



Apium P220

Apium enables the highest part quality in the additive production of high-performance polymers

The P220 is the only printer capable of printing both pure PEEK with high crystallinity and carbon fibre-reinforced PEEK with up to **30%** fibre content.



Best part tolerances

The patented **Adaptive Heating System** analyses the printing geometry and adjusts the heating power to achieve always an optimum energy input. **Without thermal post-treatment**, you get even finer details and compliance with narrow tolerances. Due to the high stiffness and strength, even embossing dies for aluminium and stainless steel sheets can be printed.

New extrusion technology

Our extruder was developed with flexibility and robustness in mind. The **feed force**, which is **four times higher** than that of its previous models, makes it possible to process fibre-reinforced high-performance polymers with a high percentage of filling. The specially designed filament guide **automates the loading process**.

Monitored printing process

By integrating a **camera system**, **temperature recording** and the use of **servo motors**, the printing process is continuously monitored. This allows the printer to intervene independently when deviations occur.





Reproducibility

Integrated **calibration routines** guarantee consistent part quality. The Apium print control software automatically notifies you about **maintenance** operations and guides you through the procedures step-by-step.

Documentation & Safety

All the important parameters of a printing process are automatically made available in a **PDF protocol**. The integrated user management prevents any unauthorized access. For your **data security**, we have decided against cloud based solutions.



Integrated Software

The control software is specially adapted to our printer hardware and optimized for processing high-performance polymers. An intuitive user interface allows easy operation of the printer. You can **manage print jobs** and check the status of the printer at any time.



Innovative Materials

The **open system** allows the use of other materials that are not available in our product portfolio. The P220 also allows the processing of **metal filled filaments** which can be sintered.

Technical Support

Our **service department** will train you in the handling of your printer. We will be happy to answer any questions you may have about the printer and other challenges of 3D printing of high performance polymers.



Build Size

205x155x150 mm

Printer Size

850x685x675 mm

Weight

65 kg

Machine Accuracy

10 µm horizontally
3 µm vertically

Nozzle Diameter

0,2 – 0,8 mm

Layer Thicknesses

0,05 – 0,6 mm

Wall Thickness

> 250 µm

Printhead-Temp.

Up to 540°C

Adaptive Heating

Up to 180°C

Printbed-Temp.

Up to 160°C

Printbed Material

Borosilicate glass

Power Consumption

700 W max.

Noise Emission

< 55 dB(A)

Data Formats

STL, OBJ, G-Code

Connectivity

WLAN*, Ethernet
*can be disabled

Materials

PEEK, PEEK-CFR,
PP, PEI ULTEM,
Smart ABS,
17-4PH, 316L

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