anisoprint

STOP METAL THINKING → START ANISOPRINTING

CONTINUOUS FIBER 3D PRINTING FOR INDUSTRIAL-GRADE PARTS. STRONGER, LIGHTER AND CHEAPER THAN METAL OR NON-OPTIMIZED COMPOSITES.

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COMPOSITE FIBER CO-EXTRUSION
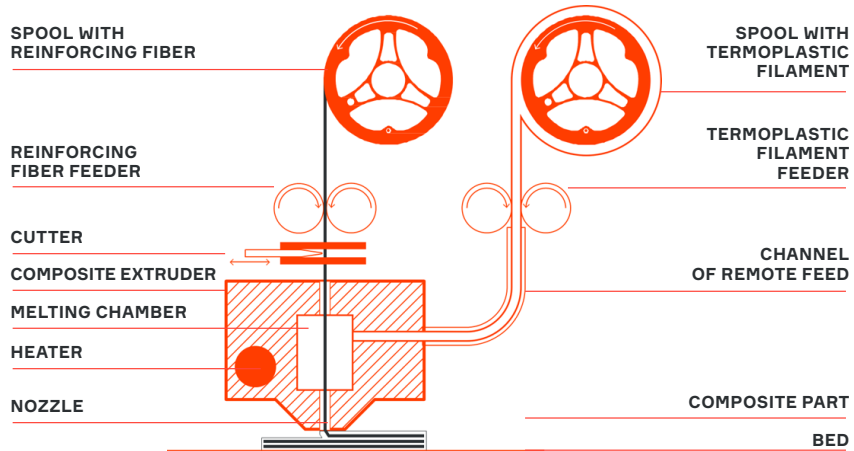
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Dry fiber + THERMOSET = Stiff fiber

ANISOPRINT COMPOSITE MATERIALS

Composite Carbon Fiber (CCF)
Composite Basalt Fiber (CBF)

2 During printing — COMPOSITE FIBER CO-EXTRUSION:

SPOOL WITH REINFORCING FIBER

SPOOL WITH TERMOPLASTIC FILAMENT

REINFORCING FIBER FEEDER

TERMOPLASTIC FILAMENT FEEDER

CUTTER

COMPOSITE EXTRUDER

CHANNEL OF REMOTE FEED

MELTING CHAMBER

HEATER

NOZZLE

COMPOSITE PART

BED

RESULT

DUAL-MATRIX COMPOSITE

Up to **20** times stronger than **plastic**
Up to **7** times lighter than **steel**
Up to **2** times stronger and lighter than **aluminum**


ANISOPRINTING is the technology for manufacturing optimized composite structures through continuous fiber 3D printing
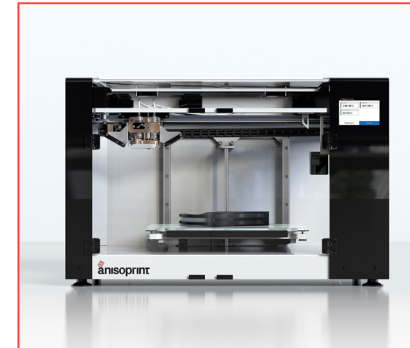
HARDWARE: DESKTOP 3D PRINTER COMPOSER

Compared to analogues:
- → printing reinforced lattice structures: lower weight, price and production time
- → open material system — any plastic with processing temperature up to 270ºC as a matrix (PETG, ABS, PC, PLA, PAs, etc)
- → lower porosity — higher strength
- → 30-50% lower material printing costs
- → complete control over fiber path generation
- → 2 sizes: A4 297×210×147мм & A3 420×297×210мм build area
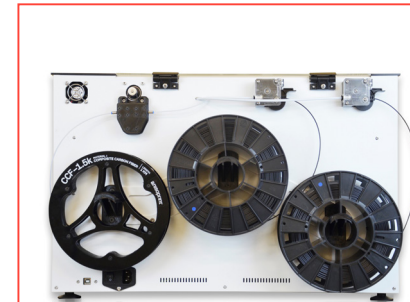
MATERIAL: COMPOSITE CARBON FIBER (CCF) and COMPOSITE BASALT FIBER (CBF)

Plastic reinforced with CCF or CBF:
- → up to **20** times stiffer and stronger than normal plastic
- → up to **7** times lighter than steel and strong as stainless steel
- → strength- and stiffness-to-weight ratio is more than **5** times higher than for 2024-T351 Aluminum
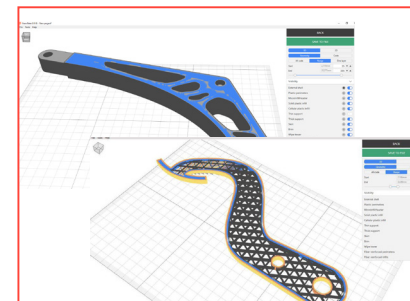
SLICING SOFTWARE: AURA

- → for FFF and CFC printers
- → support for STL and CAD formats: .stp, .3ds, .obj
- → model saved on a local PC
- → G-code generalization, geometry-view
- → separate setting and combining of printers, plastics and profiles
- → printing different parts with different materials
- → available for free