# PC-800 Model 2...
output, the measure of productivity

Once verified, the job disk becomes an environmentally secure database immune to the problems of hand-taped artwork, such as peeling, abrasion, and dimensional creeping. It can be stored and updated at any time with no loss in registration accuracy. That common database can be used to generate artwork masters, pad masters, solder masks, silkscreen masters, assembly drawings, and optional documentation. The results are dependable accuracy and consistency, from designer's concept to finished board.

Artwork Masters. PCB layouts can be digitized any size and the artwork generated will be 1 to 1. The need for costly photo-reductions is eliminated.
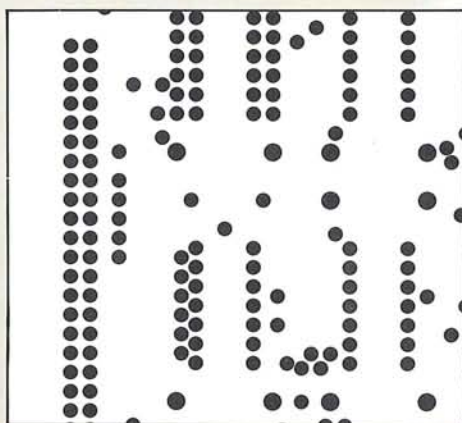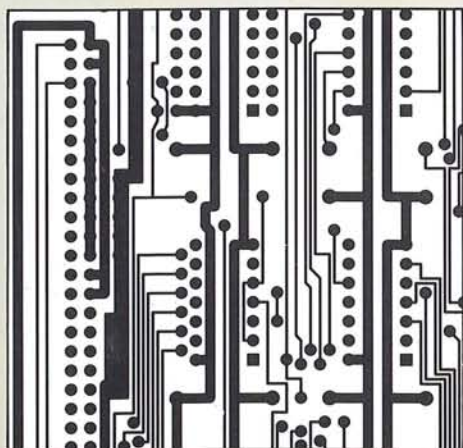
Solder Masks. The solder mask is generated from the same database as the artwork master. This improves the manufacturability of the board and reduces external charges.

