



Frequently Asked Questions

Grid-Lok™



Q Can I install Grid-Lok myself, or do I need a Grid-Lok agent to install the system?

A A maintenance technician can handle most installations. Ovation also provides installation services. Please contact your local Ovation representative for more information.

Q How much time should be allotted for installation?

A Most installations average from 90 minutes to 1 and one half hours. Custom applications may take longer.

Q Does Grid-Lok have a warranty? If so, what is covered?

A Yes. The Grid-Lok warranty covers all materials and workmanship for 1 year, with the exception of the rubber tips which may be purchased through Ovation representatives.

Q How do I know how many Grid-Lok units to use for my application?

A The number of units required is application specific and is dependent upon the PCB/substrate size and device pitch. Generally, screen printing applications require more (or higher density) modules than pick and place applications due to higher print pressures across the entire substrate.

Q What kind of preventive maintenance is required for the system?

A Very little preventive maintenance is required. The module pin shafts should be cleaned with a lint free cloth and isopropyl alcohol on a weekly or monthly basis depending on the cleanliness of the machine environment. No lubricant is ever needed.

Q What is the automatic/stealth mode?

A Stealth mode is the setting that enables the Grid-Lok unit to fire and release the pins every time a board enters the machine and is triggered by a signal received from the machine. This mode allows the pins to perfectly conform to every board processed.

Q How much force per pin does Grid-Lok apply?

A Grid-Lok's unique design requires very little force to be applied to raise the pins. For each pin, less than 5g of pressure is needed.

Q Is a backing plate needed to set the tooling?

A Unlike other systems, the upward force of Grid-Lok pins is adjustable and is always set low enough so that no backing plate is ever required.

Q What is the manual mode?

A The manual mode allows the operator to set the tooling based on the first board in the batch. Grid-Lok stays fixed during the entire product run for that particular PCB. Manual mode can be a useful tool when there are major board warpage problems.

Q When is High-Density Grid-Lok the best solution?

A HD Grid-Lok provides a support grid that is four times as dense as standard Grid-Lok. It can be beneficial on many applications including high pressure printing applications, PCBs at or below .031" thick, PCBs with numerous cutouts and individual boards in a multi-up panel.

Q For which SMT equipment is Grid-Lok best suited?

A Component placement machines and screen printing systems are where the majority of Grid-Lok systems are used. However, there are custom Grid-Lok solutions for AOI and testing equipment, as well as numerous other line applications where robust support is required.

