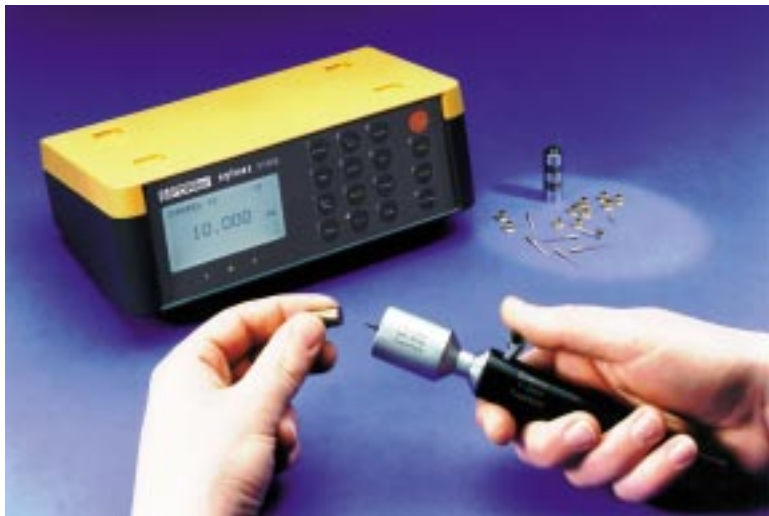


Fowler

Bowers Superbore System



Bowers Superbore Gages combine the Sylvac electronic measuring system with Bowers Bore Gages for the world's finest and easiest to use electronic bore gaging system.

You can select Bowers Superbore Gages as accessories to your existing Sylvac measuring system or start with electronic bore gaging as your primary application. Probes and other components can be added later to develop a custom, multi-purpose measuring system.

Components of the Bowers System: Superbore Gage Head, Electronic Transducer Handle with Sylvac Digital Indicator unit or Superbore Pistol Grip, Extra-Length Extensions and Setting Rings.

Special Features:

- The system utilizes a 3-point contact system for sizes .236" (6mm) and up. A 2-point "split cylinder" system is used for .040" (1mm) through .236" (6mm) sizes.
- Sizes above .630" (16mm) have ceramic measuring anvils.
- Every head is serialized and includes a test certificate.
- Quick, one hand operation is foolproof and allows even unskilled operators to measure and read clearly the exact size of the bore on the digital readout.
- The ample six-foot length, cable allows use at the machine or an inspection center. If needed, an optional nine foot extension cable is also available.
- High accuracy/wide range transducers allow a much wider range per gage head—fewer gage heads and rings are needed to cover the total size range. No need for air or expensive sleeves.
- Choice of digital indication units or Pistol Grip Handle.

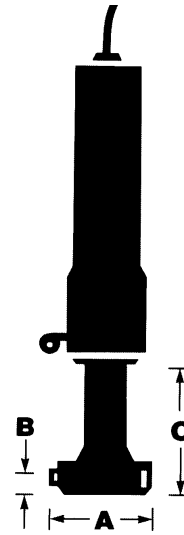


- Resolution to .00001" (.0001mm).
- Preset facility allows measurements of either actual size or deviation from zero.
- Output signals from the Sylvac units connect with printers and computers. Direct RS232 available.
- Rugged, shockproof design allows use in the most rigorous shop environment.
- Sets in wooden cases are available for convenient tool crib storage.
- Blind bore capability on most sizes.
- Special design heads available. Contact our Technical Department for details.



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Bowers Superbore Gage Heads



Bowers Electronic Bore Gage Heads cover a wider range of hole sizes than conventional air or electronic plug gages. Bowers' system needs fewer setting rings and no sleeves.

Superbore anvils are made from Zirconia ceramic—an "advanced" ceramic which offers high strength, low coefficient of friction, better wear resistance than carbide, excellent abrasion resistance (1.5 x carbide), better corrosion resistance than carbide, coefficient expansion similar to steel, and it's non-magnetic.

The Bowers Gage Head threads onto the transducer/handle. Optional extensions in sizes 2½"—6" increase the measuring depth. The extensions can be connected to each other to further increase depth. Extensions can be used on heads above .236" diameter.

Range sizes: .040"/1mm—12.126"/310mm. For smaller sizes (.040"/1mm—.236"/6mm), a 2-point or "split cylinder" system is utilized. A 3-point contact wedge system is used for larger sizes (.236"/6mm—12.126"/310mm). The 3-point contact is designed for indicating lobing. The 2-point design is for indicating out-of-roundness. See chart for "A", "B" and "C" dimensions.

| Order No. | A. Range Inch | A. Range Metric (mm) | B. Min. Capacity | C. Depth Capacity | Head Accuracy |
|------------|------------------|-------------------------|---------------------|----------------------|------------------|
| 54-555-210 | .040—.045" | 1—1.15mm | B.B. | .230" | .00007" |
| 54-555-212 | .045—.051" | 1.15—1.3mm | B.B. | .230" | .00007" |
| 54-555-215 | .051—.059" | 1.3—1.5mm | B.B. | .230" | .00007" |
| 54-555-218 | .059—.068" | 1.5—1.7mm | B.B. | .310" | .00007" |
| 54-555-220 | .068—.078" | 1.75—2.00mm | B.B. | .310" | .00007" |
| 54-555-222 | .078—.098" | 2—2.5mm | B.B. | .390" | .00007" |
| 54-555-223 | .098—.118" | 2.5—3mm | B.B. | .390" | .00007" |
| 54-555-224 | .118—.157" | 3—4mm | B.B. | .470" | .00007" |
| 54-555-225 | .157—.197" | 4—5mm | B.B. | .790" | .00007" |
| 54-555-226 | .197—.236" | 5—6mm | B.B. | .790" | .00007" |
| 54-555-008 | .236—.315" | 6—8mm | .157" | 2.300" | .0001" |
| 54-555-009 | .315—.393" | 8—10mm | .157" | 2.300" | .00007" |

B.B.=Blind bore reading: standard on all heads except .236—.472"(6-12mm).