Silkscreen Masters. The component layout and reference designators that are commonly created as part of the symbols can be extracted to generate a silkscreen master. Additional text can be added through the print function of the Digitize/Edit program.
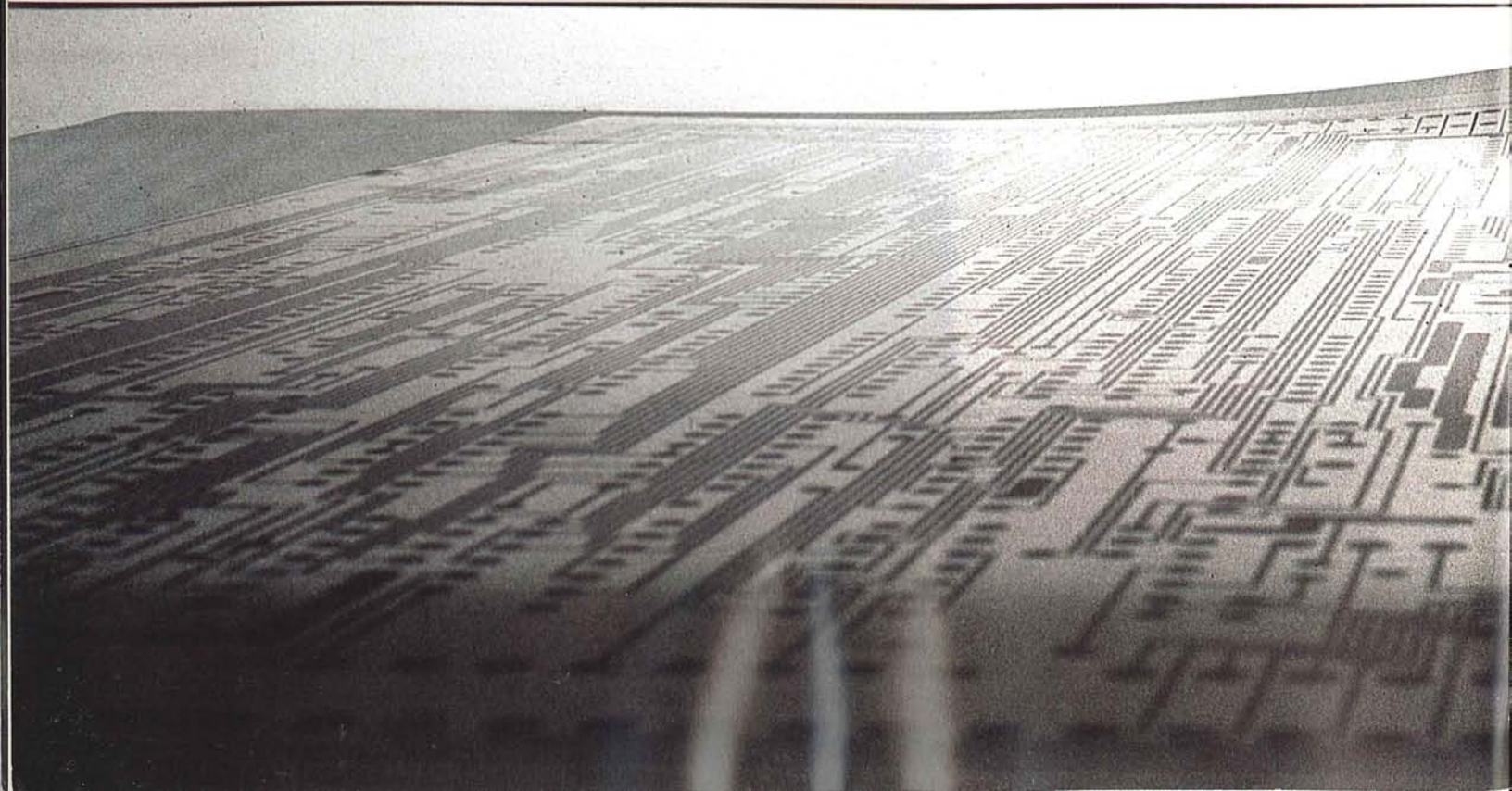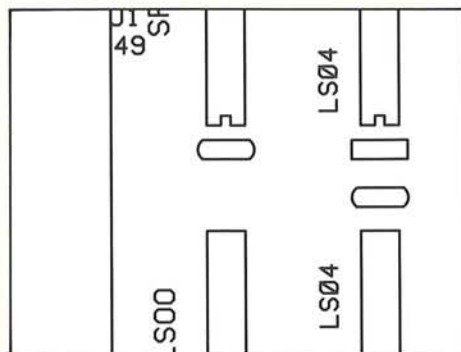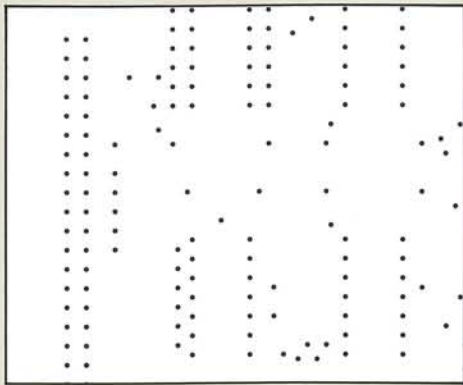
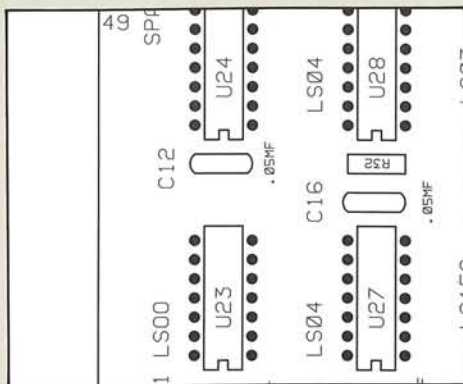**Pad Masters.** The pad master is generated from the same database as the artwork master and is used to create a drill pattern.

Assembly Drawings. To aid in bread-boarding prototypes or hand-insertion of components, assembly drawings can be generated from the same database as the original design.

