User Manual

Lumen S24F



DTF STATION

www.dtfstationglobal.com

BEFORE YOU BEGIN

INSTALLATION & SETUP GUIDE

Thank you for purchasing this product.

To ensure correct and safe operation of the system and to fully understand its features, requirements, and limitations, please read this manual completely before installing, configuring, or operating the equipment.

1. To ensure correct and safe operation of this product and to fully understand its performance, please read this manual completely.

2. Reproduction or transfer of this manual in whole or in part without permission is prohibited.

3. The specifications of this product and the contents of this operation manual are subject to change without prior notice.

4. The operation manual and the product have been prepared and tested as thoroughly as possible. If you identify any misprints, errors, or unclear information, please contact your authorized representative for clarification.

5. The manufacturer shall not be liable for any direct or indirect loss or damage arising from the use of this product, regardless of any performance failure of this product.

6. The manufacturer assumes no liability for any direct or indirect loss or damage resulting from items, materials, or output produced using this product.

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1. Pre-Installation Check

1.1 Pre-Installation Check

The following documentation is provided with this machine:

PRINTED DOCUMENTS

DOCUMENT	DESCRIPTION
Accessories List	Identifies supplied accessories, including items, fasteners, and related components.
Stand Assembly Guide (this document)	Provides instructions and safety precautions for assembling the support stand.
User's Manual	Detailed explanation of machine functions, operating procedures, and important operational considerations.
Safety Instructions	Contains mandatory safety information that must be observed when using the machine.

1.2 Installation and Placement

Installation and placement of this machine must be performed by trained and qualified personnel.

WARNING
Transportation, unloading, and installation must be carried out by trained and qualified personnel only. Proper handling requires appropriate equipment and technical expertise. Failure to use suitable equipment or qualified personnel may result in serious injury or major accidents.

1.3 Installation Location Precautions

Install the machine in a stable, vibration-free environment suitable for reliable operation. Installing the machine in an unsuitable location may result in accidents, fire hazards, operational malfunction, or equipment damage.

WARNING
Install the machine on a level, stable surface capable of supporting its full weight. The total weight of the machine may reach the specified threshold or more. Failure to install the machine on an appropriate surface may result in serious accidents, including tipping, falling, or structural collapse.

WARNING
Install the machine so that the power plug remains easily accessible at all times. In the event of an emergency, the power plug must be disconnected quickly. Position the machine near a suitable power outlet and maintain sufficient clearance to access it immediately.

WARNING
Install the machine in a clean, well-lit environment suitable for safe operation. Working in a dark, obstructed, or cluttered area may result in accidents, including tripping hazards or becoming caught in moving components.

WARNING
Do not install the machine near flammable materials or in areas where combustible gases may be present. Failure to comply may result in fire or explosion.

WARNING
Ensure that the work area is adequately ventilated. Insufficient ventilation may result in health hazards or increased fire risk due to the accumulation of ink vapors.

UNSUITABLE INSTALLATION LOCATIONS

1. Areas subject to significant temperature or humidity fluctuations
2. Locations exposed to vibration or mechanical shock
3. Sloped, uneven, or structurally unstable flooring
4. Dusty or contaminated environments
5. Areas exposed to direct sunlight
6. Locations near air conditioners, heaters, or other heat sources
7. Areas exposed to water, moisture, or strong airflow
8. Locations subject to electrical noise, magnetic interference, or electromagnetic disturbance

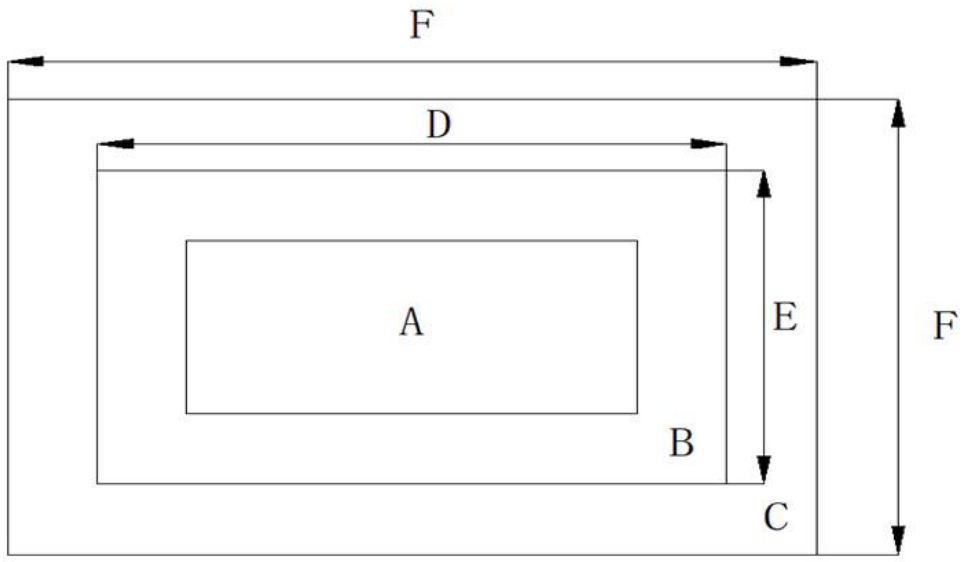
1.4 Temperature and Humidity

Maintain the specified temperature and humidity conditions at all times, even when the machine is not in operation; otherwise, equipment malfunctions may occur.

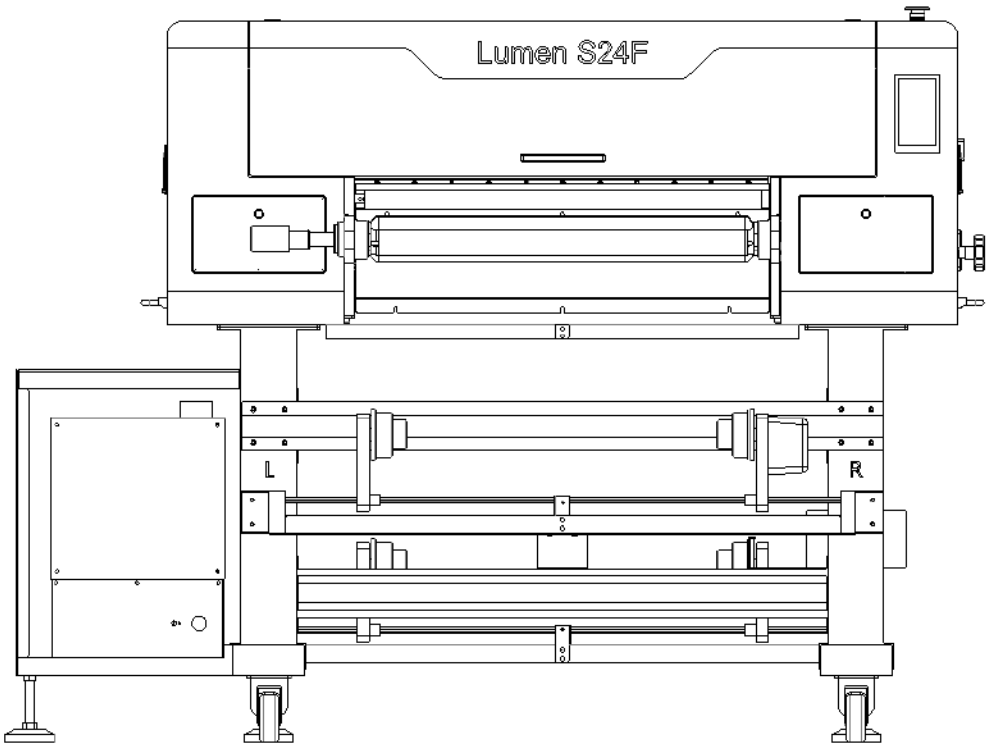
CONDITION	TEMPERATURE	HUMIDITY
During Operation	15 to 30°C (59 to 86°F)	35 to 65% RH (no condensation)
When Not in Operation	5 to 40°C (41 to 104°F)	20 to 80% RH (no condensation)

1.5 Installation and Working Space

The space dimensions shown below are required for installing and operating this machine.



