

RDTFS800 POWDER SHAKER

Installation and User Manual



Thank you very much for purchasing this product.

- It is important to read through this manual to completely to fully understand all aspects before installation or use.
- Contents of this manual are subject to change without prior notice.
- Some illustrations in this manual might be slightly different from the machine.
- Unauthorized copying or transferal, in whole or in part of this manual is prohibited.
- The specifications of this product and the contents of this operation manual are subject to change without notice.
- The operation manual and the product have been prepared and tested as much as possible.
If you find any misprints or errors, please inform us.
- The distributor assumes no responsibility for any direct or indirect loss or damage that may occur through use of this product, regardless of any failure to perform on the part of this product.
- The distributor assumes no responsibility for any direct or indirect loss or damage that may occur with respect to any article made using this product.
- The distributor shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the manufacturer with your products.
- For best output quality, the distributor recommends that you use genuine consumables and parts from the distributor.

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1. Product Introduction

Welcome to the RDTFS800 User Operation Guide.

The RDTFS800 is a high-performance Powder Shaker Curing unit optimized for use with Roland DG high performance TY-300 DTF Printing solution.

Please ensure you read this manual so you fully understand all aspects of installation, operation and maintenance.

Ensure the environmental conditions are within specification for best machine operation and output results. Temperature and humidity will make a significant impact on your production consistency and results.

Please contact Roland DG to obtain the latest version of this manual via local website or service and support departments.

We recommend using Roland DG Media or Roland DG Recommended Media and Powders with this product for best and repeatable results.

1.1 Features and benefits.

- Optimised for use with Roland DG TY-300 DTF Printer.
- High speed powder application and curing to match TY-300 Production print speeds of 10.9 to 22.9m²/hr.
- Compact unit with low power consumption compared to many competing products.
- Additional insulation to heat faster, maintain heat, lower power consumption and provide consistent heat.
- Stable, consistent and repeatable performance from use of higher quality components.
- Dual heating arrays for heating over and under media for best performance.
- Large pre-heater tray to improve performance at higher print speeds.
- Dual Vertical Powder collection trays so the machine can stay in production whilst powder is recycled.
- Integrated HEPA and Charcoal filtration system to limit smoke and fumes from the heating/curing process.
- Easy to maintain and replace consumable items.
- Wide range of language support and global certification compliance.

1.2 Inclusions and Consumables.

Included with RDTFS800 in packing crate.

- Waste Oil Tray
- Power Connection cable (Connected to Shaker)

RDTFS800 Consumables items.

- | | |
|--------------------------|-----------------------|
| • HEPA Filter | Part Code : 300000003 |
| • Carbon Filter | Part Code : 300000002 |
| • Metal Filter | Part Code : 400000045 |
| • Top heating Element | Part Code : 301060132 |
| • Bottom heating Element | Part Code : 301060140 |

Managing Media and Powder Consumables.

We recommend using Roland DG Branded and recommended Medias and Powder for stable operation and best repeatable results.

Please store all consumables in a cool and dark environment within the specifications of that product.

Exposure to temperature, humidity and moisture outside of the recommended storage and use specifications can cause consumables to perform at a sub-standard level and can affect everything from machine operation and maintenance to poor production application results.

Allow consumables to acclimatise correctly to the operating environment if they have been stored in a different and out of specification environment. This could take 1 to 5 or more hours depending on the product and environmental change. Doing this will help give you the best results.

Consumables such as Powder are especially sensitive to air and moisture. Please store them in an air-tight container that is free of moisture when they are not in active use for best results. Consider using moisture absorbent pads. Powder should be used within two weeks of opening for best results.

Using old Powder or Powder that has been exposed to excess moisture can cause maintenance issues as well as poor application transfer and durability.

Please dispose of any waste products in a safe manner for the operators and that will confirm to your local safety laws and regulations.

1.3 Specifications.

Parameter		RDTFS800 - 800mm Shaker
Working Environment	Power ON (Operating State)	18-30°C 64-86°F with recommended 24°C 75°F Humidity 30%-70% - 50% Recommended.
	Standby mode	400W
	Power consumption (Operating State)	4000W
	Electrical Requirements	AC200-240v @ 50/60Hz. Current = 16A x 1 (Single Phase)
Product Size	Length x Width x Height	Length: 2,090mm x Width: 1,120mm x Height: 1,026mm Length: 82.3" x Width: 44" x Height: 40.4"
	Weight	430kg or 948lbs.
Package Size	Length x Width x Height	Length 2,230 mm x Width 1,310 mm x Height 1,150 mm Length: 87.8" x Width: 51.6" x Height: 45.3"
	Weight	530kgs or 1,168lbs
Media Support Width		Up to 762mm - 30" - 800mm wide media path,
Accessories		None
Consumables		HEPA Filter : #300000003 Carbon Filter : #300000002
Maximum feeding speed		>30m ² /hr or >300ft ²
Media rewinder	Maximum media weight	100kg - 220lbs
	Maximum media diameter	200mm - 8" roll diameter
Safety design		Emergency stop button, open cover, media and powder sensors.
Filter/smoke exhaust function		Built-in filter element, user-replaceable, lifespan is up to 6 months. Embedded HEPA, user replaceable = ~3-6 months life depending on use.
Language Support		English, Japanese, Spanish, French, Portuguese, Korean, Chinese English, Spanish, French, Portuguese, Italian, German, Polish
Certification		CE (UL, RoHS, Reach, CMA, CNAS under final evaluation)

2. Safety Instructions.

This Chapter introduces the important safety information.

Please read and understand the safety information carefully before installing, maintaining or operating the machine.

2.1 Safety Information.



**This caution symbol represents danger.
If this sign is ignored it may lead to serious injury or damage to the machine.**



Danger of the Fire and Explosion.

- Open flames, heat energy or sparks around the machine could trigger fire and explosion.
- No smoking. pilot lights, open flames, stoves, heaters or halogen lights should be used or operated within a 5.0 metre distance from any edge of the machine.
- No portable spark-producing equipment (static, electrical or mechanical) should be installed or operated within a 5.0 metre distance from any edge of the machine.



Ventilation and Exhaust System for operator health and safety.

- The vacuum exhaust system must be functioning before the machine operates.
- Do not ignore this safety warning sign to avoid accumulation of flammable fumes in the area.
- Ensure maintenance procedures for cleaning and filters are actively performance and maintained.



High Voltage may shock people or trigger a fire.

- Do not connect the machine to mains power supply if there is no emergency power switch which can shut down all system power.
- Ensure the electrical connection cable is safe and always maintained. Do not allow damage, bending, stretching or modification to the cable and seek qualified help if any damage is detected.
- Ensure electrical power supply confirms to the specifications of the device.
- When the machine's power is ON, do not open access doors and avoid touching electrical parts.
- The machine must be connected and grounded according to local safety electrical connection regulations. The ground voltage should be less than 3V.
- Set the machine on smooth ceramic tile or ceramic ground.
- Use specified anti-static floor mat to minimize harmful static build-up.
- Ensure the product is installed in a dry environment, away from water and other liquids, including cleaning liquids.
- Do not use the machine when it is exhibiting problems such as smoke or unpleasant smells.
Stop the machine immediately as continued use of the machine could result in fire or electric shock.
 - Be sure to turn off the power switch immediately and detach the plug from the outlet.
 - Make sure that the machine no longer produces smoke and contact your local distributor for repair.
- Repair by customers is dangerous - only qualified and certified service personal should perform repair work on this equipment.
- Never disassemble or modify this machine. Disassembling or modifying either could result in electric shock or malfunction of this machine and will void the warranty.
- Keep fingers and other body parts away from hazardous moving parts.

3. Installation

3.1 Installation Preparation.

This section is to help you prepare for the installation of your RDTFS800 Powder Shaker.

Customers are recommended to prepare the room and other necessary devices before the machines arrival and installation. We have made every effort to guarantee the accuracy and integrity of the information in this guide.

