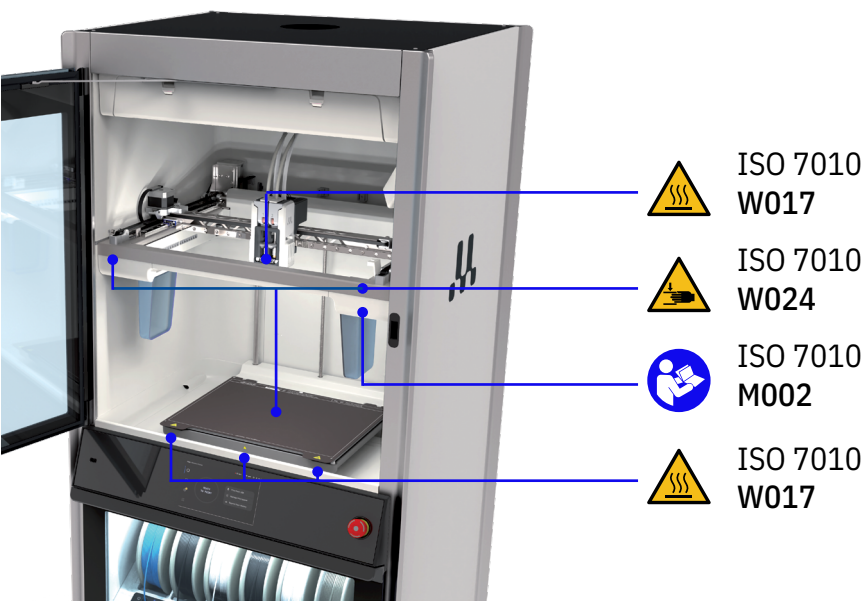
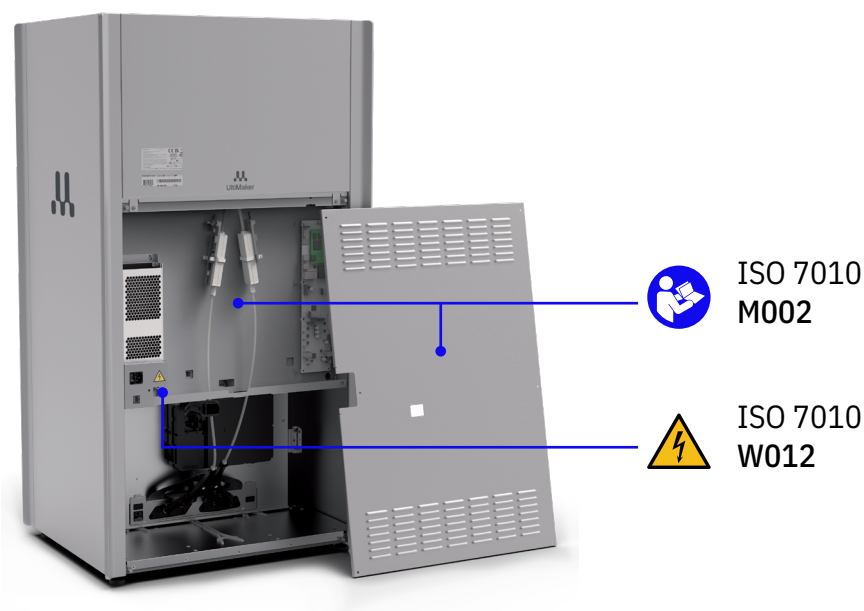




Safety and Warranty

 **UltiMaker Factor 4+**

# ISO 7010 symbols



# Certifications

## UltiMaker Factor 4+

**Power rating:** 100–240 VAC / 6A / 50–60 Hz  
**Product type:** 3D printer  
**Brand name:** UltiMaker  
**Model name:** UltiMaker Factor 4

**Designed and manufactured by:** Ultimaker B.V.  
Unieweg 1, 5301KS Zaltbommel, the Netherlands

**UK responsible person:** Comply Express Ltd.,  
Unit C2 Coalport House, Stafford Park 1,  
Telford, TF3 3BD, UK

Contains: **Tx FCC ID: 2A3G3-WMX6218;**  
**Tx FCC ID: 2AL8MMISP**

This device complies with Part 15 of FCC rules.

