



ENGLISH

## Datasheet RS Pro Co-Ax Centring Indicator

RS Stock No: 332-0278



### Specifications:

Provides fast accurate positioning of machine spindle in relation to component feature

Indicator remains in view during use

Suitable for external and internal alignments

Can be used with spindle speeds up to 500 rpm

Dial Indicator diameter 40mm

Dial graduated 0 – 25 – 0 (no value per graduation)

Dial marked: 0.01mm Axis OFFSET: This denoted the accuracy of the final alignment

Mounting Spindle Diameter: 10mm x 21mm long

Inside Diameter Range: 5 – 250mm / 0.250" - 10"

Outside Diameter Range: 1 – 250mm / 0.040" – 10"

Order Code	Manufacturers Code	Description
332-0278	55-500-100GBRS	Co-Ax Centring Indicator



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### Supplied with:

3 x Straight Probes for internal use with 3mm diameter ball ends  
Probe lengths: 35mm, 90mm & 144mm

3 x Bent Probes for external use with 3mm diameter ball ends  
Probe lengths: 35mm, 90mm & 144mm

1 x Anti-Rotation Rod

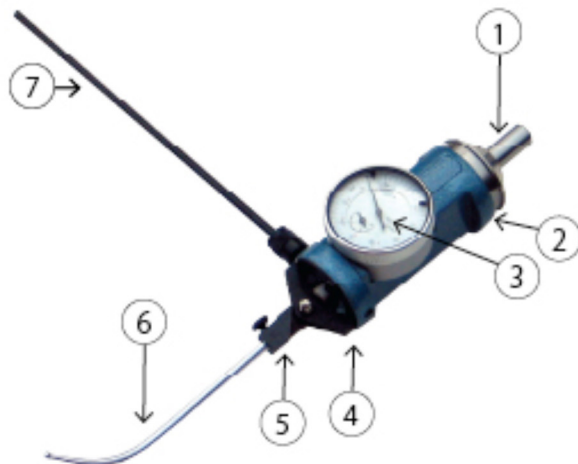
1 x Spring Loaded Centre Point (for locating in centre punch mark)



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## RS Pro Co-Ax Centring Indicator

### Product Parts:



- 1 Mounting Spindle
- 2 Instrument Body
- 3 Dial Indicator
- 4 Revolving Head
- 5 Swivelling Probe Holder
- 6 Probe
- 7 Anti-Rotation Rod



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## RS Pro Co-Ax Centring Indicator

### General Note:

The dial graduations have no value as they will vary with the different lengths of probe being used

The final alignment is achieved between the machine spindle and component when there is no further deflection of the indicator pointer during full rotation of the probe

### Operating Instructions:

Mount the Co-Ax Indicator into the machine collet by its 10mm diameter spindle

Select the appropriate probe to suit best contact with the component feature being centred

Insert the probe into holder and clamp firmly using the thumbscrew. Ensure clamp screw locates on flat of probe

Fit Anti Rotation Rod into one of the 3 threaded holes situated around the diameter of the Co-Ax body, when doing this select the hole which allows the dial indicator to be easily viewed when the rod is located against a fixed position which will stop the indicator from turning when the machine spindle is rotated

Position the Co-Ax indicator over the component feature to be centred

Advance the component towards the Co-Ax probe

Adjust the probe for lateral position against the component and tighten the friction control screw located in the centre of the displacement fulcrum, this should allow the probe to positively move the indicator without slip, but will allow slip if the indicator runs out of travel. This is a safety feature designed to protect the indicator from damage



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## RS Pro Co-Ax Centring Indicator

### Operating Instructions:

Turn the indicator by hand to ensure there is sufficient travel on the indicator when the probe contacts the component through a full 360° of rotation

Select a machine spindle speed no greater than 500 r.p.m.

Adjust the machine table in the X and Y co-ordinates until there is no movement of the indicator hand

Once this has been achieved the centre of the component feature is then in alignment with the machine spindle centre within 0.01mm and the set-up is complete.