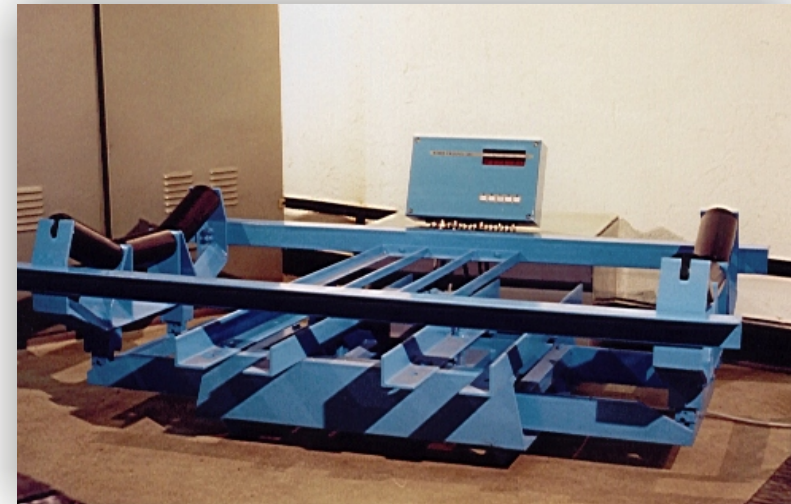


NATIONAL INSTITUTE FOR RESEARCH DEVELOPMENT
AND TESTING IN ELECTRICAL ENGINEERING
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BELT SCALES WITH CONTINUOUS WEIGHING

ICMET Craiova has implemented and maintains a **Quality Management System** that fulfils standard requirements for **SR EN ISO 9001:2008**, an **Environment Management System** that fulfils standard requirements for **SR EN 14001:2005**, an **Occupational Health and Safety Management System** that fulfils standard requirements for **SR OHSAS 18001:2008**



ICMET Craiova has **Force Testing and Calibration Laboratory**. For calibrations, the laboratory is accredited by **DKD (German Accreditation Service)** according to **EN ISO/IEC 17025:2005**



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SCOPE

The belt scale is technological equipment intended to the continuous weighing and metering of the material transported by a conveyor belt with rubber support, widely used in mining, cement, building material industries.

TECHNICAL CHARACTERISTICS

- ◆ Flow rate of the circulated material: 200...5000 t/h
- ◆ Weighing accuracy: 1%
- ◆ Supply voltage: 220 V AC. $\pm 10\%$ /50Hz ± 1 Hz
- ◆ Speed of the belt type carrier: max. 6m /s
- ◆ Type of the carrier: with 3 rolls, U-type
- ◆ Carpet width: max. 2000 mm
- ◆ Carpet length : min 6 m
- ◆ Carpet thickness: max. 14 mm
- ◆ Mounting plane: horizontal or sloped (max. 30°)
- ◆ Operating temperature:
 - electronic unit: +5°C...+40°C (assured micro-climate) ;
 - force transducer: -20°C...+50°C, from which the compensated range: -10°C...+40°C ;
 - rest of the components: -20°C...+50°C.
- ◆ Normal protection degree:
 - electronic unit: IP 56 ;
 - force transducer: IP 67 ;
 - speed transducer: IP 56.
- ◆ Force transducer:
 - strain gauging type ;
 - material: stainless steel ;
 - rated load : max. 1000 kg ;
 - overload: - static: 150% ;
- destructive: > 300%.
- ◆ Speed transducer: optoelectronic

STRUCTURE

- ◆ 1 weighing platform with in-built force transducer
- ◆ 1 electronic unit with local display of the measured values and remote serial transmission of information RS485 ;
- ◆ 1 speed transducer
- ◆ 1 PC (provided with an adapter RS 485-RS232 and a network card ETHERNET) having the role of monitoring at most 8 belt scales and of connecting into the computer network of the unit

FUNCTIONS

- ◆ Local (on the own display of the electronic unit) or remote (on the PC monitor from the supply of goods) displaying of the following data :
 - meter index;
 - momentary loading : - in tons
- in percentage of the rated load
- ◆ Information storing in a data base on the PC hard disk
- ◆ Presentation of data, diagrams, tables etc., by processing the stored information

THERE ARE PROVIDED

- ◆ Local calibration of the scales;
- ◆ Memorizing of the index in case of voltage drops.

