QUICK START

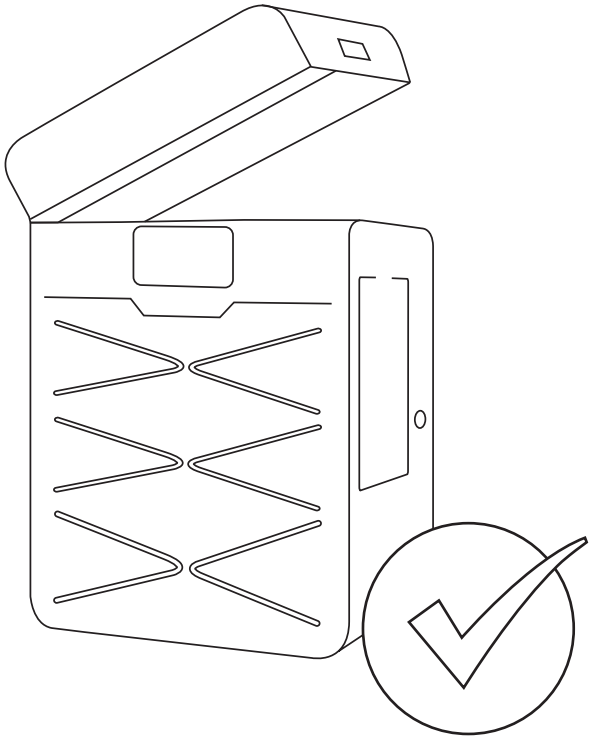
SINTERIT LISA PRO

How to unpack and pack Lisa PRO printer

We're glad that you decided to choose Sinterit Lisa Pro 3D printer. We hope that our system will contribute to the development of your business.

This manual will help you unpack and start the printer for the first time easily and safely.

Sinterit team



For more information, please read the Sinterit Lisa PRO printer user manual and visit www.sinterit.com/support-page.

GENERAL INFORMATION

Based on our clients' reviews, we designed additional devices to make your work with powder safer and cleaner:

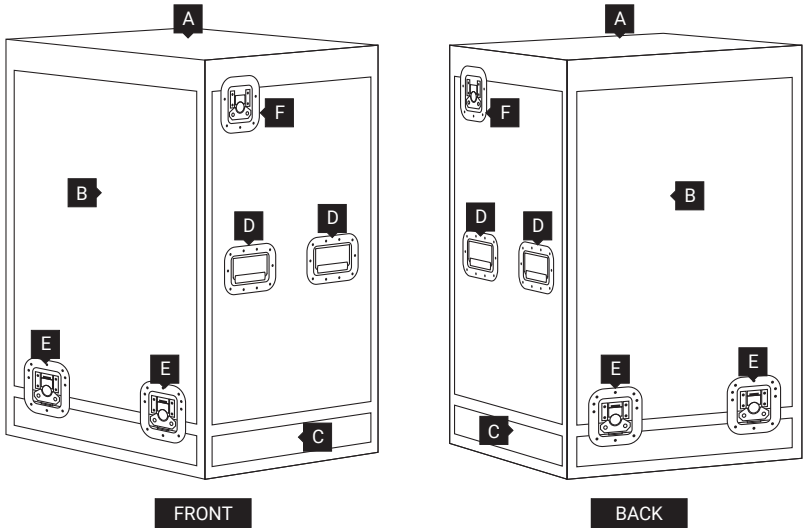
- Atex Vacuum Cleaner - to keep your workplace clean,
- Platform - for your ergonomy during the printing process,
- Powder sieve - for powder refreshing,
- Sandblaster in standard or XL size - for easy post-processing.

All elements are compatible with the Sinterit SLS 3D printing solution.
For more information, please ask your local distributor or simply visit sinterit.com

SOME IMPORTANT NOTICE

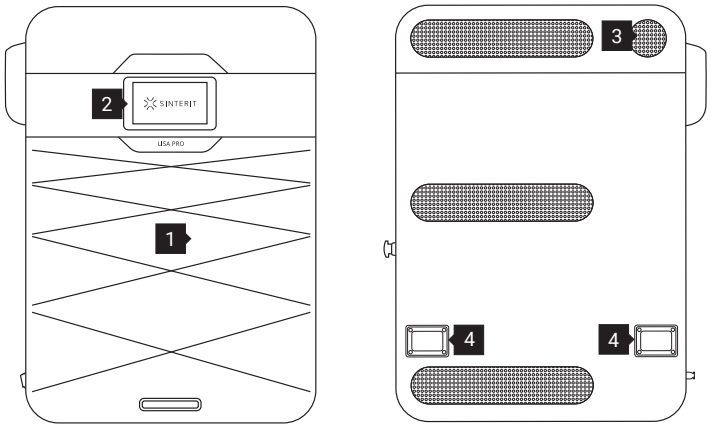
	IMPORTANT! Keep all the original boxes and transport protection. You may need them to pack the machine in the future if necessary.
	WARNING! Two adults are needed to unpack the printer safely! The Flightcase with Lisa PRO printer weighs approx. 120 [kg] / 265 [lbs]. Do not lift it yourself!
	ATTENTION! The printer weighs almost 100 kg / 220 [lbs]. Make sure that the furniture or surface that you plan to place the printer on is appropriate for such load.

