

heat-seal bonding

Uni-Turn Semi-Automatic High Precision Heat-Seal System

This Stand-Alone Heat-Sealing workstation is designed to produce highly reliable heat-seal connections as widely applied in today's electronics manufacturing. Utilizing a force controlled, motorized head and pulse-heated Thermo-Plane thermode technology, the Uni-Turn produces extremely reliable and consistent results according to the highest industrial standards.

- LCD to Flex, LCD to PCB
- Mobile Phones, Laptop Computers
- Automotive Applications, Consumer Electronics, and Many More



Key Features

- Uniflow pulse-heated control with graphical data output and remote programming provides targeted heating and precision temperature controls
- Two-position rotary table enables simultaneous product loading and unloading while the process is running, doubling output
- High precision motorized pneumatic head with programmable speed and force profile ensures consistent process results with even the finest pitch applications (down to 50 microns)
- Pulse-heated Thermo-Plane thermode offers uniform temperature distribution, optimal flatness and fast heating and cool-down
- Highly reliable PLC controlled system
- Two-hand operation for operator safety
- Ergonomically designed adjustable table height
- CE approved

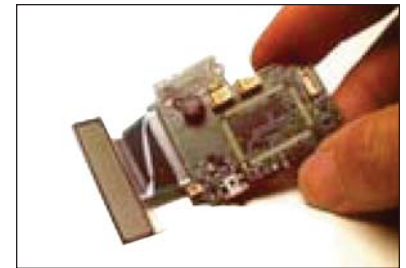
Options include:

- Manual or automatic interposer system
- Customized product fixtures
- Fine pitch optical alignment
- High and low force range motorized head
- Pneumatic bonding heads

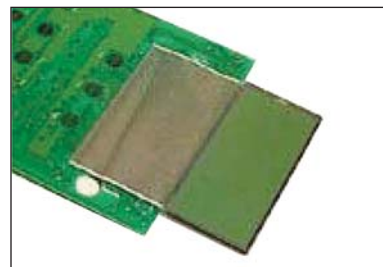
TYPICAL APPLICATIONS



TCP driver to LCD



Consumer displays



Mobile phone display

SYSTEM SPECIFICATIONS

Dimensions Inches (mm) D x W x H	34.0 x 49.0 x 35.0 (860 x 1250 x 900)
Weight Lbs. (Kg)	551 (250)
Power Consumption	230 Vac, 50/60Hz, 16 Amp max
Air Supply	80-100 psi (6 bar) dry and filtered air
Maximum Fixture Height Inches (mm)	2.0 (50)
Table Diameter Inches (mm)	13.8 (350)
Travel Speed	1 second per 180°
Accuracy Inches (mm)	0.001 (0.05)
Fixture Assembly Base-Plate Inches (mm)	6.3 x 3.1 (180 x 60)
Starting Operation	CE certified 2-hand relay control
Operating Temperature	60-104°F (15-40°C)

BONDING HEAD SPECIFICATIONS

Head Module	SH500	PH500	SH1250	PH1250
Head Actuation Method	pneumatic	motorized	pneumatic	motorized
Force Range Lbs. (N)	7-112 (30-500) [3-51 Kgf]		56.2-281 (250-1250) [25.5-127.5 Kgf]	
Hot Bar Stroke Inches (mm)	.98 (25.0)			
Appropriate Quick Connect Thermode Blocks	69Q9001		69Q9002	
Appropriate Thermodes	Thermo-Plane (to suit application)			
Maximum Thermode Length Inches (mm)	1.7 (Up to 50)		3.94 (Up to 100)	
Thermocouple Type	K-type			
Force Generation	Pre-tensioned spring			
Force Accuracy Inches (N)	± 2% or ± .44 (2), whichever is greater			
Force Repeatability Inches (N)	± 1% or ± .22 (1), whichever is greater			

UNIFLOW PULSE HEAT SPECIFICATIONS

Weight Lbs. (kg)	58 (26.31)
Dimensions Inches (mm) D x W x H	12.6 x 9.7 x 16.2 (319 x 246 x 411)
Temperature Range Preheat	140-572°F (60-300°C)
Temperature Range Preheat	140-1112°F (60-600°C)
Time Period Preheat	0-99.9 seconds or continuous (0.1 second increments)
Time Period Rise Time	0-9.9 seconds (0.1 second increments)
Time Period Heat Time	0.1-99.9 seconds (0.1 second increments)
Temperature Accuracy	±2% or readying or 10°F (6°C), whichever is greater
Temperature Repeatability	±1% of reading
Heating Rate Control	Coarse adjustment and fine adjustment via set-up software
Programmable Heat Profiles	Fifteen (15) non-volatile memory
Dedicated Input Relays	24Vac / 0.3Amp
Head Cool Relay	ON/OFF for cooling thermode holder
Solder Cool Relay	ON @ COOL, OFF @ PREHEAT
Programmable Relays	4 each, electromechanical (24Vac or 24Vdc/0.3 Amp)
Programmable Relay Functions	Reflow, preheat, alarm, clean thermode, replace thermode, end reflow, head is up, system read
Communication Ports	RS-232, RS-485

Your Local Representative

ESEN ELEKTRONİK
MÜHENDİSLİK DAN.SAN.VE TİC.LTD.ŞTİ.

Yaylagül Sk. 8/4. Aşağı Ayrancı 06540 ANKARA - TÜRKİYE
Tel: +90 (312) 468 8114 Faks: +90 (312) 468 8115
<http://www.esenel.com> eposta@esenel.com

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EASTERN (USA)

Sales Office:
170 Cross Street
Boylston, MA 01505
Tel: (508) 869-0583
FAX: (508) 869-0585
E-Mail: eastsales@miyachiunitek.com

ASIA Sales Office:

Unit D, 20/F, Infotech Centre
21 Hung To Road
Kwun Tong, Hong Kong
Tel: +852 2833-6998
FAX: +852 2833-6672
E-Mail: asiapacific@miyachiunitek.com

UNITEK EAPRO (Europe):

Schootense Dreef 21
NL-5708 HZ Helmond
The Netherlands
Tel: +31 492-54-22-25
FAX: +31 492-53-62-22
E-Mail: info@unitekeapro.com

SOUTH AMERICA Sales Office:

Av. Raimundo Pereira de Magalhães
1720 – Edifício Via Fratelli, sl 163
São Paulo – SP /Brazil 05145-200
Tel/FAX: 55+ (11)3834.7245
Mobile: 55+ (11) 8389.8490
E-Mail: edson.urtado@miyachiunitek.com

MEXICO Sales Office:

Pedro Rosales de Leon 7946-200
Fraccionamiento Las Misiones
Ciudad, Juarez, Chihuahua Mexico
Tel: +52.656.623.2719
FAX: +52.656.617.6058
E-Mail: Jaime.morales@miyachiunitek.com

Corporate Office: 1820 S. Myrtle Ave. • P.O. Box 5033 • Monrovia, CA 91017-7133 USA
Tel: (626) 303-5676 • FAX: (626) 358-8048 • E-Mail: info@miyachiunitek.com
Internet <http://www.miyachiunitek.com> • ISO 9001 Certified Company