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                    LAMP DRIVER INTERFACE BOARD
REFERENCE           MANUFACTURERS           COMPONENT
DESIGNATOR          PART NUMBER             DESCRIPTION

C1                  6483231                 .1MFD 20V CAP.
C2                  6542971                 33MFD 10V CAP.
CR1                 1N2203                  2203 DIODE
CR2                 1N2203                  2203 DIODE
CR3                 1N2203                  2203 DIODE
CR4                 1N2203                  2203 DIODE
CR5                 1N2203                  2203 DIODE
CR6                 1N2203                  2203 DIODE
Q1                  4523210                 2N3819 TRANSISTOR
Q2                  4522230                 2N2102 TRANSISTOR
Q3                  4522230                 2N2102 TRANSISTOR
Q4                  4522230                 2N2102 TRANSISTOR
Q5                  4522230                 2N2102 TRANSISTOR
Q6                  4522230                 2N2102 TRANSISTOR
Q7                  4522230                 2N2102 TRANSISTOR
R1                  5541009                 20M OHM TRIM POT
R2                  5542198                 500 OHM TRIM POT
R3                  7650074                 5K 1/4 W RESISTOR
R4                  7650074                 5K 1/4 W RESISTOR
R5                  7650095                 500 OHM 1/4 W RES.
R6                  7650095                 500 OHM 1/4 W RES.
R7                  7650095                 500 OHM 1/4 W RES.
R8                  7650081                 30K 1/4 W RESISTOR
R9                  7650072                 2K 1/4 W RESISTOR
R10                 7650071                 1K 1/4 W RESISTOR
R11                 7650074                 5K 1/4 W RESISTOR
R12                 7650074                 5K 1/4 W RESISTOR
R13                 7650095                 500 OHM 1/4 W RES.
R14                 7650095                 500 OHM 1/4 W RES.
R15                 7650095                 500 OHM 1/4 W RES.
R16                 7650081                 30K 1/4 W RESISTOR
R17                 7650072                 2K 1/4 W RESISTOR
R18                 7650071                 1K 1/4 W RESISTOR
R19                 7650074                 5K 1/4 W RESISTOR
R20                 7650074                 5K 1/4 W RESISTOR
R21                 7650095                 500 OHM 1/4 W RES.
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Support Documentation. The Component Manager program allows a description to be placed on each symbol with a reference designator. From the description, it is possible to extract fields of information for various reports to complete the PC package, for example, parts lists or bills of material.
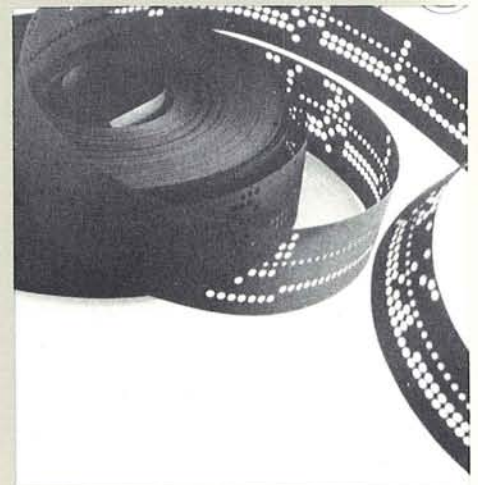
Drill Tapes. Automatic insertion equipment requires precise drill holes board-to-board. Drill tapes produced by the system provide consistently precise registration.

