

# Fred V. Fowler Company, Inc.



## Gage Block Comparator

The Fowler 20" Twin Head Gage Block Comparator has the ability to calibrate the full range of standard gage blocks up to 20" The unit provides true point to point measurement.

Each of the two gage heads has its own power supply, amplifier circuit and controls. The signals are compared electronically to produce a differential reading, representing the true size of the gage block.

Both diamond contacts are parallel reed-floated for a low friction response. The electronic digital comparator features a fine resolution of .0000001", with RS-232-C output.

The 20" Twin Head Gage Block Comparator meets or exceeds the current standards outlined by: ANSI. ASME. ASQC, NCSI and ISO.

### Special Features:

- Calibrates the full range of standard gage blocks from: 0—20"
- Offers a choice of readout resolution as small as: .0000001"
- Meets or exceeds all metrology equipment standards.
- Easy-to-read digital display has CAL mode and auto zero function for easy setup.
- Auto zero function permits instant zero setting without mechanical or electrical adjustment.
- Optional information downloading for gage documentation.
- Step cam allows swift calibration of Metric and Standard blocks.
- Calibrate blocks from .100" through .150" in an 81 piece standard set without adjusting lead screw.
- Oversize platen reduces downtime by providing ample soaking area.
- Accommodates square or rectangular blocks.



Gage Blocks  
Pin Gages  
Rings

|                             | Inch              | Metric             |
|-----------------------------|-------------------|--------------------|
| <b>Capacity:</b>            | 0—20"             | 0—508mm            |
| <b>Repeat Accuracy:</b>     | .0000002"         | .000005mm          |
| <b>Gaging Force:</b>        |                   |                    |
| <i>Downward:</i>            | 2.12 ozs.         | 60 grams           |
| <i>Upward:</i>              | 1.06 ozs.         | 30 grams           |
| <b>Gaging Contacts:</b>     | Diamond           | Diamond            |
| <b>Contact Radius:</b>      | .125"             | 3.17mm             |
| <b>Size Stepping Range:</b> | .050"; .001"/step | .54mm; .010mm/step |

### Amplifier:

|                           |              |              |
|---------------------------|--------------|--------------|
| <i>Display Range:</i>     | ±1638 counts | ±1638 counts |
| <i>Least Digit:</i>       | .0000001"    | .000002mm    |
| <i>Output:</i>            | RS-232-C     | RS-232-C     |
| <i>Power Requirement:</i> | 100—240 VAC  | 100—240 VAC  |
|                           | 50/60Hz      | 50/60Hz      |

| Order No.  | Description                         |
|------------|-------------------------------------|
| 53-022-100 | 20" Twin Head Gage Block Comparator |