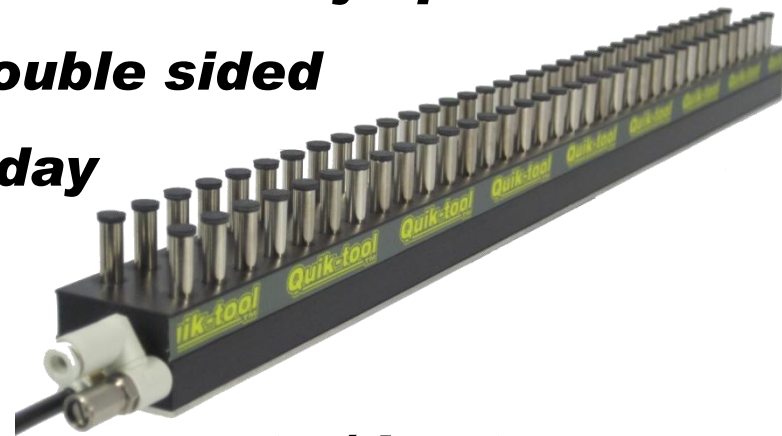
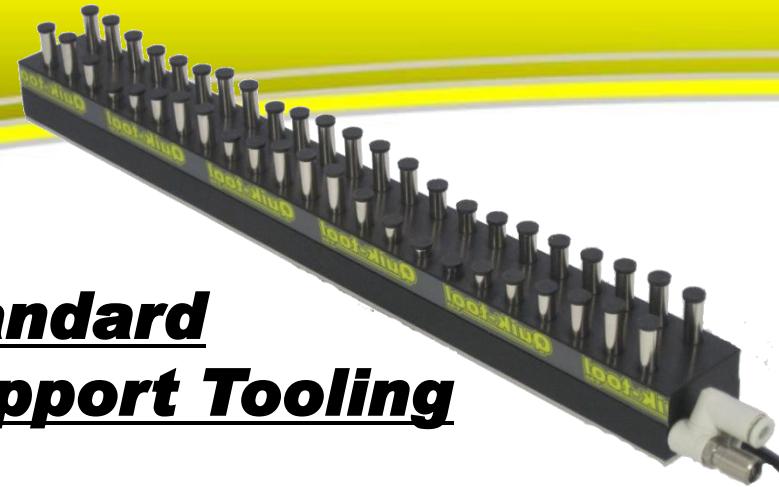




The GOLD Standard **in Compliant SMT Support Tooling**

- **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**





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**

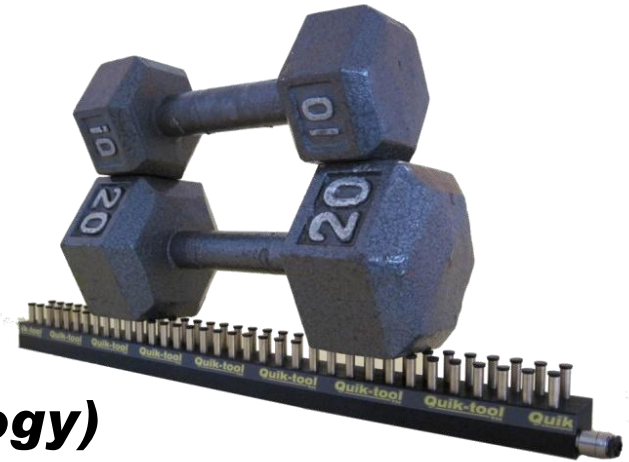
- **The Products: Leading in every performance category**
 - **Focused on Ease of Use and Cost Effectiveness**
 - **Runs in Automatic and Manual Mode**
 - **High Density Pin Pitch - High Density Only!**
 - **Low cost of Entry- Starter Kits \$1950**
 - **Start Small, Add as Needed**



Quik-tool™

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:**

➤ **Quik-Tool**

With Opti-Flow

- ✓ ***Add or Remove modules with NO AIRFLOW ADJUSTMENTS***
- ✓ ***More Automated***
- ✓ ***Removes Variability***

