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REVOLUTION



highest quality
available

REAL PHOTO

1440
1440

DPI

Epson DX5
printheads

REVOLUTION



Environmental friendly

Prints onto uncoated materials

Outdoor durable, excellent colour

the most advanced alternative



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characteristics

advanced technology
accurate output

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Variable Drop Size



Epson DX5 printheads

The latest **Epson DX5 piezo print head** with 24.5mm width and 8 lines nozzles is used. Each line contains 180 nozzles, in total 1440 nozzles. Two nozzle rows per colour - the perfect solution for fast printing.

Adopts advanced **variable dot print technology**, minimum dot reach 3.5pl, maximum 27pl. Depending on different output types, variable drop ink technology can generate 3 kinds of micron ink drops in different sizes and that allows a fine, smooth and particle-free tone transition.

With particular two-dimension smart eclosion and wave eclosion print function, it will eliminate banding in printing process. Working in high-precision print technology determines higher print quality output. Many types of print modes can be easily selected. Under 720×720dpi mode it can output 14 sqm per hour. Under poster mode, the printing speed could reach up to 28 sqm per hour.

Standard 4-color print (2xCMYK) will output delicate and colourful images. The results are excellent, even when applied to advertising production and other high demand for multicolor output.

Quick and simple to set up, printing with **wave technology** saves time and trouble while producing outstanding results. Ink is laid down in carefully optimised wave forms, not the straight lines used by all other wide-format inkjet printers. The result is a drastic reduction or even total elimination of the typical difficulties inherent in conventional digital inkjet printing. Wave technology means the end of flaws, like horizontal banding, step mismatch banding, ink mottle and bleed and the visible effects of missing or misfiring nozzles.

Normal Printing

Fuzz Eclosion Wave Printing

green dots™
eco-solvent ink



No odour, eco-solvent ink

powered by

Photojet

The latest Epson DX5 piezo print head offers the liberty to work with waterbased inks (dye-ink or pigment) also, but can perfectly replicate the same colour gamut using the special developed eco-solvent inks from Photojet.

No odour, fast drying inks are obtained after careful balance and numerous test.

Our goal was to have an ink with brilliant results which can be used in any environment (even an office room if is needed) with short time of drying because in production mode you can reach up to 14 sqm per hour.

GREEN DOTS Eco-Solvent Ink - wide color gamut

Eco-Solvent **Green Dots** inks made by our partner Photojet Ltd. are based on non-aggressive solvents. As they do not spread any harmful VOCs in the working environment, there is no need for forced ventilation. Eco-Solvent **Green Dots** inks represent the fifth generation of eco-inks and feature improved ink fixation, higher print speeds, better drying and improved scratch resistance.

Revolution E printers are perfectly suited to deliver top quality images when printing directly onto a wide range of low-cost standard available such as uncoated PVC or vinyl and scrim banner media. Eco-Solvent Green Dots inks come in more convenient bulk configuration or in easy-to-use 440 ml ink cassettes.

integrates the best technology available

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characteristics

perfectly engineered
smooth and accurate

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Trouble free transmission

Long lasting movement transmission system

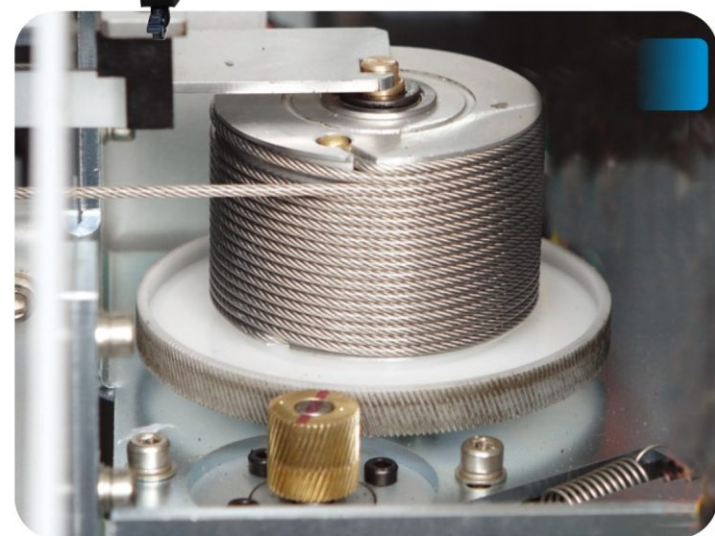
In order to achieve accuracy, speed and steady movement, it is crucial to have a solid, virtually indestructible and maintenance free transmission assembly.

