

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

Pick & Place

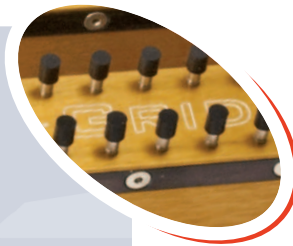
Assembleon
Universal
Fuji
Panasonic
Siemens Siplace
ASM
Juki
Samsung
Yamaha
Mimot
Sanyo
Dima
I-Pulse
Casio

Stencil Printers

DEK
MPM
Ekra
Speedprint
Minami
Milara
Assembleon
Yamaha
Ersa
Samsung
GKG

AOI & Flying Probe

Viscom
Itochu Takaya



No change over time for your placement process



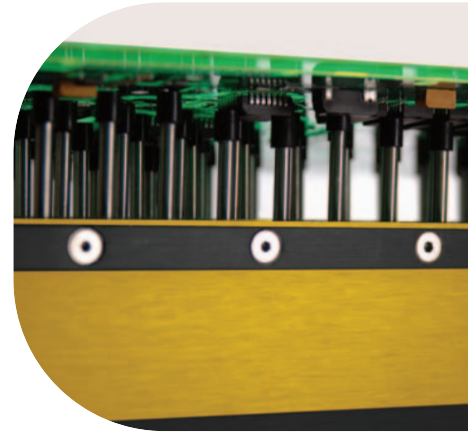
Firm, gentle and safe support for your printing process



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 153mm to 457mm
- Component clearance: 13-27mm
- Pin count
 - HD modules (available in heights from 58mm through 123mm)
 - 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 in heights from 39mm through to 139mm)
 - 1 row of pins on a 25.4mm pitch (12 for 305mm or 18 for 457mm)
- Pin setting force – 5 grams per pin
- Pin cap – electrically conductive silicone rubber compound

