Read the instruction manual before using the device.

Version 7/2020
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1. Marking text conventions used in a document

Listed below are descriptions of symbols used on the device. They constitute a warning or convey the information to protect the user, other individuals or surrounding objects and ensure the correct and safe use of the device.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![WARNING!]</td>
<td>An inevitably dangerous situation which can result in serious injury or even death. Initiation, the omission of a specific procedure or inattention can cause severe physical injury to the user.</td>
</tr>
<tr>
<td>![ATTENTION!]</td>
<td>Initiation or omission of a specific procedure can cause physical damage to the equipment or the user.</td>
</tr>
<tr>
<td>![ATTENTION!]</td>
<td>Risk of electric shock which can be fatal or cause severe burns. An inevitably dangerous situation which can result in serious injury or even death, if not mitigated. Before working with any equipment, you should be aware of the dangers associated with the flow of electric current, and become familiar with the standard procedures to prevent accidents.</td>
</tr>
<tr>
<td>![CAUTION!]</td>
<td>Beware of moving parts which can crush hands.</td>
</tr>
<tr>
<td>![WARNING!]</td>
<td>Risk of fire and explosion! Avoid fire! Powder dust is flammable.</td>
</tr>
<tr>
<td>![STOP!]</td>
<td>Action prohibited.</td>
</tr>
<tr>
<td>![ATTENTION!]</td>
<td>It is necessary to wear protective gloves and a face mask. Mandatory action when working with powder.</td>
</tr>
<tr>
<td>![ATTENTION!]</td>
<td>It is necessary to wear antistatic clothes and shoes. Mandatory action when working with powder.</td>
</tr>
<tr>
<td>![ATTENTION!]</td>
<td>It is necessary to wash hands after each use of the Sandblaster XL.</td>
</tr>
<tr>
<td>![IMPORTANT!]</td>
<td>Information essential to correctly perform a specific task.</td>
</tr>
<tr>
<td>![IMPORTANT!]</td>
<td>You must read the instructions before taking action.</td>
</tr>
</tbody>
</table>
2. Contents of the Sinterit POWDER SIEVE pack

Box no. 1
- The Sinterit POWDER SIEVE,
- The additional equipment.

Box no. 2
- Spare Metal Container with Lid.

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Image 1. Accessories for the Sinterit POWDER SIEVE (box no. 1).
A. Metal container (12 L) / B. Power supply / C. Allen key Hex 3 mm (for Removeable Metal Sieve) / D. Sinterit POWDER SIEVE User manual

Image 2. Accessories for the Sinterit POWDER SIEVE (box no. 2).
E. Spare Metal container (12 L) / F. Lid for the Metal container
3. Sinterit POWDER SIEVE

A. DESCRIPTION

Image 3. View of the Sinterit POWDER SIEVE front and back.

Image 4. View of the Sinterit POWDER SIEVE top chamber.
10. Lid's magnetic holders / 11. Removeable Metal Sieve

Image 5. View of the Sinterit POWDER SIEVE front chamber.

WARNING! Read and understand operator's manual and all other safety instructions before using this machine. Failure to follow operating instructions could result in serious injury.
## B. SPECIFICATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Horizontal vibrating sieving machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Automatic</td>
</tr>
<tr>
<td>Size of package</td>
<td>610 x 360 x 370 [mm] (24.2 x 14.1 x 14.5 [in])</td>
</tr>
<tr>
<td>Package weight</td>
<td>25 [kg] (55.1 [lbs])</td>
</tr>
<tr>
<td>Package contents</td>
<td>2 boxes: Sinterit POWDER SIEVE + set of accessories + Manual</td>
</tr>
<tr>
<td>Voltage</td>
<td>12 [V] DC</td>
</tr>
<tr>
<td>Power</td>
<td>24 [W]</td>
</tr>
<tr>
<td>AC adapter</td>
<td>12 [V] ~ 5.0 [A]</td>
</tr>
<tr>
<td>Dimensions</td>
<td>600 x 340 x 360 [mm] (23.6 x 13.4 x 14.2 [in])</td>
</tr>
<tr>
<td>Total weight</td>
<td>22.5 [kg] (49.6 [lbs])</td>
</tr>
<tr>
<td>Powder capacit</td>
<td>5 [L]</td>
</tr>
<tr>
<td>Rotating parts speed</td>
<td>3000 [rpm]</td>
</tr>
<tr>
<td>Certificates</td>
<td>CE, FCC</td>
</tr>
</tbody>
</table>
4. Important safeguards and warnings

**IMPORTANT!**
- To ensure the safe use of the Sinterit POWDER SIEVE product, please read and follow the instructions below.
- Keep this manual for future use. Also, be sure to follow all warnings and instructions marked on the product.

