

TY-300

NEXT-GENERATION DIRECT-TO-FILM PRINTING

Performance. Productivity. Profits.



The TY-300 is part of Roland DG's full DTF solution, with RIP software, DTF film and powder, and an optional shaker/heater unit for automated DTF transfer production.



TY-300 DTF PRINTER

REVOLUTIONISING DIRECT-TO-FILM PRINTING

OUTSTANDING PRINT QUALITY

OPTIMUM PERFORMANCE

SIMPLE OPERATION



Vibrant, Detailed Prints

- ▶ Create bold, vivid prints with ultra-fine detail for transfer to almost any type of fabric.
- ▶ Exclusive DTF inks optimise print performance and are Oeko-Tex Eco Passport Certified.
- ▶ True Rich Color 3 presets ensure colour vibrancy, neutral grays, smooth gradations, and natural skin tones.



Maximum Productivity

- ▶ Reliable, precise, and efficient for fast performance and minimal downtime.
- ▶ Stable, high-quality printing at speeds that are up to 45% faster than competitive models.
- ▶ Superior ink efficiency and a host of convenience features streamline workflow and increase production.



Easy to Use, & Cost Effective

- ▶ Unmatched ease of use, automatic maintenance features, and low operating costs.
- ▶ Color LCD touch panel and included user-friendly RIP software make operation simple.
- ▶ Automatic printhead cleaning, advanced white ink circulation, and “DIY” part replacement for easy maintenance.



Additional Features

- + The TY-300 printer integrates seamlessly with leading DTF powder/shaker units. Or, you can bundle it with Roland DG’s tested/approved shaker oven (sold separately) which connects to the printer and delivers the highest level of quality, productivity, and performance.
- + Perforated sheet cut saves time and effort by integrating perforations directly into your prints.
- + In addition to the TY-300’s advanced automated maintenance features, manual cleaning has been made easier with a new head nozzle refresher tool that effectively cleans the printhead surface.
- + Access to Roland DG Connect allows you to seamlessly manage your entire print operation from a single app. It provides you with a detailed understanding of your printers while keeping devices running at peak performance, reducing downtime, and maximising efficiency.



RDTF800 SHAKER OVEN

AUTOMATE YOUR DIRECT-TO-FILM WORKFLOW

Performance & Productivity

- ▶ The RDTF800 is Roland DG’s recommended shaker, designed to perfectly complement the TY-300’s high-speed output.
- ▶ Achieve fast powder application and curing speeds with productivity of up to 25m²/hr. The TY-300 supports standard production at 10.9m²/hr and high-speed output at 17.5m²/hr, giving users confidence and consistency.
- ▶ An integrated printer and shaker jig alignment system ensures both units remain parallel for smooth media handling and consistently accurate print runs.

Usability & Features

- ▶ An intelligent powder control system automatically dispenses more powder when levels are low, reducing manual checks and interruptions.
- ▶ Dual powder collection trays support longer, uninterrupted operation and improved efficiency.
- ▶ A multi-language LCD interface (supporting English, Japanese, Chinese, Korean, Spanish, French, and Portuguese) makes operation simple and accessible for diverse teams.

Safety, Compliance & Support

- ▶ A built-in HEPA fume air filter effectively removes smoke and oil from the work environment, promoting a cleaner, safer workspace.
- ▶ Fully compliant with major international standards, including CE (Europe), UL (USA), and PSE (Japan), ensuring reliable operation that meets global safety requirements.
- ▶ Includes a one-year manufacturer’s warranty for added peace of mind.

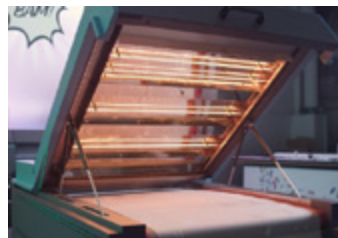
Film Heater Platen Pre-heating



Powder bin and hopper



Film heater platen and heater elements



Film cooling fan and Take-up Winder unit



Direct-to-Film Workflow

- ▶ The design is printed onto transfer film using the TY-300 printer
- ▶ The printed film is fed through a pre-heater plate into the shaker unit
- ▶ Adhesive powder is applied, excess powder is removed and recycled using dual collection trays
- ▶ The film is heated on a plate to melt and bond the powder to the print
- ▶ The solidified film is cooled with an exit fan and rolled onto the take-up unit
- ▶ The process is now complete and the film is ready for use

TY-300

Printing method		Piezo ink-jet method
Dimensions		2,032 mm × 748 mm × 1,415 mm (80 in. x 29.5 in. x 55.8 in.)
Weight		135 kg (298 lb.)
Media	Width	182 to 762 mm (7.2 to 30 in.)
	Thickness	Max. 1.0 mm (39.3 mil) with liner for printing, Max. 0.4 mm (15.7 mil) with liner and 0.22mm (8.6 mil) without liner for cutting
	Roll outer diameter	Max. 250 mm (9.84 in.)
	Roll weight	Max. 30 kg (66.1 lb.)
	Core diameter	76.2 mm (3 in.) or 50.8mm (2 in.)
Ink	Type	S-PG2 INK 500 ml cartridge
	Colours	Five colours (cyan, magenta, yellow, black, and white) (2 cartridges)
Printing width		Max. 736 mm (28.9 in.)
Resolution		Max. 1,200 dpi
Connectivity		Ethernet (100BASE-TX/1000BASE-T, automatic switching)
Power-saving function		Automatic sleep feature
Rated input		100-120 / 220-240 Vac 50/60 Hz 6.4/3.0 A
Power consumption	During operation	Approx. 840 W
	Sleep mode	Approx. 70 W
Acoustic noise level	During operation	63 dB (A) or less
	During standby	58 dB (A) or less
Environment	During operation	20 to 28°C (68 to 82.4°F), Humidity: 40 to 60% RH (no condensation)
	Not operating	5 to 40 °C (41 to 104°F) , Humidity: 20 to 80 % RH (no condensation)
Included items		Dedicated stand, Power cord, Media holders, Separating knife, Replacement blade, Cleaning liquid, Drain bottle, User's Manual, Software, (VersaWorks, Roland DG Connect), etc.

RDTFS800

Working Environment	Power ON (Operating State)	18- 30 ° C, 24 ° C Recommended. Humidity 30%- 70%, 50% Recommended.
	Standby mode	400W
	Power consumption (Operating State)	4000W
	Power consumption (standby state)	4000W
	Electrical Requirements	AC200- 240v @ 50/ 60Hz, Current = 16A x 1 (Single Phase)
Product Size	Length* Width* Height	Length: 1930mm* Width: 1160mm* Height : 1010mm
	Weight	382kg
Package Size	Length* Width* Height	Length 1990 mm* Width 1360 mm*Height 1270 mm
	Weight	476kg
Consumables		HEPA Filter: # 3000000003, Carbon Filter : # 3000000002
Maximum feeding speed		>30m2/hr
Media rewinder	Maximum media weight	100kg
	Maximum media diameter	200mm
Safe design		Emergency stop button open, media and powder sensors.
Filter/smoke exhaust function		Built-in filter element , user- replaceable, lifespan is about 6 months. Embedded HEPA, user replaceable = ~6- 12 months life depending on use.
Language Support		English, Japanese, Chinese, Korean, Spanish, French and Portuguese as standard. Extra Language @ USD\$285 each one off cost .
Certification		CE, UL ,PSE