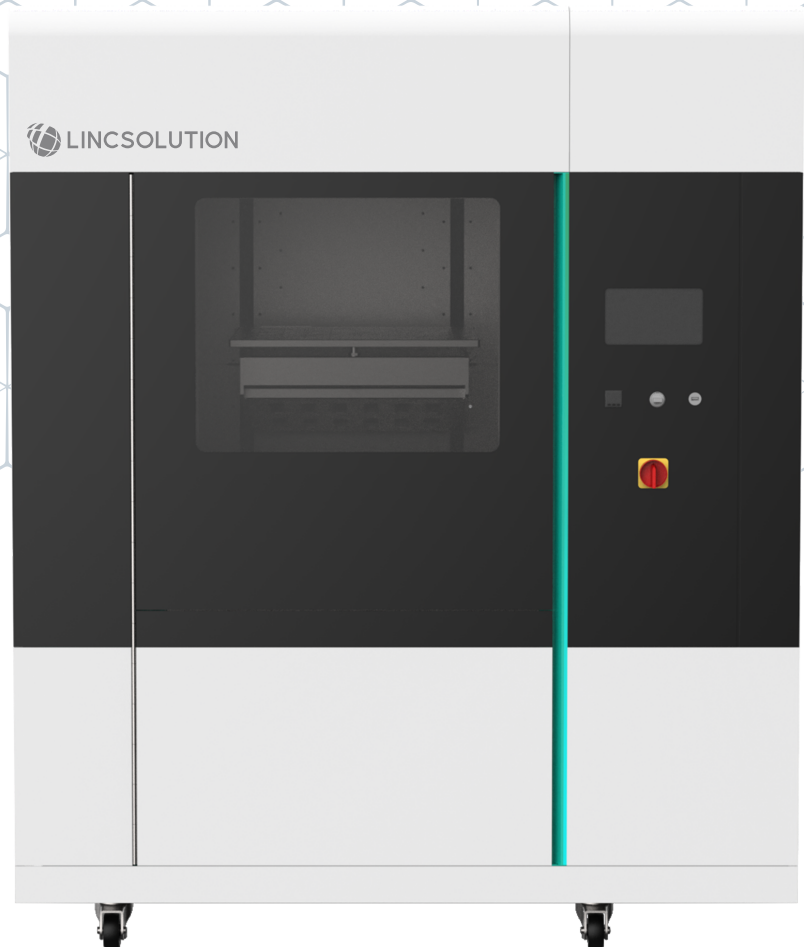


Material Extrusion

Engineering Plastics 3D Printer

LINK EP-500



HARDWARE

A complete 3D printer system optimized for super engineering plastic outputs

The mechanical properties of super engineering plastics are optimized by using a chamber capable of reaching 250 °C and a nozzle capable of reaching 510 °C. Objects can be produced with a precision of up to ± 0.05 mm. The printer has a convenient, user-friendly design and the sealing and ventilation system is designed to promote safe operation.



High Temperature Chamber

Z-axis rigidity fully achieved through a high temperature chamber and high temperature nozzle

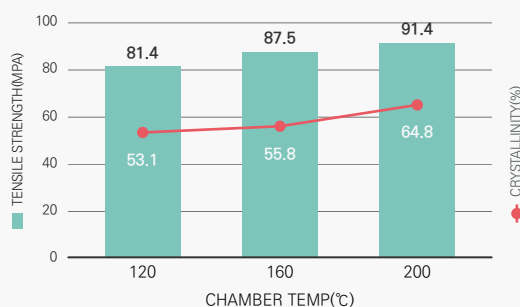
(1) Chamber temperature (120 °C)



(2) Chamber temperature (160 °C)

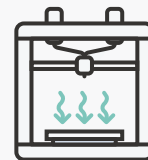


(3) Chamber temperature (200 °C)



