

Grid-Lok Gold™

PREMIUM AUTOMATIC PCB SUPPORT FOR SMT PROCESSES



Designed to accommodate assemblies of all types – from basic SMT to high-density, highly miniaturized products – Grid-Lok Gold™ is the best PCB support on the SMT market, for the entire assembly process:

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



Stencil printers:

ASM DEK,
 Ekra, Ersal,
 Juki GKG,
 MPM Speedline,
 Panasonic,
 Speedprint,
 Yamaha.

Pick & place (Grid-Lok Silver):

ASM Siplace,
 Assembleon,
 Fuji, I-pulse,
 Juki, Panasonic,
 Samsung, Universal,
 Yamaha.

AOI & Flying Probe:

Viscom,
 Itochu-Takaya
 (Grid-Lok Max),
 Spea (Grid-Lok Max).



No change over time
 for your placement
 process



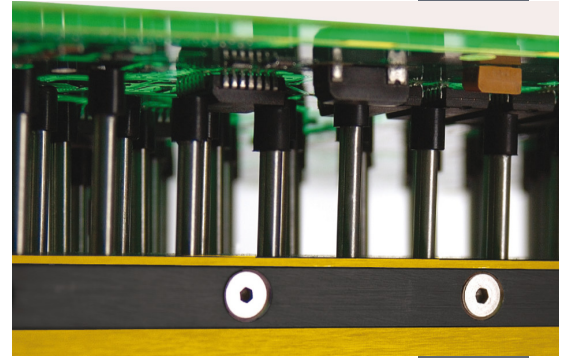
Firm, gentle and safe
 support for your
 printing process



Guaranteed safety
 of underside
 components

One time investment in Grid-Lok Gold™ 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**



Here's just one example of the ROI realized with Grid-Lok:

Changeover Time Saved per Line	= 10 minutes
Changeovers per day	= 3
Line Utilization Rate (assumed profit generated per line per hour)	= \$800 per hour
Total Savings per Day (1/6 hour x 3 x \$800)	= \$400
Grid-Lok cost on Line (1 printer plus 2 Placement machines)	= \$16,000

Payback in just 40 days!

Technical Specifications

System Components:

- 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

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

Module Specifications:

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

- Available tooling heights 39mm to 159mm
- Available module lengths: 254mm (standard), 305mm (HD), 457mm (HD)
- Component clearance: 13-40mm
- Pin count
 - HD modules are available in heights from 39mm to 135mm
 - Module width: 32mm
 - 305mm -- 46 pins configured in 2 rows on a 12x18mm pitch
 - 457mm -- 70 pins configured in 2 rows on a 12x18mm pitch
 - Standard modules (available only for the height of 70mm, for Panasonic CM machines). One row of pins on a 25.4mm pitch 9 pins in total for a 254mm long module
- Pin setting force – 5 grams per pin
- Pin cap – electrically conductive silicone rubber compound

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