

AHS ■ VARIOFLEX

Roller brake testers for passenger cars and trucks

HIGH TECH PRODUCTS
MADE IN GERMANY



Scales also available in kgf



New! AHS Softstarter - energy saving and protection of brake tester and vehicle!



AHS ■ PRÜFTECHNIK

www.ahs-prueftechnik.de info@ahs-prueftechnik.de



Overload protection to avoid damages of the brake tester



6 displays for pressure transmitters (preparation)



Long-living LED indicator lights

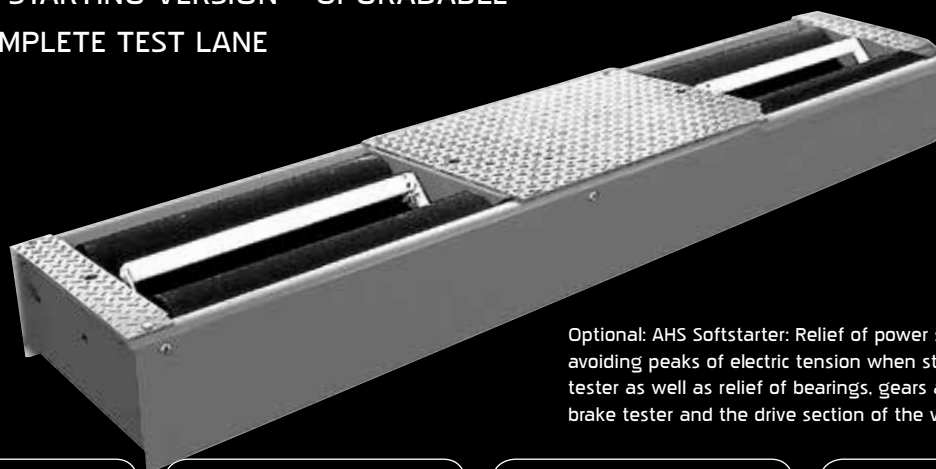
Preparation for wall-mount fitting, swiveling wall-mount or base column optional

Preparation for pressure, digital imbalance display, pit safety device, reverse mode, weighbridge

EASY

The AHS VARIOFLEX EASY is the perfect solution for small and mid-size workshops or organizations with a bigger vehicle fleet. Like the big brother AHS VARIOFLEX TEC, the EASY can be equipped with plenty of accessories – either at once or afterwards – in order to guarantee a customer-friendly and individual solution. Anyway, the EASY stands for high practice-orientation and functionality even without lots of accessories and without extra charge. The EASY guarantees a cost-efficient, fast and effective vehicle testing.

PERFECT STARTING VERSION – UPGRADABLE TO A COMPLETE TEST LANE



Optional: AHS Softstarter: Relief of power supply system by avoiding peaks of electric tension when starting the brake tester as well as relief of bearings, gears and chains of the brake tester and the drive section of the vehicle.

Robust frame construction, special versions for existing pits

Long-living fully plastic-corundum coated rollers for extreme usage

Powerful 2 x 10 kW spur-gear motors – 2 testing speeds as an option

Preparation for weighbridge

Preparation for weighbridge



Detailed diagnostics, automated test procedure

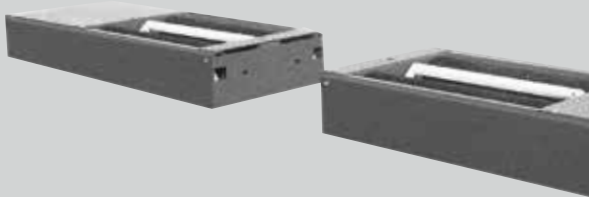
The perfect solution for smaller and mid-sized workshops

Optional with two testing speeds

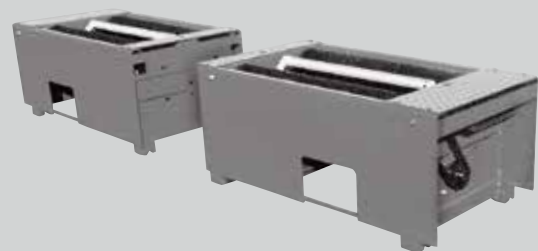
Hot galvanized installations tubs – the perfect solution for accurately fitting pits



The AHS VARIOFLEX EASY is also available with a two-piece roller bed for the installation above a pit – either as a S-version with motors fitted sidewise (for easy maintenance) ...



... or as a compact and space-saving U-version with motors fitted beneath the rollers.

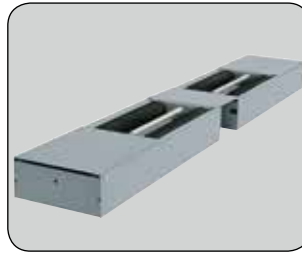


Options:

- Thermostat-controlled cabinet heating
- PC desk with monitor holder and mouse plate
- Workshop righteous PC cabinet with vision panel
- Software package PICARO III for windows
- Side slip tester AT 5002
- Axle weighbridge (single-piece roller bed)
- Wheel- and axle-weighbridge (two-piece roller bed)
- Pneumatic and hydraulic pressure transmitters (either with hose set or radio-controlled)
- Pedal force meter
- Joint play detector
- Pit safety device
- Two testing speeds (approx. 2.4 and 5 km/h)
- Hydraulic load simulator



VARIOFLEX STANDARD
– compact and clearly
arranged display



S-version with motors
fitted sideways for
easy maintenance

TEC

Optional: AHS softstarter: Relief of power supply system by avoiding peaks of electric tension when starting the brake tester as well as relief of bearings, gears and chains of the brake tester and the drive section of the vehicle.