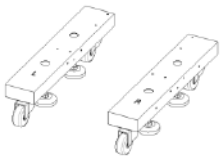
REFERENCE	DIMENSION	VALUE
A: Equipment Size	Length	1568mm
	Width	905mm
	Height	1178mm
B: Recommended Installation Space	Length	2568mm
	Width	1905mm
C: Recommended Operating Space	Length	3506mm
	Width	2905mm



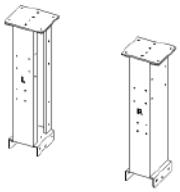
ITEM	SPECIFICATION
Print Width	60cm (24")
Printer Head	pson i1600-U1 + Epson i3200-U1HD
Printing Speed	Approx. 0.5 m²/h (5.4 ft²/h), subject to final production testing.
Heating Function	Front Heating Roller
Platform Suction	Adjustable Suction Power
UV Lamp	Air-Cooled UV Lamp
Weight	167 kg (368.2 lb)
Dimension	156.8 × 90.5 × 117.8 cm (61.7" × 35.6" × 46.4")
Power Requirement	1KW / 220V

2. Checking the Supplied Items

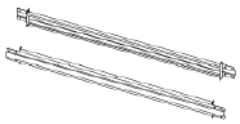
STAND COMPONENTS



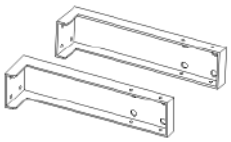
Support Leg Base



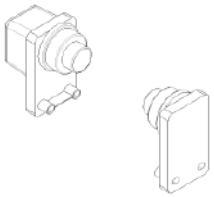
Support Leg



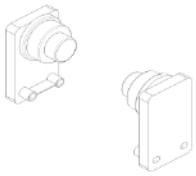
Support Leg Reinforcement Platex2



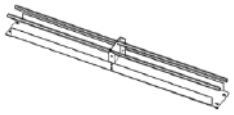
Take-Up Reel Bracket x2



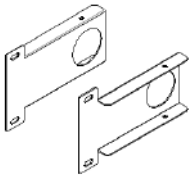
Single-Motor Take-Up Unit



Non-Motor Media Holder



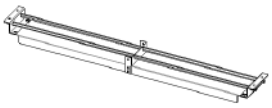
Rear Take-Up Reel Bar Reinforcement Plate



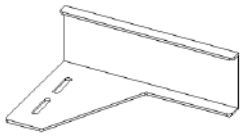
Film Tension Bar Fixing Plate x2



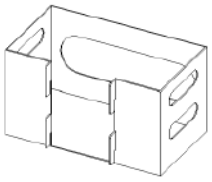
Film Tension Bar



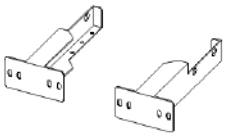
Rear Take-Up Reel Bracket Reinforcement Plate



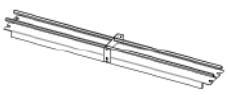
Center Positioning Plate



Waste Ink Bottle Holder



Film Take-Up Bracket x2



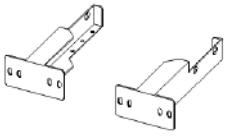
Front Take-Up Reel Bar Reinforcement Plate



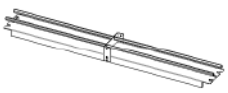
Air Purifier Holder Reinforcement Plate 1



Air Purifier Holder Reinforcement Plate 2



Film Take-Up Bracket x2



Front Take-Up Reel Bar Reinforcement Plate

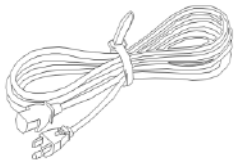
ACCESSORIES BOX



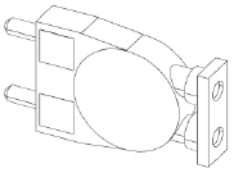
USB Drive



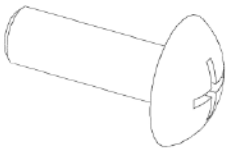
Print Head Cable



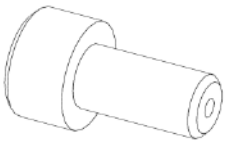
Power Cord



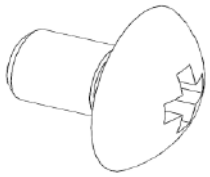
Damper



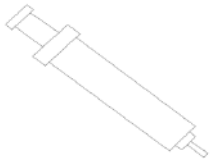
Flat Head Screw M3 x10



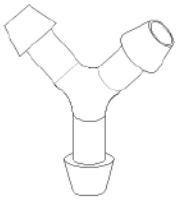
Hex Socket Screw 5 x10



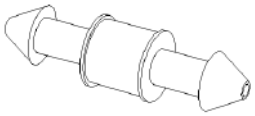
Large Flat Head Screw 4 x6



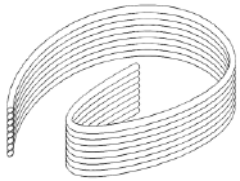
Syringe



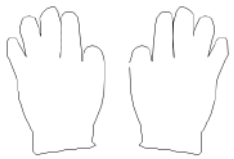
Ink Connector-Y-Shape



Ink Connector-Straight



Ink Tube



Gloves



Safety Goggles



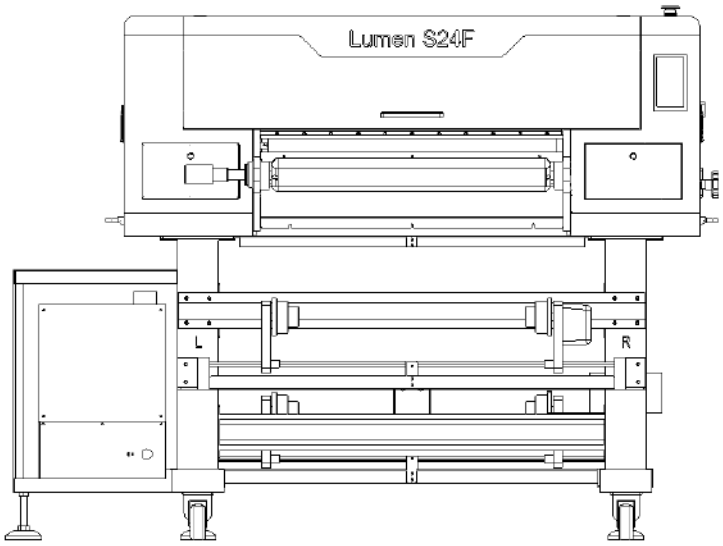
N95 Mask

3. Assembly and Ink Filling

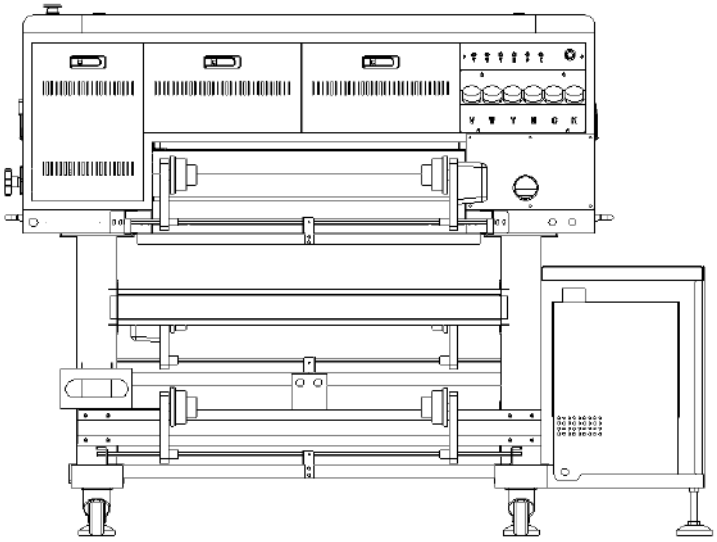
Pre-Assembly Checkt.

> ⚠ **WARNING**
>
> Unloading and installation must be performed by 2 to 4 or more people. These tasks require coordinated effort by all personnel. If the machine or components are dropped, serious personal injury may result.

