



Force measurement | Chain hoists

Test set for checking friction clutches



Smart in sensing

Checking of friction clutches on chain hoists

For the efficient interaction of all components in modern industrial production, reliability and safety in the application play an important role. Speed and precision must not be at the expense of safety.

The focus is on the protection of personnel and the functional safety of plants and machinery, as well as the reduction of costs through minimal downtime and low outlay for maintenance and repair.



Easy to use and minimal effort

The stable design and easy handling make the FRKPS a valuable test equipment for service technicians for maintenance and repair.

Cumbersome handling with heavy test weights is a thing of the past thanks to the reliability and high accuracy of the chain hoist test set.

The FRKPS has a wide measuring range with, at the same time, minimum measurement uncertainty and a low total weight of 7 kg.



Proven in practice

To ensure the greatest possible insensitivity of the force transducer against parasitic forces and torques, the FRKPS features a shear beam force transducer.



The battery-operated hand-held indicator evaluates the signals supplied by the force transducer via a cable. Helpful functions include a maximum value memory and an auto-off function on the indicator. Optionally, a total of 99 different data sets can be stored in the indicator.

The force transducer and the hand-held indicator are calibrated together as a measuring chain. The repeat calibration, recommended at every 12 months, is carried out quickly and reliably in our own calibration laboratory.

The extensive accessories allow adaption to various chain sizes.

Scope of delivery:

- Force transducer
- Hand-held indicator
- Centring sleeves
- Chain adapter
- Charger and signal cable

The set is delivered in a sturdy aluminium case.



On the safe side with the FRKPS

High-quality components

For the testing, the force transducer is suspended in the chain, driving it upwards against the bottom of the chain hoist, thereby blocking the chain. On the indicator, the magnitude of the force at which the friction clutch responds is read off.

Thanks to its high measurement accuracy, the FRKPS can be used for load ranges from 40 ... 3,500 kg with a deviation of less than 1 kg (relative linearity error 0.5 % F_{nom}).



Three differently sized centring sleeves and two chain adapters for chain sizes of 3 x 9 ... 11 x 31 mm (in accordance with EN 818-2), a charger and 5 m signal cable make the chain hoist test set immediately and universally applicable.



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