

# 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

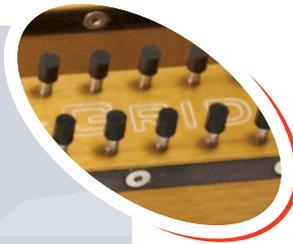
Assembleon  
Universal  
Fuji  
Panasonic  
Siemens Siplace  
ASM  
Juki  
Samsung  
Yamaha  
Mimot  
Sanyo  
Dima  
I-Pulse  
Casio

### Stencil Printers

DEK  
MPM  
Ekra  
Speedprint  
Minami  
Milara  
Assembleon  
Yamaha  
Ersa  
Samsung  
GKG

### AOI & Flying Probe

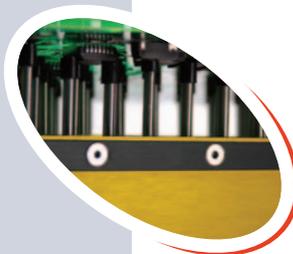
Viscom  
Itochu Takaya



No change over time for your placement process



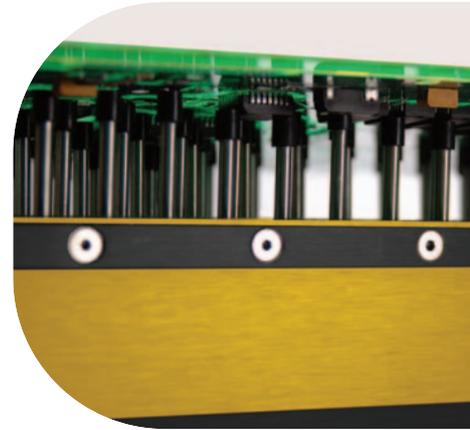
Firm, gentle and safe support for your printing process



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

