

Alchemie

novara™ 48PL

Digital Finishing Evaluation Kit

The Novara™ 48PL is a low-risk way of evaluating the potential of Alchemie's digital finishing technology in a narrow width lab-style kit. Moving from energy and chemistry intensive textile finishing to Alchemie's clean technology will deliver these benefits:

- **Dramatically reduce energy and carbon emissions >85%**
- **Reduce the amount of chemistry required to achieve high quality functional finishes**
- **Eliminate chemical waste and associated costs**
- **Create exciting new textile innovation opportunities such as single-sided finishing**

The 48PL delivers high-throughput digital fluid delivery with a uniquely wide range of industrial fluids. It is a non-contact technology that delivers the benefits of inkjet printing using fluids up to 50 cPoise and containing particles up to 150 microns.

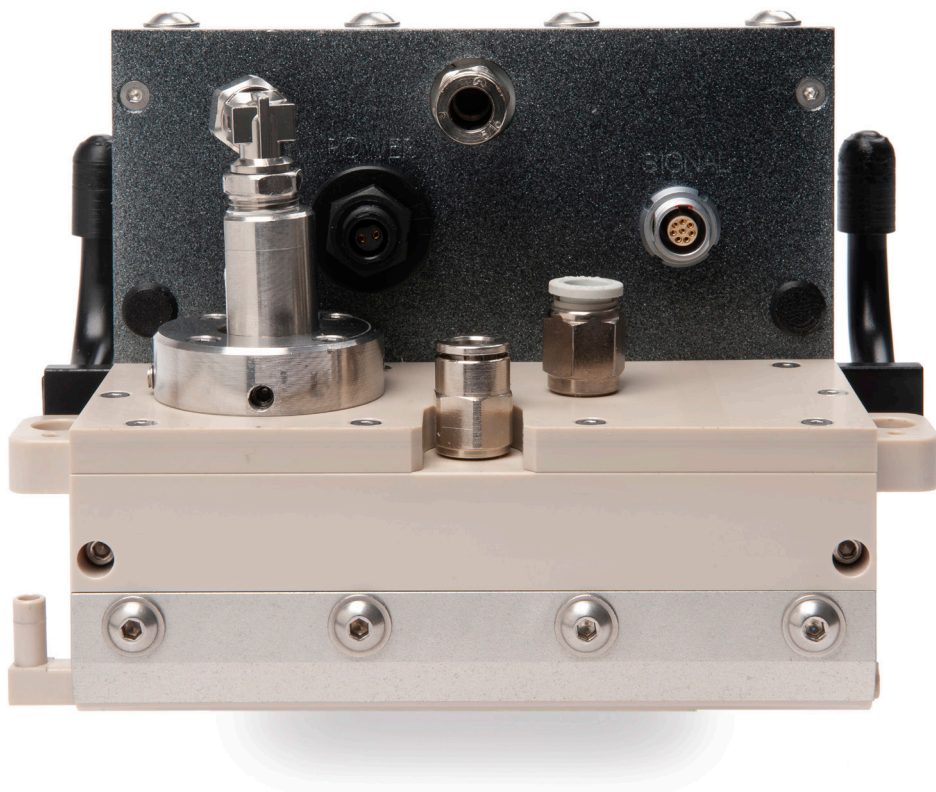
The patented precision liquid delivery technology is based on a unique PiezoNeedle array which delivers digitally-defined fluid patterns.

The actuation of the PiezoNeedle produces drops with high momentum, enabling large throw distances and exceptional mass accuracy, all at high throughput.



Creating a world with zero pollution from textile dyeing and finishing

The 48PL digital precision coating head is suitable for use in a range of implementations: from low-throughput, narrow web R&D/pilot developments to scaled-up multi-head production systems and widths up to 1.8m.



Scalable for industrial applications

The 48PL coating head is supplied with an integrated recirculating fluid supply system, which can be heated and stirred. It is designed for flexibility and scalable for a wide range of applications including high performance textile functional finishing and is compliant for use in regulated industries such as healthcare.



For more efficient and sustainable textile finishing, contact us at: www.alchemietechnology.com

Throughput	up to 50 mL min ⁻¹ per printhead
Fluid viscosity	up to 50 cPoise (other on request)
Fluid temperature	up to 50 °C
Print width	121 mm per printhead
Supply tank volume	Unlimited
Recirculation rate	up to 500 mL min ⁻¹ per printhead
Changeover time	<20 minutes with cleaning routine
Fluid materials in contact	Inert plastic and stainless steel