**IMPORTANT!**
Only trained and qualified personnel should install, replace or service the equipment and the device should be installed in accordance with these instructions.

### A. ENVIRONMENT AND PLACE OF INSTALLATION

**WARNING!**
- The powder sieve must be positioned protected against atmospheric agents (rain, hail, snow, fog, dusts in suspension, etc.) with an environmental running temperature between 5°C and 45°C and relative humidity not above 70%.
- Do not place or store the product in places subject to shocks, vibrations.
- The work environment must be clean, well-enough lit and devoid of the explosive atmosphere (in areas with high dust).
- The product should be placed on a flat, stable surface that extends beyond all edges of the product. The product will not work properly if it is set at an angle.

**WARNING!**
- Fire and explosion hazard! The device must not be operated in a corrosive or explosive environment.
- Avoid using the device near water, close to open flames or sources of heat.
- Do not place or store the product near inflammable and volatile substances, concentrated acids or corrosive vapours.
- Avoid prolonged contact with solvents and inhaling their vapours.

### B. GENERAL SAFETY RULES

**WARNING!**
- Only adults should use powder sieve.
- When using the machine, mind other people, especially children.
- Climbing on the powder sieve is forbidden.

**ATTENTION!**
- Risk of crushing upper limbs while closing the Lid from the top chamber.
- Never place hands between the Door and front chamber while locking.
- Do not put hands between Flange adapter and Metal container during assembly.

**ATTENTION!**
- Check the device previous to each use for damaged and/or defect parts.
- In case of a defect, or when the machine does not function properly, first have it repaired by a specialized person/company.
## C. PERSONAL PROTECTION

### ATTENTION!
- The operator must always wear antistatic clothes and shoes.
- The floor of the area must be antistatic.

### ATTENTION!
- Prevent breathing in dust at all times, wear respiratory protection at all times. 
  When one enters the room where the powder sieve stands with regard to particulate matter that is released during the sieving.
- Breathing in particulate matter causes serious lung problems.
- At all times wear Protective Dust Mask and Protective Glasses when opening the Lid/Door after using the machine (e.g. you can use the “PERSONAL PROTECTION” set included with Lisa printers).

### ATTENTION!
After each use of the Sinterit POWDER SIEVE, wash your hands.

## D. POWER SUPPLY

### WARNING!
- Before plugging in, make sure the power voltage and frequency are those shown on the machine safety plate.
- Use only the power supply that meets the power and safety conditions.
- Do not use cables/supplies from other devices. Using the power cables from other devices or connecting the power supply supplied with the product to other devices may cause a fire or electric shock.
- When an extension cord is used for the power supply of the product, make sure that the total power consumption of all devices connected to it does not exceed the extension cord’s limit. Also, make sure that the total current drawn by connected equipment does not exceed the ampere rating for AC wall outlet.
- The device should be placed near a wall outlet, which can be easily unplugged.

### WARNING!
- When connecting/disconnecting the plug to/from the power source always hold the cover, not the cord.
- Pay special attention to the fact that the power cables are not bent at the points of connection of the sieve.
- During use, mind the power supply cables and avoid crushing, pulling, twisted or rubbed these.
- Periodically check the mains power cable to ensure it is not damaged.
- In the event of the cable, plugs or couplings being replaced, make sure these are protected against water spray and check mechanical strength.

### STOP!
- Never pull the machine by means of the power cable.
- In the event of the cable being damaged, the machine must not be used.
- Do not place objects on the power cables.
- Do not place power cables in a path where people will have to walk or run.
STOP!
• Never touch electric wires, switches, buttons, etc. with wet hands.
• Do not spill liquid on the product.
• Do not put any containers on the equipment, in particular containing water.
• Do not block or cover the vents and openings in the product.
• Do not touch live parts.

