

# PP3004 QuickLok ambient temperature airlock/transfer system for SEM, FIB/SEM beamline and other vacuum platforms



## Product description

The QuickLok provides a rapid way of transferring ambient temperature specimens into SEM, FIB/SEM or other suitable vacuum systems. A key feature of the QuickLok is the ability to vacuum transfer specimens that are sensitive to normal environmental conditions. The transfer device uses a sealed vacuum chamber which can be interfaced to a glove box for inert gas transfer or allow transfer from a wide range of vacuum platforms.

## System components

Mounted onto a suitable vacuum chamber port, the QuickLok consists of a loading chamber body with integrated controls for pumping, venting and transfer. A custom-designed interface flange and connections to the pumping system are included (see: Pumping below).

The compact vacuum transfer device has a bayonet fitting to a dovetail-profile specimen holder (shuttle). Standard shuttles are included, but optional holders allow different specimen types to be handled.

Inside the SEM is a stage to accept the specimen shuttle. To aid specimen exchange an interlocked LED chamber light is mounted to the inside of the QuickLok interface.

## Using the QuickLok

The specimen is mounted on a suitable holder and the transfer device fitted onto the vacuum airlock. The airlock and transfer device are then evacuated to a pre-set vacuum, the gate valve opened and the specimen guided onto the SEM stage.

For transfers from other vacuum systems, or a glove box, additional interface flanges are available on request.

## Quick overview

The QuickLok provides a rapid way of transferring ambient temperature specimens into SEM, FIB/SEM or other suitable vacuum systems. The QuickLok can be used for vacuum transfer of specimens that are sensitive to normal environmental conditions.

## Key features

- Rapid specimen exchange
- Vacuum and inert gas transfer
- Upgrade path to CoolLok
- Custom designed holders available
- Three-years warranty

## Ordering Information

NB: For a full quotation, including on-site installation and customer training, please contact us

PP3004	QuickLok ambient temperature airlock/transfer system, consisting of: Airlock assembly. Pump, vent and transfer control buttons, gate valve and fittings to the pumping system (see: Pumping below). Custom designed interface flange to the microscope vacuum chamber
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SEM dovetail stage	to accept the specimen holder.
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LED chamber light (interlocked)

12340	specimen transfer device for vacuum or inert gas transfer
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## Specimen holders

20720	Specimen shuttle with holding clips,
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12434	Specimen shuttle blank,
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AL200077B	Specimen shuttle (to hold a 10 mm diameter specimen stub),
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E7402 blank	10 mm stubs – packet of 10
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## Pumping requirements

The PP3004 QuickLok requires either a rotary pump or an oil-free, high vacuum turbomolecular pumping station (recommended).

13034	5 m <sup>3</sup> /hr Pfeiffer Duo 6 rotary vacuum pump with oil mist filter
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24426	Pfeiffer HiCube 80 turbomolecular and diaphragm pumping system
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