

Annotation

The theme of this work - " Automated System ultrasonic testing longitudinal weld pipes " - within which was known methods and devices of welded joints. The aim of this work is to develop a simple -to-use, reliable, cheap instrument for quality control of welded joints of metal structures. In the course of the project has been developed detailing and assembly drawing device, circuit structural, functional diagram, algorithm and principal diagram on modern base. Been proposed image processing algorithm using selective matching filtering, statistical threshold processing techniques that can be implemented in real time. According to the method of calculated system economic indicators, estimates and consideration to safety, imposed by the relevant conclusions