

Contact angle Measuring Machine for ball bearings

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Machine "TYPE 1"

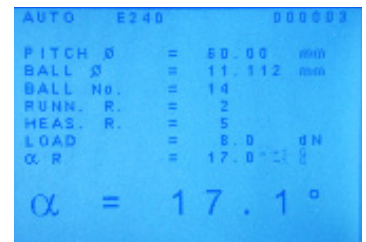
Dimension range: Bearings Ø 20 – 180 mm. Height 4 – 40 mm.

Machine "TYPE 2"

Dimension range: Bearings Ø 100 - 360 mm. Height 16 – 58 mm.

Performances:

- » Ball presence check (except for blind bearings)
- » Blind bearings : it is possible to take the measurement, by positioning a small tool on the cage
- » Measurement of the contact angle: direct display in degrees and tenths of a degree (e.g. 16,5 °)
- » Range of measurement : 0 - 89.9 °
- » Resolution : 0.1 °
- » Measurement precision : ± 0.20 °
- » Cycle time : machine **type 1** - 14 Sec; machine **type 2** - 17 Sec
- » Productivity/hour : machine **type 1** - 250 bearings; machine **type 2** - 210 bearings
- » Memory : 1500 types of bearing
- » Data to set (only the first time, from the machine panel or by means of PC): type of bearing, pitch diameter, ball diameter, num.balls , no. run-in revolutions, no. measurement revolutions, spindle load.
- » For acceptance-refusal of the bearing, for every type of bearing, it is possible to set the min-max value of the contact angle. (e.g. 25,0° ± 2,5°)
- » The machine displays the contact angle:
 - A) Fixed, black on white, for the values in the range set
 - B) Flashing, for the values outside the range set , with a signal for the refusal of the bearing



- » Direct display of the load: machine **type 1** daN 1.5 – 47; machine **type 2** daN 2.7 – 76
- » Auto-diagnosis : malfunctioning signals
- » The machine can be connected to a PC for uploading and downloading data (e.g. measurement reports)
- » Memory capacity : approx 18.000 measurements

Options:

- » The machine can control a sorter up to 12 channels, to be used with an automatic bearing loading/unloading system. The sorter programmes can be set and modified.
- » Measurement tools: we can construct them or supply the drawings for you to construct them