Parameter	Specification
Environment	18-30°C 64-86°F with recommended 24°C 75°F
Operating State	Humidity 30%-70% with 50% Recommended.
Power Consumption (Operating)	4000W
Power Supply	AC 200-240v @ 50/60Hz, Current = 16A x 1 (Single Phase)
Dimensions	Length: 2090mm x Width: 1120mm x Height: 1026mm Length: 82.3" x Width: 44" x Height: 40.4"
Weight	430 kg or 948 lbs



Power Supply.

- Install the machine near an easily accessible electrical outlet.
- Do not provide power to the machine through the same power line as for other noise generating devices such as motors.
- Connect the power cable directly to dedicated electrical outlet.
Do not plug several devices into one electrical outlet.
- Ensure the plug connection is secure and tight fitting and installed so it cannot be damaged.



The machine should be grounded, according to the local safety electrical regulation.

- The grounding should be less than 3V.
- Use specified anti-static floor matting to minimize the harmful static buildup.



Use ESD Ground Strap when handling any Electric Boards to avoid any electric static discharge that may damage internal electrical components.

- Do not open the cover where electrical spare parts are located to avoid possible electrical shock.

Machine Handling.

- Do not place anything on the top of the machine.
- Do not lean body against or rest elbows on the machine.
- Open and close the top cover gently from the front of the machine with both hands.
- Before connecting or disconnecting the interface connector, turn the machine OFF.

Locations where the machine must not be installed.

- Near a fire or flame systems.
- Where it can be exposed to direct sunlight.
- Subject to vibration.
- Subject to extreme changes in temperature or humidity - near an air conditioner or heaters.
- Where the machine may get wet.
- Near a diazo copier that may generate ammonia gas.
- With poor ventilation.
- With unstable or uneven flooring or substructure.
- Where there is excessive dust or airborne debris in the environment.

3.2 Unload space and requirements.

Unload Space:

- The space must be two times of the creates size for the unload and unpack process.

Unload equipment:

- Forklift is required.
- Bearing capacity referring to the weight of the machine.
- The length of the fork must be 15cm longer than the width of the box.

Installation Space:

- There must be sufficient clear space around the machine for the replacement of the frequently used parts.
- Ensure the area is safe for personal to move around whilst the installation operation and forklifts are in use.

3.3 Unpacking the create.

Machine comes in wooden crate.

- Unpack the top and sides of crate
- Place 4 x wooden/metal blacks under the wheels to lift the machine from the base.
- Lift the machine from the gap between machine and base. Place in install space.



A



B



C



- Move the RDTFS800 to the location where it is to be used.
- Lock the wheels in place when in final position.

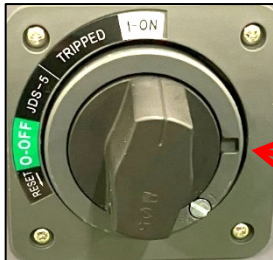
3.4 Electrical Connection.

The machine comes with a pre-installed mains electrical cable that can be connected to the mains power receptacle point.



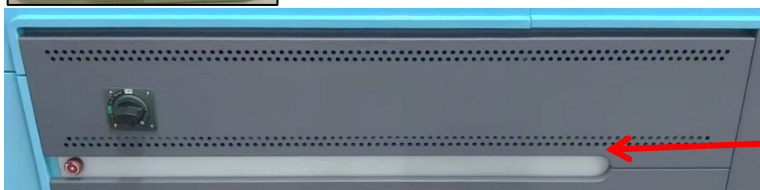
Please check the connections to unit with the following instructions and then connect the correct local power plug to the power cable.

- Always confirm to local regulations and laws for electrical connectivity and use licenced and certified contractors.
- Ensure electrical power connection is off at the power point and on the machine itself before performing any electrical work.

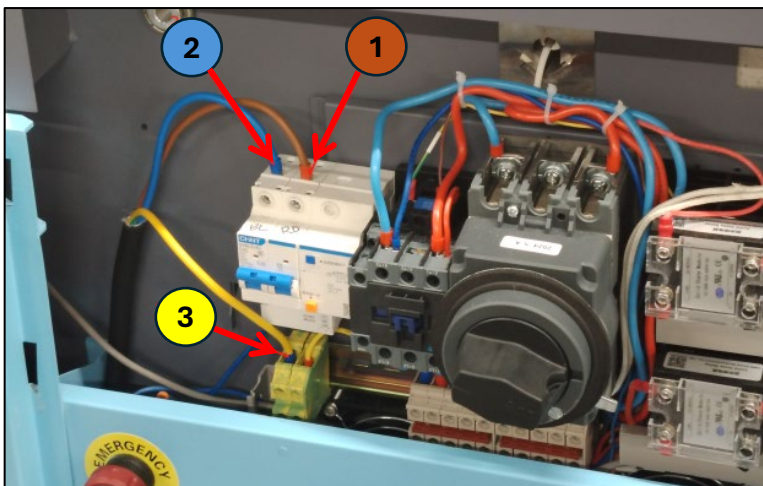


Ensure electrical power connection is off on the machine itself before performing any electrical work.

Note: The door will not open unless the Switch is in the OFF position due to lock.



Lift up here to open access panel door



Check connections.

1 AC200-240 V+

2 AC200-240 V-

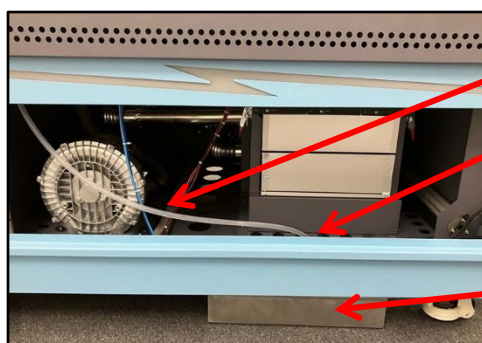
3 GROUND .

**The machine must be well grounded.
The grounding should be less than 3V.**

3.5 Oil collection tray installation

You will need to place the oil collection tray under the shaker unit.

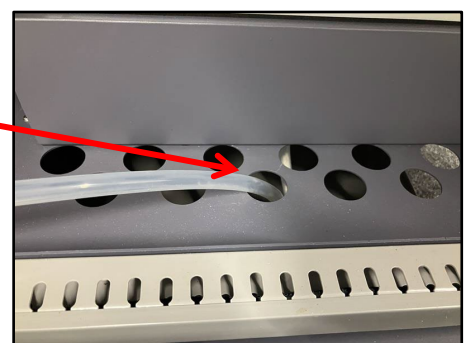
Waste oil byproducts from the process and filtration will drain into the tray unit that is placed under the unit.



Waste oil drain tubes.

Waste oil drain outlet.

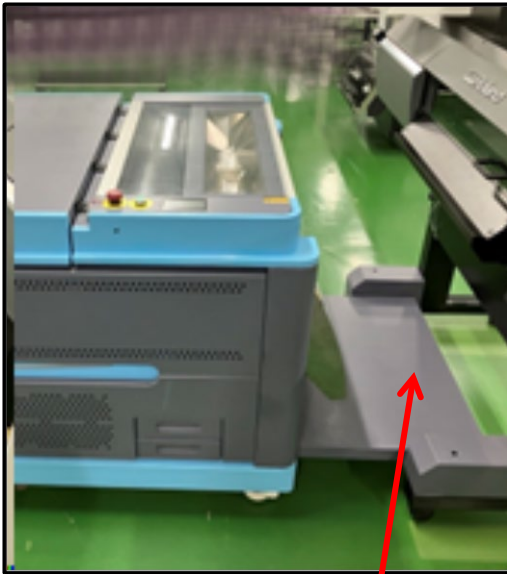
Oil collection tray.



3.6 Installing TY-300 Alignment Jig.

It is very important that you get the Printer aligned correctly to the RDTFS800 Shaker for accurate printed film media flow through the powder/heat process and onto the Media Take-Up Winder.