Drill Drawings. Drill drawings with user-defined symbols representing relative holes sizes on the PC board can be generated from the same database as the artwork master with the Drill Drawing Program.
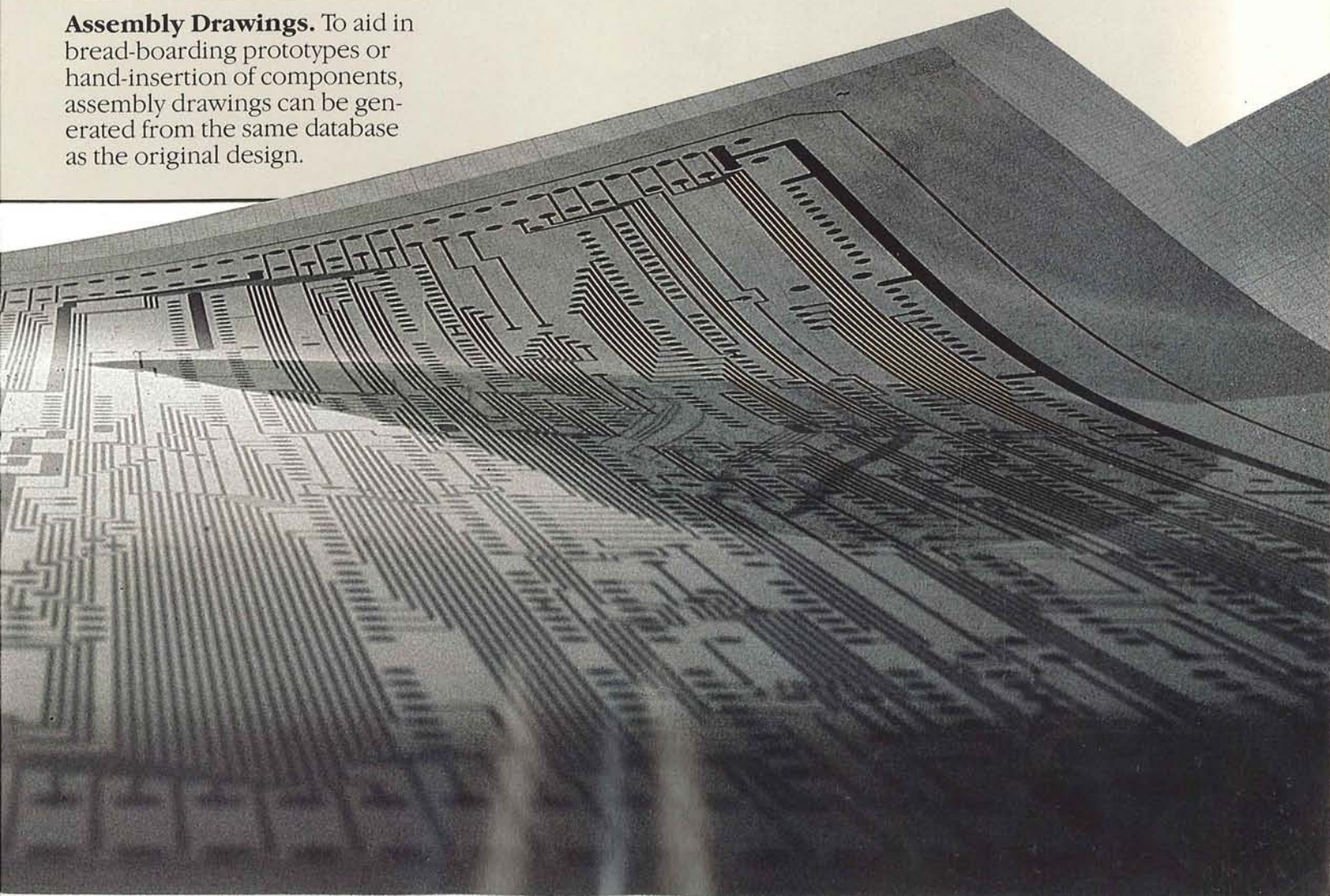
PC-800 Model 2...
flexible configurations

The PC-800 Model 2 is capable of operating at speeds and accuracies far beyond human capabilities, producing dramatic improvements in productivity, turnaround time and product quality. To enhance the most productive, cost-effective system on the market today users can select from a wide variety of dependable hardware and software performance packages.

GSI Photoplotters

All PC-800 Model 2 configurations will support the following GSI photoplotters depending on the requirements of the user.

GSI Model 41 Photoplotter

- Most popular PCB plotter
- Active plotting area 16" × 20" (406 × 508 mm)
- Overall accuracy ±0.001" (±0.025 mm)
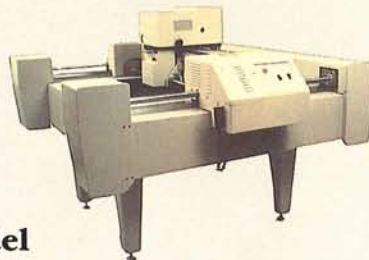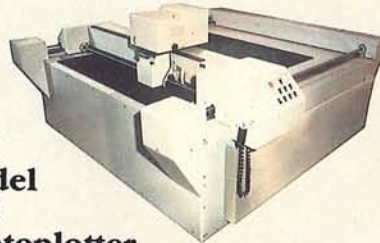- Two mil minimum line width