Front



Rear

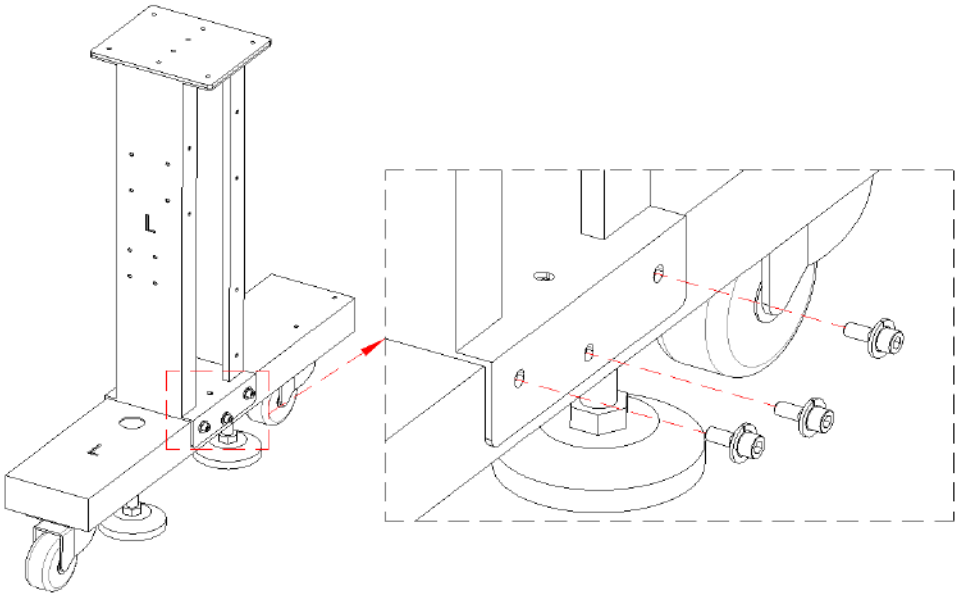


Step 1: Stand Assembly

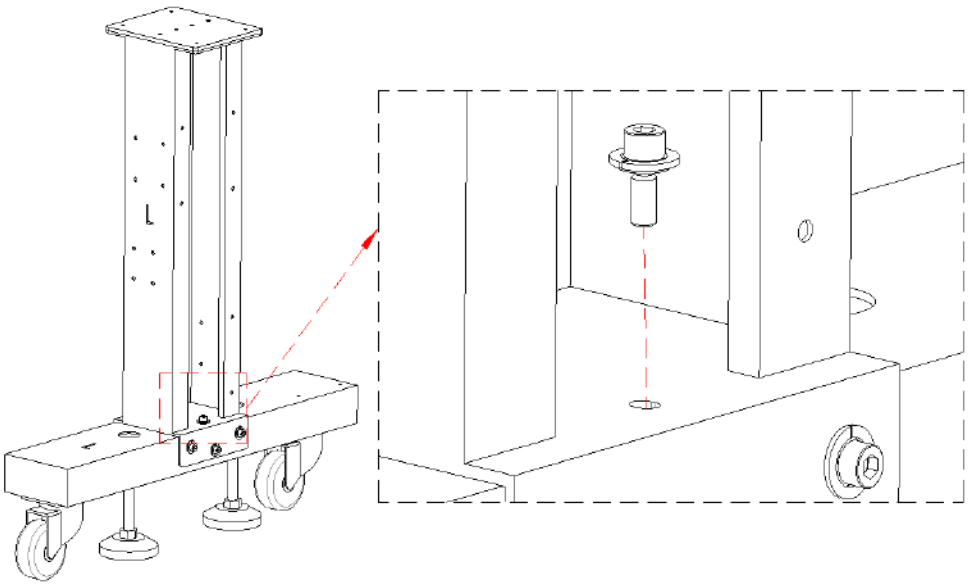
Procedure:

1. INSTALLING THE SUPPORT LEGS

- Align the support leg with the base holes and secure it using M6×16 hex socket screws. Ensure the left support leg is installed on the left base, keeping the letter "L" on the same side. (Note: Do not fully tighten the screws at this stage)



- Secure the inner holes of the support leg using M6 X 16 Hex socket screws, the tighten all screws fully.

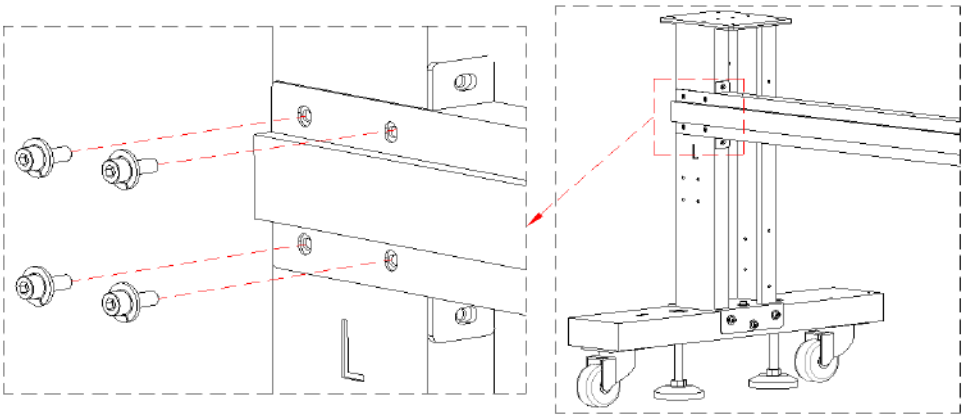


2. INSTALLING THE RIGHT SUPPORT LEG

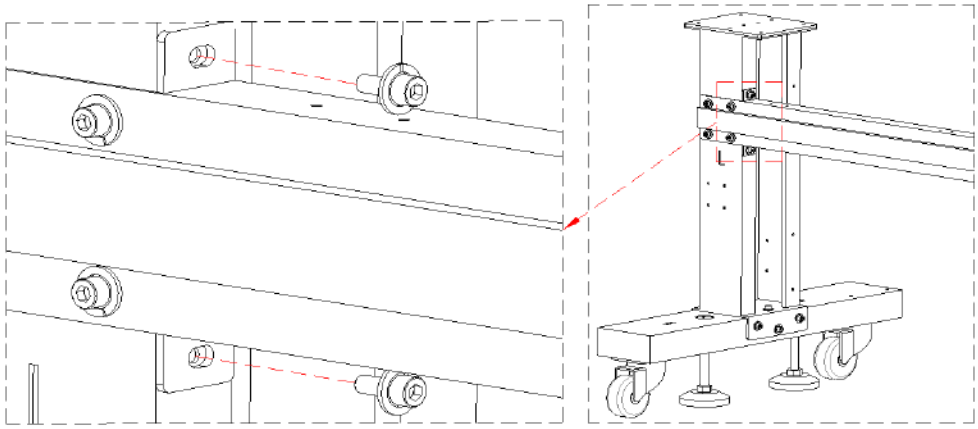
- Repeat Step 1 to install the right support leg.

3. INSTALLING THE SUPPORT LEG REINFORCEMENT PLATE

- Secure the support leg reinforcement plate using M6×16 hex socket screws. (do not fully tighten yet)



- Secure the side of the plate with M6×16 hex socket screws and tighten all screws fully.
- Make sure the side of the reinforcement plate is parallel to the support leg.
- Ensure the reinforcement plate is fully flush with the support leg with no gaps.
- Any gap may affect the installation of the printer body afterward.

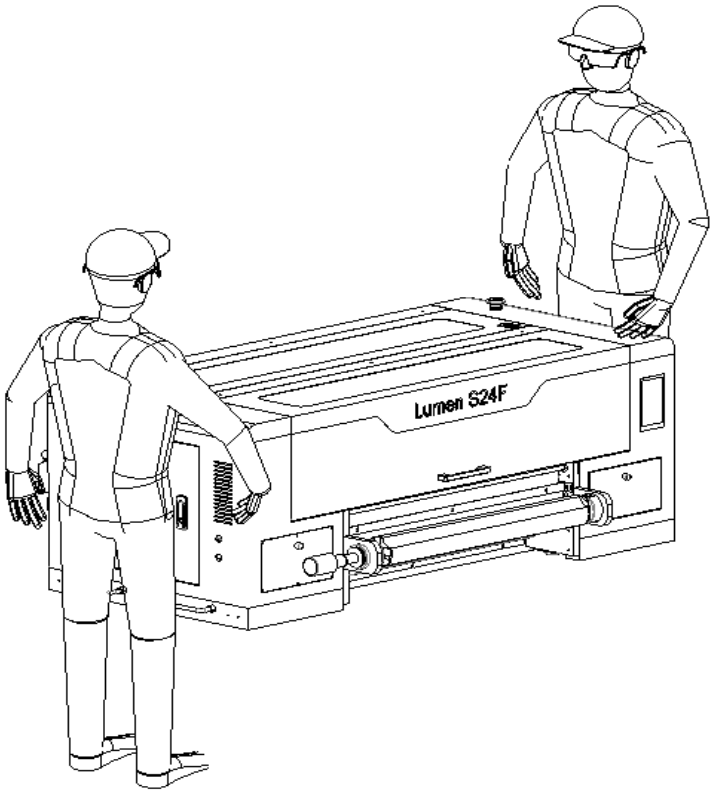


4. INSTALLING THE REAR SUPPORT LEG REINFORCEMENT PLATE

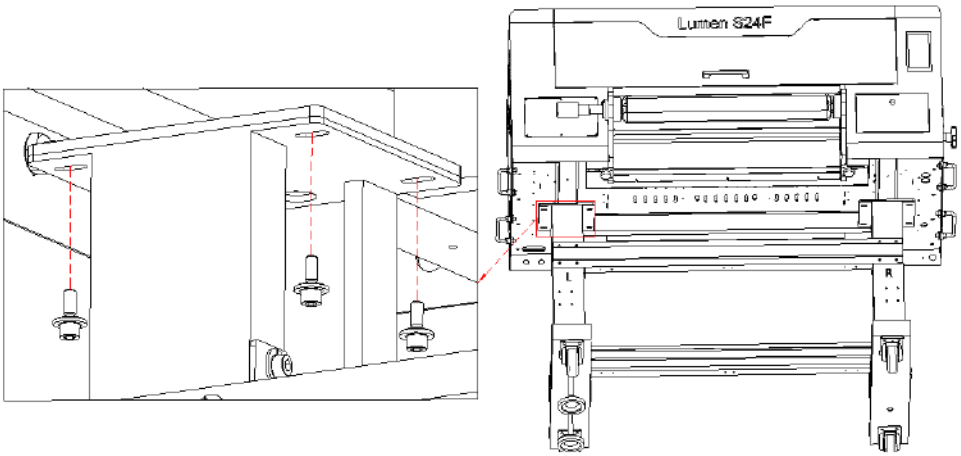
- Repeat Step 3 to install the rear reinforcement plate.

5. INSTALLING THE PRINTER BODY

- Lifting the printer body requires 2 to 4 or more people to safely position it onto the stand.