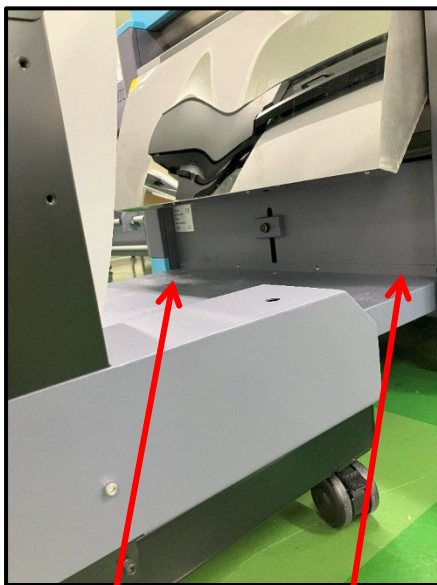
1. Place the RDTFS800 Shaker in the final location then place printer in front.
2. Use the supplied metal alignment jig to connect the alignment jig to the printer and Shaker.
3. Ensure you use all screws to connect the jig to the printer at the sides of the legs.
4. Ensure you use all screws to connect the jig to the front of the Shaker.
5. See photos above and inspect for final configuration, making sure they are even/parallel aligned.



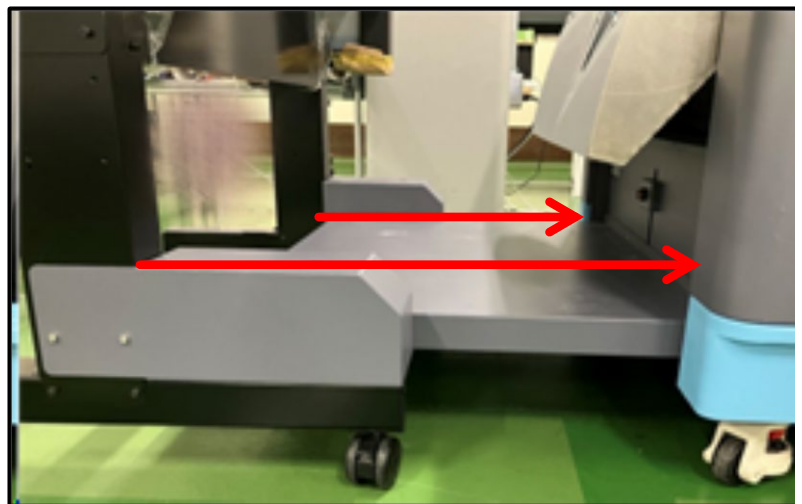
2. Alignment Jig.



3. Fix to Printer.



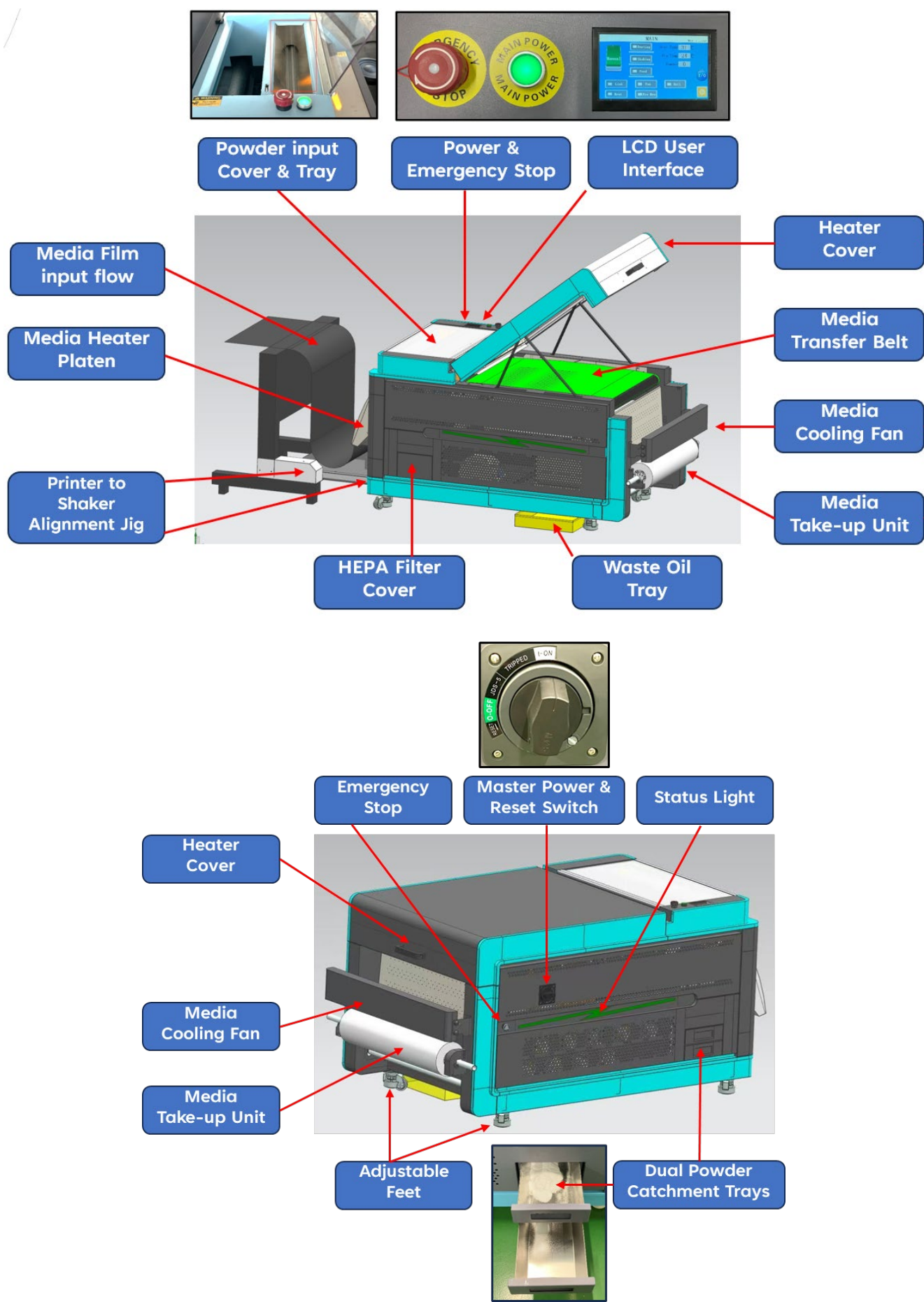
4. Fix to Shaker.

