

GENERA.



Creation made reliable.

G2+ | F2+

G2+ PRINTER

G2+

Higher Volume. More Speed.

3D printing production like never before. The G2+ was developed for industrial use, for service providers and factories alike. It is capable of doubling the output, since it can print two separate jobs without supervision. An innovative resin vat system offers maximum flexibility with minimal set-up times. Future production challenges are addressed by the G2+ with an ever expanding and updating parameter database for new materials. Output increases, while printing costs stay low. While the handling of printed components of conventional 3D printers is often arduous and unclean, the G2+ offers a glove-free workflow for clean, easy, and reliable production. The G2+ prints in 4K resolution and three different pixel sizes (40, 70 and 100 μm) in one system. No matter what the needed printing accuracy is, G2+ has the solution in one system.

G2+ improvements & upgrades

- More UV power output and stability
- Featuring advanced active cooling
- More precision and accuracy on pixel level
- New leveling system for enhanced durability and repeatability
- New optical window design for more power output and accuracy
- Enhanced carbon filters and positioning

HARD FACTS

Print volume	
@100 μm	Pixel size
x: 384 mm	100 μm
y: 216 mm	70 μm
z: 320 mm	40 μm
Wavelength	Speed
385 nm DLP	Up to 3 mm/min*
Light intensity	4K Resolution
max. 25 mW/cm ²	(3840x2160)

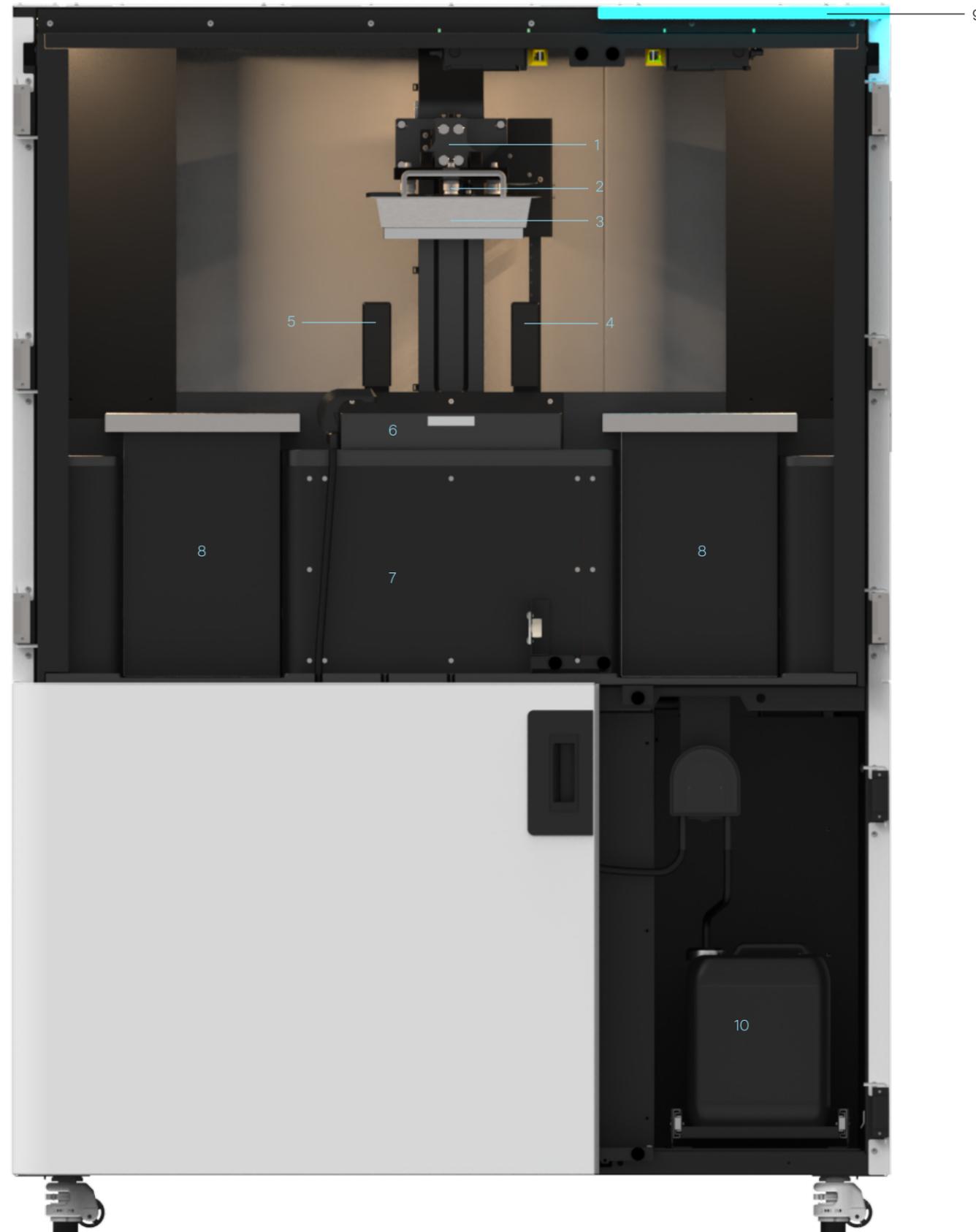
Automatic platform change, multiple prints, and glove free process

