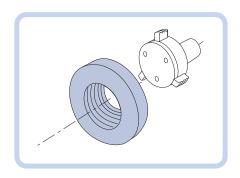


Special Bore Measurement

Although Bowers produces the most comprehensive series of bore gauges and internal measuring equipment available, not all applications can be covered by our standard instrument range. In line with our customer care ethos, Bowers has earned a reputation for manufacturing special heads for measuring non-standard applications. The following information illustrates some of the many difficult measuring problems easily solved by these special heads.

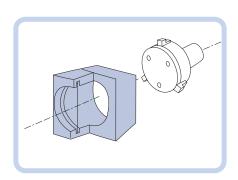
Screw Threads





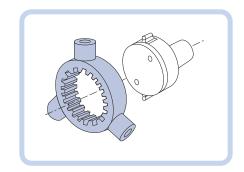
Grooves





2-Point Spline





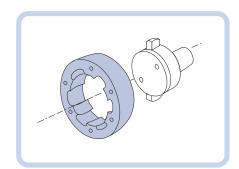


Special Bore Measurement

The following diagrams illustrate some of the many applications covered by Bowers Specials. Customer quotations for gauges suitable for the measurement of other features can be supplied against a component drawing.

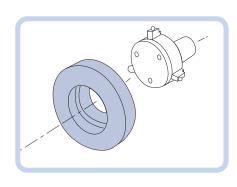
2-Point Spherical





Ball Screw Threads

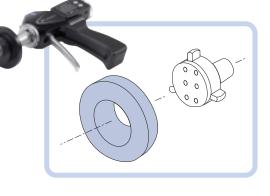




Deep Hole

Up to 2.0 metres deep with standard extensions.

Pneumatic system available from 50mm diameter for depths of up to 15 metres.



Tel: **08708 50 90 50** Fax: **08708 50 90 60**



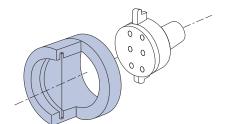
Special Bore Measurement

2 and 3 Point

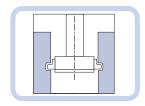
Grooves

For ovality measurement. Various anvil forms available.

Diameters from 6 - 100mm.

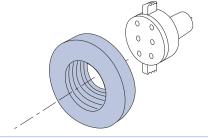




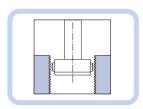


Thread

(Also available as 3 point system).

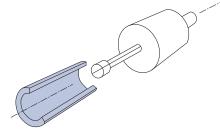






Special Length

Diameters from 2 – 6mm can be supplied. Length dependent on diameter.



Standard Length



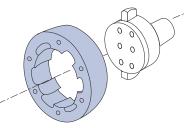


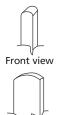


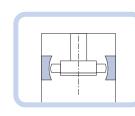
Spherical Radius

Can be supplied as a 2 point for ovality or 3 point contact. Available from 6 - 300mm.





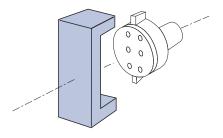


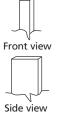


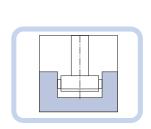
Side view

Slot Width (Large)

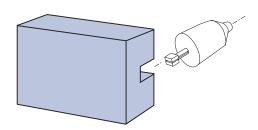
Slot widths from 3 - 100mm.



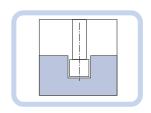




Slot Width (Small)

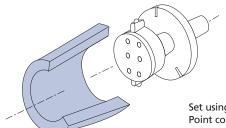




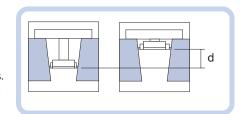




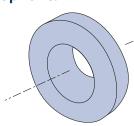
Taper



Set using distance 'd' between two heads. Point contact on bore using carbide balls. 3 point also available.

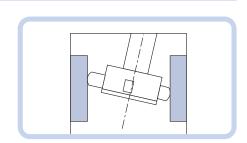


3 Point Spherical



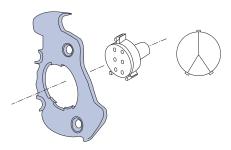
Gives good repeatability even when out of line with bore centre. Available from

3 - 300mm diameter on digital systems.



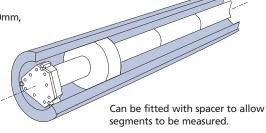
Irregular Spacing

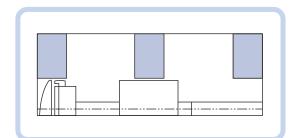
Available between 16 - 300mm diameter to measure between odd spaced lobes.



Deep Hole

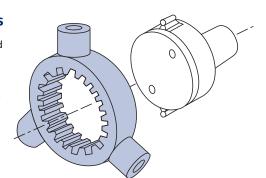
For diameters from 20mm, depths up to 500mm. Pneumatic system available for 50mm Ø for depth up to 15m.

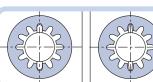




Internal Splines

3 point heads machined to suit particular spline. Pitch diameter heads fitted with precision formed anvils. Sizes available from 8 - 300mm diameter.







Pitch Diameter

Major Diameter

Minor Diameter

2 Point anvil position



3 Point anvil position

