

## **Quik-tool™-The SMT**

### **Standard in compliant Automatic Support Tooling**

Whatever application, stencil printers, SMD Pick&Place machines or SPI and AOI, the new Quik-tool™ is quickly ready to support your single sided or double sided PCB's fast, reliable and all-over, and this fully automatically with every new PCB. With Quik-tool™ your print quality will be constantly improved and warpage and vibrations surely avoided. This results in a higher quality, reliability, repeatability and due to the minimization of machine downtimes also an increase of the machine throughput.

With the highest holding force in the industry, largest support area per pin, and a simpler, more reliable control system, Quik-tool™ is the new "gold standard" in compliant SMT support tooling.



- Automatic SMT Tooling -100% pneumatically operated
- Conforms to any PCB –single or double sided
- Fastest tooling set up available today
- Eliminates manual pin set up
- No programming required
- Eliminates potential for cracked components (due to misplaced hard tooling pins)
- Enhanced and stabilized print quality due to more thorough support and consistent set up
- Automatic Mode allows for hands free set up

### **Quik-tool™ -Available Systems**

Quik-tool™ systems are available for all stencil Printers like EKRA, DEK, ERSA, Speedline MPM, Speed print, SJ Innotech, Juki GL, Fuji GPX or Essemtec, always complete with a trigger signal opto sensor Quik-tool™ systems are also available for all SMD Pick&Place machines like ASM Siplace, Juki, Fuji, Essemtec, Samsung, Assembleon, Mimot, I-Pulse, Yamaha or Dima, same as for AOI system like Viscom, Koh Young or Modus.



### **Quik-tool™ -advantages in detail**

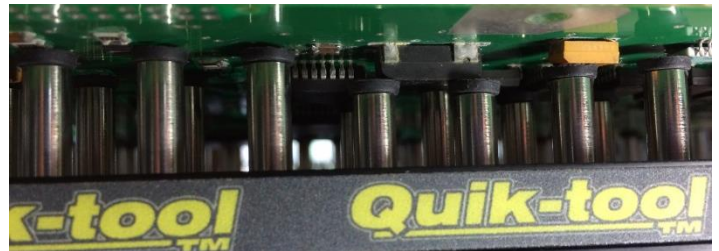
- OPTIFLOW –Automatic airflow control without any readjustment of airflow by the operator at a product changeover with a different number of modules in use
- Standard High Density (HD) Modules with 12x18mm pin pitch
- Lowest upward force for thin PCB's of only 2,5g/Pin due to enlarged pin area
- Highest holding force in the SMT industry of 2.000g/Pin at 6bar due to a new, patented pin clamping
- ESD conformable pin caps avoiding component stress
- Automatic mode using an independent trigger signal or manual setup mode freely selectable
- Extremely low wear and tear due to isolated lock lubrication from the pins
- Largest underside component clearance of 27mm (QTZ series) or 14mm (QT series) for smaller support heights of up to 66mm
- Non-interchangeable male/female pneumatic connectors at the manifold
- 3 years of warranty on valves and electronic
- new rubber tip design for simple maintenance



## The GOLD Standard in Compliant SMT Support Tooling

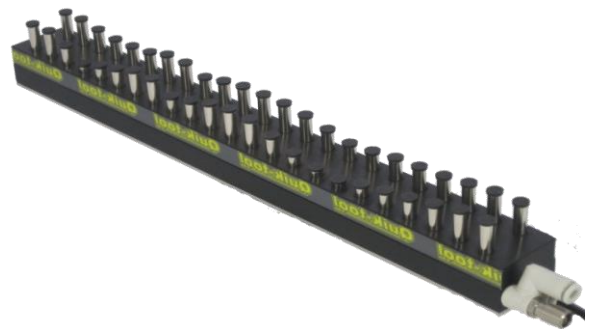
The People: Driven to maximize price/performance

- Jim Bernhard and Charlie Moncavage:
- Founders of Ovation/Grid-lok
- Over 20 years of combined experience inventing and applying compliant tooling



## The Products: Leading in every performance category

- Focused on Ease of Use and Cost Effectiveness
- Runs in Automatic and Manual Mode
- High Density Pin Pitch -High Density Only!
- Start Small, Add as Needed



## Advantages

Highest Holding force in industry  
(patent pending locking technology)

- Lowest upward force –great for thin/routed pcb's
  - Other systems bow boards up without a backing
  - Higher upward force capable for thick pcb's
  - Highest Component clearance
- 13.5 mm and 27mm true clearance
- Largest support area per pin



## **OPTI-FLOW Technology: Stop Tweaking Airflow**

### **Quik-Tool (With Opti-Flow)**

- Special Airflow Management Design
- Add or Remove modules with  
NO AIRFLOW ADJUSTMENTS
- More Automated
- Not Reliant on Operator
- Removes Variability



### **Mistake proof connections: Male/Female (not color coded)**

Quik-Tool -There is no way to plug a Quik-Tool module in incorrectly



### **Competition -“gl” (no Opti-Flow)**

Closed System

- 2 Bad Outcomes
- Remove Modules: Remaining module pins come up much harder
- Add Modules: Remaining module pins come up much softer....or NOT AT ALL
- Constant tweaking of manifold air flow required

Competition –“gl” Silver male fitting in a red coupling (common error)





