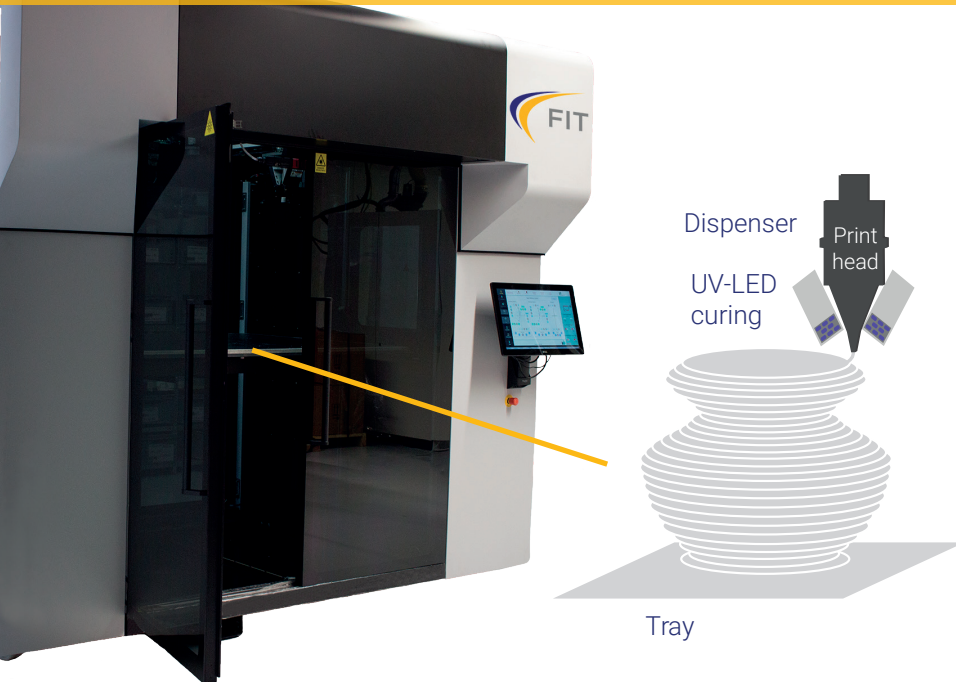


Technology & benefits of the process

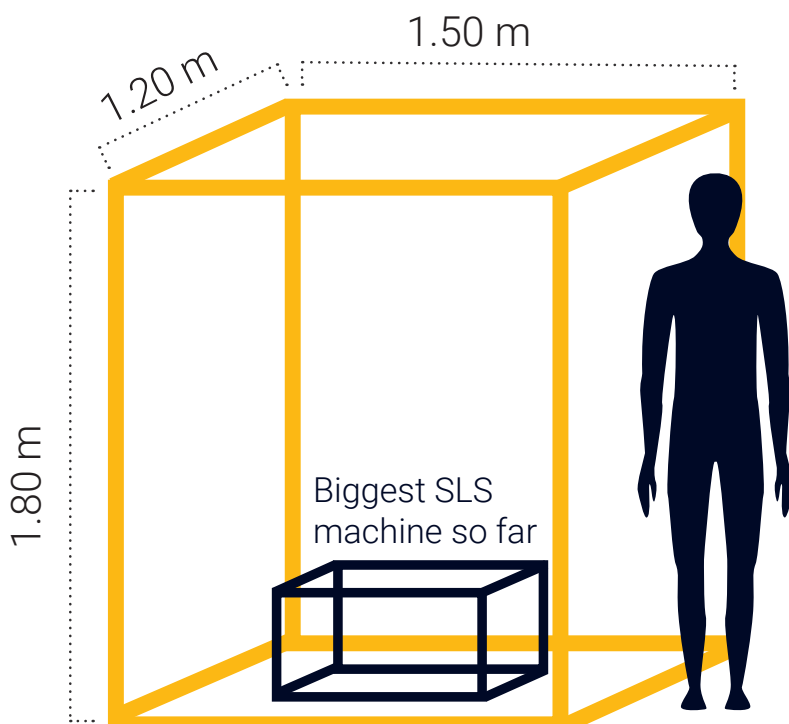
In „Gel Dispensing Printing“ (GDP) a special gel is extruded by a dispenser (print head) to form the part. The material is then hardened by UV-LED curing.



Benefits

- Manufacture of xxl parts
- Lightweight material
- No supports needed (e.g. for lids up to a diameter of 20 cm)
- Flame resistant according to DIN 4102 - class B2 / ASTM D635 / UL 94 HB

Added value by size and speed



Height: 1.80 m x 1.20 m x 1.50 m

Equivalent to a capacity of:

- 3,240 hamburgers
- 27 bathtubs
- 21 SLS P770 build chambers
- 104 German beer crates

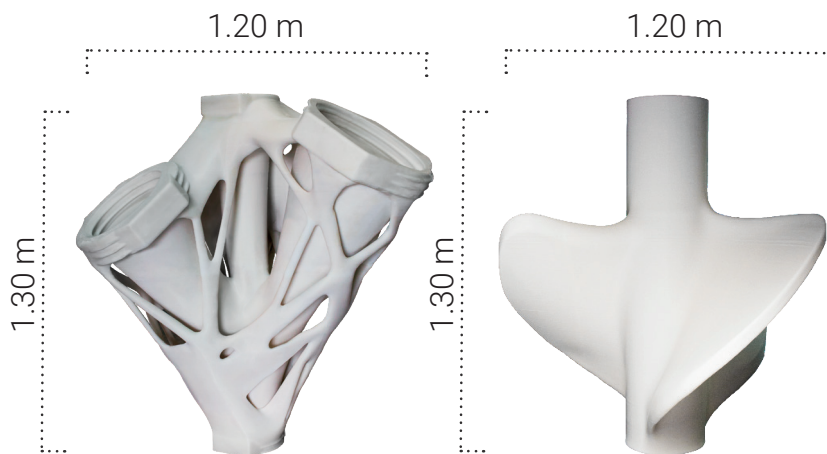
Maximum productivity

- Build rate of 0.33 m/h (z-axis)
- Broad range of finishing techniques for optimum effect
- Up to 2 kg of material output per hour

Areas of application

Sample use cases for prototyping and model building

- Objects for visual communication
- Eye-catching advertising objects
- Hollow forms ready for illumination
- Deep-drawing molds
- Concept models
- Furniture
- Art and design objects



Finishing

Ideal for classical finishing and model building

- Polyester
- Epoxy
- Polyuria / Polyurethane
- Fiberglass

- SAV (self-adhesive vinyl)
- Putty and fillers
- Coating
- Milling

- Galvanizing / metal coating
- Coloring, lacquering, hand-painting
- Polishing

Technical characteristics

Max. part properties	1.17 m x 1.5 m x 1.8 m
	Weight 150 kg
Printing speed (z-axis)	up to 0.33 m/h
Material	white photopolymer acrylate

Mechanical characteristics

Tensile strength	ISO 527	50 MPa
Elongation at break	ISO 527	3 %
Modulus of elasticity	ISO 527	2400 MPa
Max. tensile strength	ISO 178	80 MPa
Bending modulus of elasticity	ISO 178	2400 MPa
Heat distortion temperature (0.45 MPa)	ISO 75/ ASTM D 648	51-55 °C
Notched izod impact	ISO 180	2.2-2.5 KJ/m ²
Shore hardness	ASTM D2240	80-85 Scale D

Contact for questions and quote requests: daten@pro-fit.de