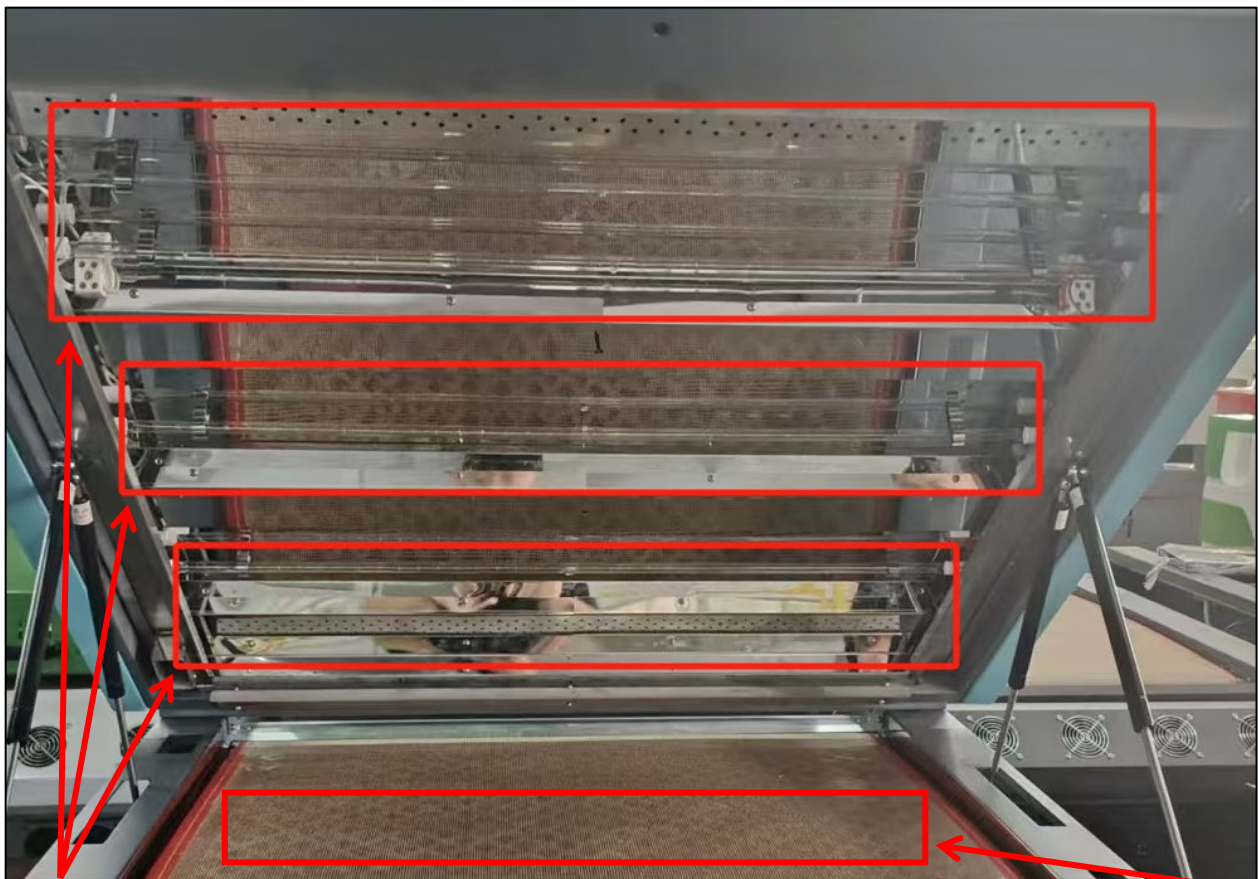


5. Inspect and check for parallel.

We recommend that you test at least 20 linear meters of print through the system to ensure the system is aligned correctly. Please make fine adjustments and change for parallel if not.

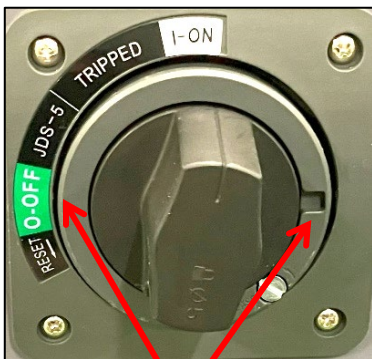
4. Product overview and function.



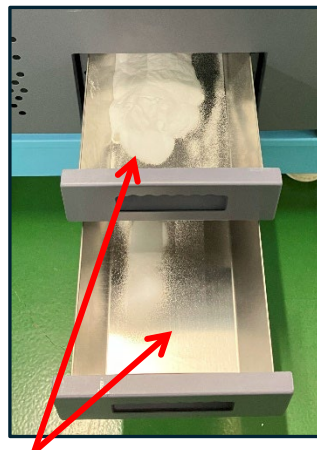


Top heating lamps.

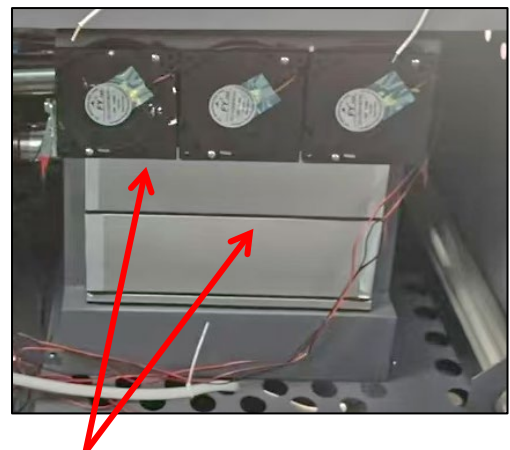
Bottom heating lamps underneath.



Master Power & Reset Switch.
Has Lock-Out Function so the door panel will only open if the switch is in the OFF position.



Dual Powder Collection Trays.
Allows production to continue while recycling.



High efficiency Filter Trays.
Air particulate filter – extracts the smoke, fumes and oil produced during working process.



(1) Intelligent powder control system.
Powder spray will stop the motor working when the powder reaches a low weight.

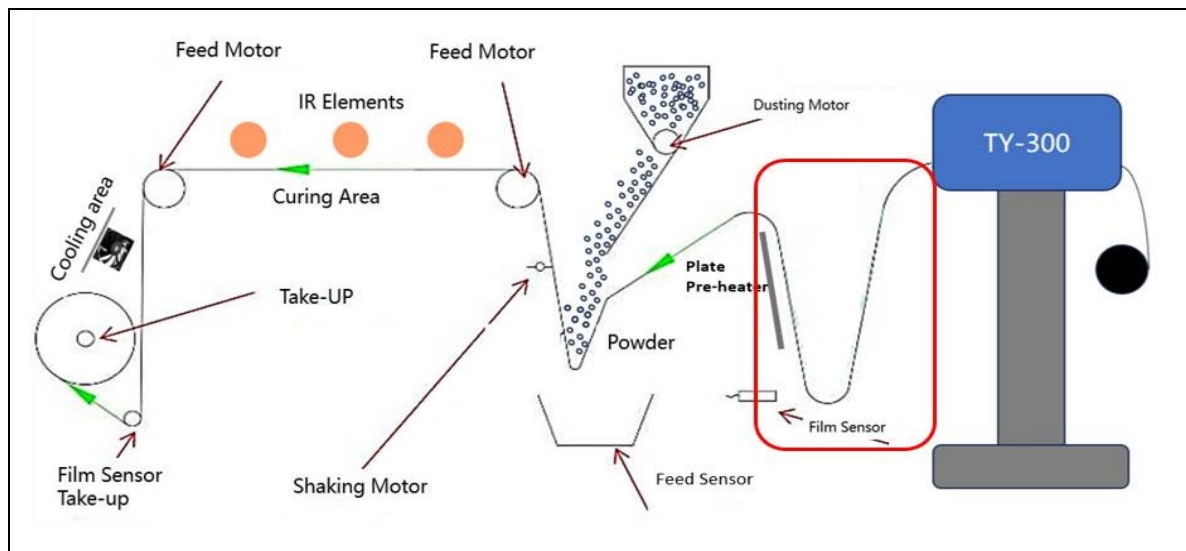
(2) Powder shaker bar.

(3) Rear feeding cylinder with vacuum.

5. Basic Operation.

Below is an overview of the media path through the Shaker machine.

Please load the media according to the diagram below.

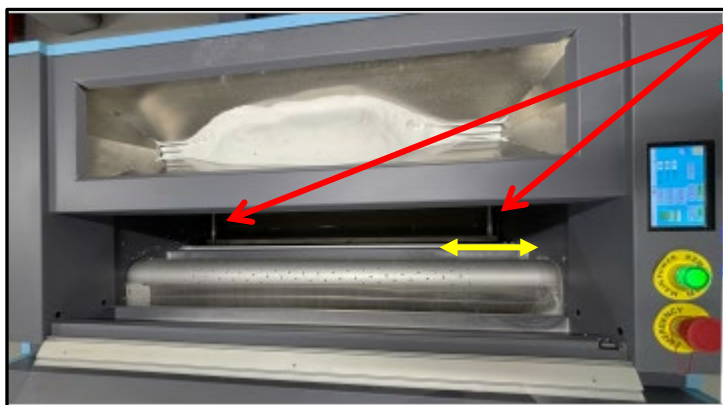


Once the printer has printed enough film to cover the front preheating board and the film extensions to the first of two vacuum cylinders – please ensure that the media transfer film is aligned correctly to inhibit any skew that may be present as the media passes through the heating tunnel and onto the take-up reel.

