Matti Primer / Coater / Tinter “SG-Line”

The Matti Primer / Coater / Tinter Units are based on the well-known GP Stratum 2SG series, with many hundreds installed worldwide.

In a standard configuration, the unit is a double-sided coating unit which can also be used for single-sided applications.

The units are equally well suited to apply primer fluids for inkjet pre-treatment or to apply water based colours to tint paper.

Utilising the options package, the units can be configured with enhancements such as an integrated dryer, adjustable roller system to apply more/less fluid and can be manufactured in a variety of widths.

Standard features include a Reservoir Level Control (RLC), pneumatic motorised drives (driving both reservoir and coating rollers) used to maintain a continuous liquid/ink coverage on rollers during intermissions or temporary stops in production and during wash-up cycles.

Wash-up operation can be carried out automatically when connected to an Automatic Fluid Changer (ACC-2) system; or, alternatively, a Manual Fluid Changer (MCC) system is available, controlled via the main control panel.

Standard specifications:

- Motorised drive for normal operation and Wash-up system.
- Reservoir Level Control (RLC), maintaining a constant ink level in the reservoir.
- Stainless steel reservoirs.
- Extraction connection point for alcohol-based fluids.
- Fluid change system (ACC-2) hoses.
- Fully guarded for safe operation and unit protection.

Enhanced Coating: comprising of two additional intermediate rollers.

Depending on strength of colour and required applied coat weight the appropriate roller configuration needs to be quantified.
Note: Roller configuration is dependent upon many parameters including: substrate properties, fluid surface tension, ink, liquid ingredients and viscosity etc.

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Electrical drive system (applicable to units 1’300mm wide and above)

This system consists of an electrical drive driving one of the impression rollers in the coating unit in order to minimise extra web tension. This can be necessary in applications using low paperweights or long distances between each web- drive.

We recommend the Electrical drive system to be used with units of 1300mm and above.

Manual Colour Change unit (MCC-3)

Standard model with stainless steel tanks and pump.

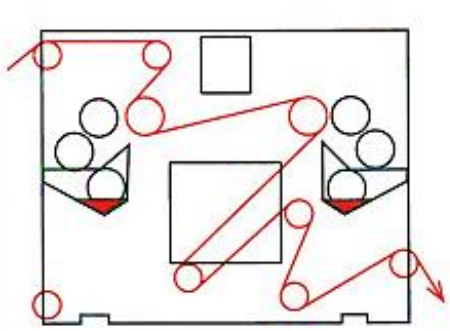
For use with SG models.

Automated Fluid Change Unit (ACC)

Standard model with 7 stainless steel tanks and pump for faster fluid change and automated cleaning.

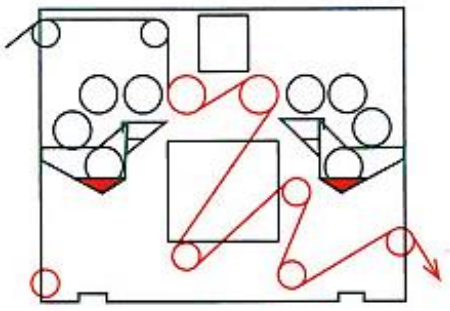
For use with SG models.

3 Roller system:



for higher fluid coverage

4 Roller system:



for lower fluid coverage

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Used as a primer unit

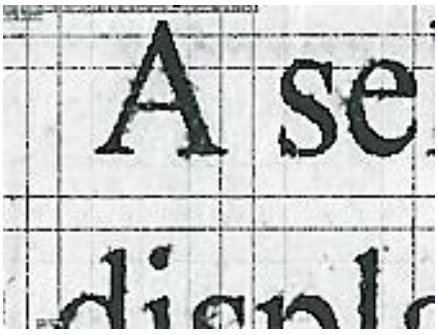
The SG units are very well suited to prime standard papers with an inkjet primer fluid.

The images below show the difference with and without primer fluid.

Untreated paper:

It is clearly visible that ink is blurry along the fibres of the paper.
Contrast of the fonts is low.

Treated paper:



The blurring is very low, contours of the fonts are greatly enhanced and the contrast is visibly much higher.

Fluid Distribution:

0.6 - 5 g/m^2 dependant on fluid and roller configuration.

Available SG Models and Options

Model SG	SG-70	SG-90	SG-130
Web Width (mm)	700	910	1340
Priming Width (mm)	680	890	1320
Max. Web Speed (mpm)	300	300	300
Optional Dryer Power - max (kw)	16	24	32
Air Supply	6/85	6/85	6/85
Length (in / mm)	29.5/750	29.5/750	61/1550
Stainless Steel Edition	Available	Available	Available
Manual Colour Changer	Standard	Standard	Standard
Automatic Colour Changer, up to 7 tanks	Available	Available	Available

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