

Roller brake testers BDE for cars

Automatic test sequence



**Car roller brake tester
for up to 4 tons axle load,
with rollers 700 mm long,
or 1000 mm long**

Proven testing technology for your workshop



Unterneukirchen is the centre of excellence for testing technology in the strong and efficient Snap-on Group. For more than 30 years the name of Cartec has been a synonym for engineering and manufacturing of testing and diagnostics technology for cars and trucks.

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 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

CeSil (ceramics silicon) coating

This abrasion-proof roller coating is very tyre preserving and guarantees excellent grip during the braking procedure.

Safety feature

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

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Version with brake motors

Brake testers with brake motor are preserving both tester motor and gear. The brake motors retain the rollers, thus allowing the vehicle to drive in or off the rollers without need to re-start the rollers. Available on BDE 2304 only.

Version with second direction of measurement

To drive in and off the rollers from both sides.

4WD test

All brake testers can be retrofitted with 4WD design at any time.

BDE 2204

for cars of up to 3 tons axle load

BDE 2304

for cars of up to 4 tons axle load

BDE 2304 – rollers 1000 mm long

for cars, caravans and trailers with tandem axles, of up to 4 tons axle load

Standard equipment of the roller sets:

- Mechanics in compact flat design, zinc-coated and consequently suitable for outdoor installation
- Rollers with long-life ceramics-silicon coating are abrasion-proof and very tyre preserving
- 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 0 – 6 kN for BDE 2204

Display 0 – 8 kN for BDE 2304 and BDE 2304 with rollers 1000 mm long

Display cabinet with integrated electronic unit



- indication of cut-out at wheel lock, left/right
- automatic switching in and re-start and cut-out at wheel lock
- permanent determination of braking force imbalance
- automatic zero adjustment
- single-wheel test
- error check routine
- PC/printer interface

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.

Optional motorcycle test



Car brake testers can be easily retrofitted for motorcycle tests.

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Brake test options

- IR remote control unit



- Key-operated main switch, attached externally
- Pneumatic lifting device
- Axle load weighing system
- Column, or swivel wall support for display cabinet
- 2-digit LED for braking force imbalance 0 – 99 %

- Function lamps for automatic and manual modes and braking force imbalance
- A4 printer black/white, serial
- Printer pedestal, or wall bracket for printer
- Built-in frame to facilitate preparation of foundation
- Roller cover plates, traversable – hingeable to the outside (for BDE 2204 and 2304 only)



- Roller cover plates, traversable – plug-in type
- Smooth start device
- Axle counter
- Special finish
- Special lead length
- Heating system for cabinet, thermostat controlled
- Motorcycle brake test kit

Car brake testers can be upgraded into a test lane.

The brake testers are available in PC version.

Technical data

		BDE 2204	BDE 2304	BDE 2304 rollers 1000 mm long
Max. axle weight	t	3	4	4
Measuring range	kN	0 – 6	0 – 8	0 – 8
Roller coefficient dry – wet		0.9 – 0.5	0.9 – 0.5	0.9 – 0.5
Temperature range	°C	0 up to +70	0 up to +70	0 up to +70
Idle running speed	km/h	3.4	5.4	5.4
Roller length	mm	700	700	1000
Roller diameter	mm	175	216	216
Test width min. – max.	mm	800 / 2200	800 / 2200	800 / 2800
Dimension mechanics	mm	580 x 2305 x 205	670 x 2305 x 255	670 x 2905 x 255
Motor power	kW	2 x 2.5	2 x 3.7	2 x 3.7
Dimension Display cabinet	mm	600 x 800 x 200	600 x 800 x 200	600 x 800 x 200
Power supply	V	3/N/PE400 V AC	3/N/PE400 V AC	3/N/PE400 V AC
Fuse rating slow – blow	A	3 x 25	3 x 25	3 x 25

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Part of the machines is illustrated with optional equipment which is available at extra cost.
Technical modifications reserved.

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