FLIGHTCASE OVERVIEW



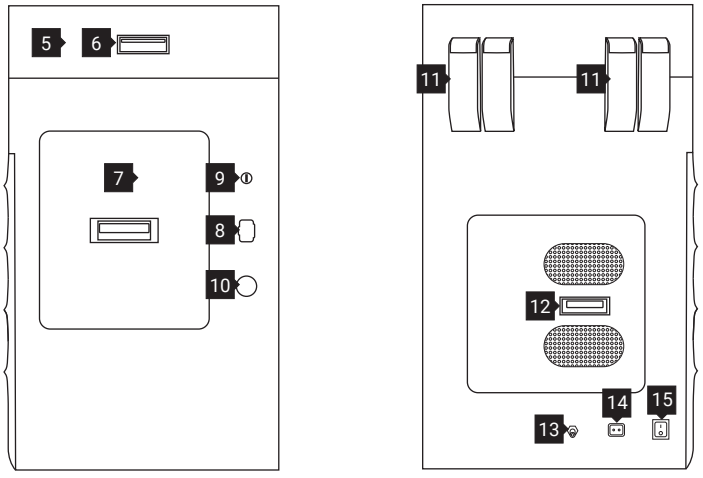
A. Lid
B. Cover
C. Bottom
D. Handles of the cover
E. Locks of the cover
F. Locks of the lid

SHORT DESCRIPTION OF SINTERIT LISA PRO PRINTER



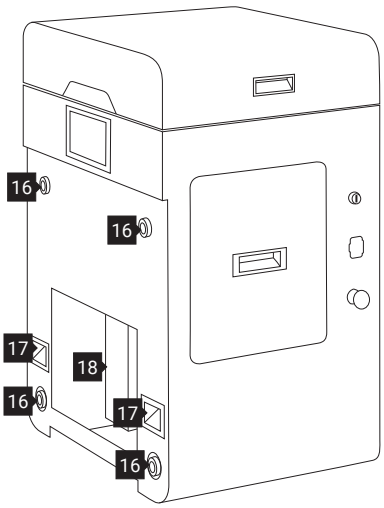
View of the printer's front and back side.

1. Removeable Front Panel
2. LCD touch screen (with Camera view)
3. Lid fan
4. Back holders



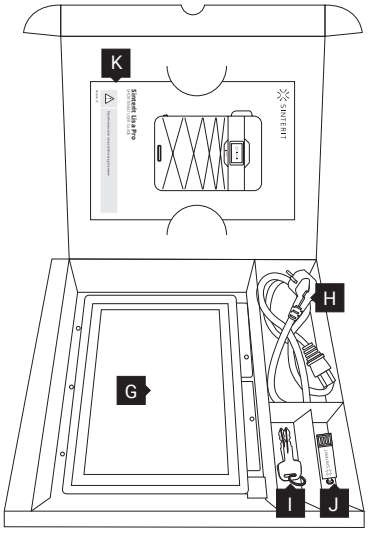
View of the printer's right and left side

5. Printer lid
6. Lid handle
7. Overflow Bin
8. USB port
9. Key slot
10. Safety button (E-STOP)
11. Lid hinges
12. Nitrogen installation
13. Nitrogen inlet nipple
14. Power socket
15. Power switch (On/Off)



View of the printer without a front panel

16. Magnetic fasteners
17. Front holders
18. Service area under BEDs



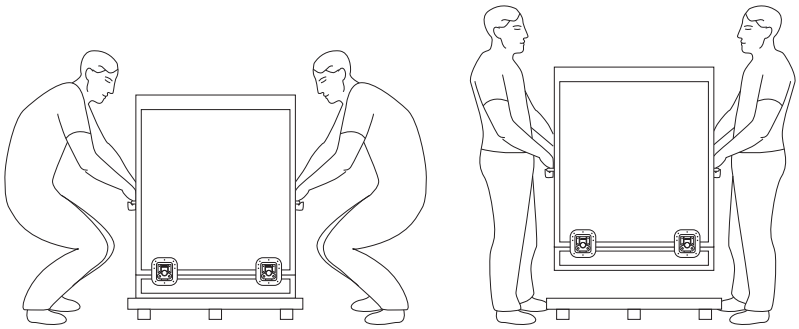
STARTUP BOX contains:

G. Laser Protective Glass
H. Power cable
I. Ignition key
J. USB Flash Drive
K. Lisa Pro Short Manual

UNPACKING LISA PRO FROM FLIGHTCASE

1. REMOVE THE FLIGHTCASE WITH THE PRINTER FROM THE TRANSPORT PALETTE

Grab the two handles on both sides of the Flightcase D (two people needed). Carefully remove the Flightcase from the pallet and place it on a stable surface.

