

The proposed method for checking heavy balance weights implies that a weigher with a strain gage force transducer is used for the measurement. The method involves the following sequence of operations: arresting the weigher, loading the weigher tray with the reference balance weight, disarresting the weigher, measuring the force transducer output signal, determining the reference weight mass from the said signal, and arresting the weigher. The balance weight is positioned so that the force direction coincides with the sensitivity axis of the force transducer. Then the weigher is loaded with the balance weight to be checked and the measurement operations are repeated in order to determine the mass of this balance weight. The masses of the reference balance weight and the checked balance weight are compared, and the difference between the masses is determined. This difference is compared with the specified tolerance value.