GSI™

Model 3100 Controller Specifications

The Model 3100 Plotter Control is a powerful 68000 based microprocessor controller with a computer display terminal and a 5¼" floppy disc to load Gerber's plotting software. GSI's most versatile controller, the 3100 can be configured with almost every GSI pen and photoplotter.

POWERFUL

- o Utilizing the Motorola 68000 microprocessor, the powerful 3100 control comes with 256KB of memory. This allows for Input Data Buffering and Look-Ahead processing for automatic acceleration and deceleration to provide optimum traversing speed.
- o Linear, 90º circular, 360º circular interpolation is standard; parabolic and cubic interpolation is available.
- o Multiple plot queuing allows the operator to plot up to 16 separate plots each with its own offset, without operator intervention.
- o Automatic dash line generation, data scaling, mirroring, windowing, and stored symbols are capabilities of the 3100 Control.

VERSATILE

- o Extensive data input formats - choose 1, 2 or all three:
  - o Gerber 400 Format (EIA RS-274-D)
  - o Gerber 500 Format
  - o Gerber Extended Binary
- o Online or Offline, or both, - choose 1, 2 or all 5 data input modes:
  - o Paper Tape Input
  - o 9 track 800/1600 bpi Magnetic Tape
  - o 8 bit parallel or 16 bit parallel interface
  - o RS232-C Serial Interface
  - o IBM Series 1 Interface.
- o Parameters may be changed via operator's console as far as 25' from the plotter. Using these commands, the operator controls system operation:

Aperture Offset
Aperture Velocity
Axis Select
Block Delete
Dashed Line
End of Block Character
Photohead Delays
File Search
Format Statement
Input Code
Input Data Display
Input Device
Load Symbol
Mirror Image
Mode
Offset
Optional Stop
Scale Factor
Sequence Number Start
Sequence Number End
Symbol Mirror
Symbol Scale
Table Position
Tape Position
Velocity Limit

HARDWARE OPTIONS

- o 800/1600 BPI Mag Tape
- o Paper Tape Reader/Handler
- o Parallel Interface/100' Cable
- o Series 1 Interface/100' Cable
- o RS-232 Interface/50' Cable

SOFTWARE OPTIONS

- o 500 Format
- o Extended Binary Format
- o Plot Q
- o Parabolic/Cubic