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Digital Finishing for Digital Printers
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DigiCoater 50

UV coaters give the perfect finish that will enhance, protect and add value to your print.

UV Coating is rapidly being adopted as a means to enhance, protect and add value to your digital and litho printed documents. The application of a gloss UV Varnish can be used enhance the print quality, making colours appear richer and more vivid, as well as offering protection for documents being frequently handled.

UV Coating is widely considered as being a more environmentally friendly alternative to lamination as virtually no waste is produced in the production process. Unlike laminated stocks, which normally should be treated as plastic waste, UV coated stocks can be disposed of or recycled as normal printed paper would be.The DigiCoater 50 caters for printers who require a larger sheet width of up to 500mm. The DigiCoater 50 is available in 2 versions.

Key Product Features

• **Automatic touch screen operation**

• **Multiple coating options**

• **Can be used to prime printing stock (6 tank only)**

• **Variable coating thickness**

• **Multiple supply tanks with auto wash**

• **Sheet weight 400gsm+**

• **Filtered recirculation system**

• **Variable speed to 30 metres per minute**

• **Enclosed System For Dust Free Prints**

• **Compact footprint**

• **Choice of air feeders and joggers**

• **Internal IR lamp**

The first version is available with 4 tanks and 2 coating rollers and is ideal for customers who do not wish to use the machine for priming* and wish to coat only.

The second version is available with 6 tanks and 3 coating rollers and is ideal for customers who want the flexibility to have coating and priming available from one machine. Switching between coating and priming is acheived via the touch screen control panel.

The Digicoater 50 has a "turret system" containing 2 or 3 rollers. This is controlled by compressed air and switching between different varnishes, textures or priming couldn't be easier. The different textured finishes can be seen overleaf.

The compressor enables the use of an "air knife" which directs a jet of air at the sheets to ensure release from the coating rollers. This feature is optional on most coaters but is standard on the DigiCoater 50.

Control of the sheet thickness and the coating thickness are by way of

2 levers on the side of the machine within easy reach of the operator.

All other functions are directed from the touch screen control panel including the wash down process which is completely automated on the DigiCoater 50.

The Digicoater 50 has an internal IR lamp as standard for use when priming (6 tank only) or to aid in flow and adhesion if needed when coating.

The DigiCoater 50 has its own integral catch tray but can also be ordered with a jogger as an option either at time of order or at a later date.

There is an optional Digi-IR unit available for coating wax based toners. This unit is placed in front of the coater and heats the toner prior to coating to ensure complete adhesion of the UV varnish to the toner. There is no loss of quality during this procedure.

Simple one-finger operation. Never before has operation of a UV Coater been so easy. The intelligent touch screen interface allows you to control every aspect of production from start to finish. Variable data fields allow you to precisely control throughput speed. Select from primer, coating station and which coating tanks to use. Clean ups are fully automatic with cleaning and drain times specified through the touch screen control panel.

A **gloss varnish** is often used to enhance the appearance of documents, brochures or flyers, as the coating reflects back the light and makes colours appear richer and more vivid. A gloss coating can add impact to the print, especially in sales or promotional material, where optimum presentation of images is important.

A **matt varnish** gives the printed surface a non-glossy, smooth look. This type of seal is sometimes used to 'soften' the appearance of a printed image. Small text in a leaflet or booklet can be easier to read on a surface coated with matt vanish as the coating scatters the light and reduces glare.

A **textured finish** allows the designer to create a special effect on the printed surface. This is achieved by using a textured roller. Details of the textures available are detailed overleaf.

Applying a UV coating **protects** the printed image as well as enhancing it. This is essential for anything that will be frequently handled or submitted to the rigours of the postal system.

DigiCoater 50

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technical specifications

	6 Tank	4 Tank
Maximum speed (metres per minute)	30	30
Maximum coating width	500mm	500mm
Maximum coating length	762 mm	762mm
Maximum paper weight	400gsm+	400gsm+
Coating thickness	6 - 14 microns	6 - 14 microns
Coating technology	100% UV curable	100% UV curable
Coating capacity Digicoater 50	6 x 2 litre	4 x 2 litre
Available finishes	Gloss/Matt/5 textured finishes	Gloss/Matt/5 textured finishes
Cleaning	Fully automatic	Semi automatic
Dimensions	L 1707 x W 1000 x H 1200 mm	L 1990 x W 870 x H 1080 mm
Weight	440kgs	180kgs
Power requirement	30 amp 220/240v 50/60Hz	30 amp 220/240v 50/60Hz
Optional extras	Digi-IR, Xtractor	Digi-IR, Xtractor

Note: the production speed varies according to material size.

The DigiCoater 50 is compatible with most print technologies including liquid ink and toner based digital engines, photo, ink jet and conventional litho.

Coverage is dependent on the thickness of the coating and the absorption of the stock being used. Test results show coverage up to 4000 SRA3 sheets per 5 kg's of coating solution.

Primers are coatings applied to substrates to achieve maximum printing performance. High quality digital printing requires substrates to have high levels of chemical and physical consistency. Most synthetic substrates can be upgraded to such levels with the application of substrate primers.

Primers can be applied to suitable substrates at the client site to reduce costs and increase substrate diversity. Substrate primers improve ElectroInk transfer, fixing and adhesion. They also maximize the life span of press consumables.

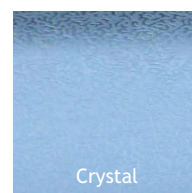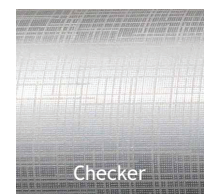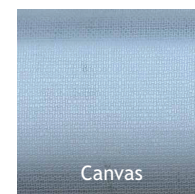The DigiCoater 50 is manufactured to CE specification.

The system uses UV varnishes and washes which must be used in line with the information on the health & safety data sheets. Morgana Systems recommends its range of Morgana Magic coatings which optimise the results from the DigiCoaters.

The UV lamps used in the DigiCoater 50 produce ozone. It is therefore STRONGLY RECOMMENDED that the unit is vented to the outside.

A 5m flexible pipe is included in the price of the DigiCoater 50. Should the distance to the outside be more than 5m an additional fan and piping will be required. Morgana Systems do not supply these items or fit the supplied venting.

An alternative to outside venting is our ozone elimination unit called the X-Tractor. This is available as an option should outside venting not be possible or if the DigiCoater is required to be mobile.

Textures Available

Artisan

Canvas

Checker

Crystal

Leather

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