WARNING!
• Disconnect the plug whenever it is planned to shift/transfer the machine.
• If the device is not used for a long time (e.g. vacation), unplug the power supply from the socket.

E. SAFETY DURING SIEVING, REPAIR AND MAINTENANCE

WARNING!
In the following situations, unplug the product from the power supply and contact qualified service personnel:
• the power cord or plug is damaged;
• some liquid got into the product;
• the product has been dropped or the case damaged;
• the product does not operate properly or clear changes in efficiency have been observed.
Failure to heed these instructions may cause damage to materials and/or injures!

STOP!
• Never disassemble, modify or repair the power supply, plug or devices inside the sieve, except as described in the product’s manual.
• Do not adjust controls that are not described in the manual.

WARNING!
• All maintenance operations must be executed in a non-classified atmosphere.
• Only skilled persons should carry out repairs.
• Read the operator’s and maintenance manual carefully before using the cleaner or doing any maintenance jobs.
• During cleaning operations, maintenance jobs or when changing parts, the Power button must be off and the machine must be unplugged by removing the cable from the socket.
• During maintenance jobs, affix a notice to the appliance indicating „MACHINE BEING SERVICED, DO NOT START”.
### F. WORKING WITH POWDERS

**ATTENTION!**
When working with the polyamide powder or other designated printer powder for the Sinterit POWDER SIEVE always wear protective kit: glasses, gloves, dust mask (e.g. you can use the “PERSONAL PROTECTION” set included with Lisa printers).

**ATTENTION!**
- When working with a polyamide (PA) powder, avoid inhalation or swallowing and contact with skin and eyes.
- If the PA powder is inhaled, move to a place with fresh air and gargle thoroughly with plenty of water. If coughing develops, contact a physician.
- In case of swallowing PA powder, rinse your mouth with water and drink 1-3 glasses of water to dilute stomach contents. Contact your doctor.
- If the PA powder gets in your eyes, rinse them thoroughly with water. In case of persisting eye irritation, contact a physician.
- When the PA powder gets in contact with your skin, wash it with soap and water.

**ATTENTION!**
- Polyamide powder should be stored in tightly closed containers, in a room at room temperature and low humidity.
- The powder should be stored out of reach of children and pets.
- If the device is not used for a long time, the powder should be stored in a sealed package.

**WARNING!**
- Fire and explosion hazard!
- Do not attempt to burn/melt polyamide powder. The resulting sparks and hot mass, the powder is converted into can cause severe burns.
- Keep the polyamide powder away from fire.

**STOP!**
Do not dispose to municipal waste!
The used polyamide powder should be stored in sealed containers and disposed of in accordance with local policy of waste plastic material.

### G. SCRAPPING

**IMPORTANT!**
In case of scrapping, all the component parts of the powder sieve will have to be disposed of through adequate disposal channels in accordance with applicable legislation. Before scrapping, all plastic and rubber parts will have to be separated from the electrical material. Parts made of plastic, aluminium and steel only may be recycled if collected by special centres.
5. Initial startup of the Sinterit POWDER SIEVE after delivery

1. Carefully pull the powder sieve out of box 1 and remove the transport protections.
2. Place on a stable and hard surface (it is recommended for it to be the target location of the powder sieve).

**ATTENTION!**
Before installing the Sinterit POWDER SIEVE, carefully check if it hasn’t been damaged during transport.

**CAUTION!**
- The Lid 1 is heavy!
- The danger of crushing upper limbs when lowering the Lid.

**IMPORTANT!**
When opening the Lid or Door, hold it by the handles 3, 6, as they open violently.

3. Open the Lid 1 from the top chamber and remove the transport protections.
4. Open the Door 5 and remove the Metal container A by pulling the Flange 12 up.
5. Remove the Power supply B from the box (should be inside a Metal container).
6. Put the Metal container back under the Flange. Watch your fingers!
7. Check the levelling of the powder sieve. In case of problems, correct with Adjustable mounting feet 7.
8. Connect the Power supply B to the Power socket 9 and screw the Flange connector B' (correct connection – drawing on the safety plate) (Image 6). Next, connect to the power source.