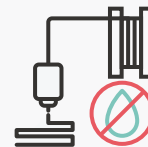
Data : High-temperature 3D printing of polyetheretherketone products:
Perspective on industrial manufacturing applications of super engineering plastics

PEEK strength achieved based on the chamber temperature



Vacuum Bed System

Vacuum bed technology facilitates part removal without damage



Automatic Dry Material Feed System

Automatic drying function added to the material feed system to prevent bubbles caused by moisture during printing and strength and material breakage after printing, allowing printed materials to be stored for longer without deformation

MATERIAL

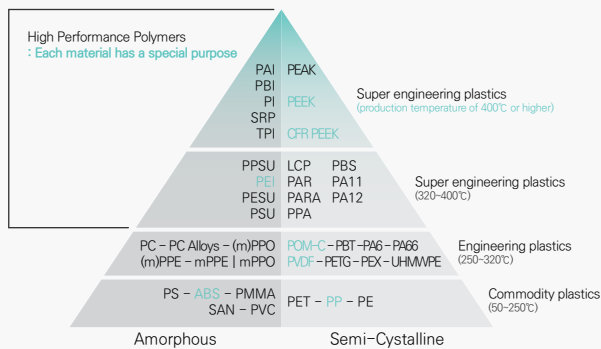
Customized materials and efficient maintenance service

This product is equipped with an open interface so that any material, from ABS to PEEK, can be used, reducing operating costs and giving users the freedom to print according to their specifications.

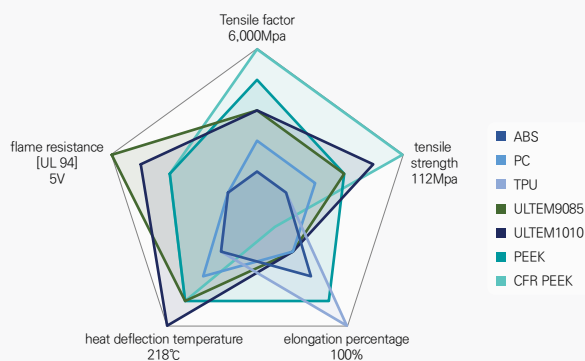


Material Agnostic

Users are not limited to using specific print materials

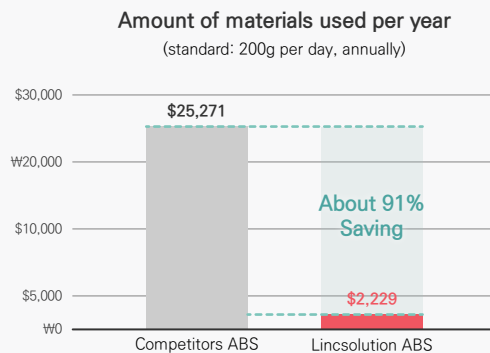


Material groups available for use



Low Maintenance Costs

The printer's ability to use a wide range of materials makes it convenient to operate and manage.



Material Cost Comparison



Examples of developed material applications



SPEC

Machine	LINK EP-500
Printer Type	FFF (Fused Filament Fabrication)
Dimensions	1470 × 1090 × 1910 mm
Weight	700 kg
Build Size	500 × 500 × 500 mm
Nozzle Type	LINK - HP Extruder Dual Nozzle
Filament Control System	Self-loading Filament
Plate System	Vacuum Bed System
Layer Resolution	0.05 mm to 0.35 mm
Nozzle Diameter	0.4 mm
Maximum Nozzle Temperature	up to 510°C
Maximum Chamber Temperature	up to 250°C
Chamber Heat-preserving System	±5°C
Accuracy	± 0.1/100 mm
Print Speed	2500 mm/min
Input Data File	OBJ, STL
Input Power	3-phase 4-wire, AC 380 V 20 kW
Support	Part Break & Water-soluble Support
Certifications	KC, CE
Materials	PEEK, CARBON PEEK, PEKK, PEAK, PPS, ULTEM, PP, ABS and Other Engineering Plastic