When the film is placed correctly to the first vacuum cylinder the shaker suction system should be in the ON position. See following section on user interface.

From this point the film will now be controlled by both the vacuum and mesh belt system through the heating tunnel.

It is important to notice that when placing the film under the powder hopper for the first time that there is enough slack is provided to allow powder to fill at the bottom and then be shaken off as the film moves back up through the belt system.



Check that the alignment of the media support rails at the bottom of the hopper evenly support the media as it comes down and then returns up past the shaking motor.

The rails can be moved Left and Right to cater for different media widths to ensure the paper stays flat and even.

This will allow the powder to evenly flow over the media and prevent media curl at the bottom.

After finishing the current print job, cut the last part of PET film and enter the print linkage mode.

The film will then be automatically wound by the take-up to complete the printing process. Please monitor the take-up winding system to ensure the media is installed correctly and starting to run straight (parallel).

Check the Powder Collection Drawers daily to recycle the use of the powder and keep powder fresh.

Ensure you store the powder in a sealed (air-tight) and dry container when the machine is not in use as moisture will affect the powder negatively and can cause maintenance issues as well as poor application results. Consider using moisture absorbent pads for best results.

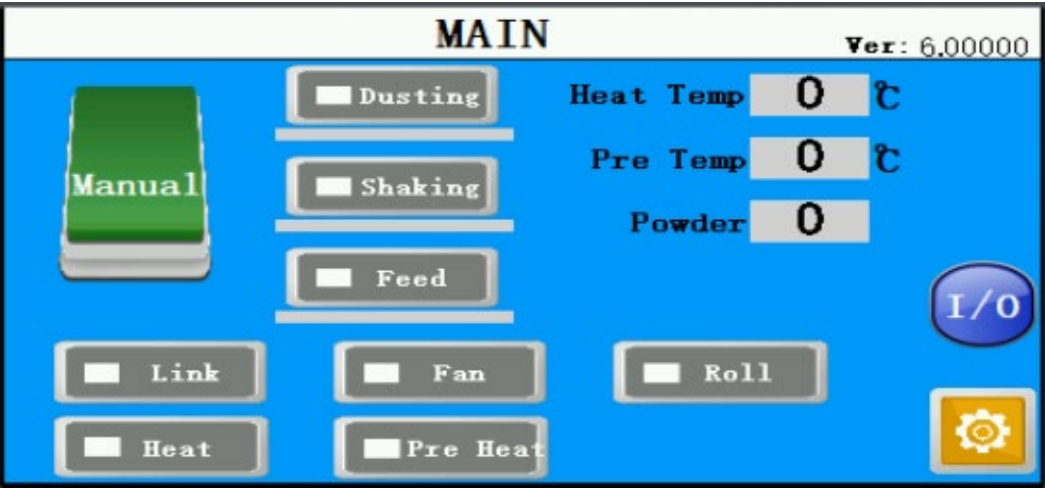
Please make sure you read, understand and implement the recommendations outlined in the maintenance section.

5.1 User Interface Menu

LANGUAGE MENU [Please choose your language (May vary by region)]



MAIN MENU [Format may vary by region or update]



5.3:
I/O Troubleshooting.

5.2:
Parameters.

FUNCTION	TYPE	DESCRIPTION
Manual	Button	Change between MANUAL and AUTOMATIC modes. (Automatic means simultaneously Dusting, Shaking, Feed, Fan, Roll)
Dusting	Button	Manually move powder.
Shaking	Button	Manually Shake Film to remove powder.
Feed	Button	Manually feed film forward.
Fan	Button	Manually turn Fan ON/OFF for suction to help fix and move film.
Roll	Button	Manually Start Roll Winding motor.
Heat	Button	Manually turn ON main heater.
Pre- heat	Button	Manually turn ON Pre-heater – Helps to remove moisture from printed media prior to curing process for better results.
Link	Button	When there is no material, it needs to work in linkage mode. (Not limited by feed sensor and powder weight sensor)
Heat Temp	Display	Display current Heater temperature.
Pre-Temp	Display	Display current Pre-Heating plate temperature.
Powder	Display	Display current Powder Weight.

5.2 Parameter Setting.



Para Set
Sample Message

Dusting Strength 999

Shaking Strength 999

Feed Speed 999

Roll Interval 999

Heat Temp 999 °C

Pre Temp 999 °C

Feed Sensor Para

Value 8888

Set Up 8888

Set Down 8888

Roll Sensor Para

Value 8888

Set Up 8888

Set Down 8888

I/O
Home

FUNCTION	TYPE	DESCRIPTION
Dusting Strength	Parameter	Speed setting (0-100).
Shaking Strength	Parameter	Speed setting (0-100).
Feed Speed	Parameter	Speed setting (0-100).
Roll Interval	Parameter	Speed setting (0-100).
Heat Temp	Parameter	Heater Temperature set (0-150).
Pre Temp	Parameter	Pre-Heater Temperature set (0-100).
Feed Sensor Parameter Value	Display	Displays the current position of the powder weight sensor.
Feed Sensor Para UP	Display Button	Upper limit setting value of powder weight sensor. (Set by SET button)
Feed Sensor Para Down	Display Button	Lower limit setting value of powder weight sensor. (Set by SET button)
Roll Sensor Para Value	Display	Current position of the unwinding sensor read value.
Roll Sensor Pare UP	Display Button	Upper limit of winding sensor. (Set by SET button)
Roll Sensor Pare Down	Display Button	Lower limit setting of winding sensor. (Set by the SET Button)

5.3 Troubleshooting – I/O.



FUNCTION	TYPE	DESCRIPTION
Film In	<i>Display</i>	Material sensor status. Gray = No material detected. Red = Material detected and present.
Film Collect	<i>Display</i>	Winding Angle position display. Confirming the winding motor is working. (Only effective if the winding motor has started)
Bepowder	<i>Display</i>	Powder weight sensor position display. Confirming the powder motor is working. (Only effective if the dusting motor has started)
Shaking Powder	<i>Display</i>	Dusting power status. Gray = OFF. Red = ON (Working).
Belt	<i>Display</i>	Feeding and mesh belt motor status. Gray = OFF. Red = ON (Working).
Pre Heat	<i>Display</i>	Pre-heater status. Gray = OFF. Red = ON (Working).
Fan	<i>Display</i>	Suction fan status Gray = OFF. Red = ON (Working).
Link	<i>Display</i>	
Dry Powder	<i>Display</i>	Powder heater status. Gray = OFF. Red = ON (Working).
Roll	<i>Display</i>	Winding motor status. Gray = OFF. Red = ON (Working).
Dusting	<i>Display</i>	Dusting motor status. Gray = OFF. Red = ON (Working).
Drying	<i>Display</i>	Lid Heating status. Gray = OFF. Red = ON (Working).
Heat	<i>Display</i>	Platform heating status Gray = OFF. Red = ON (Working).

6. Shaker Settings for TY-300 operation.

These are the optimised settings for production modes.

Please refer to this table to help match your TY-300 and RDTFS800 Shaker Solution to get the best results.

Remember to maintain the correct environmental conditions for best performance and stable results.

Please note that these settings are optimised for Roland DG original consumables. Changing any combination of ink, powder or film could affect these settings and they may need to be changed to suit the users new combination.

Ensuring you perform regular maintenance will help keep system performance and stability at its best.