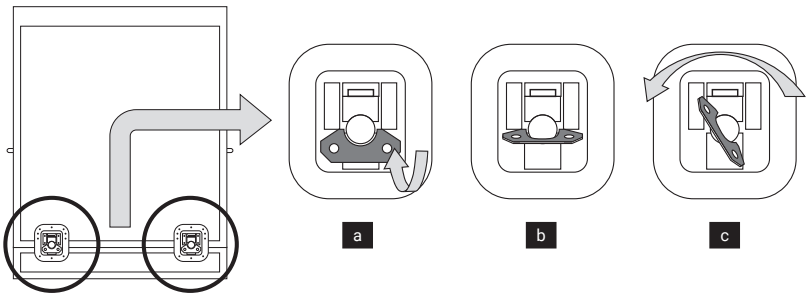


The correct transfer of the Lisa PRO Flightcase from the pallet.

2. UNLOCK THE LOCKS OF THE FLIGHTCASE COVER

Unlock 4 locks on the lower part of the the Flightcase cover E (2 on the front and 2 on the back).

Turn the lock handle by 90 degrees a, b. Rotate the lock handle approx. 225 (180 + 45) degrees CCW until the hook opens c. Repeat on each of the four locks of the Flightcase cover.



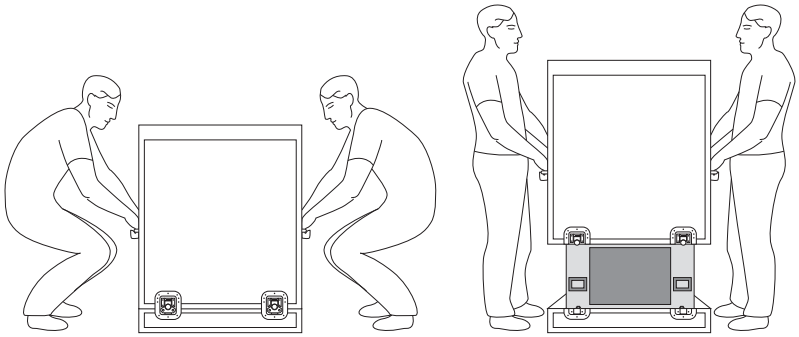
Unlocking the lock of a Flightcase's cover.

3. OPEN THE FLIGHTCASE

Carefully grab the handles of the cover on both sides of the the Flightcase D (two people needed) and lift it to a height of minimum one meter.

Be careful, not to snag the printer!

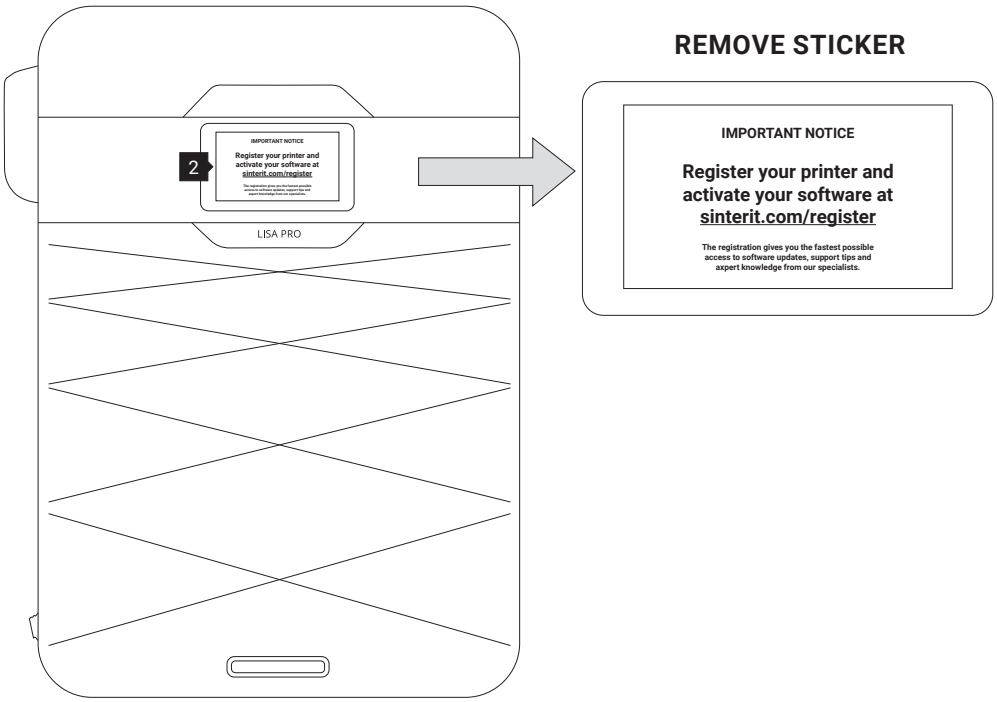
Place the cover in a safe and stable place. Remove all foils from the outside of the printer. Make sure that the Lisa PRO hasn't been damaged during the transport. Check against any visible signs of it.



Correct lift of the cover from Lisa's PRO Flightcase.