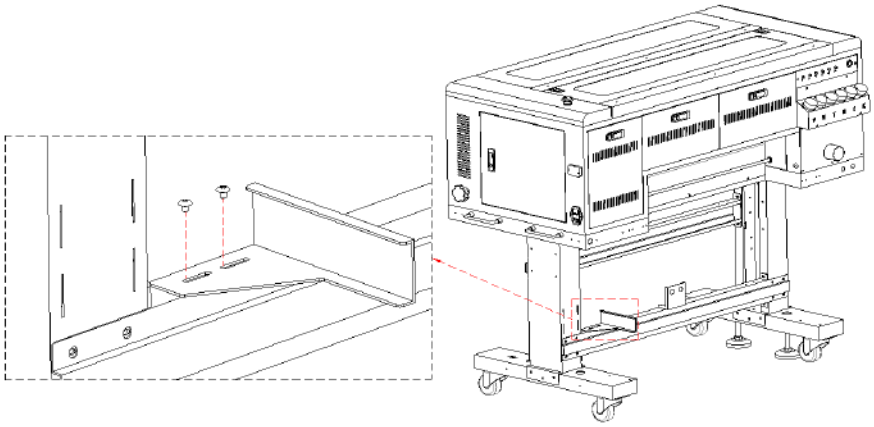


- Secure the printer body using M6×16 hex socket screws.



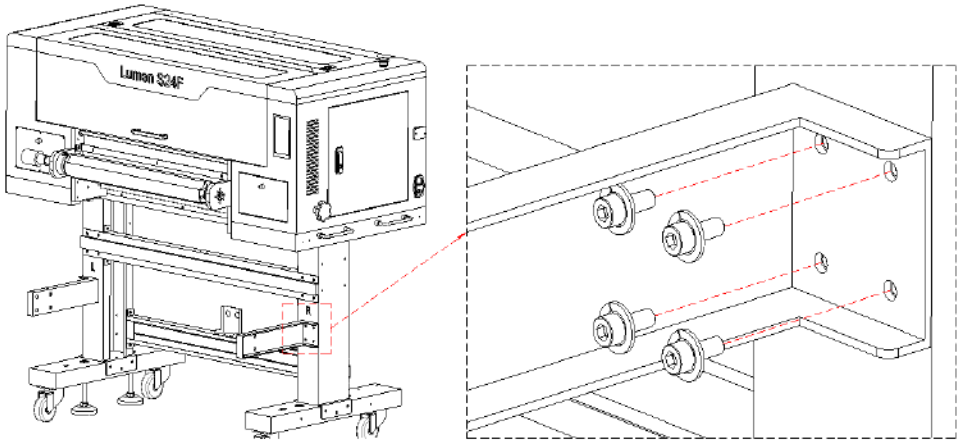
6. INSTALLING CENTER POSITIONING PLATE

- Install the center positioning plate using M3×10 screws.

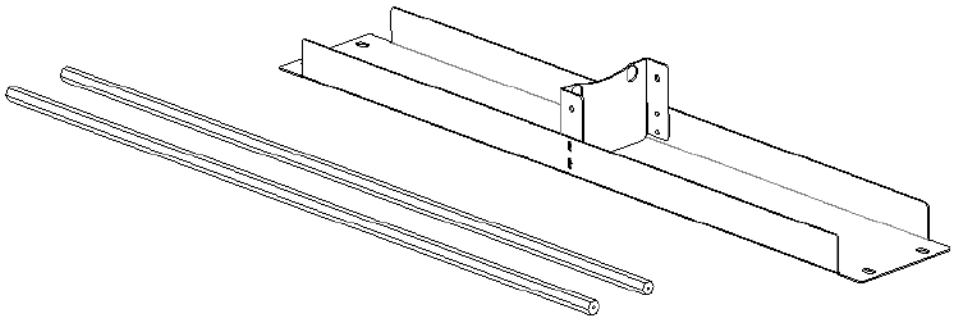


7. INSTALLING THE FRONT TAKE-UP REEL

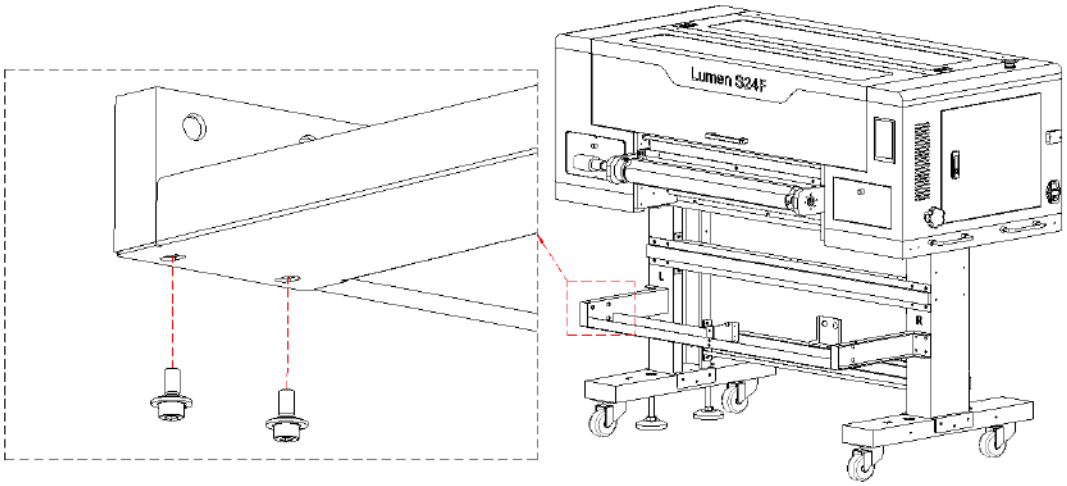
- Install the take-up reel bracket onto the support leg using M6×16 hex socket screws.



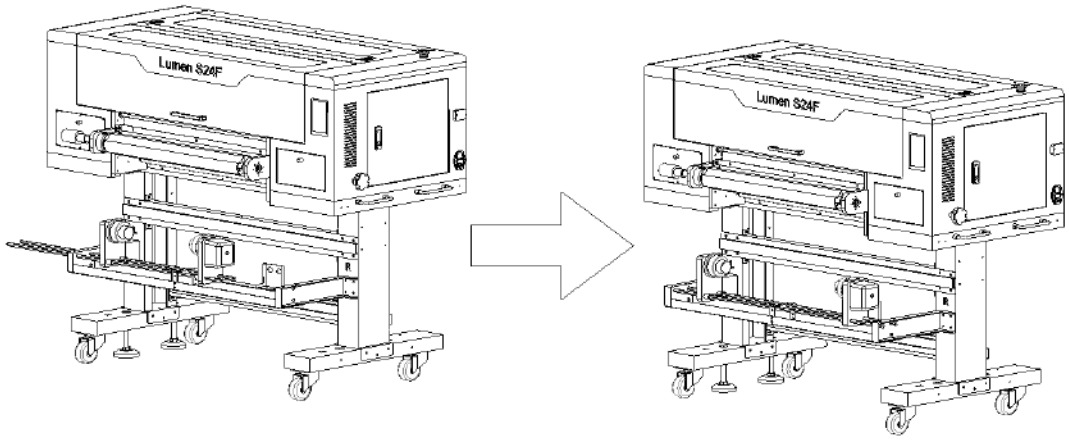
- Loosen the screws and separate the take-up reel bracket reinforcement plate from the take-up reel bar.



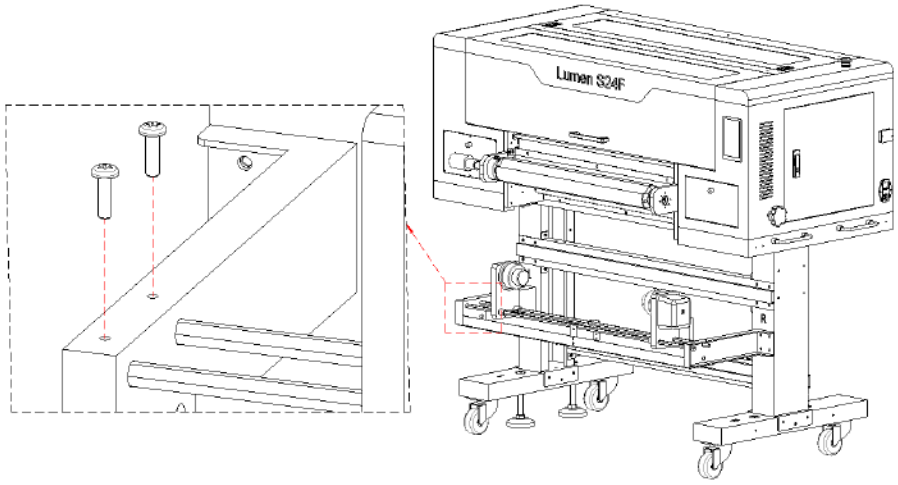
- Install the take-up reel bracket reinforcement plate onto the take-up reel bracket using M6×16 hex socket screws.



- Install the media holder and media holder bar.