PRINT MODES		PRINT SPEEDS			SHAKER PARAMETRES					
Resolution (DPI)	Pass	m2/h	ft2/hr	LM/h	Pre-Heater Temperature. (Setting/Display)	Heater Temperature (Setting/Display)	Feed Speed	Dusting Strength	Shaking Strength	Roll Speed
1200 x 1200	8	4.9	52.7	6.4	70/60	150/125	20	40	50	10
900 x 1200	6	8.3	88.9	10.9	70/60	150/125	30	40	50	10
600 x 1200	6	10.9	117.3	14.3	70/60	150/125	40	40	50	10
900 x 600	4	12.3	132.7	16.2	70/60	150/125	50	40	50	10
600 x 600	4	17.5	188.1	23.0	70/60	150/125	70	40	50	10
600 x 600	3	22.9	246.8	30.2	70/60	150/125	90	40	50	10

CONDITION	
Profile	Generic Film Dark
Data	
Data size	200mm x 200mm
Powder	S-POWDER
Film	S-F328-30

Recommended environmental operating state for Printer.	18-28°C 64-82°F with recommended 24°C 75°F
	Humidity 30%-70% with 50% Recommended.

7. Maintenance.

The DTF workflow process is a complicated process involving chemicals, heat and by-products.

It is very important that you understand and implement the recommendations and steps outlined in this section.

It is normal for surface oil and condensation to be produced and will appear on parts of the Shaker unit as part of the process. The amount of cleaning required will vary depending on multiple factors.

1. The amount of use.
 - a. Heavy users of the system will need to perform cleaning checks on daily basis as they will generate more by-products and use filters and consumables faster than in low production environments.
2. Different combinations of ink, media and powders.
 - a. Different combinations of ink, medias (Films, papers etc) and brands of powder will produce different results when being processed by the shaker.
 - b. Different combinations may require different machine settings with regards to temperature, speed etc.
 - c. These different combinations can produce amounts of byproducts and will need different amounts of cleaning and maintenance to be performed.
3. The operating environment.
 - a. As mentioned previously, the operating environment for DTF is very important.
 - b. If the environment is not correct and stable, this can have an effect on the performance and the amount of cleaning and maintenance required to be performed by the user.

The RDTFS800 will need to be checked and cleaned on a regular basis – as a minimum we recommend daily inspections of key parts of the product, especially for heavy users of the system.

The appearance of smoke in or around the RDTFS800 Shaker.

The heat and chemical process involved through the shaker process can create smoke as a by-product. The RDTFS800 has an inbuilt filtration system to process these byproducts and should remove most of the smoke under normal operating and maintenance conditions.

If smoke starts to appear in or around the RDTFS800, please perform an immediate maintenance check of the system with focus on the filtration and confirm all filters are clean and operable. Please clean or replace as necessary.

Please contact your dealer or Roland DG if smoke continues to appear after you perform maintenance.

There are some key areas of focus for maintenance.

1. Management of glycol and condensation.
2. Checking and changing of filters.
3. Maintenance of Powder System.
4. Oil draining system.
5. Heating Lamps.

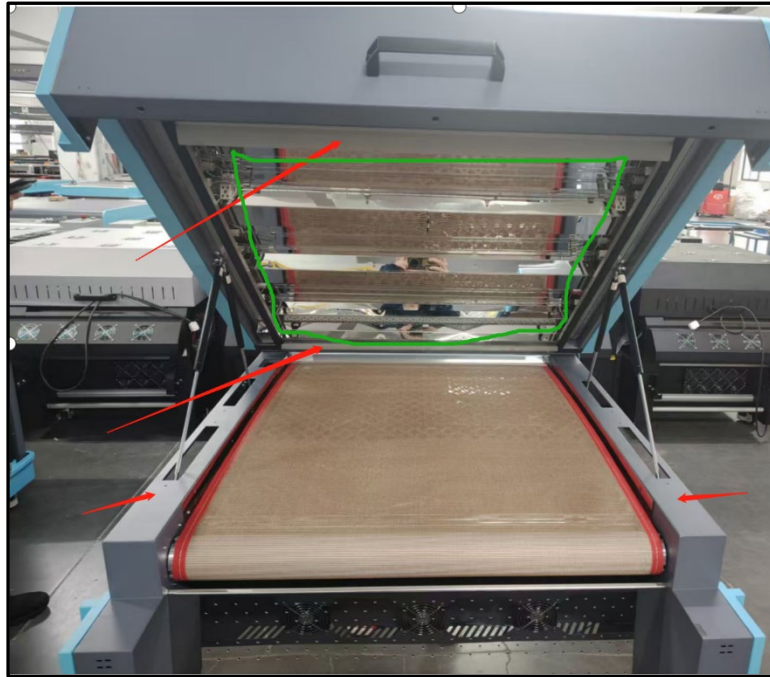
7.1 Management of glycol and condensation.

It is normal for surface oil and condensation to be produced and will appear on parts of the Shaker unit as part of the process in all DTF solutions and applications.

Do not let the oil stains or liquid dry and remain uncleaned on the surface as they will rapidly harden and become very hard to clean. They will appear yellow or rust-like in colour if they have been there uncleaned for a period of time.

We recommend **daily inspections** of the system, especially for medium to heavy DTF producers.

Checking and cleaning the oven



Please check all surface areas of the shaker – paying extra attention to the areas highlighted above.



Care must be always taken as these areas can be extremely hot from operation and can cause burns if the operator is not careful. We strongly recommend using heat proof gloves to help for protection and to let the system cool down before any manual processes.

The best process is to perform this check at the end of each working day.

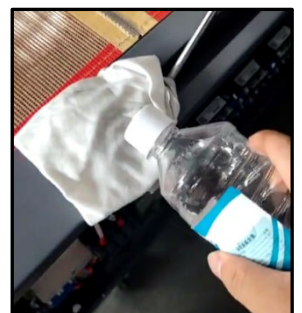
We recommend leaving the heating system on for 15 minutes without processing any media to help to remove excess moisture and oil condensation prior to cleaning.

Once completed, allow the system to cool down before performing manual inspection and cleaning.

A dust free cleaning cloth can be used to wipe any remaining surface liquids or residues from the internal and side surfaces. You can also use an industrial cleaning alcohol if there is excess build up or your cleaning cloth is struggling in some areas.

Please check and clean all stainless-steel surfaces and the grey side chassis areas - including any side channels.

Please regularly check the inside and wash your hands after any cleaning process and dispose of any used cleaning items appropriately.



7.2 Checking and changing of filters.

All filter elements are consumables and will need to be replaced at certain intervals based on use (operational hours). They need to be maintained and replaced to ensure they remove smoke and other by-products of the Shaker process as outlined earlier in the manual.

Failure to maintain or replace will cause smoke to appear and if not corrected can and will damage the product and even release smoke into the air around the machine which is dangerous for operators and people in the vicinity.

There are three internal filters inside the RDTFS800 Shaker System.

1. Metal filter.
2. HEPA Filter.
3. Activated Carbon Filter.

1. Metal Filter

[Part number : 400000045]

The first Metal needs to be manually cleaned and washed to extend its lifespan and maximise performance.

This is the first filter used by the system and needs to be checked on a regular basis. If this filter becomes blocked it will not allow fumes to pass onto the following two filters for filtration and processing. When this happens, smoke can start to appear in or around the Shaker and is a sign that it should be inspected and cleaned immediately.

We recommend checking twice per week for all users. Users performing heavier production of 4+ hours per day are recommended to check the Metal Filter daily and clean when needed.

The metal filter can be washed under a tap as per the image to the right.

Please make sure the filter is completely dry before re-installing and being used again for production. An air-compressor gun can be used to accelerate the drying process. This is an ideal process to perform at the end of the day or use a second filter to alternate.

We recommend that this filter should be changed in line with Activated Carbon and HEPA filters below – up to 300/400 hours of operation.

2. Activated Carbon Filter

[Part number : 300000002]

3. HEPA Filter

[Part number : 300000003]

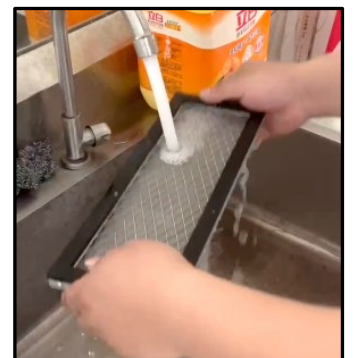
The Carbon Charcoal filter and HEPA filter are the next two filtration stages after the initial Metal filter.