IMPORTANT!
Remember to register your printer and activate your software at sinterit.com/register

The registration gives you the fastest possible access to software updates, support tips and expert knowledge from our specialists.

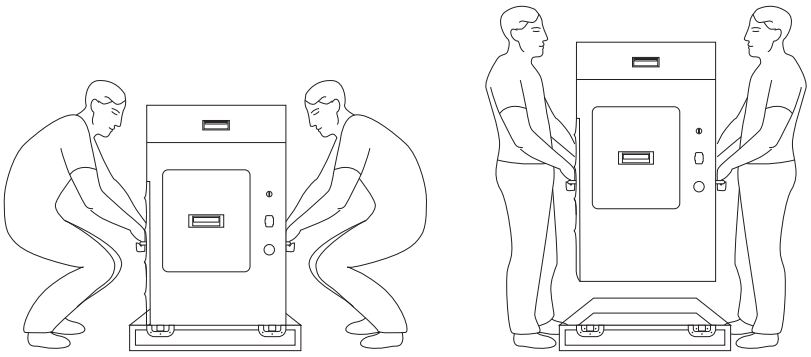


Remember to register your printer and remove the sticker from the LCD screen 2.

4. MOVE THE PRINTER FROM THE FLIGHTCASE TO THE TARGET WORKSTATION

Grab the printer holders 4, 17 (see picture LIFT HERE for front and back), carefully lift it up and place it on a stable surface. We recommend the target workstation.

Ensure that the printer is placed in a location where its size and weight will be properly supported.



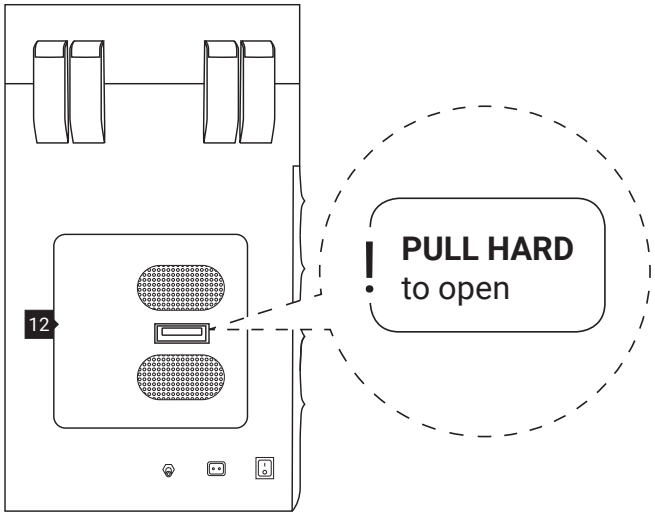
Correct lift of Lisa PRO from the Flightcase.

PREPARING THE MACHINE TO WORK

1. REMOVE THE PROTECTION FOIL FROM THE NITROGEN CHAMBER

Grab the Nitrogen chamber handle, pull hard and open it.

Remove the protective foil from the lid. Check for damage inside the chamber. Close the Nitrogen chamber.

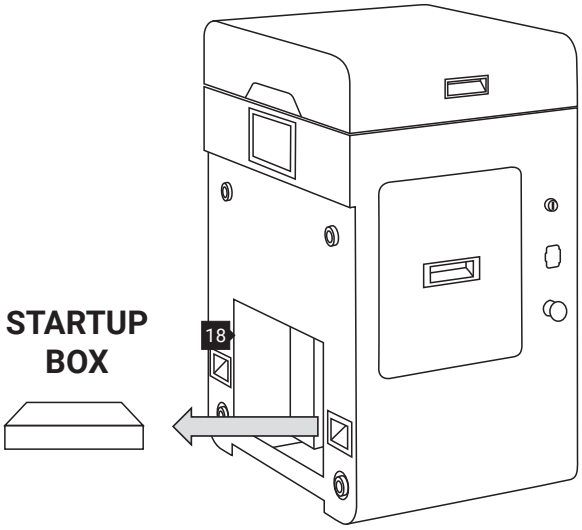


The Nitrogen installation chamber.

2. REMOVE THE "STARTUP BOX" FROM THE SERVICE AREA UNDER THE BEDS

Remove the protection foil with the information „STARTUP BOX in service area" and remove the box from the service area underneath the BEDs 18.

Never put objects there! This is the service area of the printer.



The STARTUP BOX is located in the service area under the BEDs.

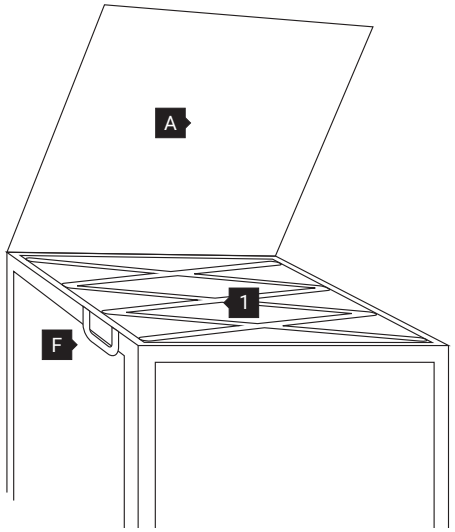
3. FIND THE REMOVABLE FRONT PANEL

The Removable Front Panel is located in a recess under the lid of a Flightcase A.

