Contact angle Measuring Machine for ball bearings

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