



SLO-SYN[®]

Photo Artwork Generator

- **GENERATES ARTWORK FOR PRINTED CIRCUITS, THICK FILM, THIN FILM AND OTHER CRITICAL GRAPHIC REQUIREMENTS**
- **PREPARES NEGATIVES UP TO 22" x 18" (560mm x 460mm)**
- **TAPE CONTROLLED—AUTOMATICALLY POSITIONS FILM AND SELECTS APERTURE**
- **VERIFICATION MODE CHECKS TAPE PROGRAM VALIDITY**

SUPERIOR ELECTRIC NEDERLAND N.V.

SLO-SYN[®]

Photo Artwork Generator

The Photo Artwork Generator is a compact numerically controlled machine for generating precision artwork in printed circuit, thick film, thin film and other critical photo master and mask preparation operations. Operating from tape input, the unit will produce photographic film negatives up to 22" x 18" (560mm x 460mm). Glass plates can also be used where highest precision is necessary, as in micro-circuit artwork applications. Where required, negatives may be scaled for photo reduction to obtain increased resolution in the final size.

The SLO-SYN Photo Artwork Generator can be programmed to operate in a flash mode, a line drawing mode or a verification mode. In the flash mode, a timed exposure is projected at a programmed location on the film. The line drawing mode provides exposure while the aperture is moving between two points. Lines can be drawn along either axis or at a 45° angle. In the verification mode, the exposure elements are inoperative and the unit traces the program on paper using the pen plotting accessory provided.

NUMERICAL CONTROL

A four-axis SLO-SYN Numerical Tape Control automatically positions the film and aperture disc and coordinates exposure and light intensity. The control operates from standard one inch wide (25mm), eight channel tape and can be supplied for use with EIA or with ASCII codes. Programming is simple and extensive training is not required to operate the control. Plug-in solid-state circuits assure optimum reliability and allow rapid correction of any malfunction.

EXPOSURE UNIT

The exposure unit elements are contained in a light-tight cabinet designed for easy access to all working parts. Positioning elements are ribbed aluminum castings constructed in a compact and rigid bridge configuration. The photographic material is held on a vacuum platen which moves on a precision table beneath a light head assembly containing light source and a disc with 50 apertures. In-

tensity of the lamp source is controlled by codes in the tape program. All exposure unit elements are solidly constructed to assure lasting accuracy and are arranged for easy access to all working parts.

SPECIFICATIONS ALL MODELS

Table Travel	22" (560mm) x 18" (460mm)
Lead Screws	recirculating ball-nut with no backlash
Shutter	controlled from tape
Apertures	50 per disc
Aperture Range (standard disc)	0.005" (0,13mm) to 0.300" (7,6mm), other ranges including metric available
Film	prepares positives or negatives to 18" (460mm) x 22" (560mm) on a variety of films
Fine Line Capability	0.005" (0,10mm)
Power Input	220/240 volt ±10%, 50 hertz, single phase

TABLE SPECIFICATIONS

	MODELS	
	SNC2218PX	SNC2218PMX
Positioning Resolution	0.001 inch*	0,01mm
Accuracy	±0.001 inch	±0,02mm
Repeatability	0.0005 inch	0,01mm
Orthogonality	within 0.0005 inch	within 0,01mm

* Resolution of 0.0005 inch also available.

ALL PRODUCTS ARE MANUFACTURED IN THE UNITED STATES BY THE SUPERIOR ELECTRIC COMPANY, BRISTOL, CONNECTICUT.

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The right to make engineering refinements on all products is reserved. Dimensions and other details are subject to change. When dimensions are critical, detailed drawings should be obtained from the factory.



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