Unlock the locks of the Flightcase's lid F (one on the right and one on the left side of the top of Flightcase). The locks of the lid open the same way as the locks of Flightcase's cover.

Lift the Flightcase lid by 90 degrees. Inside there should be the Removable Front Panel of the Lisa PRO printer 1. Lift up the panel.

Look out, it's heavy!

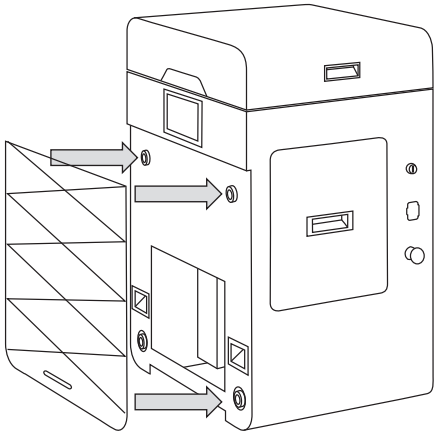


The raised lid of the Flightcase and showing recess with Removeable Front Panel for Lisa PRO.

4. INSTALL THE REMOVABLE FRONT PANEL

Holding the Removable Front Panel 1 parallel to the printer, mount it using the four Magnetic fasteners 16 at the front.

After installing the Removeable Front Panel, check that each of the four Magnetic fasteners is connected (pull gently towards you).

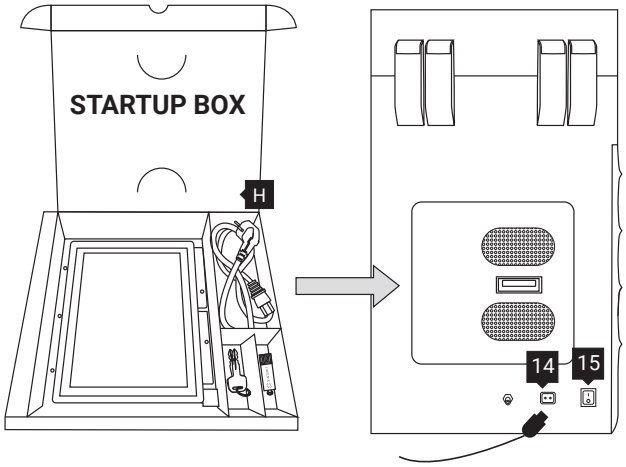


Correct mounting of the Removeable Front Panel with the Magnetic fasteners.

5. CONNECT THE POWER CABLE AND TURN ON THE PRINTER

Remove the Power cable H from the STARTUP BOX. Connect the Power cable to the printer's Power socket 14 and then to the power supply.

Switch the Power switch (from "0" to "1") located on the left side of the printer 15.



The Power socket and the Power switch are located on the left side of the printer.

6. CHECK THE SAFETY BUTTON

Check whether the Safety button (red button on the right side of the printer) 10 is out. If not, rotate the black flange of the button clockwise at a quarter of a turn.

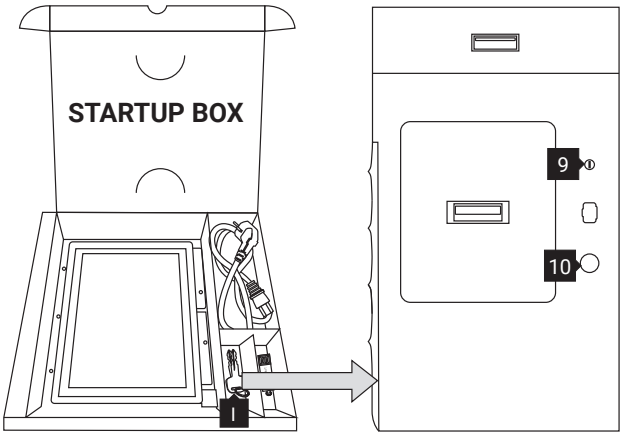
Unlocking Emergency Stop Button.

7. TURN THE PRINTER ON WITH THE IGNITION KEY

Place the Ignition key I in the Key slot 9 and turn it clockwise at a quarter of a turn.

Please wait until the main menu with four buttons appears on the LCD screen (it takes about 20 seconds).

Remember to register your printer and remove the sticker from the screen.