Revolution E adopts a state of the art solution.

Instead of using rubber belts as other printers in the market, it uses a strong, solid cable.

This ultimate solution eliminates the inherent problem of the material flexibility and from here the micro misalignment, with perfect results in terms of resolution.

The gear-occlude directly transmission assures accuracy and extreme precision. With a great extension of the transmission assembly's lifetime and trouble free usage.

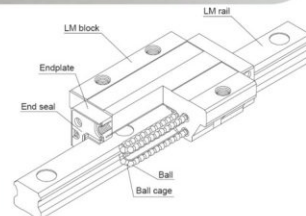


Reliable components

No compromise for the quality. The **Guide Rail** is made by giant **THK** (USA) and feature ultra high rigidity Roller Guide that achieves low friction, smooth motion and long-term maintenance-free operation by using a roller cage.

Advantages of using Ball Cage Technology:

- (1) The absence of friction between balls, together with increased grease retention, achieves long service life and long-term maintenance-free (lubrication-free) operation.
- (2) The absence of ball-to-ball collision achieves low noise and acceptable running sound.
- (3) The absence of friction between balls achieves low heat generation and high speed operation.
- (4) The circulation of lines of evenly spaced balls ensures smooth ball rotation.
- (5) The absence of friction between balls allows high grease retention and low dust generation.



THK

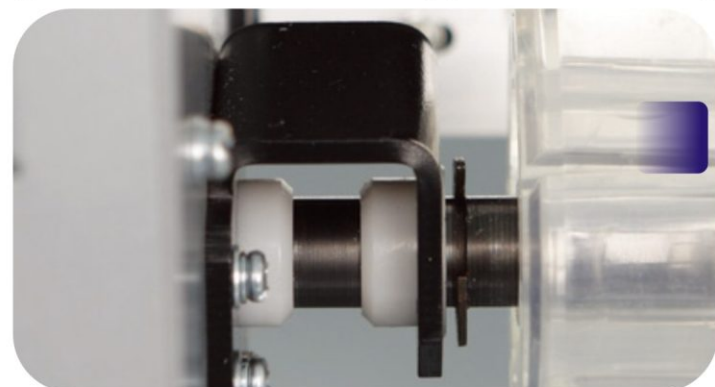
Low-friction feeding system

Feeding system

An essential component for the smooth and continuous movement of the media.

Lack of friction means no additional stress for the traction rollers and perfect coordination.

High results are obtained using an special hydraulic damp feeding paper system, equipped with high quality fluid damp, thus the feeding paper cycle is more precise and smooth.



superior price/performance

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REVOLUTION E



characteristics

modern and efficient
cost saving solutions

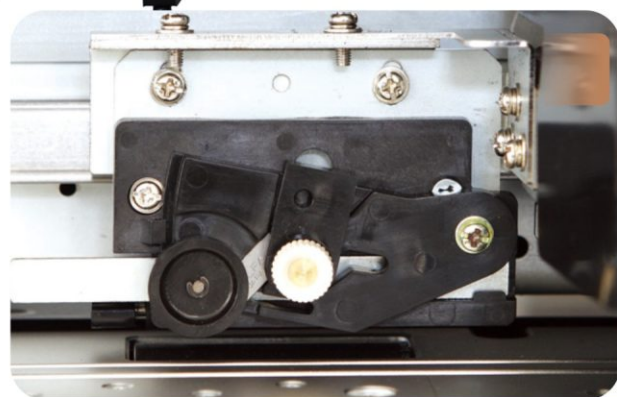
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Automatic media cutter

Automatic media cutting system

One of the most interesting facilities is the automatic media cutting system. At the end of each job the user can select the sheet cutting to have a clean and straight margin of the media roll. In this way the roll can be easily kept and, when it will be used again it will be very easy to load into the printer and align. Both of these operations are usually time consuming so, reducing them, time and labour both will be saved.



