

Print Heads for Viscous Fluids & Pastes



**SOLUTIONS FOR YOUR EXTRUSION BASED
ADDITIVE MANUFACTURING.**



Fluids & pastes perfectly dosed.





OUR PRINT HEADS

VIPRO-HEADS ENABLE ADDITIVE MANUFACTURING WITH MATERIALS SUCH AS SILICONE – WITH SUPERIOR QUALITY BEYOND COMPARISON.

Technical data	vipro-HEAD 1-COMPONENT	vipro-HEAD 2-COMPONENT
Theoretical volume flow (ml/min) ^(2, 4)	0.03 to 6.00	0.06 to 12.0
Layer thickness (μm) ⁽¹⁾	Approx. ≥ 100	Approx. ≥ 100
Dosing accuracy (%) ⁽³⁾	± 1	± 1
Most used materials	PCL Ceramic pastes Biomaterials Conductive inks Etc.	Silicones Polyurethanes Epoxy resins Acrylates Etc.

⁽¹⁾ Depends on viscosity and primary pressure.

⁽²⁾ Higher speed causes increased wear.

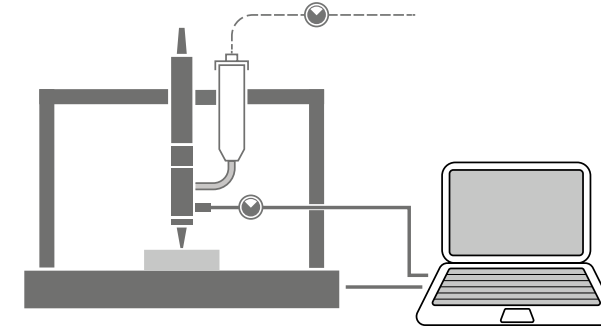
⁽³⁾ Depends on material.

⁽⁴⁾ Volumetric dosing as absolute deviation in relation to one dispenser revolution.
Depends on the viscosity of the material.



EASY INTEGRATION INTO YOUR MANUFACTURING PROCESS

- Easy mounting to existing 3D printers
- Actuation via stepper motor driver signals (24 V) or Step/Direction-Signals (3.3 V/5 V)
- Control via G-Code
- Compatible with most common slicers
- Option to monitor the printing process through pressure sensors



EASY SCALING UP OF THE PRINTING PROCESS

- Emptying systems (various container sizes)
- Handling systems (homogenization, degassing, etc.)



ALSO AVAILABLE IN MEDICAL GRADE

- Autoclavable
- Stainless steel 1.4404
- Polymers FDA approved

Optional heating of material and print head up to 110 °C.

Optional additive delivery system.





For more details and in-depth insights into the world of ViscoTec dosing technology:

VISIT OUR WEBSITE!



Join our community and stay informed about the latest developments and industry trends:

JOIN US ON LINKEDIN!



Explore practical applications of our solutions in real-world environments:

WATCH NOW ON YOUTUBE!

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