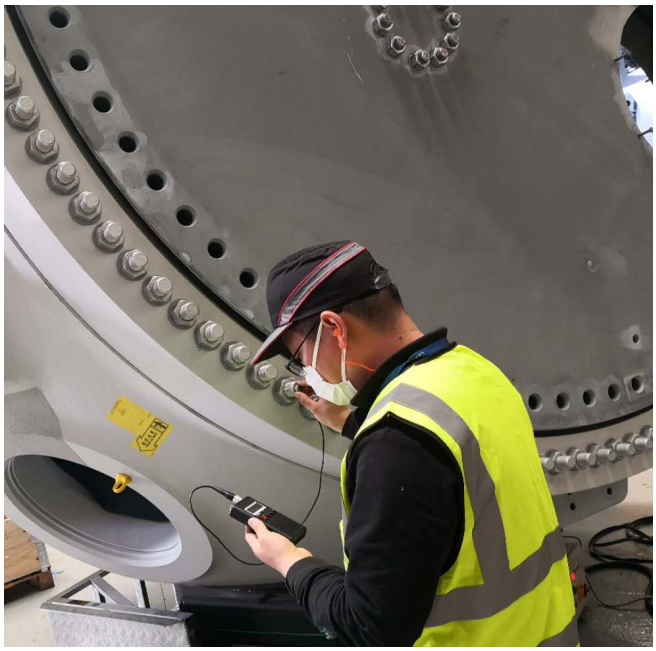
IN-01m PORTABLE METAL STRESS INDICATOR

approved by Federal Expertise Center of Russian Ministry of Justice



Application:

Inspection the tightening effort of steel studs
and bolts on the power engineering equipment;

Metal stress inspection of whole steel parts and engineering structures with complex shape and remaining life estimation according to API 579-1 / ASME FFS-1;

Metal structure and mechanical properties evaluation in heat treatments;

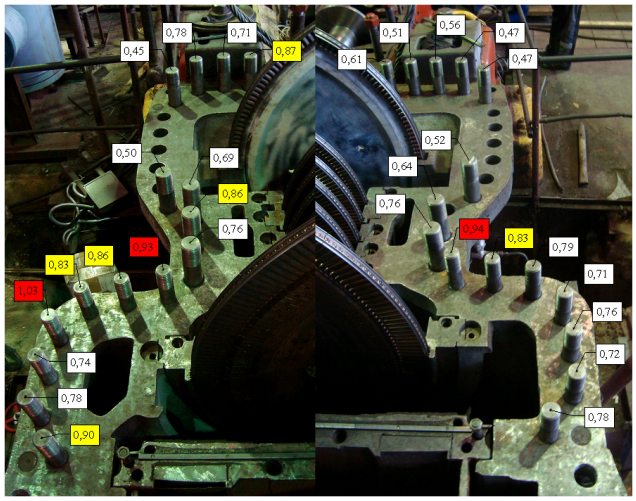
Finding the overheatings during the grinding.

Key features:

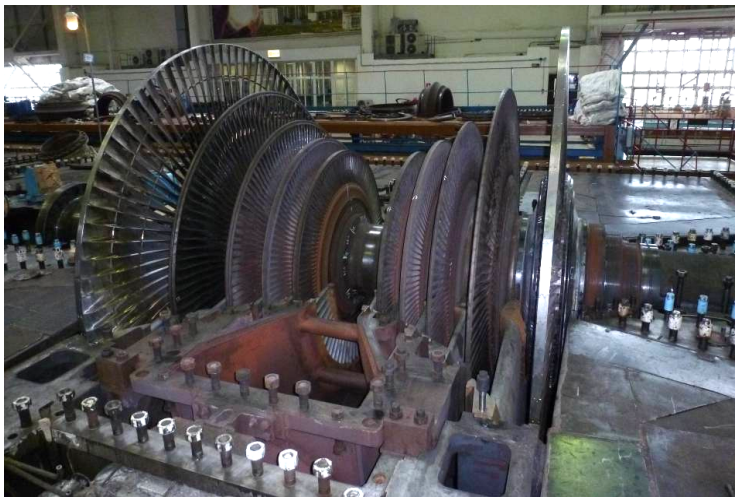
- Highest sensitivity;
- Metal strain measurements in full range elastic and plastic deformations;
- Direct comparison of actual stress measured with yield limit in order to estimate the remaining life according to API 579-1 / ASME FFS-1 assessment standard;
- Relative measurement technique does not require of specimens for calibration;
- Saving measurements in Excel format, or sending to RS-232 / RS-485 network;
- Light weight, high economic efficiency and mobility;
- Possibility of making the special sensor holders for complex shapes of objects inspected: gearwheels, valves, shafts, bearings, chassis parts, pipes, etc.

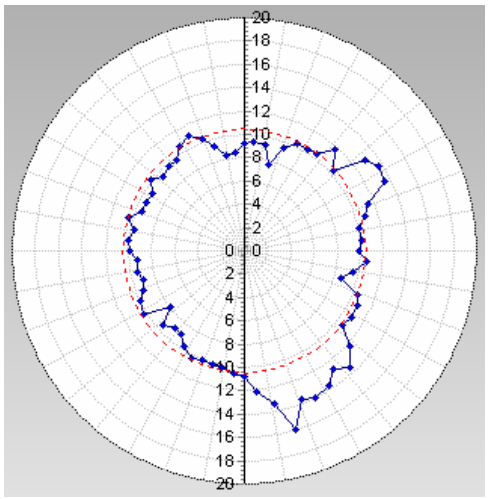
IN-01m portable stress indicator application examples

Steel bolts and studs tightening effort and fatigue inspection

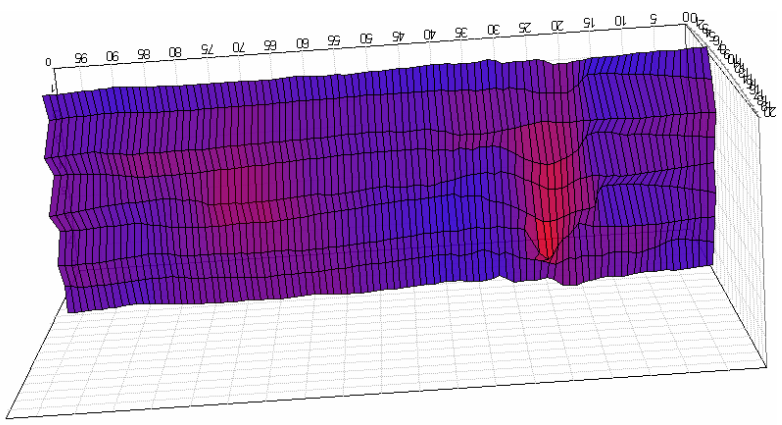


Turbine rotor shaft balancing





Steel vessels point-to-point stress inspection



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