

The most precise volumetric liquid dispenser now available

Designed specifically for small volume fluid or liquid dispensing applications, the [**eco-PEN XS 180**](#) doses highly precise quantities of various materials in the **nanolitre** and **microlitre** ranges. The **eco-PEN XS 180** is suitable for both line and dot dispensing, with bead widths starting from >0.1 mm, and an adjustable dispensing rate to suit the run speed. With accuracy of $\pm 1\%$, >99% of the time, the device gives electronics and medical device assembly application specialists a reliable, repeatable tool for

dispensing small liquid volumes.



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eco-PEN technology is based on the well established and proven [preeflow progressive cavity pump principle](#), which enables true volumetric dispensing that is viscosity independent. The technology can dispense of a wide range of viscosities, from water-like substances up to thick pastes, including filled materials, with low shear and no dripping.

The **eco-PEN XS 180** can readily be integrated into automation, or supplied as part of our *archytas* series of robot integrations, to achieve high levels of positioning accuracy. Its lightweight design, weighing approximately 175 g, enables its use in high speed robotics, and the cartridge design means that several eco-PENs can be tightly spaced together in a narrow grid. This product means manufacturers can dispense at the smallest scale and high throughput with absolute confidence and control.

The **eco-PEN XS 180** is suitable for dispensing solder pastes, die-attach adhesives, edge-bond adhesives, electrically conductive adhesives, underfills, and potting compounds. Applications include electronics packaging, SMD/SMT, semiconductor, LCD/LED, medical device assembly, biological chemistry, laboratory, photovoltaic, and optics & photonics.

The **eco-PEN XS 180** is combined with the eco-CONTROL EC200 2.0 control unit, which provides total control of preeflow volumetric valves during the dispensing process. Customers can opt for a model designed for a benchtop or rack-mounted location, dependent on their application.

Looking to dispense small volumes of liquid with accuracy and precision? Our technical sales team are on hand: [let's get started by talking about your application.](#)

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Last updated: March 2024

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