Operation is subject to the following conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

Contains **Tx IC: 27845-WMX6218; Tx IC: 23486-MISP**  
This Class A digital apparatus complies with Canadian  
RSS-247 Issue 2 and RSS-210.

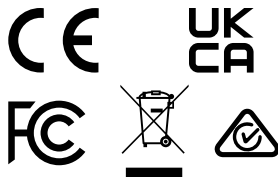
Contient : **Tx IC: 27845-WMX6218; Tx IC: 23486-MISP**  
Cet appareil numérique de la classe A est conforme aux  
normes CNR-247 Issue 2 et CNR-210 du Canada.

5GHz product for indoor use only.

屋内専用の5GHz製品。

仅用于商业用途

Made in the Netherlands / Fabricado en Países Bajos /  
Fabriqué aux Pays-Bas / 荷蘭製造 / דמלור תרצות /  
オランダ製



**R-R-UVB-Factor4**  
**R-R-EMW-WMX6218**  
**R-R-UVB-MS01**



**NOM** IFT: 3DULFA24-28371

CAN ICES-003(A) / NMB-003(A)

**CCAF20LP0980T8**

**CCAK22Y10070T0**

US responsible part and Importer of Record:

Makerbot Industries, LLC,  
1216 Broadway, Suite 302,  
New York, NY 10001

For the latest information, see the compliance label at the back of the printer or visit our website.



[ultim.kr/f4-compliance](https://ultim.kr/f4-compliance)

# UltiMaker Factor 4+

## Safety and warranty information

Read the important notices in this booklet to ensure the safety of the UltiMaker Factor 4+ and its operators. This document contains compliance and regulatory information, and the warranty policy.

 **Note:** The product names **UltiMaker Factor 4+** and **UltiMaker Factor 4 Plus** can be used interchangeably and both refer to the same model.

## Safety messages

The information provided in this document applies to the UltiMaker Factor 4+ when used with its original and optional additional compatible UltiMaker accessories ("**UltiMaker products**").

This document contains tips and notes:

 **Tip:** Additional information that is helpful to do a task or learn more.

 **Note:** Important information to avoid problems.

The following ISO warning symbols are also used in this document and on the printer:

 **Read the user manual** (ISO 7010-M002). Before using this product, read the complete user manual to learn about all its features and safety-related information. This symbol is placed on the gantry, on the back panel, and inside the back compartment.

 **Warning** (ISO 7010-W001). Warns of a situation that may cause material damage or injuries if the safety instructions are not followed.

 **Magnetic field** (ISO 7010-W006). This product contains magnets. Magnets are used in the build plate, print head, and Material Station door. Ensure a distance of > 4 cm from sensitive electronic equipment and any implanted electronic medical devices.

 **Electricity hazard** (ISO 7010-W012). This printer uses mains power, which is hazardous when touched. This symbol is placed on the power supply.

 **Hot surface** (ISO 7010-W017). The print head and build plate of this product can reach high temperatures. Always allow the machine to cool down before reaching inside. This symbol is placed on the print head and build plate.

 **Crushing of hands** (ISO 7010-W024). This product contains moving components. Never reach inside the printer while it is in operation. This symbol is placed on the gantry and underneath the build plate.

 **Tip:** For an overview of where these icons can be found on the printer, see the picture at the front of this booklet.

# General safety information

## Intended use and required skill level

- UltiMaker products shall only be used by persons who have carefully read and understood the user manual and the safety provisions in it.
- The UltiMaker Factor 4+ is targeted for professional and/or light industrial use and can be used by ordinary, instructed, and skilled persons. This manual describes operations that may require different levels of qualifications to ensure safety. See definitions below.
- Unless stated otherwise in the respective (maintenance) instructions, maintenance activities shall only be carried out by skilled or instructed persons. Where stated so, specific activities can be carried out by ordinary persons as well.
- This product is not intended for use by children. This equipment is not suitable for use in locations where children are likely to be present.
- UltiMaker products are not intended for use by persons with reduced physical and/or mental capabilities, or persons with a lack of experience and knowledge, unless they are supervised or have been given instructions concerning the use of the product by a person responsible for their safety.