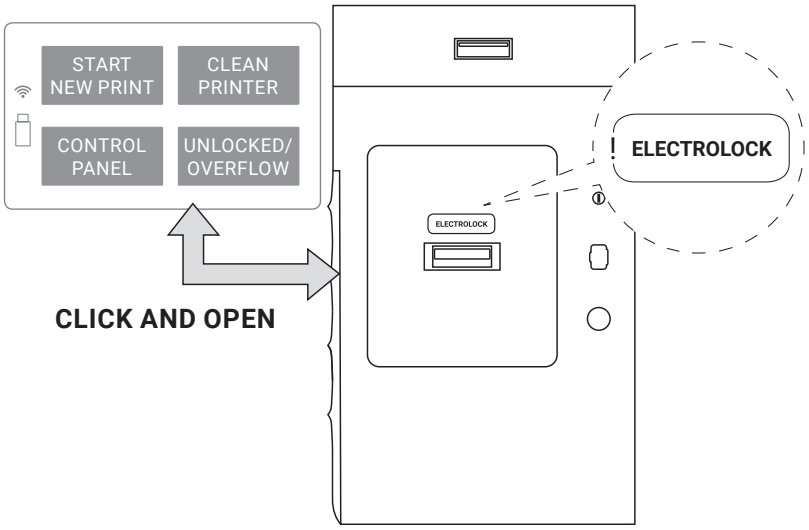


The Safety Button and Key slot are located on the right side of the printer.

8. UNLOCK THE OVERFLOW BIN AND REMOVE THE PROTECTION FOIL FROM IT

Attention, Electrolock! To unlock the Overflow Bin 7 press UNLOCK LID/ OVERFLOW BIN button on the screen 2. The magnetic blockade deactivates for 10 seconds. After 10 seconds, it will re-activate.

Grab the Overflow Bin handle, pull and open it. Remove the protective foil from the lid. Put the Overflow Bin back in.



Unlocking the Overflow Bin.

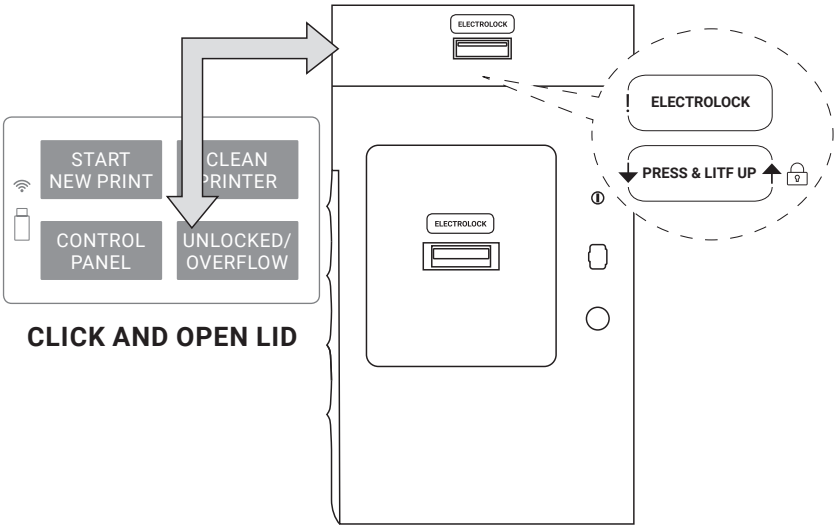
9. OPEN THE PRINTER'S LID AND REMOVE THE SECURITY FEATURES FROM THE INSIDE

Attention, Electrolock! To open the printer's lid 5 press UNLOCK LID/ OVERFLOW BIN button on the screen 2. The magnetic blockade deactivates for 10 seconds. After 10 seconds, it will re-activate.

Softly press the lid and then lift it using Lid's handle 6.

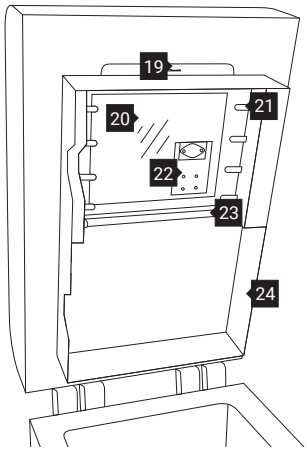
Be careful! The lid is quite heavy!

Remove the protection from the printer's inside.



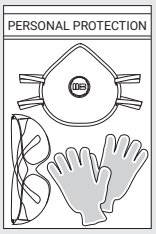
Unlocking the printer Lid.

View of the printer Heating module.



19. Split pin
20. Place for Laser Protective Glass
21. Short Infrared heater (white) four psc. on each side
22. Laser module
23. Long Infrared heater (red)
24. Heating module

CAUTION!
Beware of sharp edges. Put on Protection Gloves to protect yourself from injuring hands against the edge of the Heating module. The Protection Gloves are included in the plastic bag (”Personal Protection” kit) with the Advanced Accessories.



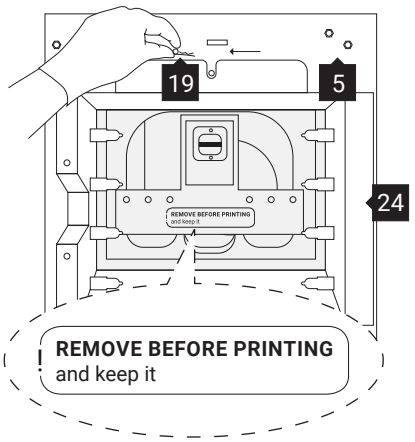
10. REMOVE THE PLASTIC PROTECTION CAP FROM THE HEATING MODULE

We recommend to turn off the power of the device (turn off the Ignition key 9, I).