Image 6. Correct connection of the Power supply to the powder sieve.
6. Sieving process

ATTENTION!
- Before starting any job with the powders, always wear Protective Glasses, Protective Dust mask, and Protective Gloves.
- You can use the "PERSONAL PROTECTION" set included with Sinterit Lisa printers.

CAUTION!
- The Lid is heavy!
- The danger of crushing upper limbs when lowering the Lid or closing the Door.

1. Open the Door and check that the Metal container is properly and tightly fitted under the Flange. If necessary, install a new one.
2. Close the Door by pressing it gently.
3. Open the Lid, holding the Door’s housing with your other hand.
4. Gently pour the powder from the Metal container (or from Lisa/Lisa PRO printer) into the Removeable Metal Sieve.
5. Clean the space around the Removeable Metal Sieve (e.g. using a brush). Pay special attention to the endstops near the Lid hinges (Image 7).

Image 7. Position of the Lid’s endstops.

6. Holding the Lid handle, close it.
7. Press the Power button quickly. The device should start working.
8. The powder sieve will work for about 18 minutes, then it will automatically switch off.
9. If the whole powder is already sieved, you can stop the powder sieve faster manually, by pressing for 3 sec the Power button.
SIEVING PROCESS

18 min

10 l

OF RECYCLED
POWDER

POWDER REFRESHING

18 min

10 l

POWDER REFRESHING

PRINT READY POWDER

IMPORTANT!

• You can watch the sieving progress through the Lid Viewing window. 
• The Sinterit Powder Sieve will stop working if you open the Lid or Door.
• If you press and hold the Power button, the machine will not start working. To run the device, please press and release the Power button immediately.

Image 8. Sieving and refreshing process.
7. Maintenance of the Sinterit POWDER SIEVE

This section describes the control and special maintenance operations crucial for keeping the Sinterit POWDER SIEVE in perfect working condition

**WARNING!**
Before replacing the accessories or beginning the assembly, repair, transport, or any form of maintenance, disconnect the Sinterit POWDER SIEVE from the power source.

**ATTENTION!**
Before starting any maintenance or cleaning job, always wear adequate protective clothing, eyewear, face mask, and/or gloves according to the type of job to be done.

**CAUTION!**
- The Lid is heavy!
- The danger of crushing upper limbs when lowering the Lid or closing the Door.

**IMPORTANT!**
Before starting any maintenance work, read and understand this user manual.

A. PERIODICAL MAINTENANCE

- After each use of the powder sieve, clean it with compressed air or with a Sinterit ATEX Vacuum Cleaner (we recommended). Clean both chamber (top and front).
- Check the Lid endstops and Door endstop. Clean them off from the powder and dust. Endstops work properly if, while the powder sieve is running, the user opens the Door or Lid and the motor automatically switches off.

![Image 9. Position of the Lid’s endstops and Door’s endstop.](image-url)
B. EXCHANGING/CLEANING REMOVEABLE METAL SIEVE

- In the Sinterit POWDER SIEVE, a Replaceable Metal Sieve is installed by default for powder PA12 SMOOTH. For the other powders available in the Sinterit offer there are dedicated sieves suitable for.
- It is highly recommended to clean the vibration module underneath the Removeable Metal Sieve regularly.

1. Disconnect the powder sieve from the power supply.
2. Holding the Lid handle, open it.
3. Vacuum/clean the top chamber (with Removeable Metal Sieve 11) if necessary.
4. Unscrew 6 Allen screws around the Removeable Metal Sieve. Use the supplied Allen key ($C$) (Image 10).


5. Remove the Removeable Metal Sieve.
6. Install a new one, or clean the vibration module and install the current Removeable Metal Sieve. Remember to tighten the Allen screws firmly.