Continuous production with shuttle system

Documentation and traceability by RFID tag and database

*depending on material and resolution





MACHINE COMPONENTS

- 1 Print diagnostic sensors
- 2 Automatic handling system for platforms
- 3 Heated build platform
- 4 Resin temperature sensor
- 5 Resin level sensor
- 6 Special heatable vat system for fast printing and low adhesion
- 7 4K 385 nm DLP light engine with variable pixel size (40, 70 and 100 μm)
- 8 Glove-free process with two RFID-tagged shuttles
- 9 LED for status information
- 10 Resin tank and lightproof, automated resin dispensing system for high throughput production
- 11 Secure, fully enclosed, air filtered machine for use in office environment
- 12 Human Machine Interface (HMI) with machine control, part preview, and printing progress

F2+ POST-PROCESSING UNIT

F2+

Industrial. Clean. Automated.

Forget everything you know about post-processing. The intelligent washing program of the F2+ adapts to the structure of the printed component and the material used, providing perfect surfaces and printing results every time. The cleaning function is integrated in our innovative washing-shuttle. The F2+ is complemented by an improved UV post-curing chamber connected to a fully automated cleaning process for the very first time. With high optical performance and homogeneous radiation, the F2+ produces the best mechanical properties for printed components.

Whether you want to print 1 or 1000 parts, the F2+ produces quality results.

F2+ improvements & upgrades

- New washing-shuttle design with enhanced draining
- New direct drive stirrer
- New rotor design for more agitation and cleaning of small features
- More powerful UV post curing chamber with advanced heating function
- Enhanced carbon filters and positioning

HARD FACTS

Active carbon filter for odor reduction

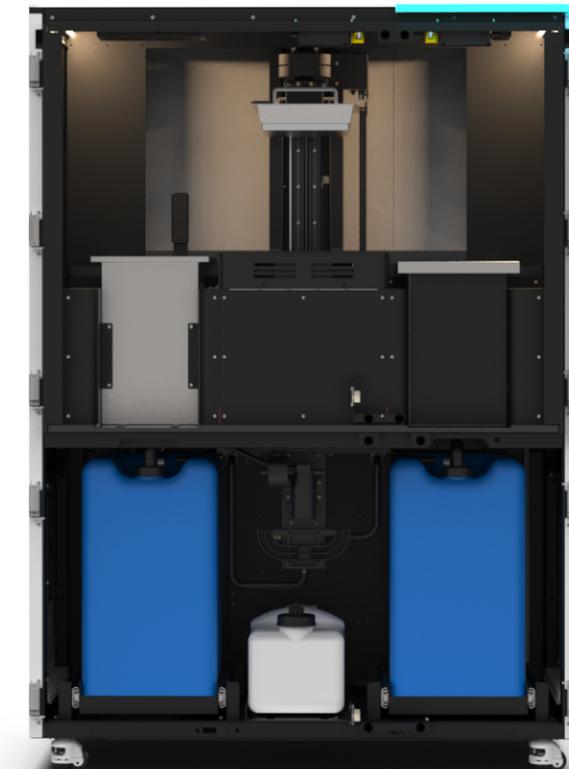
High power and uniform LED curing chamber @ 405 nm