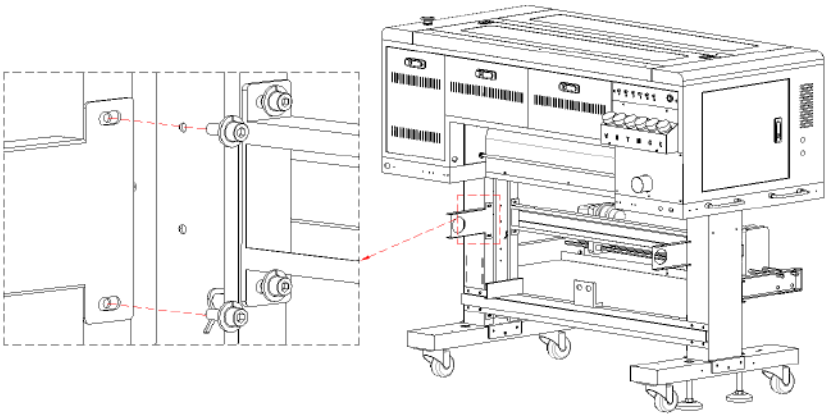


- Secure the take-up reel bar using M6×20 hex socket screws.

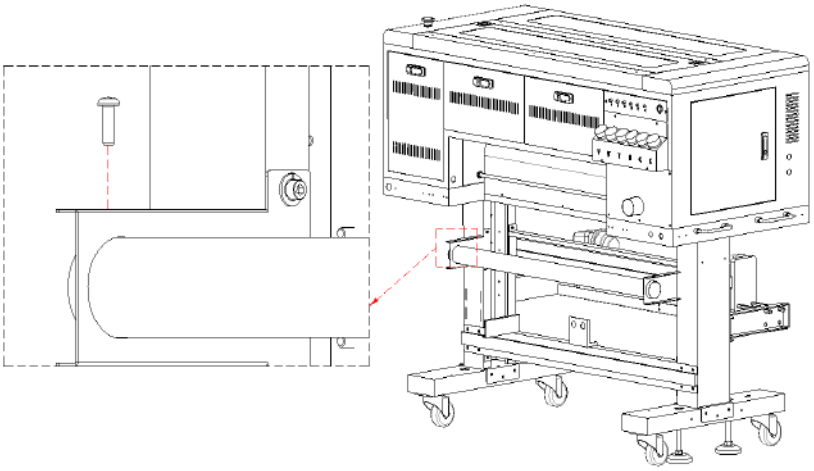


8. INSTALLING THE FILM TENSON BAR FIXING PLATE

- Install the film tension bar fixing plate onto the support leg using M6×16 hex socket screws.

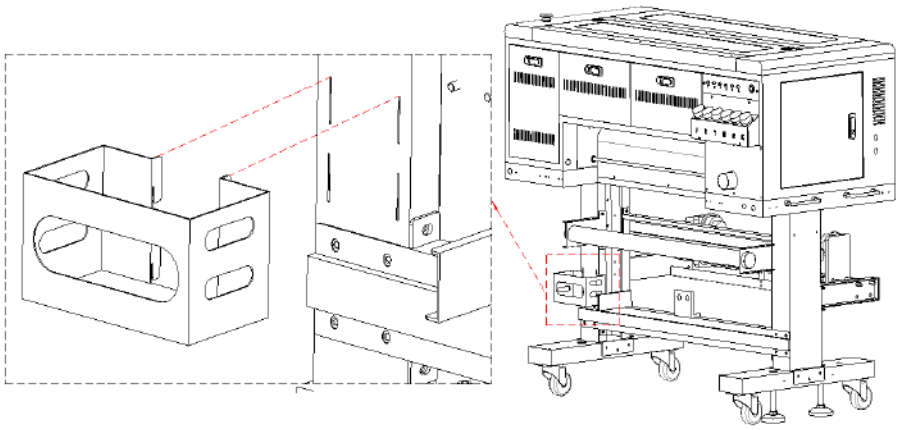


- Then install the film tension bar using M6×30 hex socket screws.



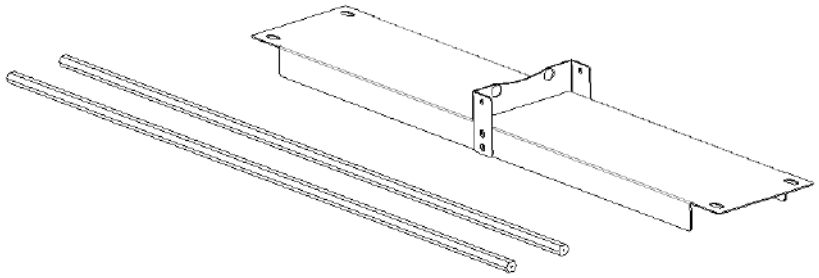
9. INSTALLING THE WASTE INK BOTTLE HOLDER

- Align the holder with the installation points on the support leg, press down to lock it in place, position the waste ink bottle onto the holder, and route the waste ink tube into the bottle.

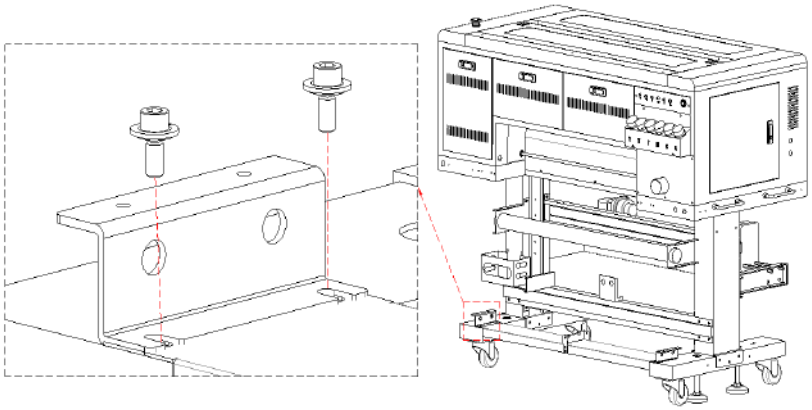


10.INSTALLING THE REAR MEDIA HOLDER

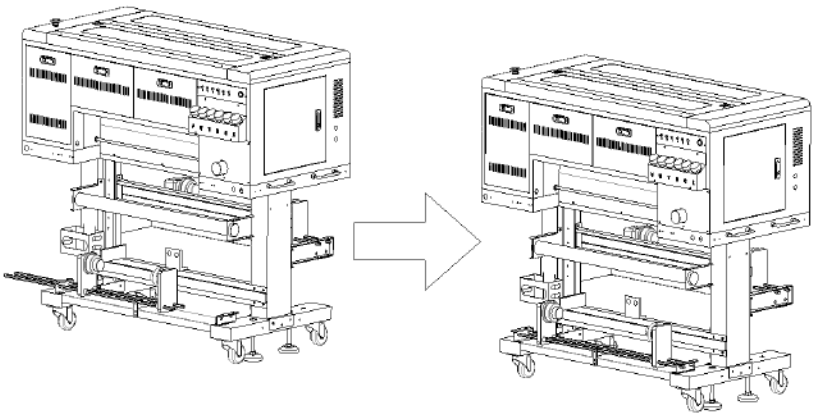
- Separate the bracket reinforcement plate from the media holder bar by loosening the screws.



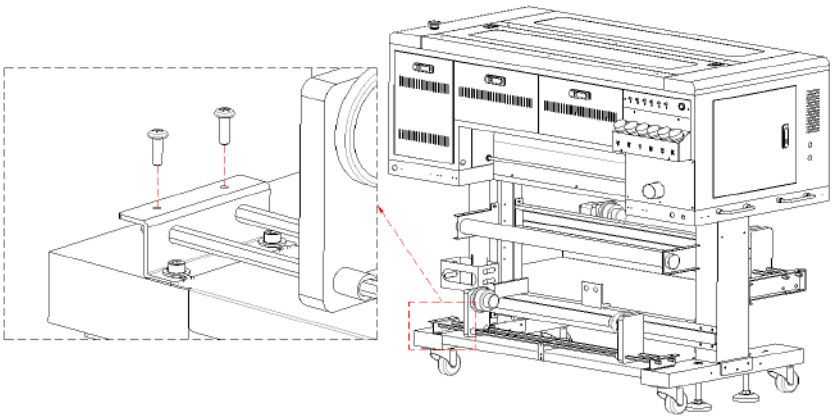
- Place the components onto the support leg base, secure with M6×16 hex socket screws.



- Install the media holders and bar.

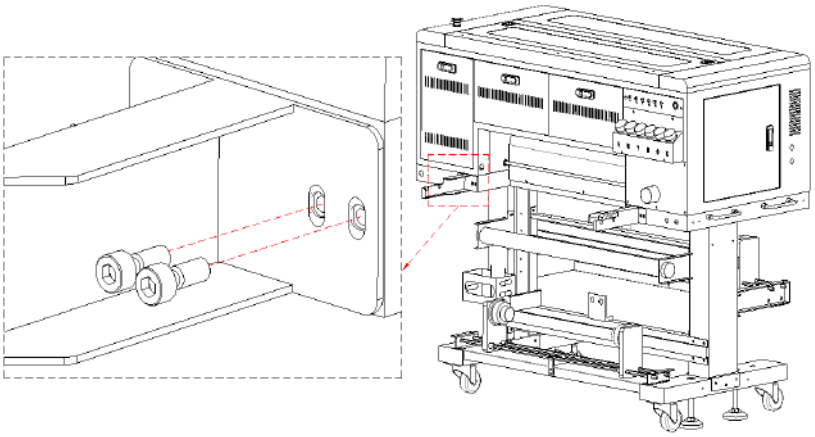


- Secure using M6×20 screws.

