TRUCK-EXAM
WHEEL ALIGNMENT TESTER ™

Electronic and laser device for commercial vehicles diagnostics

HERKULES



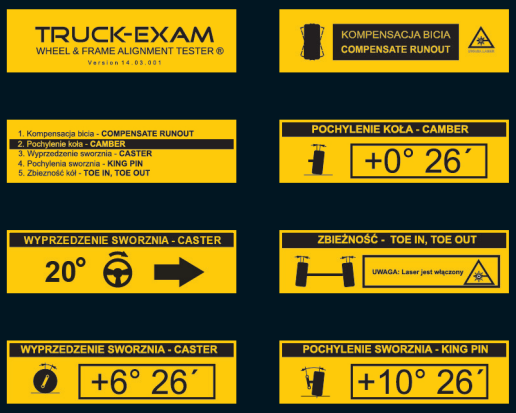
GYROSCOPE TECHNOLOGY

Gyroscopic masurment of steering wheel • Laser measurment of Toe-in • Non-compensative magnetic clamps • Possibility of retrofitting for vehicle frames measurement

TRUCK

WHEEL ALIGNM

TRUCK-EXAM™ is an electro - laser device for measuring the geometry of the chassis of commercial vehicles. Vertical angles are measured electronically and the measuring signal is obtained from miniature high-performance inclinometers. Measuring heads in the latest version are also equipped with miniature gyros allowing measurements of the steering wheel. Angles are horizontaly measured with an optical method using a semiconductor, Class 2 lasers and measurement screens.





Clear and simple menu allows for intuitive operation

TRUCK-EXAM™ is designed to control and allow you to adjust the wheel alignment of commercial vehicles and buses. It allows you to diagnose both one and multi-axis vehicles such as trailers and semi-trailers. The range of wheel rims is 14"-24". The basic set includes mounting clamps for measuring heads designed for steel as well as aluminum alloy rims. In addition, the terminals are equipped with a standard set of magnetic feet allowing for quick mounting and measurements without runout compensation of the measuring system. This is described in detail later. Multiple measurements are made relative to the horizontal center axis of the vehicle support frame by the laser field. In the case of a semi, the reference is the axis of the fixing pin (the so-called kingpin), and in the case of a trailer, the axis of the drawbar eye.

Quick assembly clamp



Magnetic feet for steel rims



Ergonomic construction



-EXAM

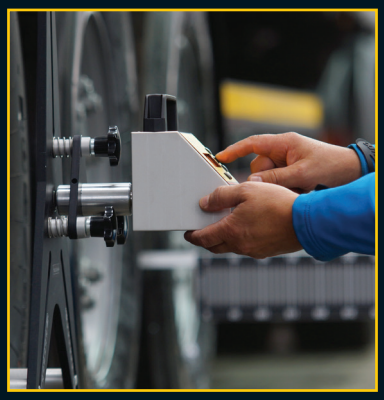
ENT TESTER ™



Synchronous screen rulers



Additional ruler clamps



Electro-laser measuring head

GYROSCOPE

TECHNOLOGY



Delivered with

name	quantity
measuring head	1+1 units
standard clamps	2 sets
turntable	2 units
synchronous ruler	2 sets
adapters kit for measuring trailers and semi-trailers	1+1 units
steering wheel lock	1 unit
brake pedal lock	1 unit
trolley	1 unit
battery charger	2 units

Optional

name	quantity
Non-compensative Q clamps for alu rims	2 sets
turntable with scale	2 units
additional equipment for vehicle frames measurement	1 set
additional ruler clamps	1 set

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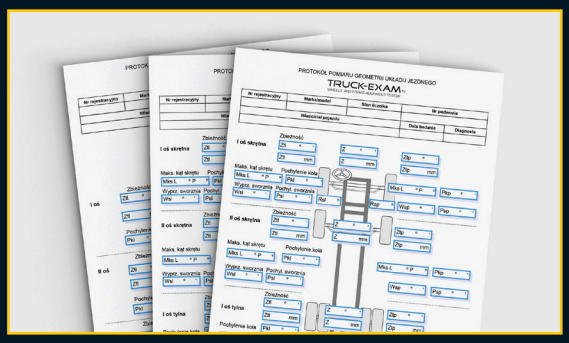
TRUCK-EXAM
WHEEL ALIGNMENT TESTER ™

GYROSCOPE TECHNOLOGY

Technical data and measuring range

Parameter	Value
Rims dimention range	**14" – 24"**
The maximum wheel load on one turntable	**5700 daN**
Power instrument - batteries	**3 V**
laser designed for continuous operation Class 2	**Max. 1 mW**

Parameter	Measuring range	Measuring resolution	Measurement accuracy
Zl, Zp - individual toe-in	**± 4°**	**5'**	**± 5'**
Z - overall toe-in	**± 8°**	**5'**	**± 5'**
Pk - camber	**± 75°**	**1'**	**± 3'**
Kwsz* - caster	**± 75°**	**1'**	**± 5'**
Kpsz* - kingpin inclination	**± 75°**	**1'**	**± 5'**
No - parallelism Wheelbase	**± 4°**	**5'**	**± 5'**
Pb - Lateral adjustment of the rear axle	**± 400 mm**	**2 mm**	**± 2 mm**
Ks* - steering angle	**± 360°**	**1°**	**± 30'**



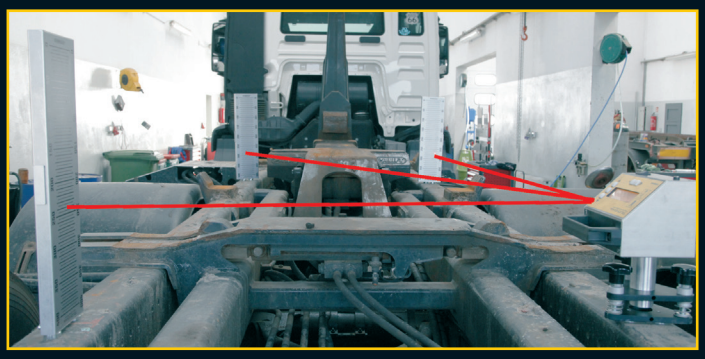
Measurement protocols

Documentation of each measurement and adjustment of the chassis geometry and shape of the framework of a commercial vehicle is performed with a computer or on protocol sheets.

Available protocols:
- wheel and axle geometry (tractor, truck, trailer, semi-trailer),
- frame measurement (tractor, truck, trailer, semi-trailer).

Frame Alignment System





TRUCK-EXAM can be used to measure the shape of vehicle frames. Additional equipment significantly extends the capabilities of the device allowing it to be used during advanced post-accident repairs and operational framework structure straightening. Additional accessories: head holder and screen handles for frame measurement, adjustable side screens, control angle, special level and additional synchronous ruler with handles.

HERKULES AUTO-TECHNIKA WARSZTATOWA
ul. Hodowlana 45, 86-005 Białe Błota k. Bydgoszczy, tel. 52 363 33 43, 664 214 429, 694 700 217
www.herkules-sc.pl

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