

BEARING TEST METHOD, BEARING TEST DEVICE, BEARING MONITORING
DEVICE AND STORAGE DEVICE

ABSTRACT

A bearing test method and a bearing test device are provided for bearings in which a non-contact state is maintained between a shaft element
5 and a bearing element in a normal rotation state. In addition, a motor bearing monitoring device is provided to detect an abnormality in a motor or that a motor's life is near its end, where the motor utilizes the bearing. Furthermore, a storage device such as a hard disk drive equipped with the motor monitoring device is provided. For a bearing that can retain a shaft
10 element and a bearing element coaxially positioned in a non-contact state when the number of revolutions exceeds a predetermined number of relative revolutions, a bearing test method is provided to determine whether the shaft element and the bearing element are in a contact rotation state. The bearing test method includes at least the steps of rotating the shaft element and the
15 bearing element relatively with one another and detecting impedance between the shaft element and the bearing element in the relative rotation state. A determination is made based on a change in impedance as to whether the shaft element and the bearing element are in a contact rotation state.

