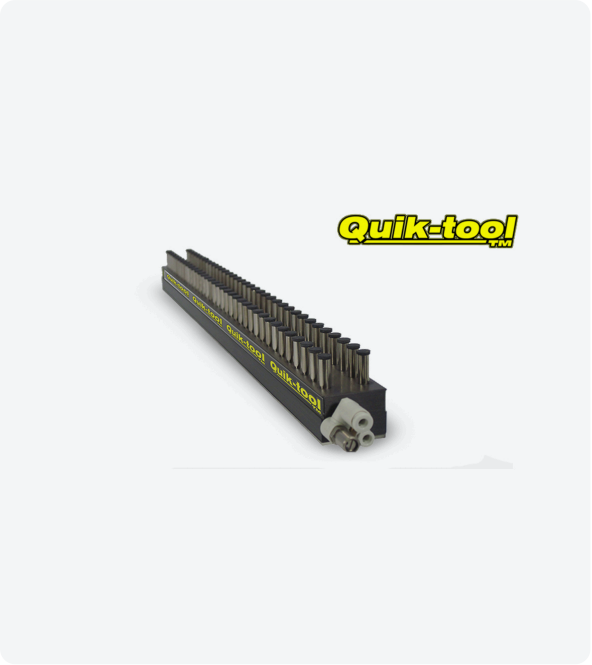
SMT SUPPORT TOOLING

QUIK-TOOL Automatic SMT Support Tooling

Pneumatic PCB Support for Printing, Placement and Inspection

100% Pneumatic | Automatic or Manual Mode | 2000 g Holding Force per Pin | 2.5 g Upward Force | 12 × 18 mm HD Pin Pitch | Up to 27 mm Component Clearance



OVERVIEW

Quik-Tool is a fully pneumatic, compliant support tooling for SMT lines. Its pins rise and follow the underside of every PCB, single or double sided, so the board is supported all over in the stencil printer, the placement machine and in SPI or AOI. There are no pins to set by hand and nothing to program.

Full, repeatable support keeps print quality stable and stops board warpage and vibration. A changeover that takes 10–20 minutes with magnetic support pins is done in under 30 seconds, so lines with many changeovers in high-mix, low-volume production gain real production time.

KEY FEATURES

Automatic or manual mode

an independent trigger signal sets the pins hands-free with every new PCB; the one-button hand-held controller gives manual setup, and without it the system defaults to automatic

Holding force

2000 g per pin at 6 bar (90 PSI) with Quik-Tool's pin locking technology

Gentle on thin boards

minimum upward force of only 2.5 g per pin thanks to the enlarged pin area; ESD-safe pin caps avoid component stress

High density as standard

HD modules with 12 × 18 mm pin pitch; start with a few modules and add more as needed

OPTI-FLOW airflow control

add or remove modules at changeover without readjusting the airflow

Component clearance

13.5 mm underside clearance with the QT series, 27 mm with the QTZ (Z-MAX) series

Mistake-proof connections

non-interchangeable male/female pneumatic connectors at the manifold; all air and electrical connections are poka-yoke

Low maintenance

pin lock lubrication isolated from the pins; heavier, twice as thick pins drop readily on reset and do not bend; a new tip design lets pins be removed without removing the tip

Warranty

3 years on valves and electronics



Modules under the PCB in a printer



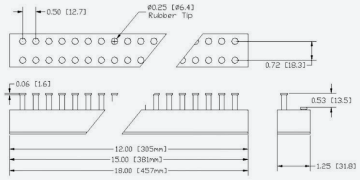
Hand-held controller and control unit



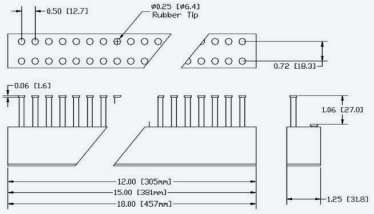
Mistake-proof male/female connectors



Tapered support tip



QT module dimensions



QTZ (Z-MAX) module dimensions

EXAMPLE: WHAT FASTER CHANGEOVER IS WORTH

Quik-Tool's own example for one line with a stencil printer and two placement machines: 10 minutes saved per changeover, 3 changeovers a day and a line value of 640 € per hour give 1/6 h × 3 × 640 € = **320 € per day** of extra line time. Send us your line data and we calculate the payback for your configuration.

TECHNICAL SPECIFICATIONS

Operation	100% pneumatic
Setup modes	automatic (independent trigger signal, opto sensor) or manual (one-button hand-held controller)
Pin pitch	12 × 18 mm (High Density modules)
Holding force per pin	2000 g at 6 bar (90 PSI)
Minimum upward force per pin	2.5 g
QT series (standard)	minimum module height with pins extended 39.5 mm; component clearance 13.5 mm
QTZ series (Z-MAX)	minimum module height with pins extended 66.5 mm; component clearance 27 mm
Airflow	OPTI-FLOW automatic airflow management, no adjustment when modules are added or removed

Connections	non-interchangeable male/female pneumatic connectors
Pin caps / tips	ESD-conformable caps; tapered tips, pins removable without removing the tip
Warranty	3 years on valves and electronics
Stencil printers	EKRA, DEK, MPM Speedline, ERSA, Speedprint, Juki / GKG, SJ Innotech, Essemtec, Reprint, Desen, Samsung, Yamaha, Fuji, Sony
Placement machines	ASM Siplace, Universal, Juki, Samsung, Assembleon, Fuji, Europlacer, Panasonic, Yamaha, Mimot, I-Pulse, Dima, Essemtec
Inspection (SPI / AOI)	e.g. Viscom, Koh Young, Modus

Configuration, demo and quotation

InterElectronic is the Quik-Tool partner for Hungary and Central Europe: application advice, sample tests, installation, training and service.

InterElectronic Hungary, H-2461 Tárnok, Pacsírtamező street 3 D/1

Phone +36 30 296 45 05

Email info@interelectronic.com

Web www.interelectronic.com

Specifications according to Quik-Tool. Subject to change without notice.