

Interposer Modules and Tapes

For Heat-Seal Bonding, Reflow soldering, ACF Laminating and Heat-Staking applications

The Interposer (or Interlayer) module is a reel-to-reel system used for all Hot Bar processes. The interposer can be supplied as automated reel-to-reel module or manual module driven by the operator for R&D purposes. Interposer tape is used between the thermode (hot bar) and the parts, for protection reasons and/or even-pressure distribution.

Interposer module

Different models are standard available. First, there is a choice for manual or automated interposer modules and in case of automated, there is a choice of having the reels at the left and right side or having both reels at the left or both at the right side. The module consists of two mechanical subassemblies, that allows to use all kind of thermode lengths in between. Besides the tape guiding wheels, there is a broken-tape and feed-forwarding sensing functionality. The standard modules can be chosen for all Process Equipment and Desktop and Stand-Alone Systems, excluding the C-Tack laminating system.

Manual Interposer

The Manual Interposer Module consists of two connected reels. The tape is moved manually by the operator from one reel to the other. The guiding wheels keep the tape in place and the tape tension under control.

UO-4000 Manual Interposer

Automated Interposer

The automated version has motors connected to its reels for the feed-forwarding control. The feed-forward length and frequency can be automatically programmed. In the manual version, the operator has to feed forward the tape himself. The guiding wheels ensures the tape to be well aligned underneath the thermode.

UO-4050 Automated Interposer
(Rolls at left and right side)

UO-4070 Automated Interposer
(Both rolls at left side)

UO-4080 Automated Interposer
(Both rolls at right side)



Interposer with tape holder rolls on the right and left side.



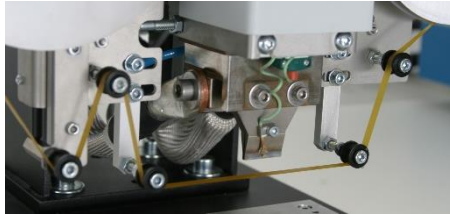
Interposer with tape holder rolls on the left

Interposer with tape holder rolls on the right

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Interposer tape



Kapton Tape

Kapton interposer is used for Hot Bar Reflow Soldering because this tape is very thin and excellent in protecting the thermode for flux and/or solder material pollution. It is vital to keep the thermode clean for a constant and qualitative process. In most processes, the kapton has to be renewed every process cycle due to its extension by the heat and to avoid re-use of polluted material.

UO-4100	Kapton tape, 1 reel
UO-4100-5	Kapton tape, set of 5 reels
UO-4100-10	Kapton tape, set of 10 reels

Silicone Tape

For Heat-Seal Bonding, silicone interposer is used as this flexible material absorbs the product tolerances in terms of co-planarity and it also offers a pressing force in between the tracks, resulting in a higher peel-off strength. The silicone tape can be used a number of cycles at the same spot. The products determine the feed-forward frequency.

UO-4150	Silicone tape, 1 reel
UO-4150-10	Silicone tape, set of 10 reels
UO-4150-20	Silicone tape, set of 20 reels
UO-4150-50	Silicone tape, set of 50 reels

Specifications Kapton tape

Material	Polyimide
Tape width	5 mm
Tape length	200 m
Tape thickness	25 µm (micron)

Specifications Sillicone tape

Material	Sillicone
Tape width	5 mm
Tape length	10 m
Tape thickness	0,4 mm

On request: Metal Tape

Metal tape is ideal for soldering wires because it has an excellent thermal conduction. It is particularly suitable for twisted wire soldering applications.