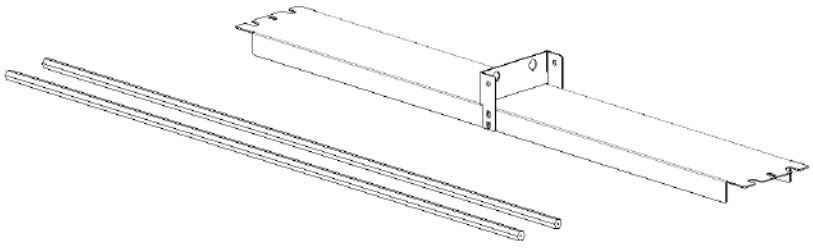


11. INSTALLING THE FILM TAKE-UP ASSEMBLY (FOR THE PROTECTIVE FILM FROM A FILM)

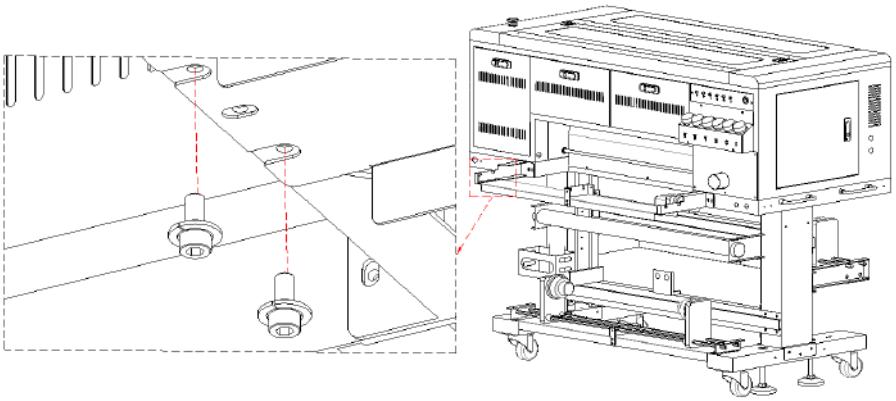
- Install the take-up reel bracket using M6×16 hex socket screws.



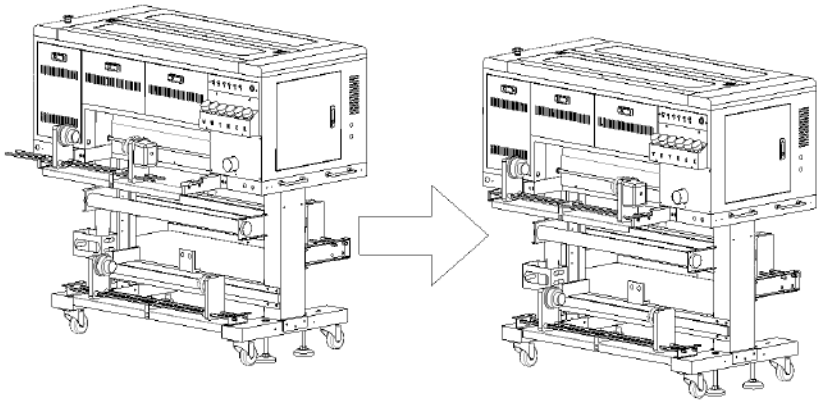
- Loosen the reinforcement plate screws to detach the media bar.



- Secure the reinforcement plate using M6×16 hex socket screws.

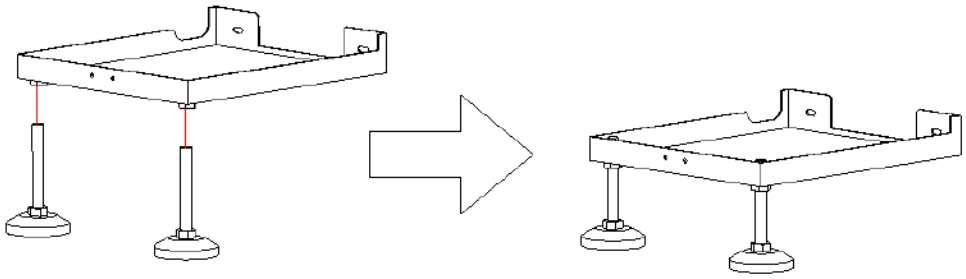


- Install the media bar and holders (ensuring the single-motor switch faces outward)

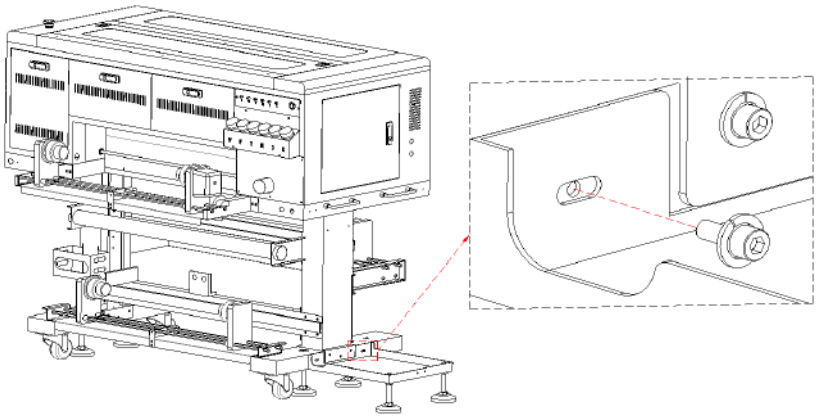


12. INSTALLING THE PURIFIER HOLDER

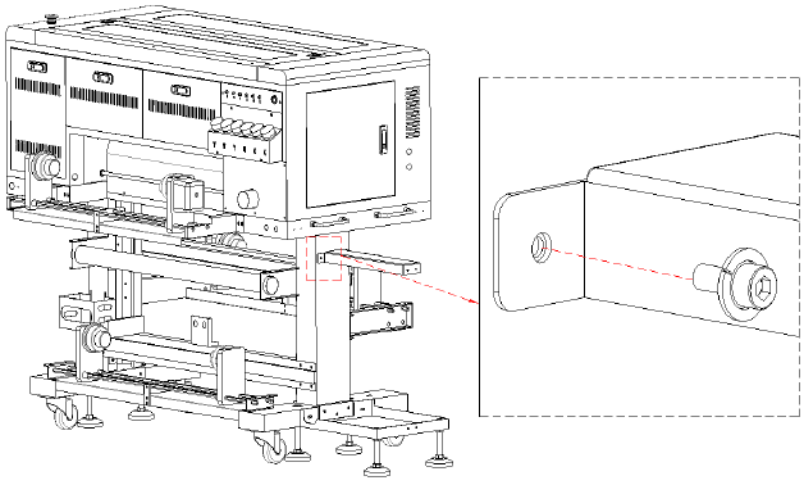
- Install the leveling feet onto the purifier holder.



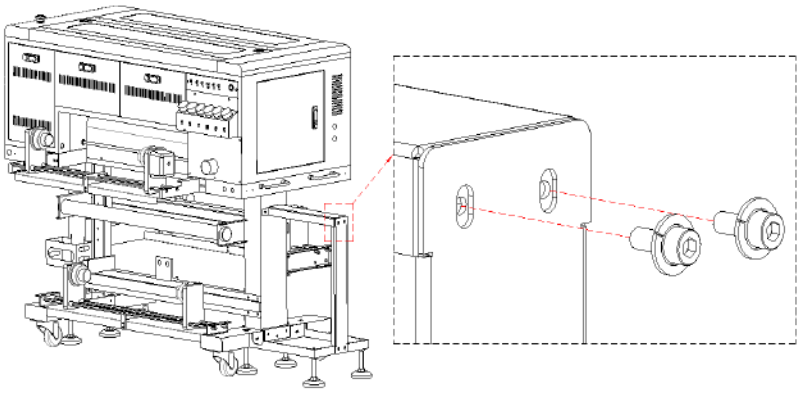
- Secure the purifier holder to the support leg base using M6×16 hex socket screws.



- Install Air Purifier Holder Reinforcement Plate 2 onto the support leg using M6×16 hex socket screws.



- Install Air Purifier Holder Reinforcement Plate 1 onto Air Purifier Holder. Reinforcement Plate 2 and the tray using M6×16 hex socket screws.



