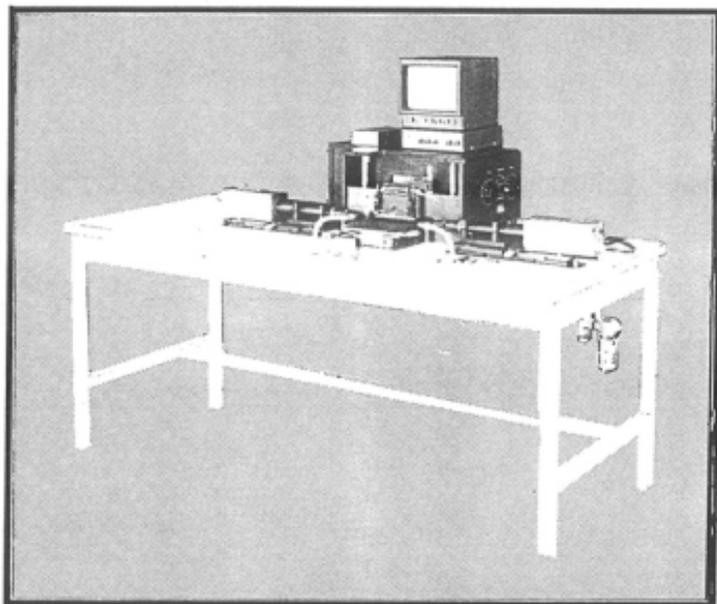


THE MODEL 60
GREEN CERAMIC CUTTING SYSTEM
PRODUCT MANUAL



Model 60 Serial No. _____

Owner's Manual No. _____

Date Issued _____

THE MODEL 60
GREEN CERAMIC CUTTING SYSTEM
PRODUCT MANUAL

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MANUAL P/N: 9100060

PALOMAR SYSTEMS AND MACHINES, INC.
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SECTION 1

INTRODUCTION AND SITE PREPARATION

SECTION

1.1 INTRODUCTION TO THE MODEL 60

The Model 60 Ceramic Cutting System is one of four new product lines that Palomar Systems and Machines (PSM) has recently made available to the ceramic chip manufacturer. Its contribution to the Capacitor Industry's future is going to be significant.

The Model 60 has been specifically designed for precision slicing and dicing of green ceramic bars or wafers into rectangular chips. Its primary design considerations provide the ceramic chip manufacturer with 5 very important production advantages.

1. A continuously adjustable "YAW" alignment allows the operator to constantly compensate for bar distortion. The result is increased yield without sacrificing production throughput.
2. A standard "X - Y" stepping resolution of 0.001" insures extreme accuracy of cut.
3. Microscopic optics and a split screen video system provides the highest possible monitor resolution.
4. Unique horizontal visualization of cut marks eliminates ink changes, saving precious metal and screen cleanup time.
5. Blade and stage Heating and Vacuum system provide cleaner cuts and longer blade life.

SECTION (1.1 Continued)

The "OPERATOR" Control panel has two three-decade thumb wheel switches to set the X and Y coordinates. A two position toggle switch selects the desired X or Y coordinates and automatically rotates the Stage to the corresponding alignment. Stage forward and reverse positioning for the "INDEX," "JOG" and "RUN" control functions are activated by six momentary push buttons. A seventh momentary push button is pushed to initiate blade cutting action. Simultaneously depressing the "INDEX" and "CUT" switches causes the Blade and Stage assemblies to continuously repeat the Index - Cut sequence until the operator releases either switch.

A "SET-UP" Control panel provides four Isolated Set-Up adjustment control settings: Blade heater power control; Stage heater power control; Master "RECTANGULAR / SQUARE A / SQUARE B" select switch and the Blade "SPEED" adjustment knob.

SECTION**1.2 PREPARATION PRIOR TO DELIVERY**

To insure a quick and successful installation, you should be aware of the following important procedures.

1.2.1 Know the Shipment Arrival Date

A Palomar Systems and Machines' representative will notify you when your order has been shipped. Allow yourself enough time for proper site preparation and shipment receiving arrangements.

The System 60 has been designed for easy installation and does not require the supervision of a Palomar Systems and Machines' Service Engineer. If assistance is required, contact your PSM Sales or Field Service Representative.

NOTE:

Installation by the manufacturer is in addition to the purchase price and will be quoted at Palomar Systems and Machines' standard service labor and expense rates.

IDENTIFICATION TABLE 1-2**SITE PREPARATION**

Power Requirements:	115 VAC +/- 10%, 50/60 Hz single phase, 10A
Compressed Air:	60 psi, 2 cu. in./minute
Floor Space:	30" deep x 72" long (76 cm x 183 cm)
Shipping Weight:	500 lbs. (227.3 kilos)
Actual Weight:	400 lbs. (181.8 kilos)