These will last up to 300/400 hours of operation under normal conditions. Changes in consumables or environment can reduce their intended lifespan and heavy users should inspect regularly and will need to change on a more regular basis.

Both filters are a single-use-item and they cannot be cleaned, refreshed or washed. You will see a discoloration on the surface of the filter items and performance of the filtration will degrade.

Please check and replace when these are observed or before the approximate 300/400 hours of operational filtration life.

It is recommended that users hold at least one of each item in stock for replacement when needed.

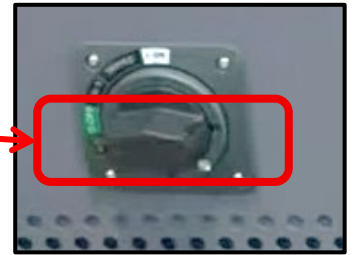


Checking, cleaning and replacing filters.

Please follow the steps below to gain access to the filtration system.

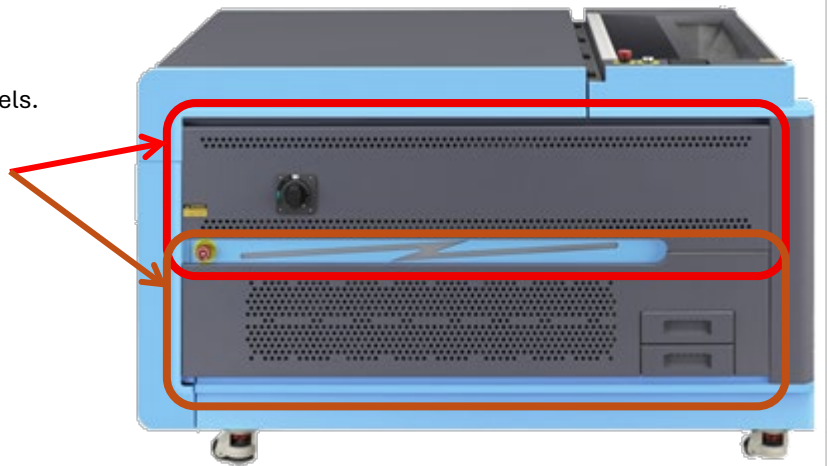
1. Ensure power is turned OFF at main power-switch.

- a. This will cut power to the machine to make it safe to open the side access panels.
- b. You will not be able to open the side access panels if the power switch is NOT in the OFF position.



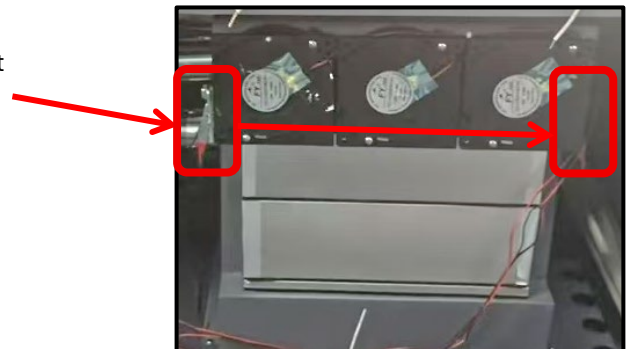
2. Open both of the side panel access panels.

- a. Lift each panel up to remove.



3. Remove top Fan Unit to gain access to the three filters below.

- a. You will need to unclip the two side latches that hold the Fan Unit on top of the filters.
- b. Remove the Fan Unit and place it to the side of the filters.
- c. Take care with the cables connected to the fan unit.



4. Please check and maintain the three filters as necessary, replace when needed.
5. Please check the Fan Unit to ensure that it is clean and free of debris or any build-up of by-product.
 - a. You can use the same dust free cloth and cleaning liquid used to clean the chassis for this process.
6. Please re-assemble the Filter and Fan Unit and ensure you re-latch the Fan Unit back on correctly.
7. Please re-attached the two side covers.
8. You can now power the RDTFS800 back on from the main power switch and check for normal operation.

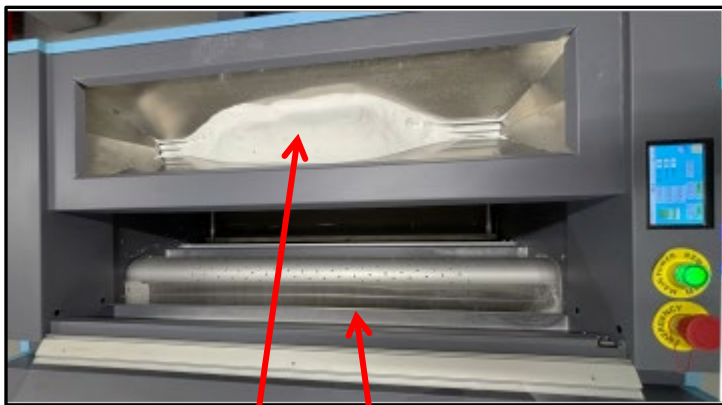
7.3 Maintenance of Powder System.

Check the status of the powder collection drawers daily and recycle the powder for re-use.

Remember that powder is easily affected and contaminated by moisture to please ensure you handle and store it correctly. Users can consider using measures to reduce humidity in storage such as Desiccants or Silica Gel.

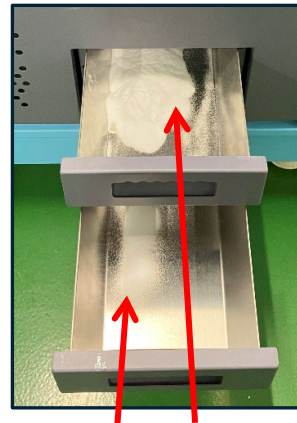
Please clean excess powder and wipe down and remove any excess powder that is outside the normal powder containing or processing areas. Be careful about re-using powder this powder as it may not be clean and if used with contaminants can affect the performance and quality of your final output.

Empty the recycle powder trays and remove all the powder dust for a deep clean every month, more if users are heavy production users to help keep the system in best condition.



Powder Tray

Powder Shaking Bay



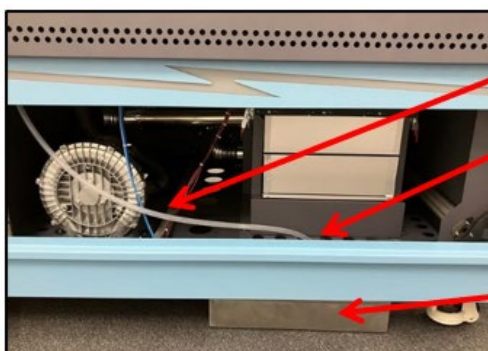
Dual powder collection draws

7.4 Oil draining system.

Over time, by-product oil will drain out of the Shaker system. This will end up in the Oil Waste Tray that sits underneath the Shaker, near the filtration location.

We recommend checking the tray every 2-3 days and check that waste oil is able to drain.

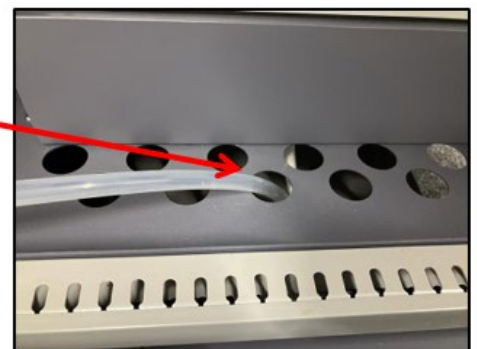
This should be performed as a minimum of every week, again, heavier users should perform more regularly.



Waste oil drain tubes.

Waste oil drain outlet.

Oil collection tray.



7.5 Heating Lamps.

There are two types of heating lamps used in the RDTFS800 Shakers to suit the upper (lid) level and the underside of the feeding belt.

