

DTF
Description

direct to film printing is a unique technology that involves printing designs onto special films for transfer onto textiles



Direct to Film (DTF) Printing Solutions from STS Inks®

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Midlands Office: Unit 4A-C East Bridgford Business Park, Kneeton Road, East Bridgford, Nottingham, NG13 8PJ



The DTF process



Design

Create your design using your choice of graphic design software (i.e., Photoshop, Illustrator, etc.)



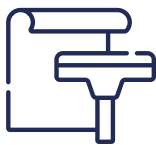
RIP

You'll need a RIP Software to print white on top of colour.



Print

Print your design onto your choice of coated PET film.



Apply

Apply powder adhesive evenly onto the printed film. If performing manually shake off any excess, or if using a powder shaker simply follow unit instructions.



Bake

Melt the adhesive onto the film using a heat press, oven or heated shaker unit. Ensure even heat throughout at a temperature of 300-325 F.



Press

Press your design onto a substrate. Applicable on cotton, polyester, leather, cardboard, and other flat, rough, and rigid materials.

STS-628D-DTF

Direct to Film Printer - DTF Modular System



Print Method	Drop-On Demand, Piezo Drive
# of nozzles / # of heads	(180 x 6 rows) / 1 head
Ink type	DTF
Variable dot	Yes
Minimum droplet size	3.5 pl
Print modes	720/840/360 dpi 12 modes +
Color options	CMYK + 2W + 2 Cleaning
Maximum resolution	1440 dpi
Head height	Low: 12mm / High: 2.5mm
Maximum media width	24.8 inches
Maximum print width	24.4 inches
Heating system	Pre / Post

Media roll diameter / Core	6" maximum / Core 3" or 2"
Stand	Optional
Media Auto Cut	Standard
RIP software	SAJ / White RIP STS - DTF
Power requirements	110/220 Volt
Operating temperature	68°F - 75°F
Operating humidity range	45% - 55%
Dimensions (printer) WxDxH	47" x 17" x 14"
Dimensions (printer with stand)	47" x 23" x 45"
Weight (printer)	Printer 70 lbs / Stand 19 lbs
Weight (shipping info)	Call for quote
Limited warranty	1 Year

At just 24 inches wide, the STS VJ-628D fits into any size print shop. And because it's **powered by STS Inks** you can easily and quickly create custom t-shirts and apparel. This Japanese made compact printer even fits onto a table or optional rolling stand for your use. With a low price point and perfect size, the STS VJ-628D is the best option for anyone entering the custom apparel marketplace.

S.DTF.PRO.24/A

Automatic Adhesive Powder Shaker

After the STS 628D prints your design, our **Automatic TPU Adhesive Powder Shaker** takes over by evenly spreading, then melting the exact amount of adhesive material directly onto your design saving time, effort and cost. Three resources you need to conserve to run a profitable business. Also, with a handy vacuum absorption platform and infrared heat drying, you are assured a smooth result every time.



Having a simple to use touch screen really helps. Just touch the desired option to navigate through the menus and voila, you're ready to go!

Customizable automatic powder recycling feature, increases effectiveness against manual recycling.

Infrared drying and heating improves and protects colour reproduction.

The vacuum absorption conveying platform secures the printing material to avoid bulging, run-offs, and media waste.

Shaker Measurements: 35.4" W / 62.9" L / 45.6" H



O-DTF.13X17 TPU

Curing Oven

STS Curing Oven has a digital control unit that is easy to set and allows precise settings of temperature and time for consistent results. A fusing process is started at the touch of a button. After the set time has elapsed, an acoustic signal sounds alerting you to remove the transfer film.



- ✓ Cures film up to 13 x 19
- ✓ Very small footprint, easy to operate
- ✓ Curing temperature up to 150 C (302 F)
- ✓ Digital timer control of TPU powder curing
- ✓ An Alarm sounds when curing is completed

Power supply: 110 V
Dimension: 23 x 6.6 x 15.7
Power consumption: 1.350 W
Controllable digital timer: 0 - 999 s

DTF-P-1-DTF Transfer Powder

Polyurethane hot-melt adhesive powder has excellent bonding and flexibility properties with STS DTF Inks. It has a softening point of 70-80 µm (particle size). Transfer time is 15-20 seconds at 300 -325 F with low melting point (225 degrees F), sold in 1-gallon bottles (2.02kg).

Physical Properties			
Melting range	Kofler	°C	on: 94 off: 110
Melting point	DSC	°C	94
Melt-flow rate (2.16kg), ± 20%	160 °C	g/10min	15
Density		g/cm ³	1.16
Other Parameters			
Washing resistance		60 °C	
Dry cleaning resistance		good	
Delivery units and Storage conditions			
Conditions	Must be stored dry at room temperatures. High temperatures and pressures can cause blocking. Pallets must not be double stacked. Storage life is 12 months.		
Particle sizes			
	0 – 80 µm		
	80 – 200 µm		



STS-DTF Inks

The STS DTF inks offer a wide colour gamut with high density and outstanding colour saturation, plus great wash fastness. Available in 220ml cartridges and 1 litre bags. See price list for details.



OEKO-TEX®
CONFIDENCE IN TEXTILES
ECO PASSPORT

DTF Cold Film - 75cm

STS Cold/Hot Peel Film is available in sheets and rolls. This double-sided coated film provides better printer roller traction with minimal static allowing for a great printed image without background artifacts.



STS-2713-R - 30 x 100 cm
STS-S727-R - 60 x 100 cm

STS-S726
A4

STS-S728
A3

Sheets are packaged in 100 sheet boxes.

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