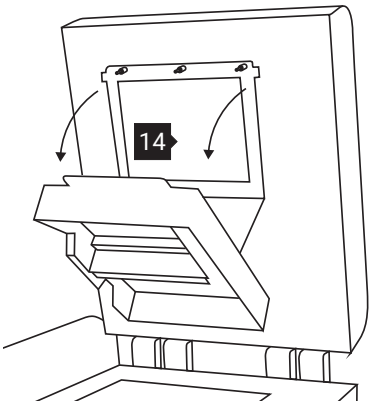
While holding the Heating module 24, take out the Split pin 19 positioned on the top of the inner part of the Lid 5.

Lower the Heating module to get access to the place dedicated to the Laser Protective Glass 20.

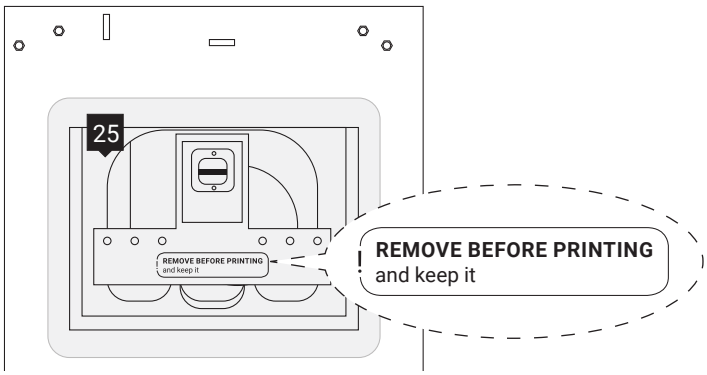
Remove the Plastic Protection Cap of the Laser module and save it (we recommend keeping the Plastic Protection Cap in the Flightcase).



Heating module – removing the Split pin.



Heating module – opening.



View on the Plastic Protection Cap of the Laser module.

Now you can install the Laser Protective Glass G.

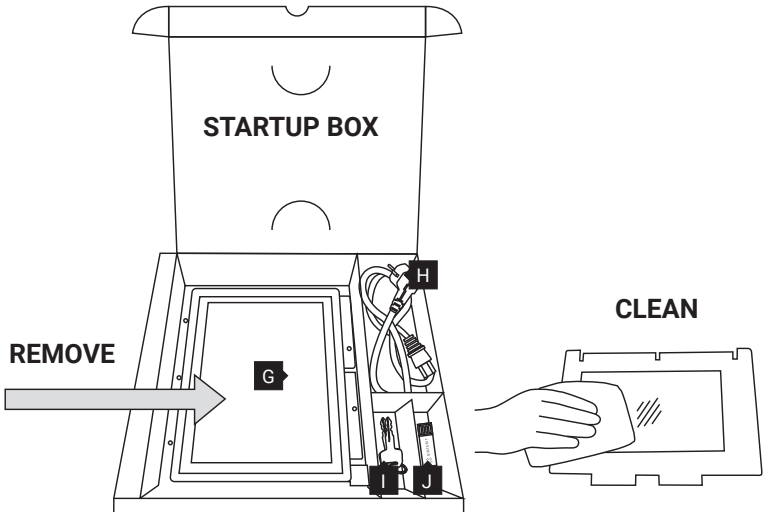
INSTALLING THE LASER PROTECTIVE GLASS

1. REMOVE THE LASER PROTECTIVE GLASS FROM THE „STARTUP BOX" AND CLEAN IT

Don't throw out the STARTUP BOX. Put it in Flightcase.

Rub the surface of glass carefully with a cotton cloth soaked with 2% salicylic spirit (ethanol solution) or any other ethanol-based solution. Do not use isopropyl alcohol! Pay attention to any fibres left on the surface. Clean both sides.

Remember to wipe the LASER PROTECTIVE GLASS with a dry piece of cloth afterwards.

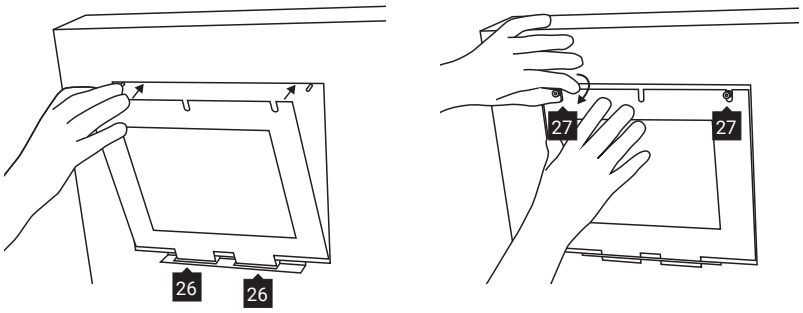


Remove and clean the Laser Protective Glass.

