

*Roller brake tester for cars and vans
with analogue display*

BDE 204

with rollers 700 mm long,
or 1000 mm long



CARTEC 

BDE 204 roller brake testers for cars and vans



Proven testing technology for your workshop

For more than 40 years the name of Cartec has been a synonym for engineering and manufacturing of testing and diagnostics technology for all types of vehicles.

Our customers benefit from concentrated competence and direct and smooth handling of enquiries and orders.

A qualified team, the well-known product quality, good service and the advantages of the strong global Snap-on Group guarantee testing technology which is constantly optimised in terms of customer requirements.

This is the reason why our machines and equipment have been approved and recommended by many important car manufacturers.

Comprehensive service of the car, especially of safety-related assemblies such as the braking system, is an absolute must. So that an investment in brake diagnostics is well made in the long run, the roller brake tester should meet all the requirements in the workshop and be open to future requirements:

- low costs in purchase and maintenance
- quick, accurate and comprehensive tests
- convenient and safe in operation
- hardly susceptible to trouble, easy to service and open to extensions to meet changing requirements.

Composite-coated rollers (CPS)

CPS rollers offer excellent grip even under critical conditions, long life, low weight, very high reliability – and all that with minimum risk of corrosion.

SmoothGrip rollers

SmoothGrip rollers are available as an alternative to CPS rollers, featuring thousands of nubs welded onto the steel rollers to ensure long life, low tyre wear and best suitability for spiked tyres.

Rust-proof feeler rolls

The brake test does not start before both feeler rolls are depressed. This safety feature prevents unintentional starting of the brake tester.



The features to be tested are detected by means of well-proven strain-gauge type load cells.

This wear-free measuring system ensures reliable and error-free measurement of the forces produced. The brake test covers the following quantities:

- rolling resistance
- ovality
- braking force imbalance left/right
- braking force left/right

BDE 204 roller brake testers for cars and vans



**Proven testing technology
for your workshop**

BDE 204 – rollers 700 mm long
for cars and vans

BDE 204 – rollers 1000 mm long
for cars, vans, caravans and trailers with
tandem axles

Standard equipment of the roller sets:

- Mechanics in compact flat design, galvanised and consequently suitable for outdoor installation
- Rollers are available with CPS coating, or in SmoothGrip design
- Roller sets are equipped with rust-proof feeler rolls
- Splash-proof motors
- Measurement with wear-free strain-gauge type load cells
- Electric automatic drive-off aid to facilitate driving off the rollers

**Display cabinet with
integrated electronic unit**



Display 0 – 8 kN

- Analogue display with double scales
- Function lights for ON/OFF status, manual/automatic mode, indication of roller starting and slip of the wheel, left/right
- 8-digit digital display for the visualization of the maximum brake force at the end of the test, ovality and imbalance. With the corresponding options: axle weight, pedal pressure, suspension result and wheel weight, side slip
- ASA Livestream connector
- Lockable main switch to be mounted externally

Dual direction testing

To drive on the rollers from both sides and test in both directions – only for BDE 204 with PC upgrade.

Radio remote control



4WD mode

The BDE 204 comes standard with 4WD mode with the possibility of automatic detection.

Optional pneumatic lifting device



As the lifting device raises the vehicle to ground level, driving in and off the rollers is considerably facilitated and hence especially advantageous for vehicles with sports chassis or small wheel diameters. Note: Suitable foundation must be available. 8 bar compressed-air supply required. Operation with remote control unit only.

Optional: lifting device of the roller set

The lifting device of the roller set (only for roller length 1000 mm) is the ideal solution to help in performing the right test on vehicles with twin axles.

BDE 204 roller brake testers for cars and vans

Brake tester options

- Motor brake for preserving motor and gear during drive out of the roller set.
- Soft-start module for reduce the electric current absorption during starting of the motors.
- Integrated axle load weighing system.
- It is also available an installation kit for later retrofit of the weighing system.
- Swivel wall support or column for the display cabinet.
- Heating system for outdoor installation of the display cabinet.
- Wide range of build-in frames (to facilitate the preparation of foundation).

Pedal pressure transducer, cable type or radio controlled.



Wide range of roller covers plates.



- **BDE 204 can be connected to an external PC which allow to visualize, store and print out all results.**
- **BDE 204, adding the suspension tester and side-slip modules can be upgrade into a test lane. Results displayed on the 8-digit digital display.**

Technical data

Max. drive over weight per axle	kg	4000
Measuring range	N	0 – 8000
Max. brake force	N	6000
Test weight per axle according ISO 21069 (70% braking efficiency)	kg	1750
Idling speed	km/h	5,4
Roller coefficient dry wet		> 0.7 / > 0.6
Motor power	kW	2 x 3,7
Roller diameter	mm	216
Roller length	mm	700 or 1000
Roller elevation	mm	level
Test width min – max.	mm	800 – 2200
Dimension of the roller set with side covers	mm	670 x 2350 (or 2950) x 255
Dimension of the display cabinet	mm	700 x 400 x 200
Power supply		3/N/PE400 V AC
Fuse rating, slow-blow type	A	3 x 25

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