

ABSTRACT

An optoelectronic apparatus for the dimension and/or shape checking of pieces, more specifically pieces with complex tridimensional shape, as the supports for magnetic read/write heads (33,47,63) for hard disk storage units, comprises a base (1) with two guide elements (7,9) to which there is coupled a slide (11), movable in a longitudinal direction along the guide elements (7,9), and a system (31) for locking and referring the piece (33,47,63) to be checked. The slide (11) supports a rotary table (13), to which there is fixed a support (15) for an optoelectronic measuring system. Rotational displacements of the rotary table (13) about an axis parallel to the guide elements (7,9) make the optoelectronic measuring system oscillate substantially in a plane perpendicular to said axis for optimizing the reciprocal arrangement between the components (75,77) of the optoelectronic measuring system and the piece (33,47,63) in the course of the checking. It is possible to check pieces (33,47,63) with different shape and nominal dimensions by replacing just some elements of the apparatus.



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