

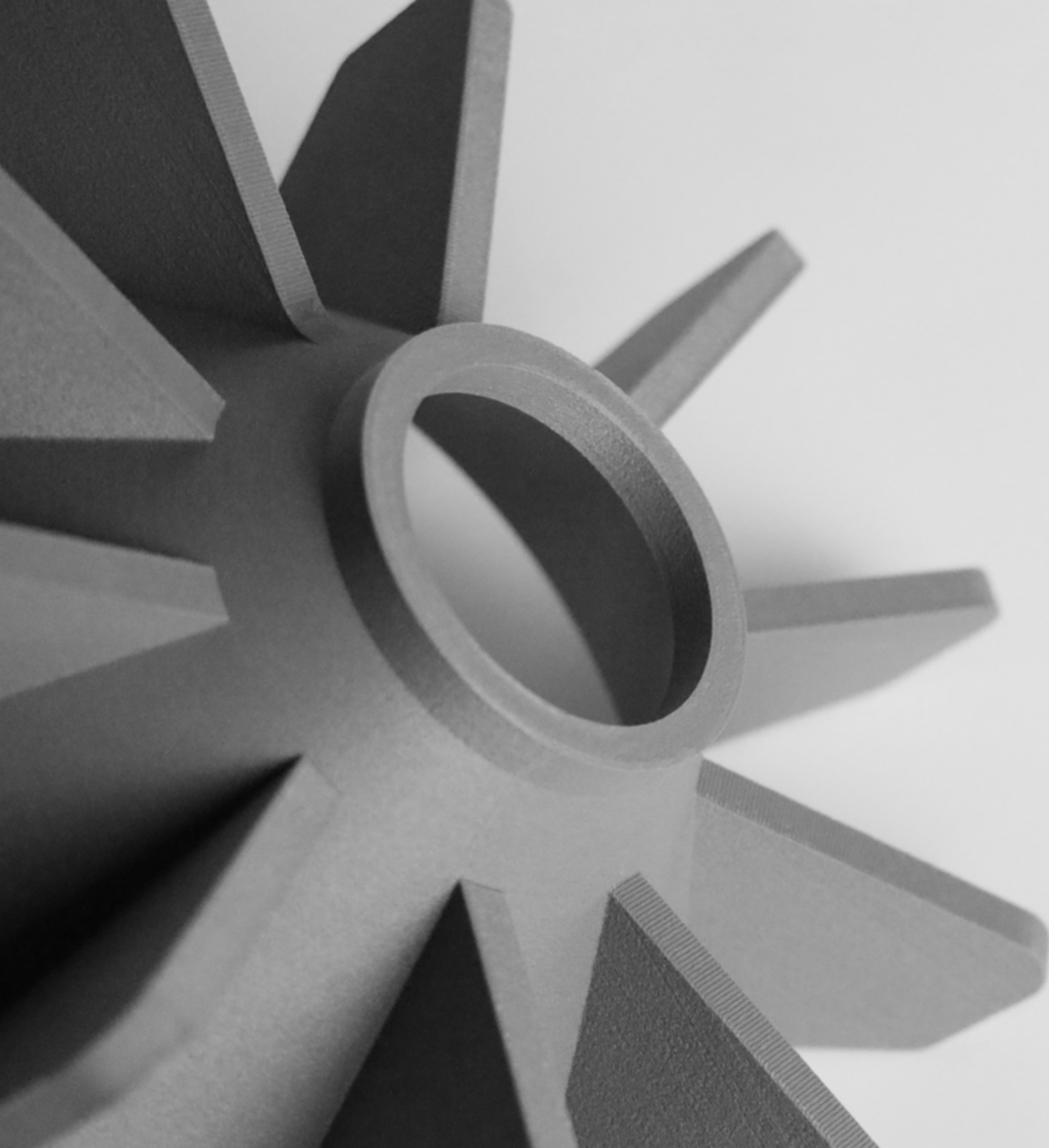
# LOOP PRO X SERIES



LARGE FORMAT COMPOSITE 3D PRINTERS

LOOP 3D

3D  
M 3D-MODEL



## UNPARALLELED SURFACE QUALITY

Combination of CNC-milled unibody aluminum casting and specially engineered mechatronics ensures high rigidity, minimal vibration, outstanding dimensional accuracy and unparalleled surface quality.

# PLUG-AND-PLAY MAINTENANCE

## Future proof and operator friendly processes to boost the productivity

Modular electronic components are designed to minimize the damage of potential issues without creating the need for on-site technical service. With different box designs that help to categorize the problems, the boxes are maintained according to the problem type, that is determined by spot detection. Any potential issue can be solved very fast without the risk of long downtimes.