Bowers Superbore Gage Heads



| Order No. | A. Range Inch | A. Range Metric (mm) | B. Min. Capacity | C. Depth Capacity | Head Accuracy |
|------------|------------------|-------------------------|---------------------|----------------------|------------------|
| 54-555-010 | .393—.472" | 10—12mm | .157" | 2.300" | .00007" |
| 54-555-011 | .472—.550" | 12—14mm | B.B. | 2.300" | .00007" |
| 54-555-012 | .550—.630" | 14—16mm | B.B. | 2.300" | .00007" |
| 54-555-015 | .630—.710" | 16—18mm | B.B. | 2.500" | .00006" |
| 54-555-018 | .710—.825" | 18—21mm | B.B. | 2.500" | .00006" |
| 54-555-021 | .825—.945" | 21—24mm | B.B. | 2.500" | .00006" |
| 54-555-024 | .945—1.062" | 24—27mm | B.B. | 2.500" | .00006" |
| 54-555-027 | 1.062—1.180" | 27—30mm | B.B. | 2.500" | .00006" |
| 54-555-030 | 1.180—1.340" | 30—34mm | B.B. | 2.500" | .00006" |
| 54-555-034 | 1.340—1.500" | 34—38mm | B.B. | 2.500" | .00006" |
| 54-555-038 | 1.500—1.650" | 38—42mm | B.B. | 2.500" | .00006" |
| 54-555-042 | 1.650—1.810" | 42—46mm | B.B. | 2.500" | .00006" |
| 54-555-046 | 1.810—1.970" | 46—50mm | B.B. | 2.500" | .00006" |
| 54-555-050 | 1.970—2.165" | 50—55mm | B.B. | 3.150" | .00008" |
| 54-555-055 | 2.165—2.360" | 55—60mm | B.B. | 3.150" | .00008" |
| 54-555-060 | 2.360—2.560" | 60—65mm | B.B. | 3.150" | .00008" |
| 54-555-065 | 2.560—2.756" | 65—70mm | B.B. | 3.150" | .00008" |
| 54-555-070 | 2.756—2.950" | 70—75mm | B.B. | 3.150" | .00008" |
| 54-555-075 | 2.950—3.150" | 75—80mm | B.B. | 3.150" | .00008" |
| 54-555-080 | 3.150—3.346" | 80—85mm | B.B. | 3.150" | .00008" |
| 54-555-085 | 3.346—3.543" | 85—90mm | B.B. | 3.150" | .00008" |
| 54-555-090 | 3.543—3.740" | 90—95mm | B.B. | 3.150" | .00008" |
| 54-555-095 | 3.740—3.940" | 95—100mm | B.B. | 3.150" | .00008" |
| 54-555-102 | 3.940—4.330" | 100—110mm | B.B. | 3.150" | .0001" |
| 54-555-107 | 4.330—4.725" | 110—120mm | B.B. | 3.150" | .0001" |
| 54-555-112 | 4.725—5.120" | 120—130mm | B.B. | 3.150" | .0001" |
| 54-555-117 | 5.120—5.510" | 130—140mm | B.B. | 3.150" | .0001" |
| 54-555-122 | 5.510—5.900" | 140—150mm | B.B. | 3.150" | .0001" |
| 54-555-127 | 5.900—6.300" | 150—160mm | B.B. | 3.150" | .0001" |
| 54-555-132 | 6.300—6.690" | 160—170mm | B.B. | 3.150" | .0001" |
| 54-555-137 | 6.690—7.090" | 170—180mm | B.B. | 3.150" | .0001" |
| 54-555-142 | 7.090—7.480" | 180—190mm | B.B. | 3.150" | .0001" |
| 54-555-146 | 7.480—7.875" | 190—200mm | B.B. | 3.150" | .0001" |
| 54-555-148 | 7.875—8.270" | 200—210mm | B.B. | 3.150" | .0001" |
| 54-555-152 | 8.270—8.661" | 210—220mm | B.B. | 4.625" | .00015" |
| 54-555-154 | 8.661—9.055" | 220—230mm | B.B. | 4.625" | .00015" |
| 54-555-156 | 9.055—9.449" | 230—240mm | B.B. | 4.625" | .00015" |
| 54-555-158 | 9.449—9.842" | 240—250mm | B.B. | 4.625" | .00015" |
| 54-555-160 | 9.842—10.236" | 250—260mm | B.B. | 4.625" | .00015" |
| 54-555-162 | 10.236—10.630" | 260—270mm | B.B. | 4.625" | .00015" |
| 54-555-164 | 10.630—11.024" | 270—280mm | B.B. | 4.625" | .00015" |
| 54-555-168 | 11.024—11.417" | 280—290mm | B.B. | 4.625" | .00015" |
| 54-555-170 | 11.417—11.811" | 290—300mm | B.B. | 4.625" | .00015" |
| 54-555-172 | 11.811—12.126" | 300—310mm | B.B. | 4.625" | .00015" |

B.B.=Blind bore reading: standard on all heads except .236—.472"(6-12mm).

