



NEXT.assembly

x-cal

The test system for roll/brake/ABS test stands

The regular inspection of measuring equipment is essential. This also applies to roll/brake/ABS test stands in the end-of-line area. In addition to the verification of the measured variables, the testing of these test stands also includes the adjustment of the existing parameter settings.

x-cal offers the possibility of checking the accuracy of dynamic brake force measurement on roll/brake/ABS test stands and offers the highest level of security in determining the measurement results.

With x-cal, each roller unit on a test stand is examined individually. x-cal is largely independent of the design of the test stand and can be used on a large number of double roller and single roller test stands (independent of the manufacturer).

CUSTOMER BENEFITS



Possibility of testing and adjustment of test stands, also of third-party products

Increased accuracy in dynamic brake force determination by identifying the reduced mass of the roller set

Testing of the roll/brake/ABS test stands in a completely assembled state

Reproducibility of measurement results

Minimization of measurement errors on the test stand side -> thus increasing quality and reducing rework

Technical Data

x-cal

ACCREDITATION

The recognition of the competence of our accredited test laboratory (incl. test procedures with x-cal) has been granted by the "Deutsche Akkreditierungsstelle GmbH" (DAkkS, signatory of the Multilateral Agreements of EA and ILAC).

TASKS

- Test of dynamic brake force measurement (accredited)
- Test of velocity acquisition with manual speedometer (accredited)
- Detection of the reduced mass of a roller unit incl. toothed belt, tension roller and motor (not included in accreditation)

FLEXIBILITY

The test is of course carried out at your premises. If defects are then discovered as a result of the test, our qualified personnel can make a recommendation for the elimination of the defect. This can then be carried out separately by your or our qualified personnel. As an independently operating system, x-cal is mobile and can be used flexibly.



TECHNICAL DATA x-cal

Roller diameter	Min. 400 mm, max. 1250 mm
Force measurement accredited	Force measurement with x-cal from -400N to +600N extended measuring uncertainty (k=2) of the force measurement: 5N
Reduced mass not accredited	x-cal is applicable from 100 kg to 1000 kg reduced mass Repeatability of the measured values when determining the reduced mass: 4.5 kg

TECHNICAL DATA MANUAL SPEEDOMETER

Speed measurement accredited	The manual speedometer is applicable from 1 km/h to 300 km/h
	Extended measuring uncertainty (k=2) of the speedometer: 0.3 km/h
	Roller diameter: 300 mm to 1100 mm

Subject to change. The information in this brochure solely contains general descriptions and performance features, which may vary in specific cases of application. The desired performance features are only binding if they have been agreed upon explicitly at the conclusion of the contract. © Dürr 2021