<table>
<thead>
<tr>
<th>ATTENTION!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any other problems not described in this manual should be reported to Sinterit Support by contacting through:</td>
</tr>
<tr>
<td>• email: <a href="mailto:support@sinterit.com">support@sinterit.com</a></td>
</tr>
<tr>
<td>• WWW: sinterit.com/support-page/</td>
</tr>
<tr>
<td>• phone: +48 570 702 886</td>
</tr>
</tbody>
</table>
8. General legal information

Where this manual refers to Sinterit or the Company, this means Sinterit sp. z o.o. with its legal seat in Krakow, registered by the District Court for Kraków-Śródmieście in Krakow, XI Commercial Division of the National Court Register under number: 535095, NIP (tax number): 6793106416, with the share capital for a date of publication of this manual of PLN 102,050 (say: one hundred and two thousand and fifty).

This document contains material protected under copyright and industrial property laws. This means that the document may not be, including but not limited to, reproduced or modified without the consent of Sinterit.

This manual serves to assist you in the correct use of the device, perform basic maintenance and, if necessary, to solve simple problems, allowing you to maintain the device in a good condition.

This manual contains content exclusively for the provision of information and the use by individuals professionally trained and engaged in the operation and maintenance of the equipment described below.

The information contained in this document is intended for use only with the product called Sinterit POWDER SIEVE.

Due to the constant development of Sinterit’s products the information contained in this manual, specifications and markings are subject to change without notice.

9. Disclaimer

Sinterit is not responsible for any use of this information in relation to other products.

Sinterit is not liable for any damages, including but not limited to losses or lost profits, resulting from the use of any materials (consumables) other than those provided to the purchaser by Sinterit.

Sinterit is not liable to the purchaser of the product or any third party for any damages, including but not limited to losses or lost profits resulting from improper use of the product, particularly not in accordance with this manual, or modifications or repairs unauthorised by Sinterit or improper maintenance.

Although every effort has been taken to provide accurate information about the product, Sinterit assumes no responsibility for any incorrect information or omission. Sinterit reserves the right to correct any errors and disclaims any liability in situations resulting from these errors.

Further limitations or exclusions of Sinterit’s liability may result from the applicable laws or agreements entered into with the purchaser of the products.

10. Trademarks

Sinterit logo is a registered trademark of the Company.
11. Terms of warranty

The terms of the warranty are set forth in the agreement between the buyer and the Company. In case of a purchase made in the Sinterit online shop, the terms of the guarantee are specified in the Terms and Conditions, subject to the acceptance of the Customer before placing an order.

In case of purchases made outside the Sinterit online store, the warranty terms may be specified in the offer, or in another form chosen by the Company to provide the customer with relevant information before making a purchase decision.

Sinterit’s warranty does not cover including but not limited to:

• damages, abnormalities or malfunction caused by a client or any third party,
• damages, abnormalities or malfunction caused by inappropriate use, effects of force, insufficient or inappropriate maintenance, abnormal operating conditions, incorrect installation or inadequate servicing,
• damages, abnormalities or malfunction caused by dismantling, alterations, tuning or other changes of the product by a client or any third party made without written consent of Sinterit,
• damages, abnormalities or malfunction caused by or related to use of consumables other than those being supplied by Sinterit,
• damages, abnormalities or malfunction caused by or related to use of product against instructions/manuals or safety regulations,
• damages or abnormalities Sinterit is not liable for, according to the applicable law,
• damages exceeding the price paid by the client,
• costs incurred by the client in connection with the conclusion of the product sale agreement as well as storage and/or insurance of products,
• damages of property caused by the defect of the product,
• loss of profits,
• incidental, indirect, consequential damages.

The warranty does not cover any cleaning of working parts

12. Technical support

The latest information, technical support and versions of the manual are available by contacting us through:

• email: support@sinterit.com
• www: sinterit.com/support-page/
• phone: +48 570 702 886

The list of distributors and technical support in specific countries can be found at www.sinterit.com/contact
13. Our Powders and dedicated Removable Metal Sieves

Metal Sieve Module PA12 SMOOTH
(default installed in the Sinterit POWDER SIEVE)

Additional Metal Sieve Module PA11 ONYX

Additional Metal Sieve Module FLEXA and TPE
14. Life of the Powder

Removing powder after process

15. Compatibile solution for work with Powder from Sinterit

Clean & Easy

Keep powder under control

Sinterit Advanced Accessories  Sinterit Atex Vacuum Cleaner  Sinterit Powder Sieve