GSI Model 42F Photoplotter

- High-speed, large area plotter
- Active plotting area 36" × 48" (.91 × 1.22 m)
- Maximum speed 42"/second (1.067 m/second)

- Overall accuracy ±0.004" (±0.10 mm) ±0.0025" over 12" × 12" area

GSI Model 32B Photoplotter

- Precise, large area plotter
- Active plotting area 48" × 60" (1.22 × 1.52 m)
- Overall accuracy ±0.0008" (±0.020 mm)

GSI Model 33B Photoplotter

- Ultra-precise, mid-size plotter
- Active plotting area 25" × 30" (536 × 762 mm)
- Overall accuracy ±0.0005" (±0.013 mm)

GSI Optional Hardware

To enhance the performance and extend the capabilities of the PC-800 Model 2 system, a variety of proven hardware options are available.

GSI Model 8030 Printer

- Dot-matrix print head
- Bidirectional up to 180 characters/second
- Maximum line length 132 characters at 10 characters/inch (25.4 mm)
- Three print densities
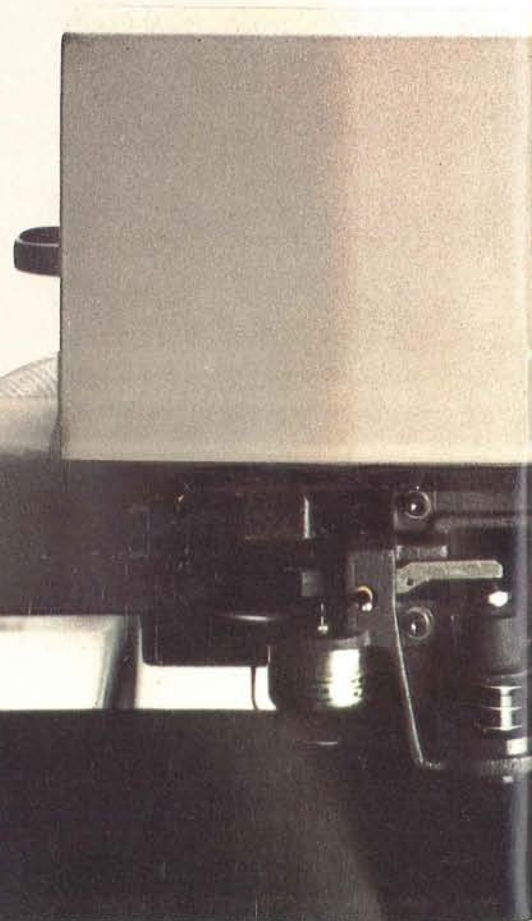
GSI Model 8080 Magnetic Tape Unit
- 800 BPI (1600 BPI Model 8081)
- Accepts 10-1/2" IBM-compatible 9-track tapes
- Produces plot tapes, N/C drill tape and Data Base Language output

GSI Model 8088 Drill Tape Unit
- Includes perforated tape punch and reader
- Produces 8-channel perforated tapes
- Punch speed to 75 characters/second
- Read speed to 400 characters/second
- Produces N/C drill tapes or reads tape data

GSI Model 8045 Data Entry Keypad and Display
A Data Entry Keypad and Display is included as part of the basic system configuration. A second unit is available as an option to allow the operator to input data and commands from both the digitizer and console.

GSI Model 8390 Communications Interface
The RS-232-C Communications Interface provides for the transmission of data between the PC-800 Model 2 and a host computer. It is also used as the communications link between Model 2 and various peripherals including plotters and other computing systems.

GSI Model 8060 Check Plotter Interface
The Check Plotter Interface provides for the use of the Hewlett-Packard Model 7580A drafting plotter for production of at-width check plots and drill tape verification drawings (with optional drill tape package).

GSI Optional Software
Software supplied with the PC-800 Model 2 includes Digitize/Edit for data entry onto the job disk; Symbol Librarian for storing symbols; Component Manager for producing support documentation; Plot/Verify for transferring data to the output devices; and Plot-At-Width for generating scales plots to check spacing. Nearly all system configurations support the following software options.

GSI Model 8856 Data Base Language Program
The Data Base Language Program allows the operator to retrieve graphics information from the database and transcribe it onto magnetic tape, transmit it to another computing system via the RS-232-C interface, or make a hardcopy using the GSI Printer.