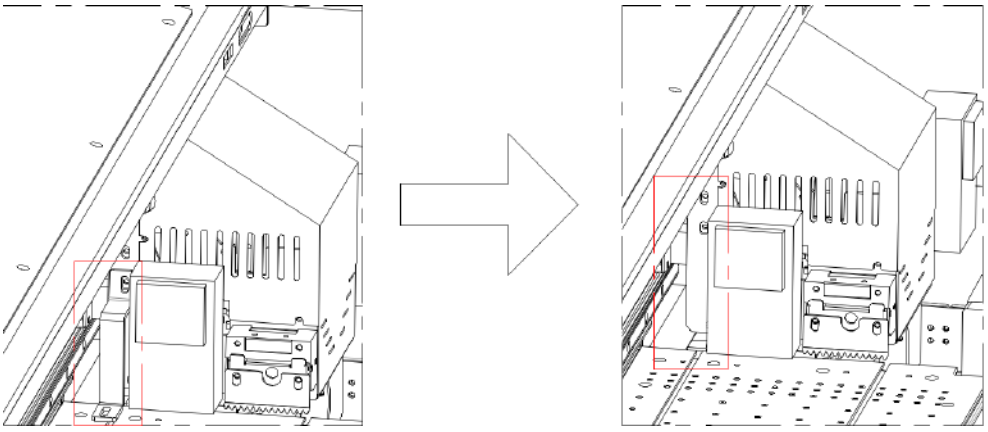
Step 2: Removing Transport Locks

IMPORTANT

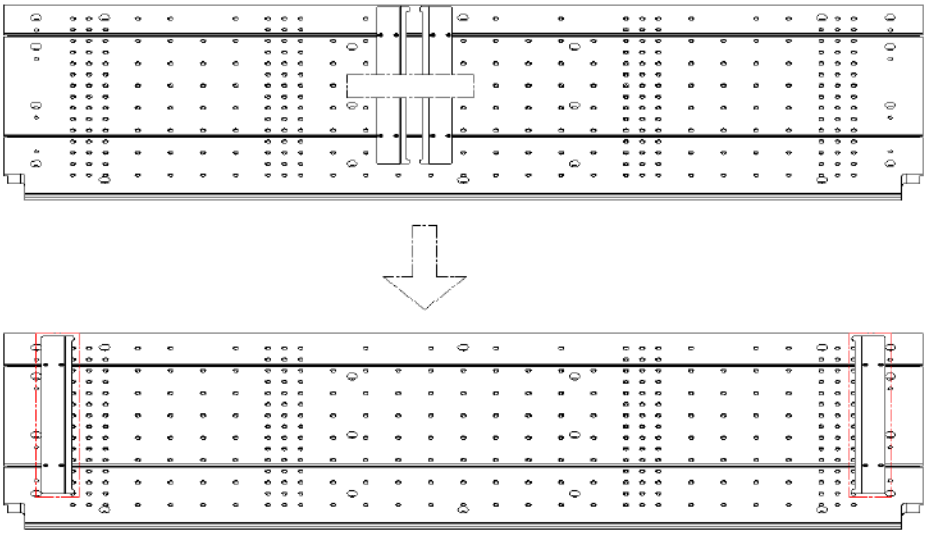
Remove all transport locks before powering on the machine. Failure to remove transport locks may result in malfunction or equipment damage during start up. Retain all transport locks for future use. They must be reinstalled if the machine is relocated or transported.

Procedure:

- Open the front cover and remove the carriage lock.



- Remove the media guide protective stickers and move the media guide to both sides of the platen.



Step 3: Connecting the Power Cable and Network Cable

WARNING

Ensure all power switches are turned off before performing this task. Sudden movement of the machine may result in personal injury.

WARNING

Connect the machine only to a power source that meets the specified voltage, frequency, and current requirements. Use of an incorrect power supply or inadequate current capacity may result in fire or electric shock.

WARNING

Handle the power cord, plug, and power outlet with care and in accordance with applicable safety requirements. Do not use damaged power cords, plugs, or electrical outlets.

WARNING

If an extension cord or power strip is required, ensure that it is rated to meet the machine's specified requirements. Do not overload a single outlet with multiple devices or use excessively long extension cords.

WARNING

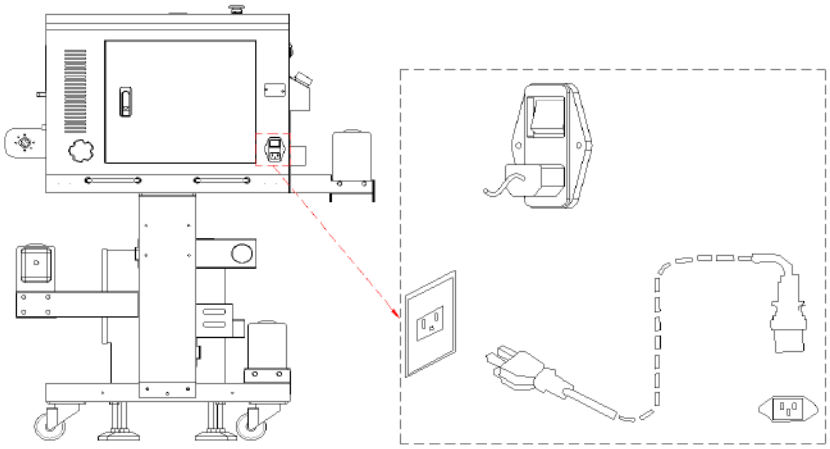
Connect the machine only to a properly rated wall outlet. Do not connect the machine directly to a power distribution panel or permanently wired electrical equipment.

WARNING

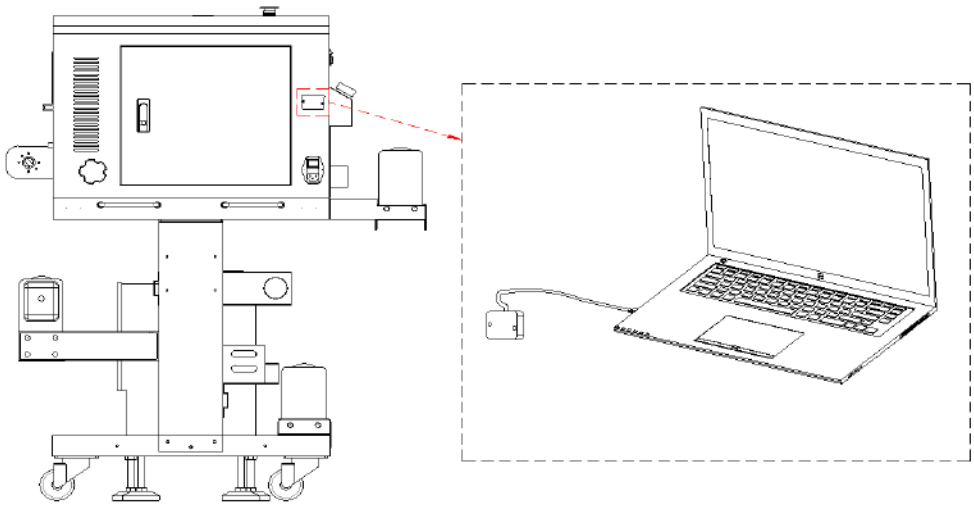
Ensure that the machine is connected to a proper protective earth (ground) connection. Grounding reduces the risk of fire or electric shock in the event of electrical leakage or equipment malfunction.

Procedure:

- Connect the power cable securely to the machine first, then connect the other end to a properly grounded wall outlet.

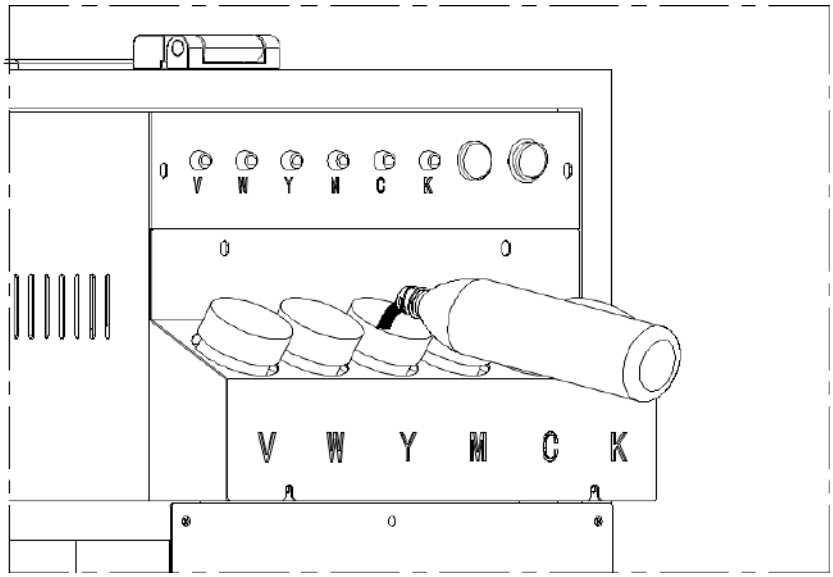


- Connect the Ethernet cable to the computer used for operation.