➤ **Competition**

Closed System = 2 Bad Outcomes

1. Remove Modules

- ✓ ***Remaining Module pins come up much harder***

2. Add Modules

- ✓ ***Remaining Module pins come up much softer....or NOT AT ALL***

= Constant Air flow tweaking required

Quik-tool™

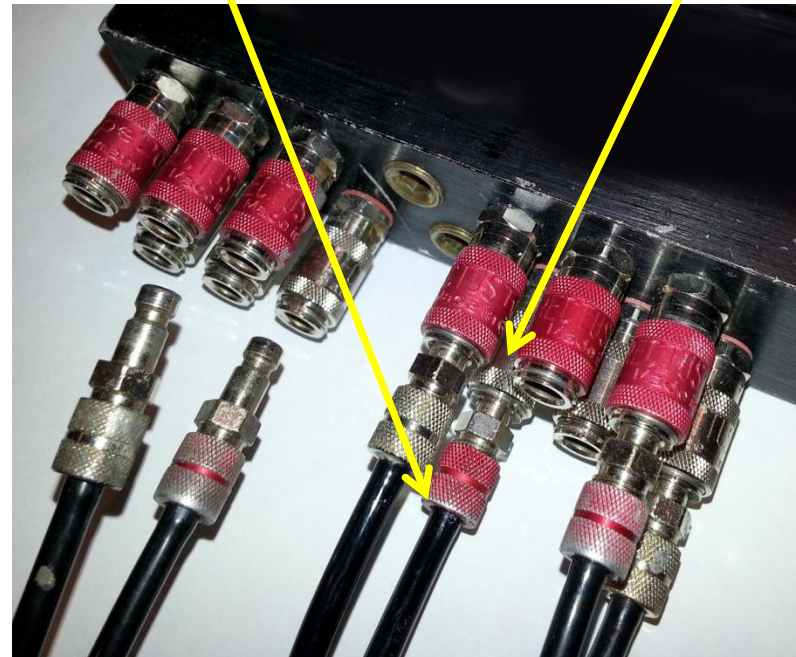
Advantages (cont.)

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

Quik-Tool



Competition – Red male fitting in a silver coupling



Quik-tool™

Advantages (cont.)

- **Simple/Reliable Control System –**
 - **One button hand held controller**
 - **All Air & Elec connections mistake proof**
- **Heavier pins more easily drop after reset**
- **Pins twice as thick – won't bend easily!**
- **Support tips last much longer**
- **Lower Maintenance**
- **Lowest cost of spares**
 - **Tips 1/10th the cost**



*****All at a lower cost**



ROI Sample Calculation

More Line Utilization = More Profit

- **Line: 1 Printer and 2 Placement Machines**
- **Changeover Time Saved per Line = 10 minutes**
- **Changeovers per day = 3**
- **Line Utilization Rate = \$800 per hour**
(assumed profit generated per line per hour)
- **Total Savings per Day = 1/6 hour x 3 x \$800 = \$400**
- **Quik-Tool cost on Line \$15,800 (5 module kit on printer,
3 module kits on 2 Placement machines)**
- **Payback in 40 days!**

Quik-tool™



Machines:

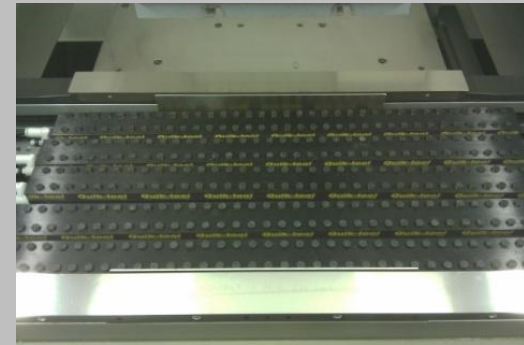
Printers:

Speedline(MPM), EKRA, DEK, Speedprint, ERSA, GKG, SJ Innotech, essemtec

Placement:

Siemens(ASM), Universal, Juki, Mydata, Samsung, Assembleon, Fuji, Europlacer, Panasonic,

...and MORE!



