

APPLICATION NOTE: **MICRODRIVES FOR CONTINUOUS OVENS**

Many processes require a precise and repeatable process control. Typical applications include:

CONTINUOUS BAKING OVENS

BROILERS - CONVEYORIZED

PIZZA OVENS

ULTRAVIOLET CURING OVENS FOR SEMICONDUCTOR MANUFACTURING

DRYING OVENS FOR SILK SCREENING

PAINT DRYING OVENS

GLASS TEMPER OVENS

SURFACE MOUNT EQUIPMENT

HEAT SHRINK OVENS

WAVE SOLDER MACHINES - CONVEYOR AND SOLDER PUMP

PC BOARD WASHERS

SOLUTION 1: The MicroDrive is ideally suited for this type application. Since it is closed loop it can maintain an exact time in an oven. For convenience it is programmed in time-of-process. Customers get consistent results - always! In applications like wave solder machines, tight speed regulation is critical since the height of the wave solder determines the consistency of the PC board quality. The digital display and pushbutton input also provide the modern features expected by today's market.

SOLUTION 2: Some equipment already has a PLC on it. Here a control must accept a speed control signal from the PLC. Since the PLC regulates the speed of all driven equipment, an open loop control is used. A 125DV-C-55G control was used. The -55G isolator option accepts a voltage speed command signal.