Definitions of ordinary, instructed, and skilled persons:

- **Ordinary person.** A person other than an instructed or skilled person. Ordinary persons can start and remove print jobs and perform basic operations such as loading material or changing print cores, provided they have read and understood the manual and safety instructions. Performing other actions is only allowed when explicitly stated in the respective manuals (including e.g. maintenance instructions).
- **Instructed person.** Someone who has been instructed and trained by a skilled person. Instructed persons are allowed to perform the same actions as an ordinary person, plus maintenance actions as indicated in the manuals. Can perform actions of a skilled person when supervised by a skilled person who is responsible for the instructed person's safety, e.g. as part of a training to become a skilled person.
- **Skilled person.** A term applied to persons who have been trained or have experience in the equipment technology, particularly in knowing the various energies and energy magnitudes employed in the equipment. Skilled persons are expected to use their training and experience to recognize energy sources capable of causing pain or injury and to take action for protection from injury from those energies.

## General safety notices

- UltiMaker 3D printers generate high temperatures and have hot moving parts that can cause injury. Never reach inside UltiMaker 3D printers while they are in operation. Control the printer using the touchscreen, power switch, or via UltiMaker Digital Factory.
- The red stop button at the front of this product can be used to instantly stop the printing process. Please note that pressing this button will stop the supply of power to moving and heating parts, but surfaces may still remain hot for a while.
- Allow the UltiMaker 3D printers to cool down sufficiently before reaching inside, unless explicitly stated otherwise for certain (maintenance) processes. Always wait until the display indicates that the build plate has cooled down to a safe temperature.
- Do not change or adjust any parts of the product unless the change or adjustment is authorized by UltiMaker.
- Do not store items inside UltiMaker products, except compatible material spools in the Material Station.
- Do not store items on top of the UltiMaker Factor 4+ and never cover the exhaust in the top panel.
- When performing maintenance procedures, follow the guided procedures in the printer's firmware where possible. Otherwise, turn off the printer to ensure new print jobs cannot start unexpectedly.
- If the door must be opened to remove the print, change the printer configuration, or for maintenance or repair actions, close the door immediately afterward to prevent the risk of bumping into it.

# Hazards

## Electrical safety

-  The UltiMaker Factor 4+ is powered by mains voltage, which is hazardous when touched. The power supply and electronics are located at the back of the printer. Always turn off the printer and disconnect the power cable before removing the back panel. Only skilled or instructed persons should remove the back panel while the power is on. Always check local regulations.
-  **Warning:** Always reinstall the back panel after maintenance and/or service actions.
-  A mains socket with a protective earth/ground terminal must be used. Make sure that the building installation has dedicated means of over-current and short-circuit protection. Use a circuit breaker with a current rating not exceeding 16A (for 220–240 VAC circuits) or 20A (for 100–120 VAC circuits).
-  **Warning:** Only use the original power cable supplied with the device. Do not damage, cut, or repair the cable. A damaged cable should be immediately replaced with a new one.
-  **Warning:** Always unplug the product before performing maintenance or modifications, unless explicitly stated otherwise for certain (maintenance) processes.

## Mechanical safety

-  **Pinching and entanglement hazard.** Do not reach into the gantry area of the printer during operation due to a pinching hazard. Do not lean over the gantry during operation and/or maintenance due to risk of entanglement of hair, jewelry, and/or scarfs. This may cause minor pain, but no significant injury to the user is expected from pinching or entanglement by the drive belts or X beam.
-  **Crushing and pinching hazard.** The force of the build plate is limited but may cause minor injury, so stay out of the reach of the build plate during operation.

 **Note:** Keep the door closed during operation unless explicitly stated otherwise for certain (maintenance) processes. The printer will pause when the door is opened during printing.

## Risk of burns

-  **Hot surface hazard.** There is a potential risk of burns: the print heads of the UltiMaker 3D printers can reach temperatures above 200 °C, while the heated bed can reach temperatures above 100 °C. Do not touch either of these parts with your bare hands. This symbol is placed on the print head and on the build plate to warn the user about this hazard.
-  **Warning:** Allow the UltiMaker 3D printers to cool down sufficiently before reaching inside, or performing maintenance or modifications, unless explicitly stated otherwise for certain processes. Always wait until the display indicates that the build plate has cooled down to a safe temperature.