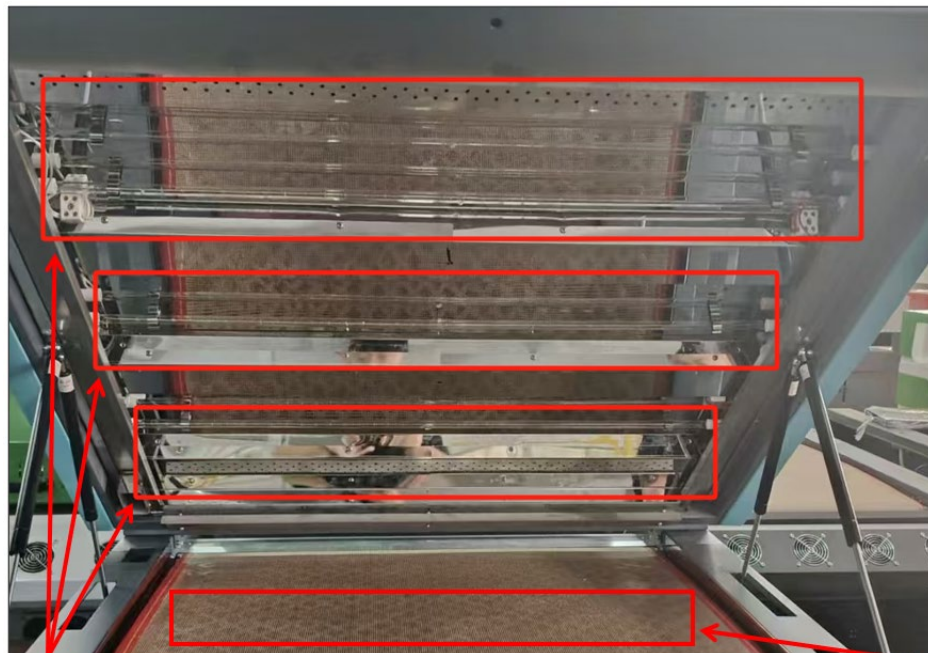
Heating lamps are rated for approximately 12 months use, however this will depend on use so for heavier users they may only last 6-8 months.

Regularly check the condition of the Heating Lamps to ensure best performance so that heating temperatures do not drop down and cause quality of output issues in your production.

As the lamps start to reach end of life, their visual brightness will reduce, and they will become a darker or dull colour.

Lamps will usually get to the end of their life at about the same time and are fragile to handle, so please be careful in the transport, storage and handling of them at all times.

- *Top heating Element* [Part Number: 301060132]
- *Bottom heating Element* [Part Number: 301060140]



Top heating lamps.

Bottom heating lamps underneath.

Managing Media and Powder Consumables.

We recommend using Roland DG Branded and recommended Medias and Powder for stable operation and best repeatable results.

Please store all consumables in a cool and dark environment within the specifications of that product.

Exposure to temperature, humidity and moisture outside of the recommended storage and use specifications can cause consumables to perform at a sub-standard level and can affect everything from machine operation and maintenance to poor production application results.

Allow consumables to acclimatise correctly to the operating environment if they have been stored in a different and out of specification environment. This could take 1 to 5 or more hours depending on the product and environmental change. Doing this will help give you the best results.

Consumables such as Powder are especially sensitive to air and moisture. Please store them in an air-tight container that is free of moisture when they are not in active use for best results. Consider using moisture absorbent pads. Powder should be used within two weeks of opening for best results.

Using old Powder or Powder that has been exposed to excess moisture can cause maintenance issues as well as poor application transfer and durability.

Please dispose of any waste products in a safe manner for the operators and that will confirm to your local safety laws and regulations.

8. Registrations and Compliance.


True Safety Testing

Certificate Of Compliance

Certificate No. : TST20241105124EC
Applicant : Nanjing Enjoy Print Digital Technology Co.,Ltd
No. 6, Zhongxing East Road, Lishui District, Nanjing, China
Manufacturer : Nanjing Enjoy Print Digital Technology Co.,Ltd
No. 6, Zhongxing East Road, Lishui District, Nanjing, China
Sample Name : powder shaking machine
Main Model : Y3011P
YXP6018, YXP6018Pro, Y3011P, Y4011P, Y1224F, Y8018P, Y6085P, Ep-4050D, RL8018,
RL5011, IN6028, Y4211, Y6018, Y6018P, RDIFS500, Y6085, Y8085, RDIFS800,
Y5011ROLAND, Y8018P-UL, MR8028, Y6024, IN6028, RL8018, Y6028, Y5011, MR8024
Series Models :
Test Standard : IEC 62321-1:2013
IEC 62321-3-1:2013
IEC 62321-4:2013/AMD1:2017
IEC 62321-5:2013
IEC 62321-6:2015
IEC 62321-7-1:2015
IEC 62321-7-2:2017
IEC 62321-8:2017
As shown in the Test Report No. : TST20241105124E

The EUT described above has been consolidated by us and found in compliance with the council RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU.
The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report Number TST20241105124E.

 **RoHS**  
Certification Manager
Date: Nov.21, 2024

Dongguan True Safety Testing Co., Ltd.
Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
Tel: +86-0769-85088050 4001086960 E-mail: ts@tst-test.com http://www.tst-test.com

UL Certification coming in 2025.

RoHS, REACH, CN and CVS coming end 2024

CE documents will be updated to signed and final versions.

EC DECLARATION OF CONFORMITY

THIS IS HEREBY DECLARED THAT FOLLOWING DESIGNATED PRODUCT COMPLIED WITH THE ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF MACHINERY DIRECTIVE (MD)2006/42/EC & ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (EMC) 2014/30/EU ON THE APPROXIMATION OF THE LAWS OF THE MEMBER STATES RELATING TO IT.

Manufacturer:
Nanjing Enjoy Print Digital Technology Co., Ltd.
No. 6, Zhongxing East Road, Lishui District, Nanjing, China

Authorized representative established within the EU:
Company Name: Rotand DG EMEA NV.
Company Address: Belf Telephonelaan 2G, 2440 Geet, BELGIUM.

Product Description:
Product name: Powder Shaker
Model: RDIFS800 RDIFS500

The product has been assessed by the application of the following standards:
EN ISO 12100:2010, EN 60204-1:2018
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019
EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021

THIS DECLARATION APPLIES TO ALL SPECIMENS MANUFACTURED IDENTICAL TO THE MODEL SUBMITTED FOR TESTING / EVALUATION. ASSESSMENT OF COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS RELATING TO SAFETY STANDARDS LISTED ABOVE WAS PERFORMED BY MANUFACTURE.

 **SIGNATURE:** 
TITLE: _____
PLACE: _____
Date: 2024.11.8 

 扫描全能王
王能全扫描


**MACHINERY DIRECTIVE,
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE
ATTESTATION OF CONFORMITY**

Technical file of the company mentioned below has been inspected and audit has been completed successfully.
2006/42/EC Machinery Directive has been and 2014/30/EU Electromagnetic Compatibility has been taken as references for these processes.
Company Name : Nanjing Enjoy Print Digital Technology Co., Ltd.

Company Address : No. 6, Zhongxing East Road, Lishui District, Nanjing, China

Related Directives and Annex : 2006/42/EC Machinery Directive / Annex VIII
2014/30/EU Electromagnetic Compatibility Directive / Annex II

Related Standards : EN ISO 12100:2010, EN 60204-1:2018, EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019, EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021

Product Name : Powder Shaker

Report No and Date : MD-TCF-241107-63842, TEJS24110763843

Product Brand/Model/Type : RDIFS800 RDIFS500

Certificate Number : M.2024.204.C109624
Initial Assessment Date : 13.11.2024
Registration Date : 14.11.2024
Reissue Date/No : -
Expiry Date : 13.11.2029


UDM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.
General Manager

The validity of the certificate can be checked through www.udm.com.tr. Upon completion of EC declaration of conformity, it is used solely at the manufacturer's responsibility. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be notified in case of any changes on the product(s).
Address: Mülkiyeli Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya Ankara - TÜRKİYE
Phone: +90 0312 443 03 90
E-mail: info@udem.com.tr www.udem.com.tr


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