

## डायल बोअर गेज

This is a precision measuring instrument used for measuring the internal dimensions. The dial bore gauge is normally available as a two-point, self-centering type.

### Parts

### Stem

This holds all the components together & contains the mechanism for transmitting the plunger motion to the dial.



## Fixed anvil/inserts

These anvils are interchangeable . The selection of the anvil is made depending on the diameter of the bore to be measured. For certain types of bore dial gauges, extension rings/washers are provided for extending the range of measurement.

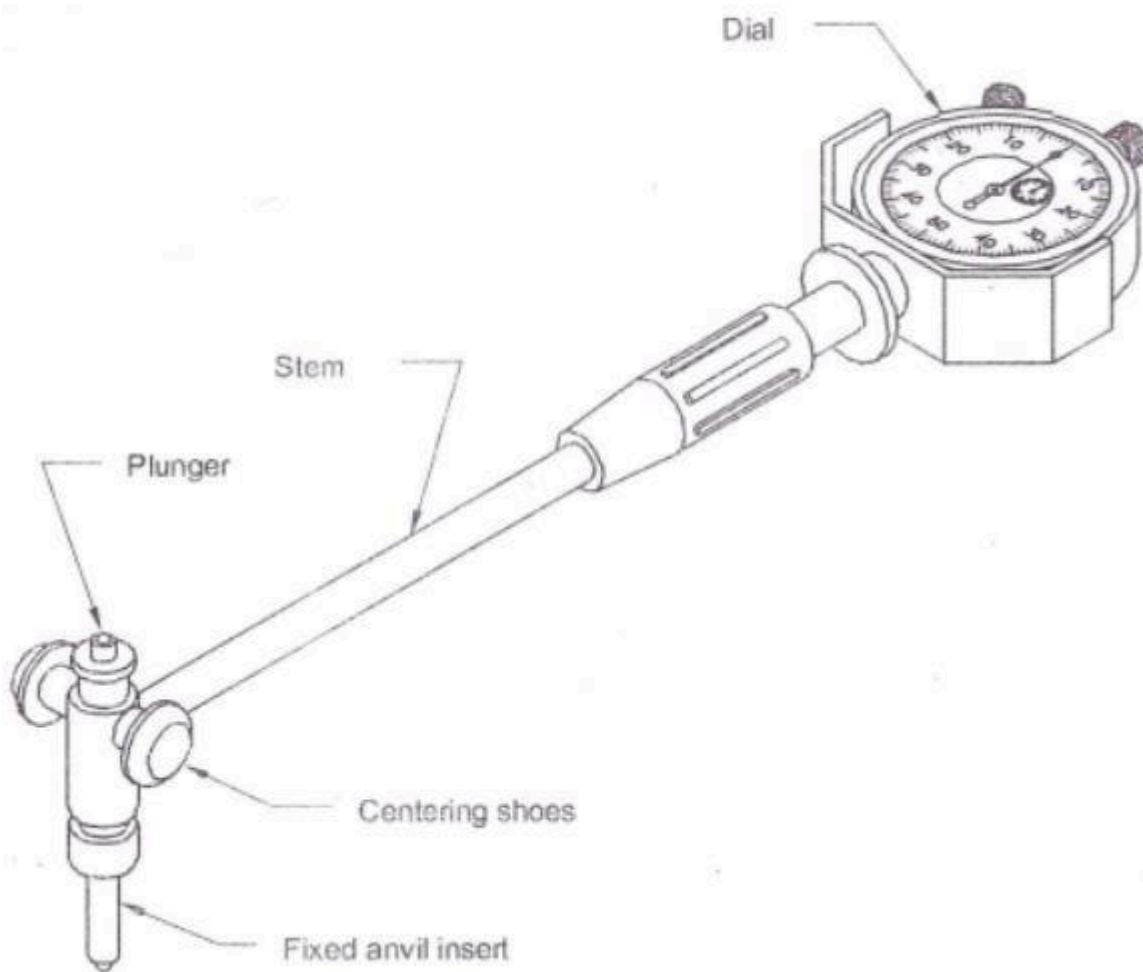
## Sliding plunger

This actuates the movement of the dial for reading the measurement.

## Centering shoes/spherical supports

Certain types of bore dial gauges are provided with a pair of ground discs.

This maintains the alignment of the measuring faces in the centre of the bore. For some types,two spherical supports which are spring-loaded are provided.



## Dial Indicator

This has graduations marked on the dial. The graduations are marked in clockwise and anticlockwise directions.

Bore dial gauges are available in various sizes with different measuring ranges. These are interchangeable measuring rods (external rods or combination washers) for measuring different sizes.

The accuracy of the instrument depends on type of graduations on the dial. The most frequently used instruments have accuracies of 0.001 mm and 0.01 mm.