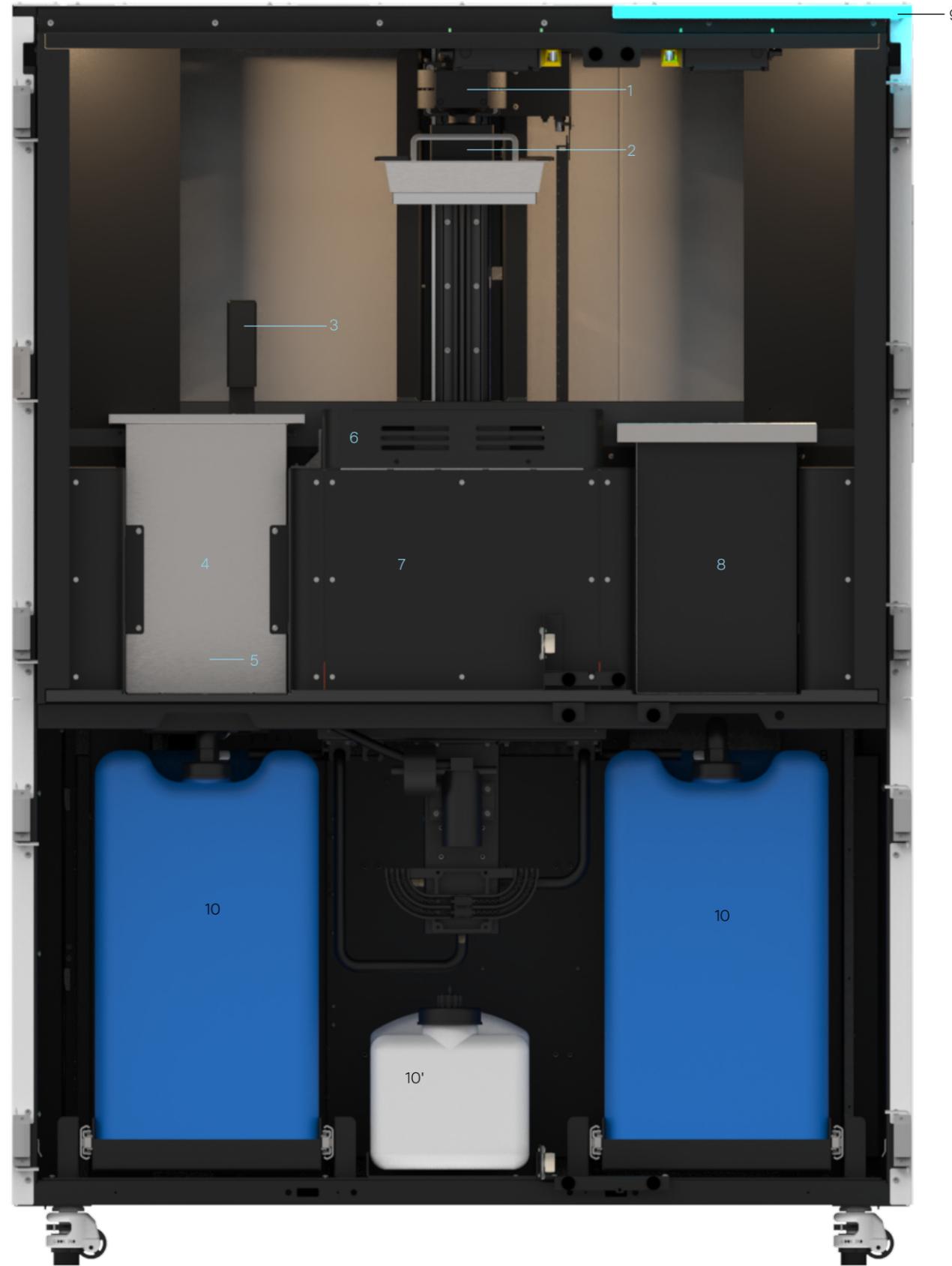
Post-curing in inert atmosphere with part tempering

Intelligent database for post-processing and documentation

Fully automated RFID-traced post-processing

Non-flammable cleaning fluid (Genera Clear3d)





MACHINE COMPONENTS

- 1 Intelligent Force Feedback System
- 2 Automatic handling system for platforms
- 3 Wash fluid level sensor
- 4 Glove-free process with washing-shuttle for fully automated pre- and post-washing
- 5 Integrated high power direct drive stirrer and protection for delicate and efficient cleaning of green parts
- 6 Heating unit (part drying and tempering)
 - o Sensor controlled
- 7 Post-curing chamber
 - o High-power and uniform LED panels
 - o Sensor controlled
 - o Inert atmosphere
- 8 Transport shuttle for glove-free part handling
- 9 LED for status information
- 10 2x 60 L cleaning fluid tank for pre- and post-wash including an overflow tank 10'
- 11 Secure, fully enclosed, air filtered machine for use in office environment
- 12 Human Machine Interface (HMI) with machine control, part preview and status



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