## Emission hazard

During 3D printing, Ultrafine Particles (UFPs), Volatile Organic Compounds (VOCs), and other chemical substances may be emitted. Above certain concentrations (Threshold Limit Values, TLV), these emissions can pose a risk. Concentrations are influenced by the filament and adhesive used, print conditions (e.g. print temperature), room volume, Air Exchange Rate (AER), and number of printers in a room.

The UltiMaker Factor 4+ has an integrated air management system with HEPA filter, which filters Ultrafine Particles generated during the 3D printing process.

 **Tip:** UltiMaker products are designed for use with UltiMaker materials and are open for use with materials from third-party suppliers.

- **Safe use information for UltiMaker materials.** UltiMaker materials can be printed safely without any additional filtering using the recommended temperatures and settings in a well-ventilated area (minimum refresh rate or AER of 1.8 for a room size of 30.6 m<sup>3</sup>). When multiple UltiMaker 3D printers are operated in a contained environment, concentrations of UFPs and/or VOCs will increase. Depending on the specific situation, please consider other safety measures, such as a dedicated ventilation system.
- **Safe use information for third-party materials.** Make sure to check with your material supplier whether additional risks and safety measures apply. Additional safety measures may be required for the safe usage of such materials. Always take the relevant information provided by the supplier of third-party materials into account for safe operation. Please check the safety data sheet of each specific material for information. UltiMaker cannot be held responsible for any adverse effects from the use and/or performance of third-party materials.

## Magnetic field

- ⚠ **Static magnetic field hazard.** Due to the static magnetic field caused by the magnets in the printer, keep a distance of at least 4 cm (1.5 in) between these magnets and any implanted electronic medical devices and implants containing ferromagnetic materials. Magnets are used in the build plate, print head, and Material Station door.

## Personal protective equipment

The following items are recommended for safely working with the UltiMaker Factor 4+, particularly during maintenance:

- **Tweezers.** Required for safely removing material residue from the nozzle tips.
- **Thermal gloves.** Recommended when cleaning the nozzles, as they will be hot during this process.
- **Protective gloves.** Recommended when removing brims or support structures from the printed parts, or when using tools to remove objects from the build plate.
- **Safety glasses.** Recommended when removing support structures, performing certain post-processing tasks, or in other situations with an increased risk of injury.

- ℹ **Note:** Situations where personal protective equipment is recommended are referenced throughout the user manual. For more information, refer to the product's user manual or visit [ultimaker.com/f4-compliance](https://ultimaker.com/f4-compliance).

## Regulatory information

### EC Declaration of Conformity

The UltiMaker Factor 4+ is compliant towards the essential requirements and other relevant provisions of the Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU, RED 2014/53/EU, RoHS Directive 2011/65/EU, and WEEE Directive 2012/19/EU.

- ✓ **Tip:** A signed copy of the full EC declaration of conformity (English) can be downloaded from our website.

### Global compliance

For additional country-specific compliance information, please refer to the product's user manual or visit [ultimaker.com/f4-compliance](https://ultimaker.com/f4-compliance).

- ✓ **Tip:** See the compliance label at the back of the printer for regional certification labeling.

# Limited Warranty

UltiMaker offers a limited warranty on new units of the UltiMaker Factor 4+ 3D printer. Find all the terms and conditions [here](#).

## General

This limited warranty (“**Limited Warranty**”) applies to the UltiMaker Factor 4+ 3D printer (“**Product**”) in the country where the Product was purchased. UltiMaker warrants to the first end user (“**End User**”) that the Product conforms to the Product specifications published in the user manual, and is free from defects in material, design, and workmanship for a period of twelve (12) months from the date the Product is delivered to the End User (the “**Warranty Period**”). Only the End User is eligible to submit a warranty claim.

For a warranty claim to be valid: (i) notification must be made during the Warranty Period, (ii) the claim must be substantiated with the original customer’s purchase invoice, and (iii) the serial number sticker must still be on the Product(s).