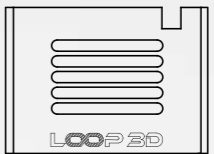
LOOP 3D Core +



LOOP 3D Core



LOOP 3D Connect



LOOP 3D Printhead



Calibration  
Check Tool



# DYNAMIDE®

## ENGINEERING GRADE MATERIALS

**DYNAMIDE®** is the brand of **fiber reinforced composite filaments** that have excellent mechanical and physical properties. It is not only a premium class material, which competes with many well-known materials in the industry, but also it is cost-effective. That makes DYNAMIDE® materials unique in the market. Materials are suitable for end-use parts and low volume manufacturing. Since many years **DYNAMIDE® CF** (Carbon fiber reinforced Polyamide 6) and **DYNAMIDE® GF** (Glass fiber reinforced Polyamide 6) were on the market and became part of many customer success stories. Now, our material portfolio is expanding with **DYNAMIDE® PA** (Polyamide without fiber reinforcement), **DYNAMIDE® ASA** (ABS alternative with UV resistance) and **DYNAMIDE® SS** (Soluble Support) materials.

### SUITABLE FOR TOOLING, JIGS & FIXTURES

Fixtures and jigs can be produced with DYNAMIDE® materials in a strong and durable way, as well as being faster and lighter than heavy metals. LOOP PRO X Series 3D Printers play a key role in the Industry 4.0 ecosystem, enable complex machining parts that are impossible to produce with traditional production methods to be used as auxiliary elements in the production network within hours.

### FUNCTIONAL END-USE PARTS

DYNAMIDE® industrial-grade composite filaments allow you to print durable end-use parts that can withstand up to around 210 Celsius degrees where many other material will yields around halfway. The 3D printed models are highly accurate, functional and look exceptional.

# AUTOMATED WORKFLOW

## Automatic filament changeover up to 4 materials

Smart machines with smart solutions that provide simplified and automated workflow for professionals or even beginner users. Instead of high level learning curves that need expertise, LOOP PRO X+ offers automation for material loading and changing processes. When filament runs-out during printing, thanks to smart hardware and software, printer can detect the run-out and change the filament with spare ones and automatically continue printing. No more disappointments or waste of operator time due to incomplete prints.