- Heavier pins drop more readily upon reset
- Pins twice as thick –won't bend
- Support tips: Won't fall off
- Tough/Last much longer
- Simple/Reliable Control System
- One button hand held controller
- Remove HH and it defaults to Auto mode
- All Air & Electrical connections are poka-yoke/mistake proof
- Lower Maintenance
- Lowest cost of spares –Tips 1/10th the cost



## New Tip Design

### New Tip

- Top Diameter same as Pin Diameter
- Base Diameter Tapered
- Longer Stem



### Advantages:

- Pin can be removed from modules for maintenance without removing the tip (Faster Maintenance, Shorter Downtime)
- Pin taper at bottom allows for easier installation
- No rotation needed as the tip is inserted (can be done without having to hold or lock pins)
- Taper allows for improved glue dispersement for a more secure hold

## **ROI Sample Calculation**

### **More Line Utilization = More Profit**

- Line: 1 Printer and 2 Placement Machines
- Changeover Time Saved per Line = 15 minutes
- Changeovers per day = 3
- Line Utilization Rate = \$800 per hour  
(assumed profit generated per line per hour)
- Total Savings per Day =  $1/4 \text{ hour} \times 3 \times 800\$ = 600\$$
- Quik-Tool cost on Line 22.500\$ (4 module kit on printer, 3 module kits on 2 Placement machines)
- Payback in 37.5 days!!

### **Stencil printers:**

EKRA, DEK, MPM Speedline, ERSAs, Speed print,, Juki/GKG, SJ Innotech, Essemtec, Reprint, Desen, Samsung, Yamaha, HTGD, Fuji, Sony

### **SMD P+P machines:**

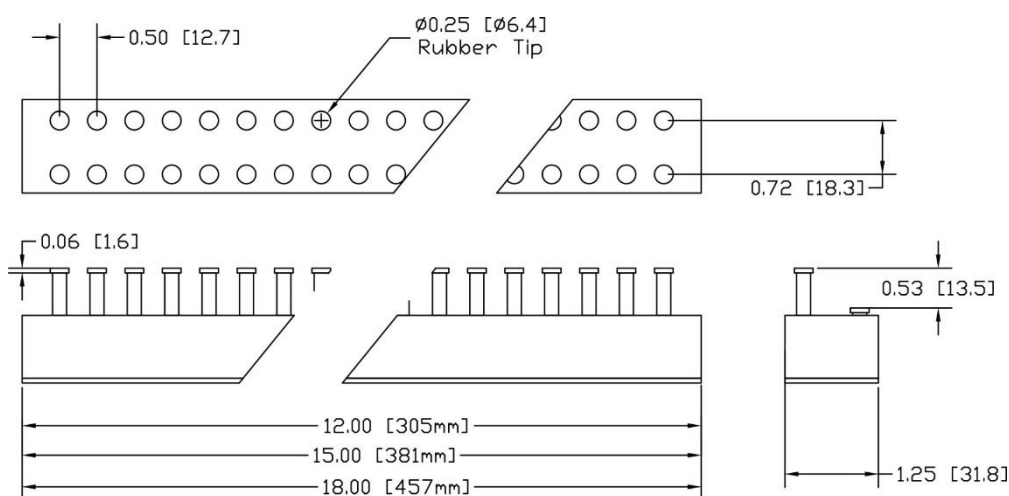
ASM Siplace, Universal, Juki, Samsung, Assemble on, Fuji, Euro placer, Panasonic, Yamaha, Mimot, I-Pulse, Dima



## Standard Module Specifications (QT-serie)

**Minimum Module Height with Pins extended: 39.5mm**

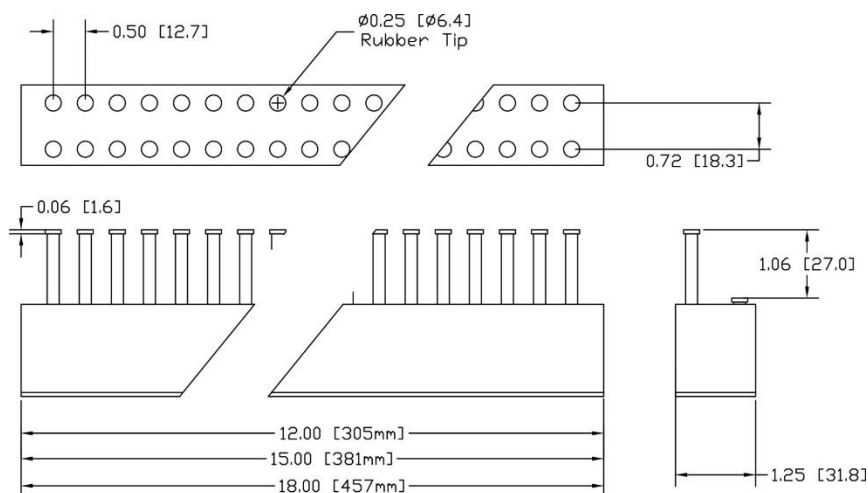
- Minimum Upward Force per pin: 2.5 Grams
- Holding force per pin at 6 bar (90 PSI): 2000 Grams



## Z-MAX Module Specifications (QTZ-serie)

**Minimum Module Height with Pins extended: 66.5mm**

- Minimum Upward Force per pin: 2.5 Grams
- Holding force per pin at 6 bar (90 PSI): 2000 Grams



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