

Advantages

of the ***smart*** nondestructive testing ***systems*** of ***CTG***
over the ultrasonic inspection equipment (***UZZ***):

- ✓ ***minimization of the operating costs*** associated with the absence of labor-intensive and expensive preparation of surfaces of the item being inspected;
- ✓ ***accuracy of inspection*** identifying the ***danger*** of the defect ***during operation*** rather than its type and spatial orientation in the material of the item being inspected;
- ✓ ***automated issue*** of the inspection ***results*** independently of qualification of the nondestructive testing inspector;
- ✓ ***capability*** of
 - ***detection*** of the following:
 - ***fatigue changes*** and ***stressed states*** in the material of the item being inspected;
 - ***thermal stress areas***;
 - ***microcracks***;
 - dangerous defects ***in threaded connections***;
 - prediction of the following:
 - ***danger*** of the revealed ***defects*** for the following operation of the item being inspected;
 - ***residual lifetime*** of the item being inspected.
 - ***remote access*** enabling to:
 - ***control*** the work ***results*** of the nondestructive testing inspectors on different ***periphery objects*** from the central server;
 - ***transfer all*** necessary information to the ***central server*** directly from the inspection sites irrespective of their location and quantity;
 - ***create a central*** automated ***database*** of all items being inspected on-site;
- ✓ servicing ***comfort*** and ***absence*** of any adverse ***impact*** on ***people***.