GSI Model 8852 Tape Plot Program
The Tape Plot Program allows the operator to photoplot data which was not produced on the PC-800 Model 2, provided the system is configured with a photoplotter and magnetic tape or perforated tape unit.

*Drill Drawing Program
The Drill Drawing Program includes software for generating a drill drawing with the user defined symbols. The data may then be transferred to tape or directly on-line to a photoplotter.

*Drill Tape Program
The Drill Tape Program contains the software for preparing N/C drill machine tapes. To utilize this software option, the system must be configured with a magnetic tape or drill tape unit.

*Supplied with Models 8080, 8081 or 8088.

PC-800 Model 2 . . . the proven way to increase productivity

The Gerber Scientific Instrument Company

Corporate Headquarters
The Gerber Scientific
Instrument Company
P.O. Box 305
Hartford, Connecticut 06101
TEL: (203) 644-1551
TWX: (710) 427-2218
TX: 99290

Sales & Service Offices in the United States

Northeastern Regional Sales Office
83 Gerber Road West
South Windsor, Connecticut 06074
TEL: (203) 644-1551

266 Main Street
Fishkill, New York 12524
TEL: (914) 896-5369

28 West Ardmore Avenue
Ardmore, Pennsylvania 19003
TEL: (215) 664-0503

Mississauga Executive Centre
2 Robert Speck Parkway, Suite 750
Mississauga, Ontario L4Z 1H8
TEL: (416) 276-8841

Southern Regional Sales Office
1300 Piccard Drive, Suite LL4
Rockville, Maryland 20850
TEL: (301) 840-0555

3823 Cavalier
Garland, Texas 75042
TEL: (214) 272-8538

120 Interstate North Parkway E.
Atlanta, Georgia 30339

13575 101st Terrace North
Seminole, Florida 33542
TEL: (813) 596-6650

Central Regional Sales Office
100 Tower Drive, Suite 228
Burr Ridge, Illinois 60521
TEL: (312) 655-2900

27031 Southfield Road
Lathrup Village, Michigan 48075
TEL: (313) 559-2670

4601 Excelsior Boulevard, Suite 519
St. Louis Park, Minnesota 55416
TEL: (612) 926-0620

38 Triangle Park Drive, Suite 3802
Cincinnati, Ohio 45246
TEL: (513) 772-3712

Western Regional Sales Office
6925 Canby Avenue, Suite 110
Reseda, California 91335
TEL: (213) 705-8200

1645 South Boscom Avenue, Suite 6
Campbell, California 95008
TEL: (408) 371-3242

1207 Pennsylvania
Denver, Colorado 80203
TEL: (303) 832-7272

1521 130th Avenue, N.E.
Bellevue, Washington 98005
TEL: (206) 455-4922

In Europe

Regional Headquarters:
Gerber Scientific Europe S.A.
Boulevard de Souverain, 100
Boite 2
B-1170, Bruxelles, Belgium
TEL: (32) 02/672.23.10
TX: (846) 24139 GERBER B

Gerber Scientific Instruments GmbH
Landsbergerstrasse 291/1
D-8000 München, Germany
TEL: (49) 89/58.03.041/042
TX: (841) 5212534

Gerber Scientific – Italia
Viale Dei Mille 3
1-29100 Piacenza, Italy
TEL: (39) 523.26761

Gerber Scientific France SARL
Avenue Leon Gambetta, 19
F-92120 Montrouge, France
TEL: (33) 1/657.14.25
TX: (842) 203541

Gerber Scientific (U.K.), Ltd.
Clive House
12-18 Queens Road
Weybridge
Surrey, KT 13 9XD
England
TEL: (44) 932-5595188
TX: (851) 925910

In Israel:
Beta Engineering & Development, Ltd.
P.O. Box 98
Beer Sheva, Israel
TEL: 057-34341
TX: (922) 5388

Additional International Sales and Service Representatives:
Australia, Brazil, Hong Kong, India, Japan, Korea, Mexico, New Zealand, Singapore, South Africa, Taiwan and Thailand

GSI The Gerber Scientific Instrument Company

A Gerber Scientific Company
83 Gerber Road, South Windsor, CT 06074 / 203-644-1551