

The invention relates to measuring equipment, in particular to devices for contactless measurement of shaft dynamic torques and speed, and can be used in scientific research, as well as in those industries where constant control over the mechanism and aggregate operating conditions is necessary.

The device, according to the invention, comprises an assembly shaft, consisting of two coaxial parts (1, 2), between which is mounted an elastic insert. On the ends of the shaft are rigidly fixed two measuring disks (3), equipped with sector slits (6), interacting with pulse sensors (7, 8), installed on a line parallel to the axis of the shaft. The device also comprises an electronic circuit (10), transforming the signals from the pulse sensors (7, 8) into current values of the shaft torque and speed. The elastic insert is made in the form of a “squirrel cage”, consisting of two measuring disks (3), interconnected by cylindrical pins (4), placed symmetrically relative to the axis of the shaft and made of spring steel.

Claims: 3

Fig.: 1