## USAGE SCENARIOS

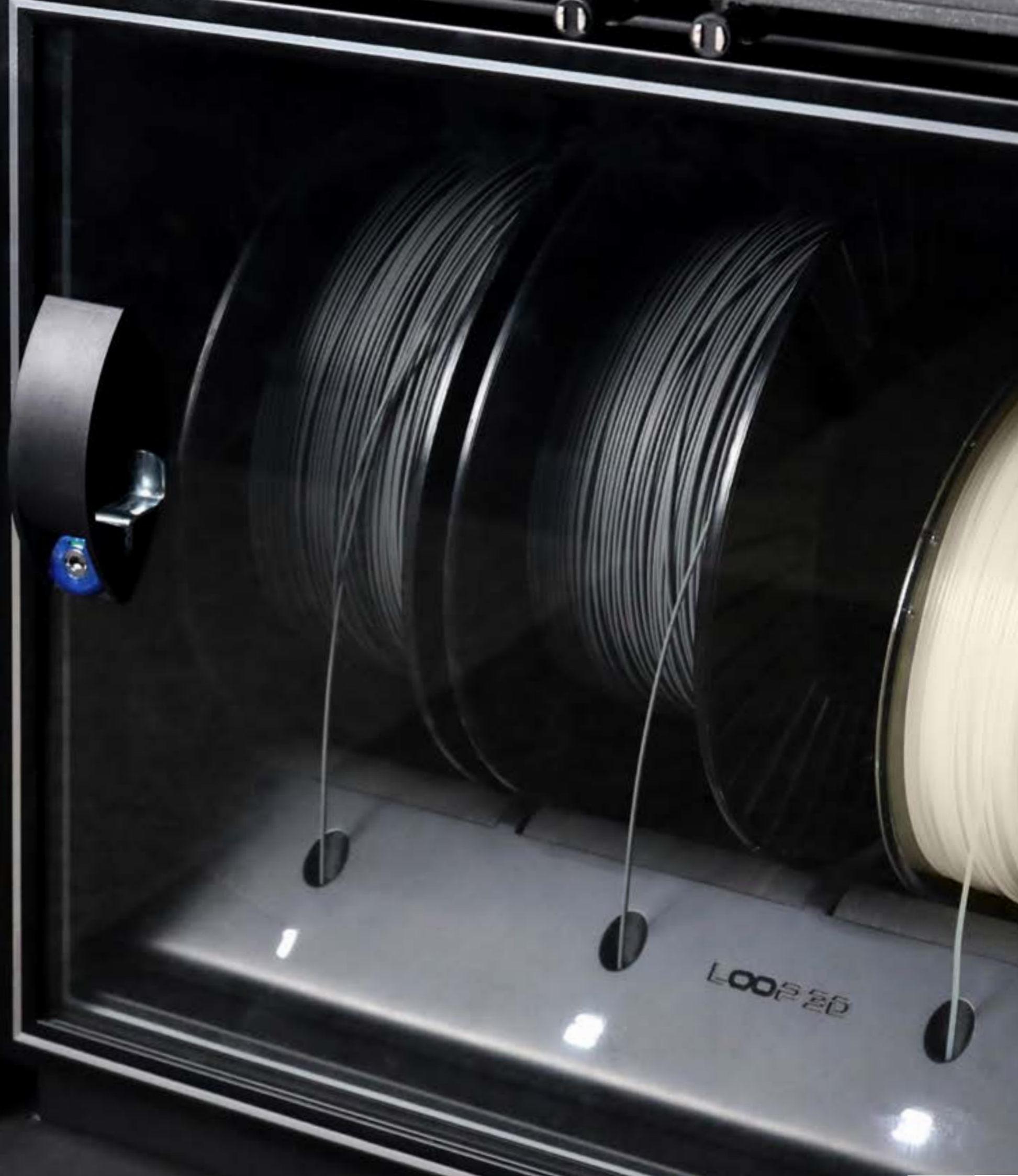
### EXAMPLE 1



### EXAMPLE 2\*



\* Continuous operation with up to 8 kg materials  
without operator intervention



# CLOUD SOFTWARE

## BROWSER BASED SLICING

All settings are designed and improved for software and hardware to work in a perfect harmony.



### FLEET MANAGEMENT

Manage a fleet of LOOP PRO X Series 3D Printers from one workstation to print series of end-use parts.



### REMOTE MONITORING

Monitor and manage LOOP PRO X Series 3D Printers from anywhere via laptop, tablet or mobile phone. Receive email notifications and timelapse videos regarding the print jobs.



### ADMIN-USER LEVELS FOR PRINTER MANAGEMENT

Authorize users to send print jobs to the printer directly or allow them to add jobs to queue, according to your organizational needs.

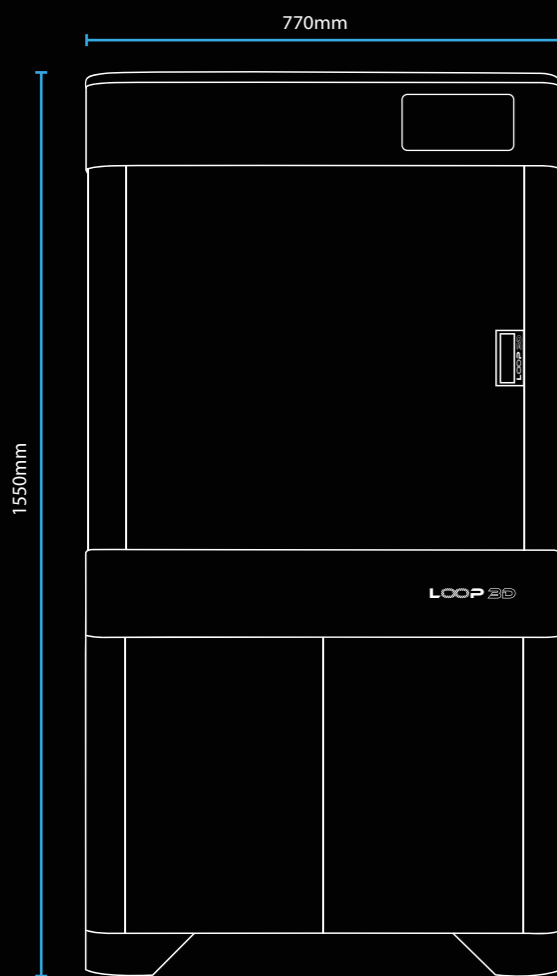


### EXPERT MODE

For more advanced users, expert mode is optionally available

\* LOOP 3D CLOUD requires internet access. For higher security reasons, fully offline (on-premise) version of LOOP 3D CLOUD which doesn't require internet access is available upon request and should be purchased separately. For more information, please ask to LOOP 3D Sales Representatives.





**LOOP PRO X**

**LOOP PRO X+**

	<b>LOOP PRO X</b>	<b>LOOP PRO X+</b>
<b>Build Volume</b>	500x350x500 mm (87,5 Litres)	500x350x500 mm (87,5 Litres)
<b>Available Materials</b>	DYNAMIDE® CF, DYNAMIDE® GF, DYNAMIDE® ASA, DYNAMIDE® PA	DYNAMIDE® CF, DYNAMIDE® GF, DYNAMIDE® ASA, DYNAMIDE® PA, DYNAMIDE® SS
<b>3rd Party Materials</b>	Open Material System	Open Material System
<b>Chassis Material</b>	CNC-Milled Unibody Aluminum Casting	CNC-Milled Unibody Aluminum Casting
<b>Modular Electronics</b>	LOOP 3D Core, LOOP 3D Connect	LOOP 3D Core+, LOOP 3D Connect
<b>Number of Extruders</b>	1	2
<b>Number of Printheads</b>	1	1
<b>Material Loading</b>	Software assisted / Manual	Hardware assisted / Automatic
<b>Material Run-Out Detection</b>	Software tracking only	Yes
<b>Automatic material changeover after run-out</b>	-	Yes
<b>Soluble Support / Multi-Material Printing</b>	-	Yes
<b>Automatic Cover Locks</b>	-	Yes
<b>Online Software</b>	LOOP 3D CLOUD 2.0	LOOP 3D CLOUD 2.0