Contact Us:

- ***Sales/Customer Related***
 - ***Jim Bernhard – Managing Partner***
 - ***jbernhard@quik-tool.com***
 - ***508-699-9077 Office***
 - ***508-735-6565 Mobile***
- ***Technology Related***
 - ***Charles Moncavage – Managing Partner***
 - ***cmoncavage@quik-tool.com***
 - ***484-554-4449 Mobile***

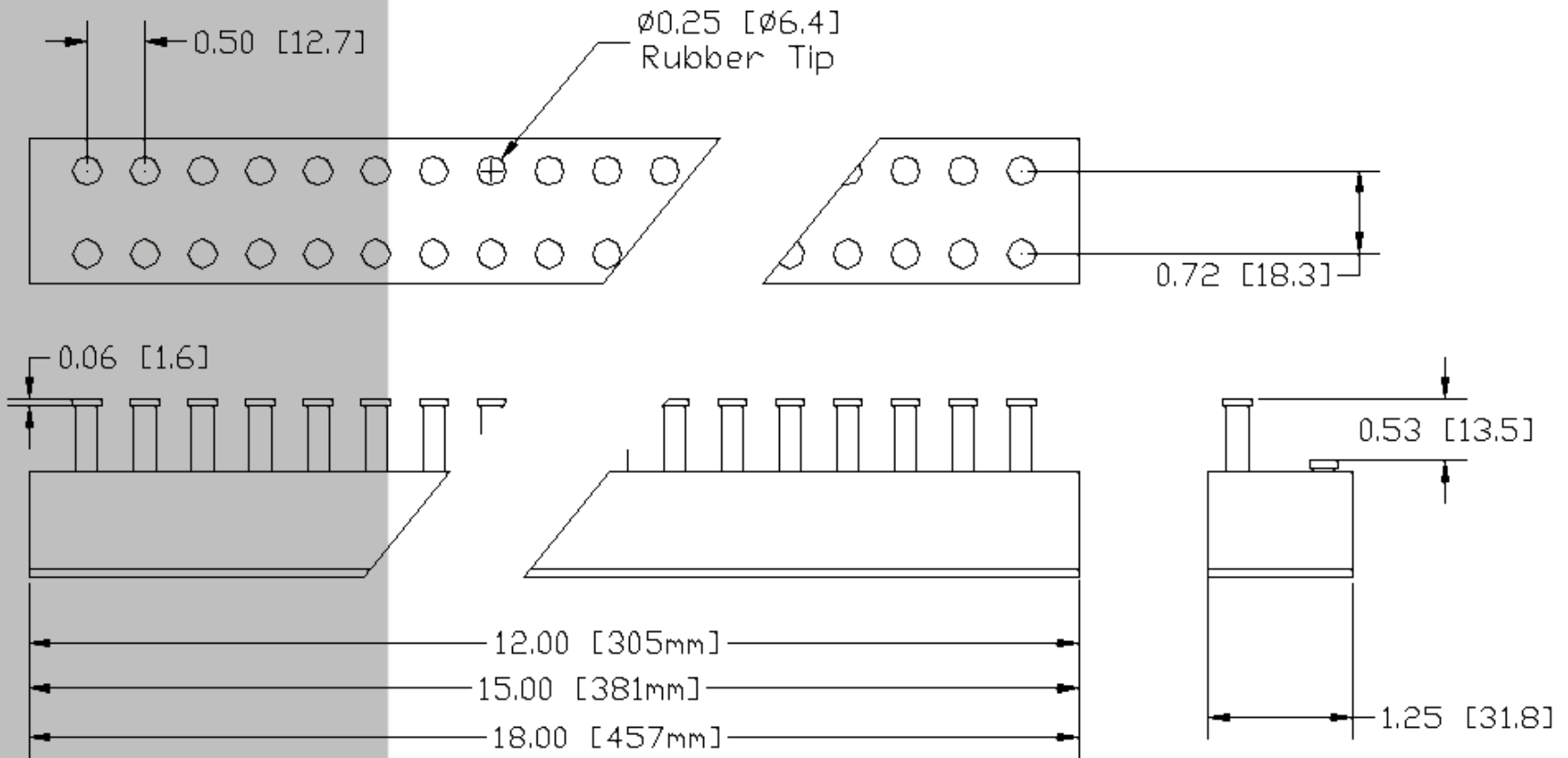


www.quik-tool.com