Advanced cleaning system

Automatic cleaning system

Revolution E has developed an advanced service station, studying all the successful models on the market to offer the best preservation conditions for the print head.

The advanced print head service station is integrated into the printer. It contains a printhead capping unit, an ink purging station and wipers. The service station can keep the moisture of the printhead nozzles when the printer is idle and automatically clean the print head.

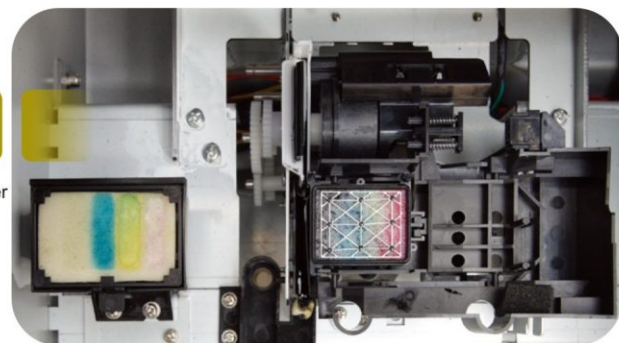
The easy maintenance of the printer will make things a lot easier for the user.

There are two important processes that can affect the life of your printhead.

First comes the cleaning, and second it is proper maintenance.

The cleaning function is fully automatic and can be programmed during printing as well.

The most innovative is the capping unit. It perfectly seals the head, allowing perfect and uniform suction of all the row nozzles by the pump. The second function is to preserve the moisture and the cleaning solution for a longer period of time, offering you several days maintenance free during printings. Having both means also that you can start printing in matter of minutes just after a short cleaning session.



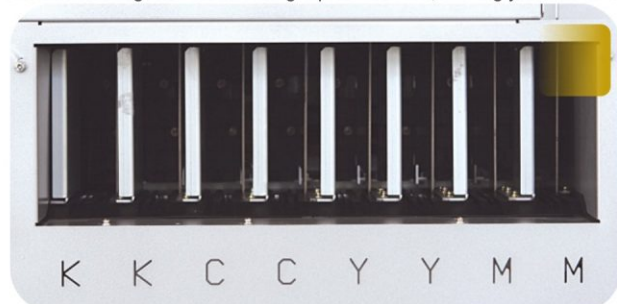
Convenient ink supply

Continuous ink supply available

In order to offer the best solution for our customers, and the lowest printing costs we can offer a continuous ink supply system.

However, for more convenient use, we can supply sealed ink cartridges.

The eight ink channels are independently feeded by eight 500 ml big cartridges which supply ink for each nozzle line separately, which will ensure high speed output.



USB 2.0 interface

Revolution E comes equipped with a Hi-Speed USB technology interface, which is able to transfer data with a speed up to 480 Mb/s maximum. What's more, it is PNP, convenient and speedy. Meanwhile, it supplies the internet print interface (internet port address), that allows you printing at another location or in a LAN network.



user friendly / easy maintenance

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characteristics

fully equipped
increasing production

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Double zone vacuum table

Vacuum table

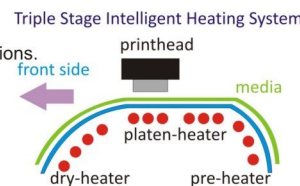
Many materials need a superior force to be flattened in order to achieve the best printing results. Revolution E comes with a large vacuum table split in two divisions.

Rear and front table heating

Triple stage intelligent heating system provides a pre-heater, a platen heater and a dry heater, which improves the ink absorbability of the media and the performance of the ink, quickens the drying time and enables the fast take up of the media.

Shorter distance between feeding rollers

Uniform tracking is essential in big size printing industry. Having more feeding rollers than the average printers on the market, Revolution E provides higher pressure on wide or narrow for even longer jobs.



Printhead height adjustment

Printhead height adjustment

Using Revolution E enables the possibility of printing on a large variety of materials with different textures and thicknesses. The distance between the printhead and media can be modified in a range of 1.5 mm to 2.5 mm. The adjustment can be made even during printing, by raising or lowering the lever.

