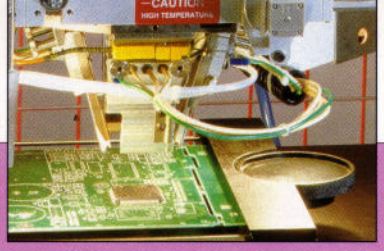


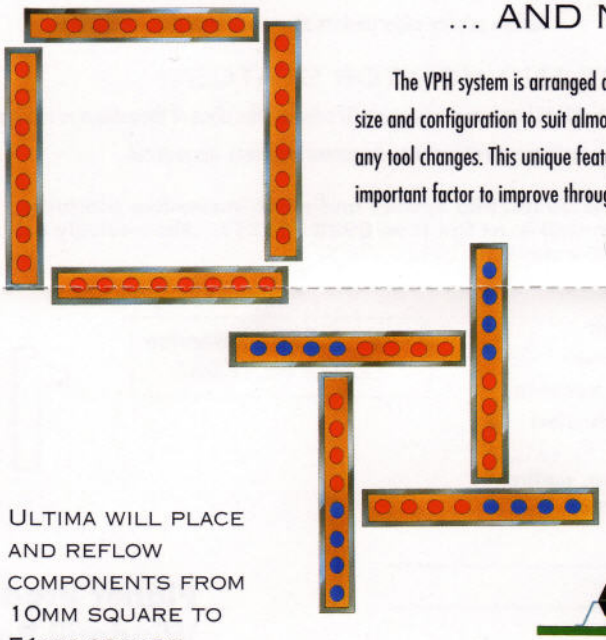
ULTIMA PRS

COMPUTER CONTROLLED PRECISION SEMI-AUTOMATIC PRODUCTION REWORK SYSTEM

The Ultima PRS system from Planer is ideal for both original production work or for reworking existing boards . The Ultima combines unrivalled accuracy with ease of use in a competitively priced package.

ADVANCED VARIABLE PERIMETER HEATING - FOR UNRIVALLED PRECISION.....

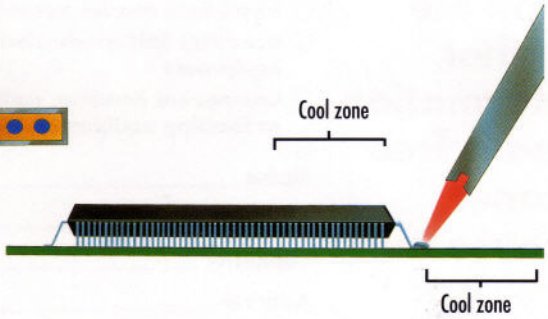
The Ultima system uses adjustable variable perimeter heaters (VPH) to generate highly directional jets of hot gas or air onto leads and pads during assembly and rework operations. The precise positioning of the jets and the automatic activation of either 4 or 8 nozzles help maximise thermal separation of adjacent components making the Ultima system ideal for standard and fine pitch devices.



... AND NO TOOL CHANGES

The VPH system is arranged as an iris. This allows the user to precisely adjust its size and configuration to suit almost all square or rectangular components without any tool changes. This unique feature makes the Ultima system totally flexible - an important factor to improve throughput in short run work.

ULTIMA WILL PLACE AND REFLOW COMPONENTS FROM 10MM SQUARE TO 51MM SQUARE



THE VPH SYSTEM ENSURES LOCALISED HEATING OF SOLDER JOINTS

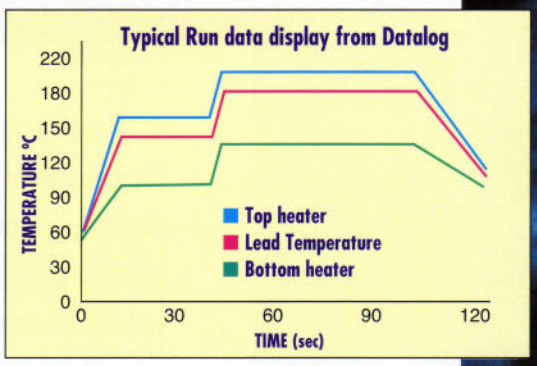
PLANER INDUSTRIAL

PLANER INDUSTRIAL. WINDMILL ROAD SUNBURY MIDDLESEX TW16 7HD, UK.
Tel: (0932) 786262. Fax: (0932) 781151

THE ULTIMA PRS SYSTEM - SIMPLE TO PROGRAMME.....EASY TO USE

COMPUTER CONTROLLED AUTOMATED LEARN PROGRAMME

The Ultima system is computer controlled and incorporates an automatic "learn" function. Production engineers can create and verify new component cycles in minutes. The system automatically runs a learn cycle using a thermocouple placed on a component lead and prompts the user to the optimum protocol. Once developed any number of protocols can be stored on disc and up to 10 can be assigned to the selector panel on the front of the unit for automatic operation. Once assigned the protocols are password protected and can be selected by name and automatically run. A Datalog feature enables the temperatures of the top and bottom heaters and up to 6 thermocouples placed on the PCB to be recorded and graphed for simple, fast, protocol verification.



SIMPLE 3 STEP OPERATION - FOR REPRODUCIBLE RESULTS EVERYTIME

STEP 1

SELECT COMPONENT AND PROCESS CYCLE

Choose one of the ten pre-programmed cycles

STEP 2

SELECT FUNCTION

The Ultima system has five automated sequences for assembly and rework operations:

Remove - Lowers the heaters and reflows the solder. The vacuum pick up removes the component from the site

Reflow/Place - Holds the component above the site, activates the heaters and after reflow places the component

Place/Reflow - The component is placed directly on the board, the heaters are then lowered to reflow the solder

Reflow - Reflows existing solder joints.

Realign - Reflows existing solder joints to allow component realignment.

STEP 3

START AND MONITOR STATUS

Press the START button and a series of LED's displays the status of the automated cycle and when operator actions, such as heater or component alignment, are required.

To receive further information on the Ultima PRS system and other innovative products complete the card below and either mail it, or fax it on 0932 781151. Alternatively call the Planer Sales Team on 0932 786262, extension 251.