Standard Module Specifications

Minimum Module Height with Pins extended: 39.5mm



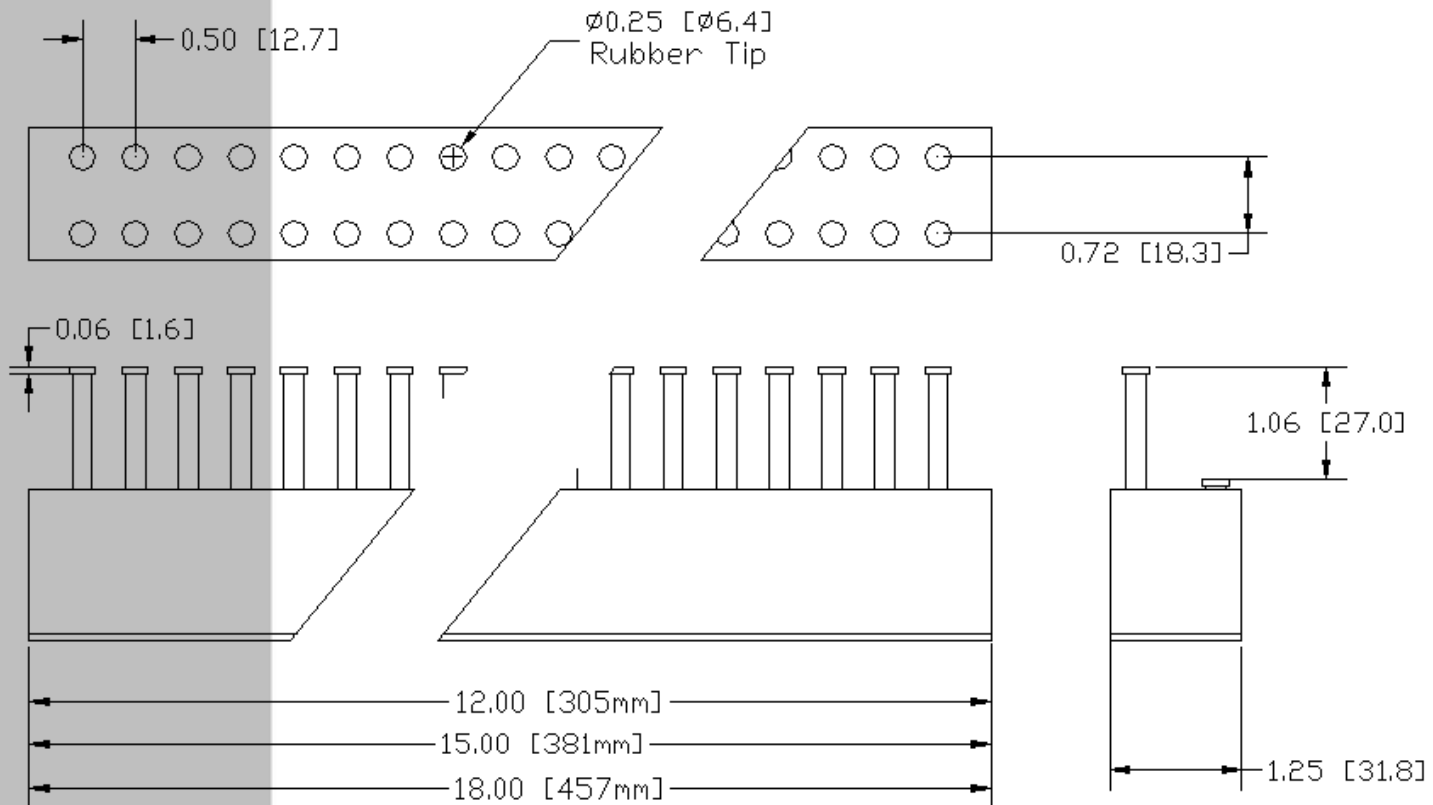
•Minimum Upward Force per pin: 2.5 Grams

•Holding force per pin at 90 PSI: 2000 Grams



Z- MAX Module Specifications

Minimum Module Height with Pins extended: 66.5mm



- **Minimum Upward Force per pin: 2.5 Grams**
- **Holding force per pin at 90 PSI: 2000 Grams**