This Limited Warranty does not affect an End User’s statutory warranty or guarantee rights; it is granted in addition thereto. The End User may claim the rights to which they are entitled under the Limited Warranty without prejudice to their rights or claims in accordance with the law.

## Conditions

The Limited Warranty applies to a Product under the following conditions:

- The Product was sold, delivered, and assembled by UltiMaker or a recognized UltiMaker reseller (collectively “**Authorized Party**” or “**Authorized Parties**”). See [ultimaker.com/resellers](https://ultimaker.com/resellers) for a list of authorized resellers of UltiMaker products.
- The Product was newly manufactured on the date of purchase and not sold as used, refurbished, or manufacturing seconds.
- UltiMaker’s latest software was installed and used in and with the Product.
- UltiMaker installation and maintenance instructions as described in the manual for the Product have been observed.

If a part of the Product is repaired or replaced during the Warranty Period, the remaining Warranty Period for the Product applies. However, repair and/or replacement will not extend the Warranty Period for the part or Product.

## Claim handling

Any notification on the basis of this Limited Warranty must be made to the Authorized Party the Product was originally purchased, even if this is not in the customer’s present country of residence.

UltiMaker or its authorized reseller will assess warranty claims to determine their validity. If the claim is justified, UltiMaker or the reseller shall rectify the defects by repairing or replacing the non-conforming or damaged part(s) of the Product in a commercially reasonable time. If repair is not feasible, the reseller will replace the Product with an identical one, or if unavailable, with a similar Product of equal value, or offer a suitable refund.

Only ship the Product in its original packaging if it must be returned for warranty purposes. It is advised to retain all packaging materials. If the original packaging is not available anymore, replacement packaging can be purchased from a recognized UltiMaker reseller. For returning service modules, such as the gantry or Material Station, packaging will be provided.

Please note that the Limited Warranty may not cover expenses associated with shipping Product(s) for inspection and/or repair, on-site visits for inspection and/or repair, or shipping replacement or repaired Product(s) to the End User.

## Exclusions

This Limited Warranty does not apply to and therefore does not cover:

- Any defect or damage caused by inappropriate, incorrect, or improper use, installation, maintenance, operation, and cleaning, or normal wear and tear. For correct use, reference is made to the manual of the Product.
- Consumables, such as the print cores and Bowden tubes.
- Damage caused by third-party software, materials, or add-ons\*.
- Any other event, act, default, or omission outside UltiMaker's control.

This Limited Warranty does not extend to products purchased from unauthorized resellers.

\* Users are permitted to use third-party materials and accessories without voiding the Limited Warranty. However, if any damage to the product arises from the use of third-party elements, the affected part(s) will be excluded from Limited Warranty coverage.

## Limitations and disclaimers

THIS LIMITED WARRANTY IS THE END USER'S SOLE AND EXCLUSIVE REMEDY AGAINST ULTIMAKER WHERE PERMITTED BY LAW. EXCEPT FOR THIS LIMITED WARRANTY, ULTIMAKER MAKES NO OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, WITH REGARD TO THE PERFORMANCE OF ANY PRODUCT. WITHOUT LIMITATION OF THE FOREGOING, ALL IMPLIED WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. ULTIMAKER WAIVES ALL LIABILITY FOR ANY INDIRECT, INCIDENTAL, COLLATERAL, EXEMPLARY, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF USE OR LOSS OF PROFITS, EVEN IF ULTIMAKER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH CLAIMS OR DAMAGES. ULTIMAKER'S LIABILITY IS LIMITED TO THE PURCHASE VALUE OF THE PRODUCT.

## Applicable law and competent court

This Limited Warranty is exclusively governed by Dutch law. Any dispute arising out of or in connection with this Limited Warranty will be exclusively submitted to the jurisdiction of the court (Rechtbank) of Midden-Nederland, location Utrecht.

**UltiMaker**  
Unieweg 1  
5301 KS  
Zaltbommel  
The Netherlands



[ultimaker.com](https://ultimaker.com)



[support.ultimaker.com](https://support.ultimaker.com)



[ultimaker.com/resellers](https://ultimaker.com/resellers)



[ultim.kr/f4-compliance](https://ultim.kr/f4-compliance)

