

Versatility. Creativity. Quality.

Experience the best Digital and Screen Printing technologies have to offer with Makki USA's Twister™ direct-to-garment printing systems. Thanks to the patented Intelligent Printing System (IPS), the Twister™ line achieves seamless integration of the two technologies on the proven carousel format the versatility, for virtually unlimited color availability, minimal screen production and full spot color and embellishment capabilities. IPS allows garments to remain in perfect registration while moving from station-to-station while digital printing using textile pigments helps maintain the soft hand of the fabric. Spot colors and special effects, as well as superior white-on-dark preparation for dark-colored garment is easily accomplished via the screening stations. Twister™ series printers are easy to use, with TOPAZRIP™ anyone can learn to load and print in just a few hours. The production process is entirely automated, requiring only a single operator per machine. Whatever your shop's production requirements there is a Twister™ to meet your needs with a choice of two, three or four special effects/spot screening stations and a choice of production speeds ranging from 60+ to 160+ shirts per hour (with the new, dual print head Twister-12). All Makki USA printers are very economical to run, with cost per print ranging between \$0.15 and \$0.19. All Twister™ systems can be customized to the user's needs.

As with all Makki™ direct-to-garment printers the Topaz™ RIP software is included at no extra cost. Inline flash-dryers, heat presses, conveyor ovens and the Easy Flow™ bulk ink system are optionally available.



The all new dual print head Twister 12 minimizes production time.



The Twister 8 accommodates up to two spot colors or special effects.

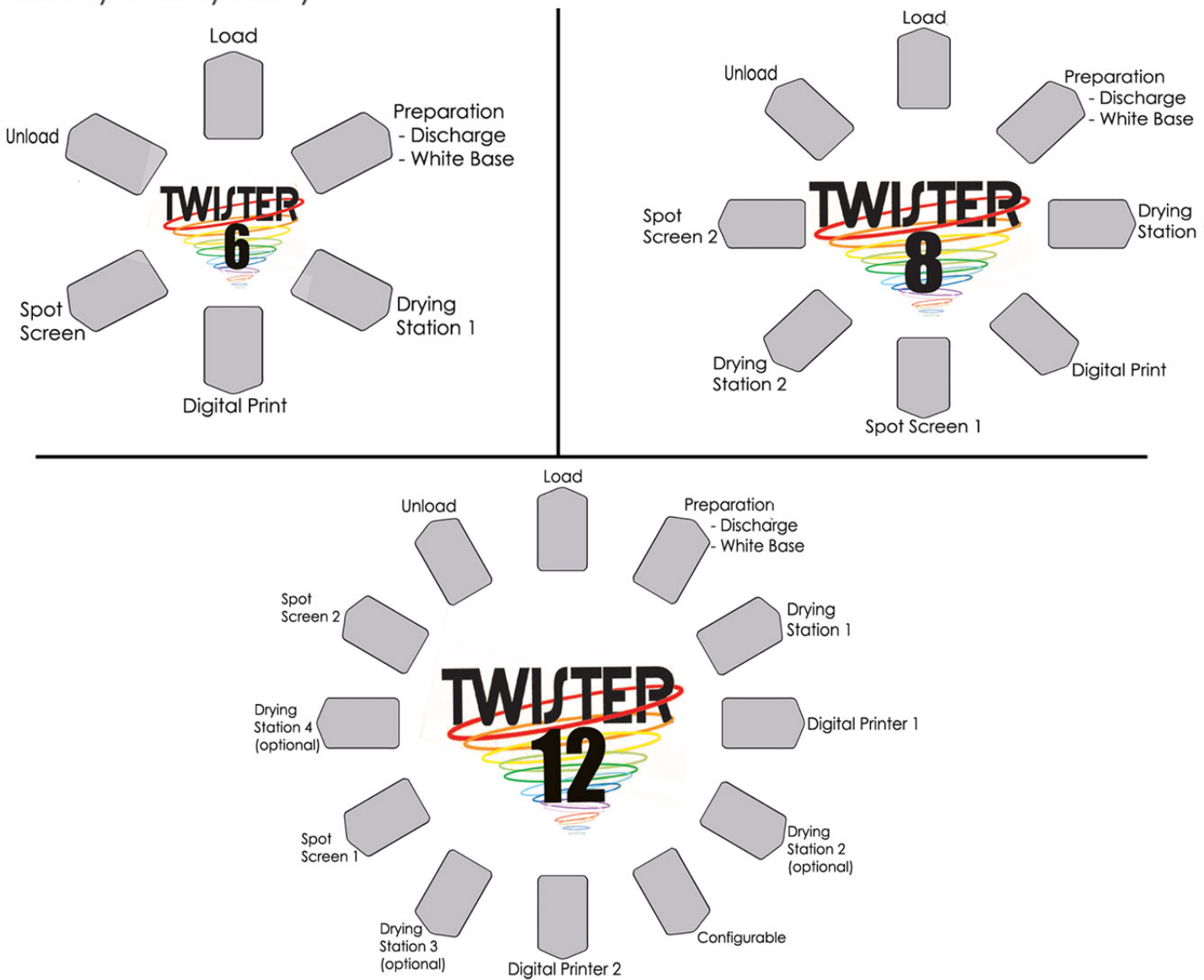


Solving the Problem of Digital Printing on Dark-Colored Garments

Why screening Discharge or White Base is better than printing them on digitally

Process color (as used in digital printing) requires a true-white background for best results. Printing on non-white backgrounds dramatically reduces the gamut of printable colors. To print on dark-colored garments, it is necessary to make the print area as white as possible, either via Discharge or by applying a White Base to cover the original color. As any screen printer knows, there is no problem achieving total coverage with screen printing, this is done routinely. Trying to apply a white cover with a digital printer is another story. Today's print heads use very small nozzles in order to achieve high-resolution printing. This makes use of dense (high-viscosity) printing fluids very difficult and tends to cause print head failures. The use of low-density fluids (with lower pigment content) lessens the coverage capability of the white inks and often makes requires treatment of the print area before printing with great loss of productivity and tangible alteration of the feel (or hand) of the fabric. Using the screening method, Twister offers a choice of discharge (which preserves the soft hand of the underlying fabric) or white base, without pre-treatment, This significantly increase the Twister's production time on dark garments and eliminates costly downtime due to print head failures.

Twister™ Series Workflow Chart / Specs



Features and Specifications of the Makki USA™ Twister Line of Printers

	Twister 6	Twister 8	Twister 12
Digital-on-Dark	✓	✓	✓
Digital-On-Dark Prep Method	Discharge/ White Base	Discharge/ White Base	Discharge/ White Base
Number of Screening Stations	2	3	4
Production Speed (pcs/hr) White/Dark	60/80	80/80	160/160
Operation	Auto	Auto	Auto
Table Dimensions	63" x 35.4"	63" x 35.4"	63" x 35.4"
Topaz RIP	✓	✓	✓
Capacity Thickness	0.5"	0.5"	0.5"
Accessories	Integrated Drying/ Easy Flow™ Bulk Ink System	Integrated Drying/ Easy Flow™ Bulk Ink System	Integrated Drying/ Easy Flow™ Bulk Ink System