



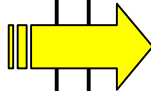
Inspection for surface curvature of hard disk

OUTLINE / PREVIOUS

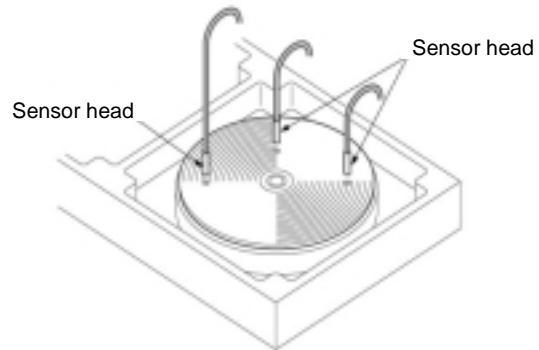
Customer : Manufacturer of automatic inspection assembly devices

Inspection devices for hard disk

Surface curvature of hard disk is measured by spinning a hard disk (for inspection). And subtle adjustment is done. We have used **GP-A8S** for surface curvature inspection of hard disk before.



SOLUTION



PROBLEM

Precision of **GP-A8S** is not enough anymore in order to measure surface curvature of hard disk. Because hard disks have become thinner.

(**GP-A8S** : Resolution 0.04% F.S.(0.8um)
linearity within +/- 0.5% F.S.)

MODEL / HOW TO

GP-XC8S
By measuring 3 spots all at once, **GP-XC8S** can determine the direction of the axis gradient and the extent of axis gradient that cause the surface curvature of the hard disk. Therefore subtle adjustment can be easily performed.

BENEFIT 1 Stable detection with high-speed sampling and high-precision

Tips;Stable detection is possible. Because of its 25us ultra high sampling speed and high resolution of 0.02% F.S.(0.4um).

BENEFIT 2 Realized high-precision sensing performance of stainless-steel

Tips;We realized linearity within +/- 0.3% F.S. toward stainless-steel and iron. Especially **GP-X** series is proud of its highest-precision sensing performance toward stainless-steel. Specifications corresponding to stainless-steel, iron and aluminum has already been inputted. Therefore you can easily select the setting that is most suitable for the particular material.

BENEFIT 3 Function that prevents mutual interference problem is equipped

Tips;**GP-XC8S** can prevent the mutual interference of up to 8 sensor heads. Therefore appropriate measurement is possible, even if the sensors have to be used in a narrow space.