

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

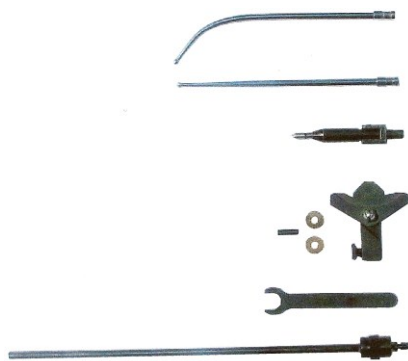
Provides fast accurate positioning of machine spindle in relation to component feature
 Indicator remains in view during use
 Suitable for external and internal alignments
 Can be used with spindle speeds up to 500 rpm
 Dial Indicator diameter 40mm
 Dial graduated 0 – 25 – 0 (no value per graduation)
 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”

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)

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
55-500-100	Co-Ax Indicator	791	125	70	220
55-500-101	Offset Probe: 35mm	5	5	5	35
55-500-102	Offset Probe: 90mm	7	5	5	90
55-500-103	Offset Probe: 144mm	11	5	5	144
55-500-104	Straight Probe: 35mm	2	5	5	35
55-500-105	Straight Probe: 90mm	7	5	5	90
55-500-106	Straight Probe: 144mm	11	5	5	144
55-500-107	Centre Point Locator	10	10	10	50
55-500-108	Probe Holder Assembly	16	20	10	40
55-500-109	Spanner	4	13	1	60
55-500-110	Anti-Rotation Rod	26	12	12	180



- Offset Probe
- Straight Probe
- Centre Point Locator
- Probe Holder Assy.
- Spanner
- Anti-Rotation Rod

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

Co-Ax Centring Indicator: 55-500-100

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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

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.