

Annotation

In this thesis project developed a system of quality control eddy current heat treatment of steel parts. The object control acts steel rod. Designed structural, functional and principled scheme of the system.

To apply object control unit used to supply transformer, which is designed as a special rollers that leads the movement engine.

Control eddy currents can be carried out without direct mechanical contact with the object converter that allows you to monitor the mutual displacement transducer and the object at high speed.

The implementation of this system in place allows you to detect the early stages of low quality heat treatment in controlled facilities which, if not early detection can lead to undesirable consequences.

I think the development of this project very relevant today.