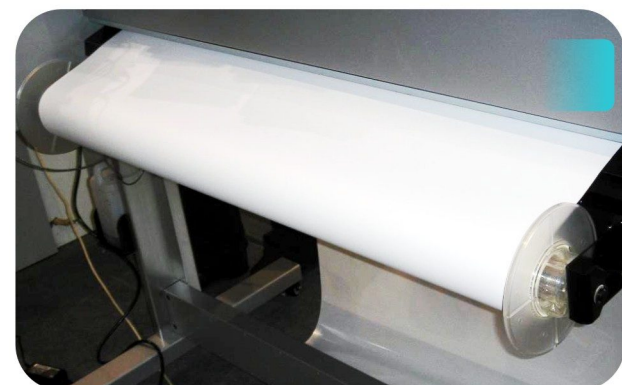


Versatile feeding system

Any media between 21 cm and 160 cm wide

Media feeding can be easily performed with accuracy every time, because Revolution E printers can adopt a fixed component in the left part (looking from the rear of the machine). The position of the right arm can be easily adjusted, just sliding the assy in the desired direction.

Automatic media take up roller can be also provided on the printer, as an optional configuration.



advanced/versatile/reliable

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specifications

a greater value
for the invested money

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Model	Revolution E 135	Revolution E 160
Printing Technology	drop-on-demand micro piezoelectric (The 5th Generation of Micro Piezo Technology - Epson DX5)	
Number of Nozzles	one DX5 printhead 1440 nozzle / 1 printhead	
Colors	4 colors : Cyan, Magenta, Yellow, Black	
Printer Head Height Adjustment	Adjustable between 1.5 ~ 2.5 mm	
Resolution	1440 dpi x1440 (maximum)	
Ink Droplet Size	variable - 3.7-21 pl	
Printing Width	1270 mm (maximum)	1520 mm (maximum)
Speed	High speed Mode: 540x720dpi (4 pass) - 16.5m ² /hour	
	Standard Mode: 720x720dpi (4 pass) - 15.5m ² /hour; 720x720dpi (8 pass) - 10.5m ² /hour	
	Photo Mode: 720x1440dpi (8 pass) - 5.9m ² /hour; 1440x1440 (16 pass) - 3.0m ² /hour;	
Pre-heating System	Three zone - back, middle and front. Control pannel integrated temperature control Heating temperature: room temperature up to ~ 50°C	
Drying System	Integrated - front dry-heater	
Media	1320 mm (maximum)	1580 mm (maximum)
	Automatic feeding system	
	Automatic take-up (optional)	
	Vinyl, Paper, Self-adhesive paper, PVC, Mesh, Textile, PVC flex banner, Self Adhesive Vinyl , Canvas, etc.	
Ink	Photojet Green Drops eco-solvent (nanoparticles)	
	Photojet dye-ink or pigment (nanoparticles)	
	Sublimation ink (nanoparticles)	
	Ink Supply Mode: continuous ink supply / sealed cartridges	
	Refillable cartridges : 8 x 440 ml	
RIP Software	Maintop, Wasatch, Photoprint RIP	
	Supported Image Format: JPEG, TIFF, BMP	
	PostScript file processor (optional)	
	Color Mode: RGB or CMYK	
Control Software	Control Software: Revolution E Control Software	
Interface	USB 2.0	
Operating System	Windows XP	
Voltage	AC 220-240V 50/60Hz or AC 110-120V 50/60Hz	
	Power consumption: 1KW (maximum), 300W (printing only)	
Working Enviroment	Ambiental temperature: 22-25°C	
	Humidity: 55-70 % Non-condensing	
Dimensions	Printer dimensions (WxDxH) 2.210x750x1.250 mm (stand included)	Printer dimensions (WxDxH) 2.380x750x1.250 mm (stand included)
	Packing Dimensions (W x D x H) : 2550 x 886 x 640 mm (stand included)	
Weight	Net Weight: 180 kg (stand included)	
	Gross Weight : 200 kg (stand included)	

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large format printer, high speed, high resolution



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