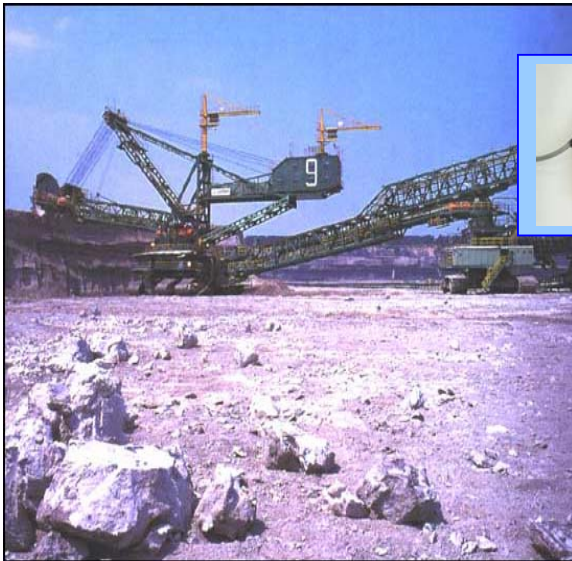


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EQUIPMENT FOR MECHANICAL STRESS MEASUREMENT IN BUCKET-WHEEL EXCAVATOR AND HIGH CAPACITY CONVEYOR CABLES



The equipment is used to measure the mechanical stress in the cables supporting the excavator bucket wheel or tightening the high capacity conveyor belts.

1. FIELD OF APPLICATION

The equipment for measuring the mechanical stress in the steel cables is intended to fit out the high capacity bucket-wheel excavators and conveyers from pits.

They are safe devices assuring the equipment operation within standard parameters.

2. TECHNICAL CHARACTERISTICS

| | |
|----------------------------|--|
| - Range of force measuring | 0...1000 kN |
| - Operating temperature | -20 ⁰ C to +5520 ⁰ C |
| - Normal protection degree | IP 54 |
| - Accuracy class | 1 |
| - Supply voltage | 220 V: 50 Hz |

3. STRUCTURE OF THE FURNITURE

- a. The furniture for the equipment which measures the stresses in the bucket-wheel excavator cables contains:

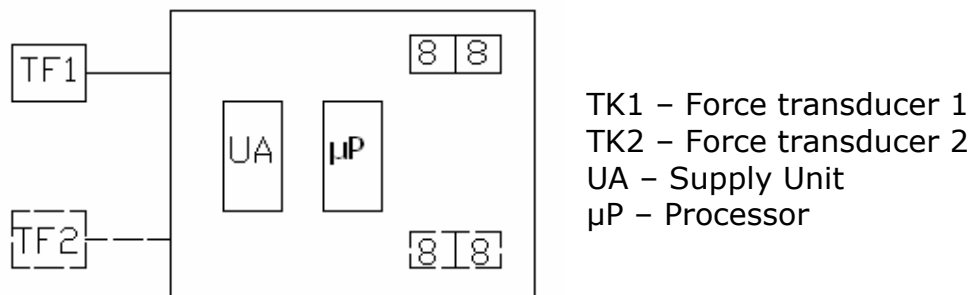
| | |
|--------------------------|--------|
| load cells | 2 pcs. |
| control and command unit | 1 pc. |

- b. The furniture for the equipment which measures the mechanical stresses in the stretching cables of the high capacity conveyer belts contains:

| | |
|--------------------------|-------|
| load cells | 1 pc. |
| control and command unit | 1 pc. |

4. FUNCTIONS

- Measured force display
- Output in voltage or current unified signal
- Optical signaling for prescribed force values



Note: For the equipment which measures the stresses in the bucket-wheel excavator cables, two force transducers and two displays are used.