2. MOUNT THE LASER PROTECTIVE GLASS MODULE

Slide the metal tabs of the Laser Protective Glass module into the holders located in the middle of the Lid 26.

Press the gasket gently. After obtaining the perfect fit, screw the two Quick release nuts on to the visible screws 27.

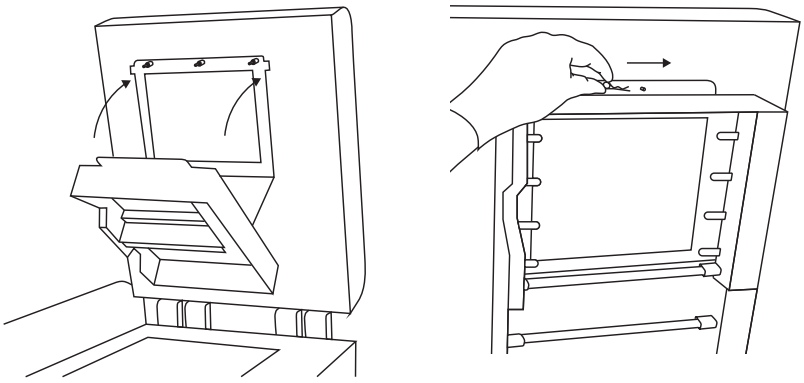


Correct placement of the Laser Protective Glass on the Heating module.

3. CLOSE THE HEATING MODULE

Join the Heating module with the Lid using the metal Split pin.

Clean the Laser Protective Glass one more time from any finger marks or stains if present.



Correct closing of the Heating module.

After installing the Laser Protective Glass module, the device is ready for printing.

Enjoy!

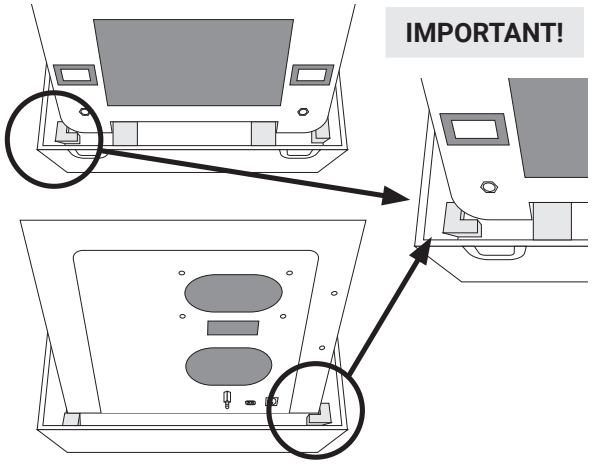
If you have any questions or problems with this manual, please contact us:
e-mail: contact@sinterit.com
www: sinterit.com/support-page
phone: +48 570 702 886

PREPARING LISA PRO PRINTER TO BE PACKED

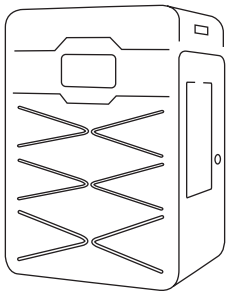
1. Turn on the printer and wait until the main menu is loaded.
2. Unlock the printer's Lid: press UNLOCK LID/OVERFLOW BIN button on the screen. Remember, you only have 10 seconds to open it before the lock activates again. Open the Lid.
3. Turn off the printer for cleaning.
4. Clean the printer from the powder (both BEDs and the space around them, OVERFLOW BIN, RECOATER).
5. Open the Heating module and remove the Laser Protective Glass. Put it in the original box (STARTUP BOX). Secure it with tape for transportation.
6. Put on the original plastic protection cap on the Laser system and mount the Heating module back to the printer's Lid.
7. Check that the BEDs are at level with the printer housing and the RECOATER is located between the BEDs.
8. Close the printer's Lid.
9. Unplug the Power cable and put it in the STARTUP BOX.
10. Put the Ignition key to the STARTUP BOX.
11. Close and tape the STARTUP BOX. Place it in the service area under the BEDs.
12. Unplug the Nitrogen hose from the Nitrogen inlet nipple.
13. Dismantle the Removable Front Panel.
    - Grasp the panel in the middle of its top and bottom edge. Pull the bottom edge firmly while holding the top edge.
    - Disconnect all four Magnetic fasteners between the panel and the printer front side.
    - Hide the Removable Front Panel in the recess under the Flightcase lid.

PACKAGING LISA PRO PRINTER TO FLIGHTCASE

1. While holding the holders in the printer set the device on the bottom of the Flightcase (two people needed). The stickers on the bottom of the Flightcase will help you to position the printer correctly (HINGES). If there are no labels, note the positioning of filler foams, especially the L-shaped foam.



2. By holding the four handles of the Flightcase cover, put it on the printer (two people needed).
3. Match the cover with the bottom of the Flightcase. Look at the colours of the markings on the sides of the cover and the bottom of the Flightcase (blue and red stickers).
4. Close the Flightcase with 4 cover locks.
5. Place the Flightcase on the transport pallet, secure with foil and tape.



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