

# HOW TO 'STEP BY STEP' GUIDE



## DTG ENVIRONMENT INFORMATION

### Operating temperatures for the DTG inks

It is recommended that the unit be kept in an air-conditioned environment, with temperatures no less than 18° Celsius (64°F) and no more than 30° Celsius (86°F) with humidity levels between 40 and 70%.

Environmental conditions	Temperature	Humidity
Operation environment	18° C (64F) to 30°C (86F)	20% to 80%, with no condensation
Printing accuracy warranty range	18°C (64F) to 28°C (82.4F)	40% to 60%, with no condensation
Rate of change	2°C per hour or less	5% per hour or less

### DTG Textile Inks.

The DTG range of printers have eight channels of colour in each of its print heads. Each channel passes ink through the print head by way of 180 very fine (< 0.075 mm diameter) nozzles depending on machine model.

White Ink, 4 colours are replaced with White Ink. White Ink is a water based titanium dioxide / binder / carrier mix. The titanium dioxide is ground into a fine powder and mixed with other binders to allow it to dry and adhere to the pre-treated fabric.

Titanium dioxide is what gives the ink its bright white properties, and this brightness gives the coloured ink layer a vibrant and rich colour.

### White Ink Properties and Maintenance.

Because of the chemical properties of white ink it requires much more maintenance than the colour inks. Titanium dioxide is a mineral and does not dissolve in liquids. This means that the titanium dioxide will, over a period of time, settle to the bottom of the container (being the ink bottles, ink tubes and / or dampers). Once complete, separation of the titanium dioxide from the binders and other components in the ink cannot be reversed!

Your DTG Printer has a ground breaking WIMS system that keeps the ink "moving" in the ink tubes and dampers, however it is recommended that you follow the maintenance routines on a daily basis before and after production begins.

### Maintenance.

It is recommended that you follow the maintenance routines on a daily basis before and after production begins.

### Ink Storage.

Keep the ambient temperature of the Printer inks between 10 & 25 degrees Celcius, Excessive heat will damage the operational efficiency of the ink and the printer.

All DTG Ink and cleaning solutions will provide excellent results when stored and handled properly.

The following storage and handling practices are required to ensure consistent quality and performance of DTG ink.

It is recommended that DTG ink be stored in a clean, dry area, with temperatures regulated between 10 and 25 degrees Celsius .

### Storage & Handling for 2 litre bottles or small containers:

Store the filled bottles in a clean, dry area. Agitate the ink daily using a mechanical roller system or manually roll or gently shake the bottles. Agitate the ink for 30 seconds each day until the ink is fully mixed with no sediment on the bottom of the bottle.

### Safety Instructions for Using the Printer and Handling Ink

- Always keep ink and other consumables out of the reach of children.
- Be careful not to spill ink on your skin or in your eyes. If any ink does get on your skin wash it thoroughly with soap and water. If ink gets in your eyes flush them out immediately with water.
- Do not put your hand in the printer or touch the dampers once printing.
- Do not move the printer head by hand; doing so may damage the printer.
- Store the ink in dark place out of direct sunlight.
- If you store the inks in a cold environment and are ready to use them, bring them to room temperature before you use them.
- Do not lean or place heavy objects on any part of the printer.

### Roller System Information:

Our recommendations for agitation rate and agitation time are based on laboratory testing on mechanical roller agitation system equipment.

Failure to follow the important instructions above, could result in the machine and ink not performing to its optimum level and damage could occur to the machine, ink or ink delivery system including the print head.

