

LiQ 5

ADDITIVE MANUFACTURING FROM LSR SILICONE IN THE 4TH MACHINE GENERATION



OPTIONAL WITH SECOND PRINTHEAD FOR
PRINTING WITH SUPPORTMATERIAL



LOW COST, STRONG BENEFIT.

Our patented LAM process and all necessary process parameters are integrated in one printing system. The LiQ 5 is ready for use immediately after unboxing and with the compact design, it requires little space. The production process has a fast setup so components reach your customers more quickly and you are faster on the market.

EFFICIENT SERVICE CONCEPT.

We are here for you. With our service promise, we will help you quickly in a case of. Whether remote diagnostics for troubleshooting or maintenance checklists for your team. We tailor our service concept to your needs.

If your machine breaks down, we offer a quick solution with our service program. This minimizes downtime in your production.

HIGHLIGHT FEATURES LiQ 5.

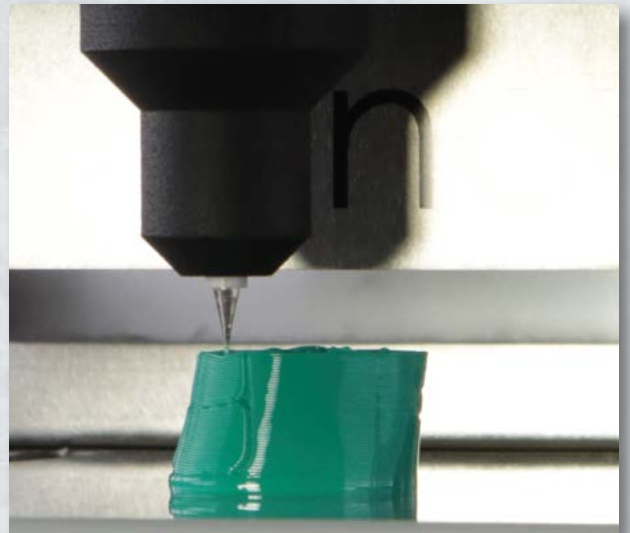


MAXIMUM PRODUCTIVITY.

With the powerful stepper motors, precise application of the material is guaranteed from the first second. The process-controlled volumetric extrusion enables high dynamics with optimum material density.

Intelligent SmartFunctions, such as automatic calibration of the nozzle after each print job or leveling of the print bed, make the operator's daily work easier.

The interaction of all components guarantees maximum productivity.



INTUITIVE CONTROL CONCEPT.



Our CNC-based control „GestiQPro“ comes with a 12-inch touchscreen. The operator has all functions and parameters in scope. Users can easily interact with the system via the user-friendly control panel.

The LiQ 5 works independently in stand-alone mode. You can also conveniently start your print jobs via remote access, using a tablet or computer.

COLORFUL FABRICATION.

The silicone printing of the LiQ 5 takes steps into new dimensions. SmartColoring allows the production of colored LSR components. The color density can be individually controlled using an intelligent color mixing system.

The result: colored and beautifully shaped components. SmartColoring is available as standard in your new LiQ 5. You only need to choose the color in the ink cartridge.



OPTIMAL PERFORMANCE THROUGH SMARTFUNCTIONS IN LiQ 5.

The SmartFunctions available in GestiQ-Pro support the LiQ 5 throughout the printing process. They operate as programmed sequences that link different functional steps together and thus increase effective use.

ALWAYS PRINT OPTIMALLY.

SmartNozzle is the calibration of the nozzle, which takes place nearly automatically after a nozzle change. Pneumatic nozzle cleaning is also smart. This ensures that your nozzle always remains optimal during the printing process and that the components can be created in a continuous beautifully shaped manner.

REDUCED SETUP TIME.

SmartStart reduces your workload efforts and your setup time. SmartStart works with a laser-assisted three-point process, which guarantees optimum adjustment of the print bed and thus exact adaptation to the component. Your designed component can be produced within a very short time, thanks to fully automated print bed leveling.



READY TO USE.

SmartCuring is innovatiQ's patented process for curing the LSR material. After the printing process, the components can be used immediately.

THE „EVERYTHING IN SCOPE“ OPTION.

SmartMonitoring is used at your desk to keep track of all your innovatiQ printing systems. All operating states are reported to the monitoring workstation in real time. As an additional option, SmartMonitoring is also available for connection to the Arburg ALS system.

SAFETY UNDER CONTROL.

SmartOperating allows the operating concept of the LiQ 5 to be user-based. This enables different levels of access rights to be firmly personally. Particularly smart when safety areas can be separated from operating groups.

SmartFunctions are the solution for reliable and-safe 3D prints.

TECHNICAL DATA OVERVIEW.

Print space (X/Y/Z):	250 x 320 x 150 mm
HMI:	GestiQ-Pro with 12-inch-Touch-Display
Print speed*:	up to 150 mm/s
Traversing speed*:	up to 200 mm/s
Repeat accuracy (X/Y):	+/- 0,05 mm
Layer thickness* (min.):	0,15-0,9 mm
Nozzle diameter:	0,23 mm / 0,44 / 0,86 mm
Material*:	Liquid Silicone Rubber (LSR), Shore 30A / 50A
Build chamber temperature:	actively heated up to 80 °C
Temperature material crosslinking:	Depending on process
Data exchange:	Stand-alone printing or network capable
Software-Slicer:	Included
Power consumption (max.):	2,3 kW, approx. 30 % in continuous operation
Power Supply:	230 V, 10 A (EU); 110 V, 20 A (US)
Dimensions (B/T/H):	1208 x 940 x 1968 mm
Weight:	approx. 600 kg
Technology:	LAM (Liquid Additive Manufacturing)
SmartColoring:	Incl. metering unit – without ink cartridge
Optional:	Second printhead for printing with support material



With the LAM process in the LiQ 5, you open up new possibilities in 3D printing from LSR material. Print functional parts that you can't make with conventional injection molding technology and without the time-consuming and costly creation of a mold.

* Variations depending on equipment/material/process