

Advantages
of the **smart** nondestructive testing **systems** of **CTG**
over the X-ray inspection equipment.

✓ **minimal operating costs;**

during inspection, no consumables are applied; there is no need to erect any expensive protective shelters and to take measures on personnel labor protection.

✓ **inspection accuracy;**

allows detecting smallest defects however extremely dangerous for operating which are not detected during the X-ray inspection:

- microcracks area;
- sand holes with the maximum size of 1 mm.

Detection of a defect depends on its danger in operation rather than its type and special orientation in the material of the object 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 object being inspected;

- **thermal stress areas;**

- **microcracks;**

- dangerous defects

in threaded connections;

✓ **capability of prediction** of the following:

- **danger** of the revealed **defects**

for the following operation of the object being inspected;

- **residual lifetime** of the object being inspected.