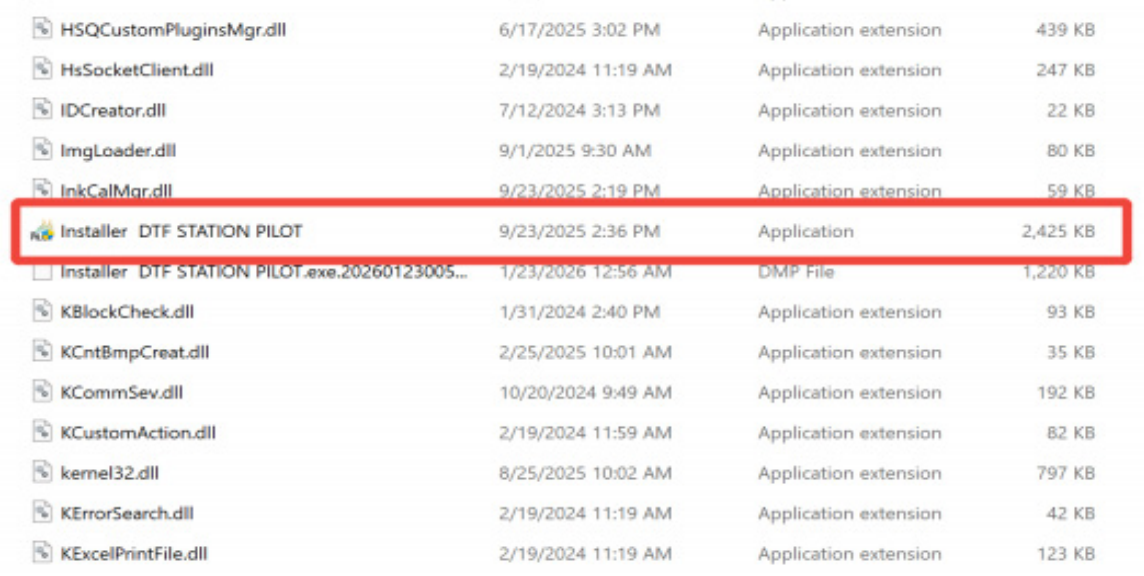
Step 4: Adding Ink

- Match each ink bottle with the corresponding color label.
- Shake the ink bottle thoroughly before filling.
- Add the ink to the corresponding ink bottle according to the color label.

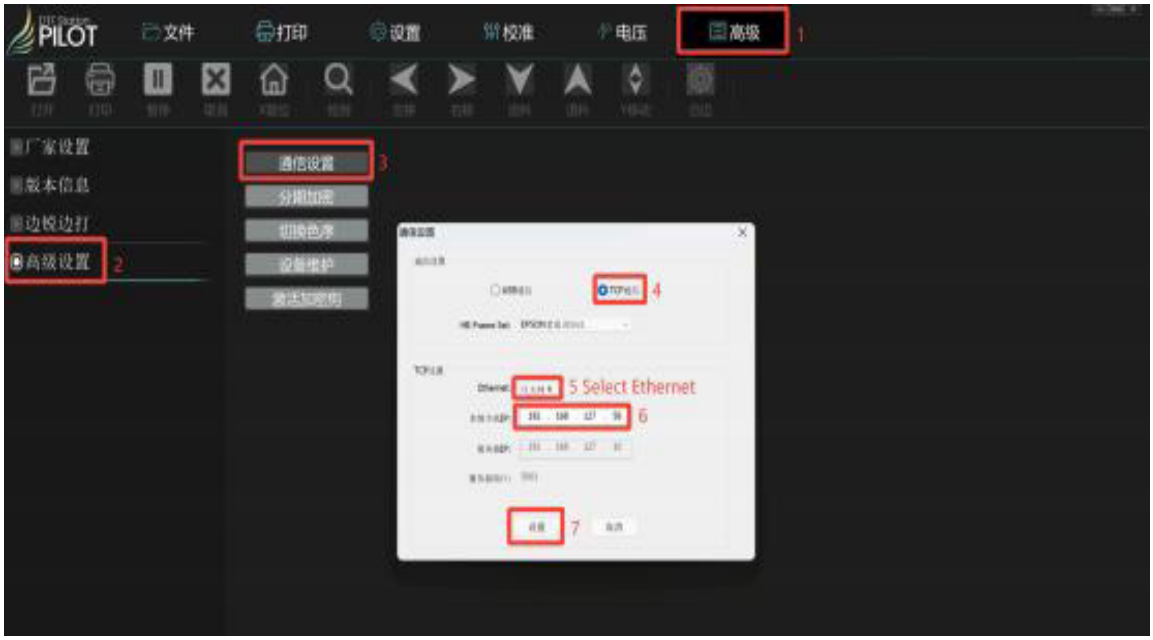


Step 5: Installing the Software

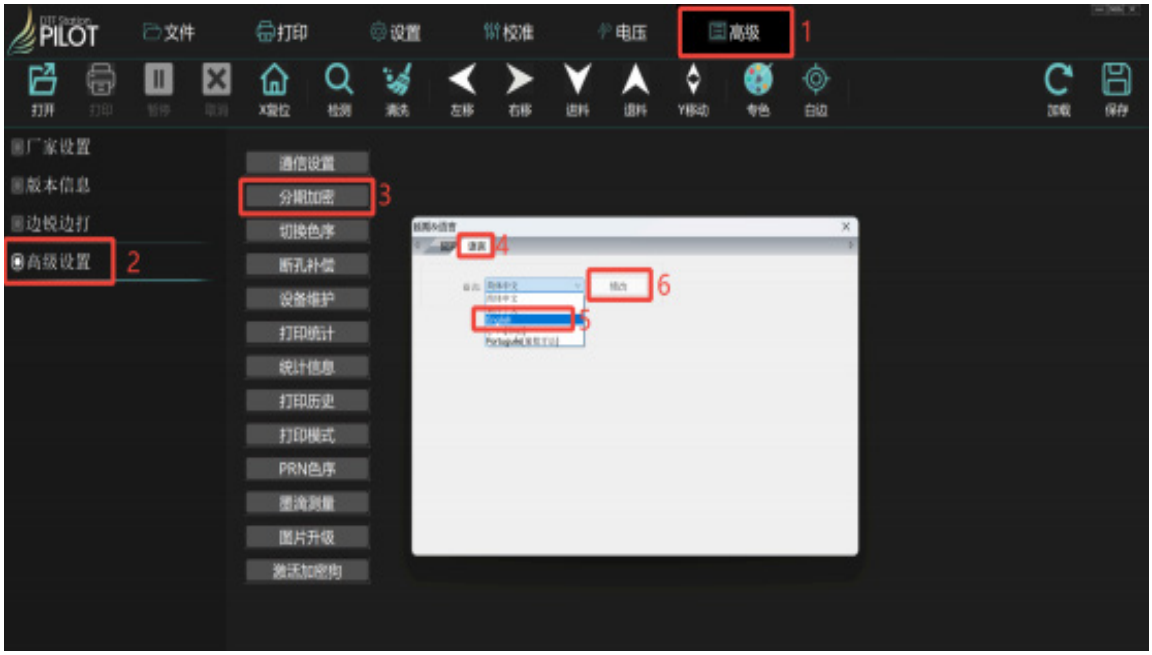
- Insert the USB flash drive included with the machine into your computer. Copy the installation package to the computer and extract the files. Double-click the software icon to launch the installer.



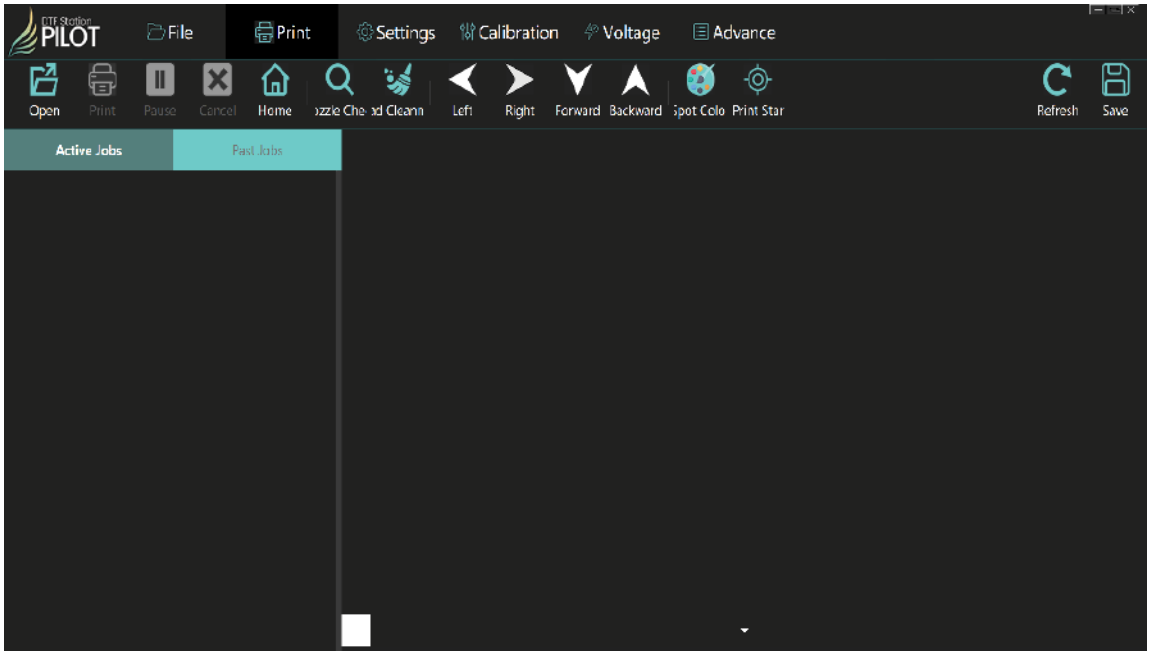
- Double-click the software to launch the installer and follow the on-screen instructions to change the language settings.



- Follow the on-screen instructions to configure the IP address.



- Restart the software after completing all settings.



INSTALLATION AND SETUP OF THE LUMEN S24F ARE NOW COMPLETE.

For detailed operation instructions, refer to the User's Manual.

Thank you for using this product.

Manual Version 1 / 15-Sep-2026 / D.02.01.0062 / D.02.01.0063