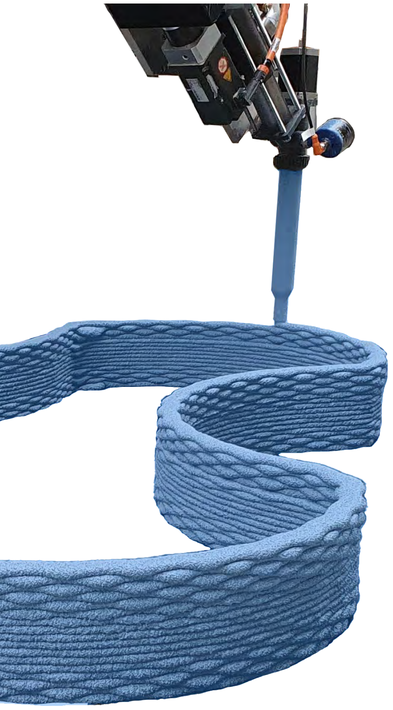
3D Paste Extrusion Modelling

(PUR Polycomponent Process)

The newly developed production system "Goliath" enables the production of large-format objects in the 3D paste extrusion modelling process (PEM) from any type of granules and using two-component binders. The system has been designed for a high maximum total mass flow (currently up to 100 g/s) to reduce production times. In combination with fast-curing PUR binder systems (< 10 s), this enables economical production and virtually unlimited design freedom. In the current setup, objects with dimensions of 2200 x 2200 x 2000 mm can be produced. Furthermore, due to the modular design of the overall system, scaling can be realized easily.



TEU2TEC
INDUSTRIES

Teu2tec GmbH

Senner Str. 32
33335 Gütersloh
Germany

info@teu2tec.de

https://teu2tec.de

Process Features

- Any fillers (solid particles up to 2 mm)
- High viscosity paste
- Discontinuous additive manufacturing process
- Adjustable curing times
- Individual product properties (e.g. degree of hardness)
- Overbends up to 45° possible
- Expandable to 5-axis printing
- Modular design - scalable as required

Process Key Figures

- Working space (HxWxD): 2200 x 2200 x 2000 mm
- Total mass flow: 30 - 100 g/s
- Possible grain sizes: 0.01 - 2.00 mm

Processing materials

- EPDM and other rubber granules
- Unconsolidated sediments such as quartz
- Sand
- Cork
- Wood flour etc.