



Dial Bore Gauge

Part No: AE-MAN-BORE

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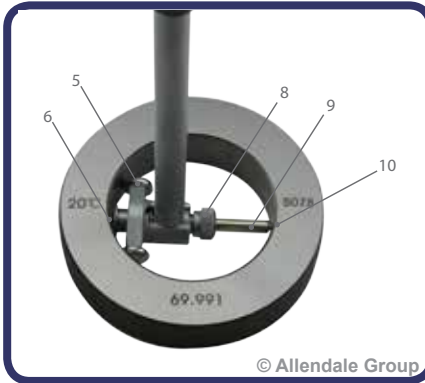
Precautions

- The bore gauge is a precision measuring instrument. Avoid using excessive force, and treat with care.
- Avoid exposure to all liquids, excessive humidity or temperature.
- Never use solvents to clean. Only use a soft cloth with cleaning oil.

Dial Bore Gauge

Loosen the locking screw, insert the dial gauge. The needle will start to rotate as it makes contact with the internal mechanism. Once two complete revolutions are made, tighten the locking screw. Test by pressing the measuring contact.

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1. Dial Gauge.
2. Locking Nut.
3. Insulating Handle.
4. Stem.
5. Centering Guide.
6. Measuring Contact Plunger
7. Extension (not on all models).
8. Collet Nut (not on all models).
9. Anvil.
10. Anvil contact.

Fitting the Anvils to a Collet Type Measuring Head



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1. The gauge needs to be set with suitable anvils and spacers for the bore being measured. The anvil contact and measuring contact plunger should touch both sides of the bore and compress by approximately half the measuring plunger travel.

2. Insert the anvil and spacer (if required). These spacers should be placed between the anvil shoulder and measuring head.

3. Secure with the Collet nut. Do not overtighten.

Fitting the Anvils to a Thread Type Measuring Head



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1. The gauge needs to be set with suitable anvils and spacers for the bore being measured. The anvil contact and measuring contact plunger should touch both sides of the bore and compress by approximately half the measuring plunger travel.

2. Place the spacers (if required) on to the threaded end of the anvil shoulder. Screw the anvil into the measuring head.

3. Tighten with the spanner. Do not overtighten.





Calibrating the Bore Gauge



A micrometer can be used to calibrate the bore gauge. Set the micrometer to the desired size and lock. Insert the measuring head between the micrometer.



A setting ring can be used to calibrate the bore gauge. Select the desired size setting ring. Insert the measuring head into the measuring ring.



Slip gauges can be used to calibrate the bore gauge. Select the suitable slip gauges for the desired size. Insert the measuring head between the slip gauges.



With the gauge inserted parallel between the calibration device, ensure the bezel locking screw is loose. Rotate the outer bezel on the dial gauge to read zero. Tighten the bezel locking screw. The bore gauge is now calibrated.

Taking a Measurement



The measuring head centering guides are sprung to help align the measuring contact plunger and anvil contact with the center of the bore when measurements are being taken. Lean the bore gauge at an angle and gently ease into the bore. Gently rock the bore gauge to find minimum reading.

