which will enable you to make precision calculation how much time you need to create certain amount of required products. Simply send amount of copy's you need form RIP software to and turn on loop mode. When printer is finished with the first substrate it will move gantry to second one. While second substrate is printed you can safely remove first one and replace it with blank one. When the second substrate is done gantry will go back first one. This will continue until all copy's you send form RIP are printed.

ROTARY ATTACHMENT

A plug and play add on for every Matrix UV printer. Rotary attachment together with Azon RIP software will make your application spectrum even wider.

SPECIFICATIONS

MATRIX UV1206 / 1806 / 1211 / 2511

SUBSTRATE

PRINT AREA	590 mm x 1200 mm 23.22" x 47.24"	590 mm x 1800 mm 23.22" x 70.86"	1100 mm x 1200 mm 43.30" x 47.24"	1100 mm x 2500 mm 43.30" x 98.42"
APPCEPTABLE MEDIA	700 mm x 1900 mm 27.55" x 74.80"	700 mm x 2500 mm 27.55" x 98.42"	1200 mm x 1900 mm 47.24" x 74.80"	1200 mm x 3200 mm 47.24" x 125.98"
CLEARANCE	0,5-420 mm / 0,01"-16.53"			
MAX WEIGHT	50 kg/m2 (110.2 lb./ft2), non-concentrated load			
FIXTURE [VACUUM]	3 ZONES TABLE , 1 pump / 6 ZONES TABLE , 2 pumps			
MATERIAL TYPE	WOOD STONE PLASTIC PET, PE, PVC, PP, PS, PLA, PC, PMMA, POM, PA, ABS GLASS CERAMIC METAL			

PRINT

PRINT TECHNOLOGY	Ink-jet[On-demand piezo]
DROP SIZE	3,5 - 21 picolitre
PRINT RESOLUTION	360 dpi 720 dpi 1080 dpi 1440 dpi 2880 dpi
SPEED	3,20 SqM/Hr 34.44SqFt/Hr / 3,66 SqM/Hr 39.39SqFt/Hr
ABSOLUTE ACCURACY	+/- 0.01 (0.3 mm) or +/- 3% from specified print distance
REPEATABILITY	+/- 0.008 (0.2 mm) or +/- 1% from specified print
INK CONSUMPTION	CMYK 9,68 ml/SqM White 2,42 ml/SqM

INK

TYPE	AZON UV TurboJet, certified EN 71-3, Phthalate free
CURING	ADJUSTABLE UV LED
COLORS	CMYK / WHITE / VARNISH
PRIMER	AZON UV CERTIFIED PRIMER
SUPPLY SYSTEM	500ml INK TANKS
INK CIRCULATION SYSTEM	White ink circulation using Azon Circulation Technology [ACT]

SOFTWARE

RIP	AZON RIP 64 bit with ADA Braille translator

OPERATIONAL ENVIRONMENT

TEMPERATURE	+15°C to 30°C / 59F-86F
HUMIDITY	35-65% RH (non-condensing)

POWER 220V/110V

STANDBY CONSUMPTION	95 W
MAX CONSUMPTION	2,6 kW / 5 kW

ASSEMBLED DIMENSIONS

(W×D×H)	1330 mm x 2300 mm x 1150 mm 52.36" x 90.55" x 45.27"	1330 mm x 2900 mm x 1150 mm 52.36" x 114.17" x 45.27"	1850 mm x 2300 mm x 1150 mm 72.83" x 90.55" x 45.27"	1850 mm x 3600 mm x 1150 mm 72.83" x 141.73" x 45.27"
WEIGHT	250 kg / 551 lbs	390 kg / 661 lbs	270 kg / 705 lbs	630 kg / 992 lbs