

Grid-Lok Silver™

FLEXIBLE PCB SUPPORT FOR SMT PROCESSES



Designed to accommodate assemblies of all types – from basic SMT to high-density, highly miniaturized products – Grid-Lok Silver™ is the most flexible PCB support on the SMT market, for the entire assembly process. This unique concept combines the benefits of manual locking modules with the extensive advantages of automatic tooling systems. Easy upgradeability presents manufacturers with a scalable tooling advantage.

- High versatility
- Unparalleled flexibility
- Minimal operator intervention
- Reduced or zero change over time
- No risk of component damage
- Global coverage organization

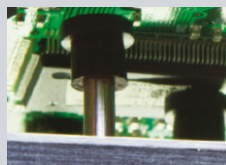


Stencil printers (Grid-Lok Gold):
 ASM DEK,
 Ekra, Erska,
 Juki GKG,
 MPM Speedline,
 Panasonic,
 Speedprint,
 Yamaha.

Pick & place:
 ASM Siplace,
 Assembleon,
 Fuji, I-pulse,
 Juki, Panasonic,
 Samsung,
 Universal,
 Yamaha.



No change over time
 for your placement
 process



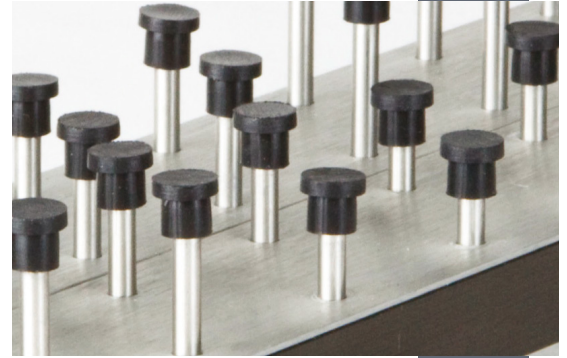
Firm, gentle and safe
 support for your
 printing process



Guaranteed safety
 of underside
 components

One time investment in Grid-Lok Silver™ delivers many advantages, including:

- Removes the need for further support solutions, regardless of process change = **cost reduction**
- Eliminates potential for human error and increases the safety of machine set-up = **cost reduction**
- Minimizes or eliminates changeover time = **cost reduction**
- Increases yield by reducing maintenance requirement = **cost reduction**



MANUAL	UPGRADE	AUTOMATIC
<p>Pins are spring loaded Kit consists of a number of modules, nothing else attached</p> <p>Setup: machine in step mode, PCB over the pins then manual locking by operator. When changing the batch, set-up must be conducted again</p> <p>Price competitive kit</p>	<p>Modules are open and springs removed The extra parts of the kit are attached</p> <p>Inexpensive upgrade</p>	<p>Full board support with no impact on process time Kit consists of a number of modules + controller, power source, handheld remote, manifold, air pipes and cables, sensor</p> <p>Setup: 0 seconds</p> <p>Lowest cost of ownership, maximum advantages</p>

Technical Specifications

Kit content (manual):

- Unlimited number of modules

Kit content (automatic)

- Control box to provide module(s)-machine interface
- Hand controller to set operating mode
- Up to 6 Grid-Lok modules
- Field installation kit
- Manifold used to support up to 6 modules
- Machine-specific fitting tools
- Machine-specific interface (sensor or pneumatic input to start the pin raise and clamp cycle)
- All interconnecting hardware
- Standard Grid-Lok system carton size 53x42x30cm, approximately 12Kg

Module Specifications:

Depending on the specific machine application the modules have the following specifications:

- Available tooling heights: 53mm to 159mm
- Module length: 14' / 355mm
- Module width: 32mm
- Pin count: 27 pins configured in 2 rows, on a 25x20mm pitch
- Component clearance: 16.5mm
- Pin cap – electrically conductive silicone rubber compound

System Requirements:

- Air pressure: 80-102 PSI (0.55-0.7 MPa)
- Air quality: 2.3.3 where 2 (dirt) = 1 micron, 3 (water) = -20°C pressure dew point and 3 (oil) = 1mg/m³
- 120-240AC supply to provide 24VDC to power control box

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