Long-living LED indicator lights

Overload protection
to avoid damages of
the brake tester

Preparation for pit
safety device,
weighbridge and
side slip tester

Preparation for
6 bright lightening
pressure displays

AHS VARIOFLEX TEC – HIGH-TECHNOLOGY FOR HIGH DEMANDS

The AHS VARIOFLEX TEC comes in different versions. One can select among three different roller sets and three different display cabinets. The TEC fulfills the highest demands for safety and technology. The roller beds can be installed in front of or above a pit and are also available for the testing of low-loaders (testing width min./max. 250/3400 mm), heavy duty vehicles or agricultural engines. High-quality manufacture guarantees maximal durability, precise technology and measurement accuracy. The VARIOFLEX TEC can be equipped with various accessories and can be adapted to special customer demands without any problems.



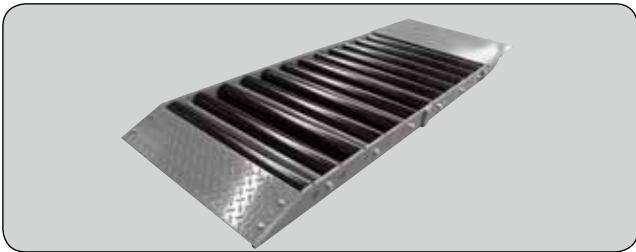
The completely automated testing
procedure guarantees a highly efficient,
fast and effective diagnosis.

Preparation for
weighbridge

Robust frame construction, special versions
for existing pits and
low-loader versions.

Long-living fully
plastic-corundum
coated rollers for
extreme usage

Specially designed
and reinforced high-
performance 2 x 11 kW
flat gear motors



Optional: Boogie (free running) roller platform for testing of trucks with multiple driven axles (rigid joint). Either with ramps for on-floor installation or with installation frame.



TEC

AHS VARIOFLEX – VERSION ESPECIALLY FOR THE TESTING OF HEAVY DUTY VEHICLES, AGRICULTURAL ENGINES AND LOW LOADERS

Optional: Electric motor brakes for easy drive-out of the roller set

Optional: Equipped with double chains and special bearings for highest demands

With bigger sensor rollers for agricultural engines and military vehicles

Display cabinet with four analogue scales: all results at one glance – not only for the easy testing of agricultural engines!

HYDRAULIC LIFTING DEVICE

The hydraulic lifting device lifts the complete roller set together with the vehicle. By using the hydraulic lifting device, a higher axle load can be simulated and the brake values can be improved. Hydraulic and mechanics are optimally adjusted. Special attentions are turned to safety precautions.



PROBLEM SOLVING: HYDRAULIC LIFTING BRIDGE



With the hydraulic lifting bridge for trucks and other commercial vehicles, AHS has developed an innovation that solves many problems in practice. The lifting bridge enables the completely problem-free drive-out of the roller set, even for vehicles with automatic gears. No longer wheel-spinning or damages of the ground floor!

PICARO III – testing software for easy operation



Perfect for the needs of truck workshops

VARIOFLEX SCREEN

The AHS VARIOFLEX can be upgraded with a complete PC system and workshop-righteous solutions for the PC storage. The AHS design column is the most cost-efficient solution (standard solution for VARIOFLEX SCREEN). The workshop-righteous PC standard cabinet with lockable keyboard drawer and PC compartment is an alternative solution.

The AHS VARIOFLEX SCREEN is a pure PC-supported brake tester without analogue displays. The complete testing procedure is controlled by the testing software PICARO III. PICARO III includes for example:

- customer-friendly testing procedures
- alternatively digital brake values or classical „scales“
- linear diagrams
- significant protocols
- extended fault diagnosis and quick-view of brake force and differences in relation to the testing load per axle and per vehicle
- extended quick measurement, permanent recording of measurement results, alternatively text output or graphic output (even time-controlled)
- error self diagnostics
- control via tablet, smart-phone etc.



PC DESIGN COLUMN (LEFT SIDE),
PC STANDARD CABINET (RIGHT SIDE).

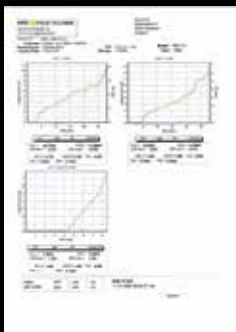
The AHS POWER PAD for the wireless operation of PICARO III and control of the testing procedure right out of the driving cab.



The workshop-righteous PC luxury cabinet comes with a big vision panel for monitors up to 23", a key board drawer and a separate, lockable section for PC, printer and documents.



SCREEN



The clear-designed report includes all relevant measurements and graphics and can actively be used for sales promotion!

Compact transport,
fast set-up



Diverse alternatives
for ramps: either
insertable or hydraulically
moveable up- and
downwards (optional)



**ON-FLOOR
+ MOBILE**

Optional: free running
rollers integrated in
ramp, incl. installation
frame

Optional: Mobile
trolley for display
cabinet



Optional:
Robust, portable case for
notebook and
printer

ATTENTION!
VEHICLES WITH LOW
GROUND CLEARANCE
NEED LONGER RAMPS!



ON-FLOOR + MOBILE

UNLOADING, SET-UP, TESTING:
IT IS THAT SIMPLE!

Extensive foundation work and problem with rented properties belong to the past. The AHS VARIOFLEX On-floor + Mobile can be operated stationary or mobile and is always equipped with technology fulfilling highest demands. The height of only 21 cm also allows the testing of cars. Many public authorities, forwarders, bus operators, companies with large fleets and military utilities in Germany and abroad use the AHS VARIOFLEX On-floor + Mobile due to his easy handling and robust construction.



Singlepiece or two-
piece roller bed, only
21 cm height. Even for
low loaders available!

Long-living fully
plastic-corundum
coated rollers for
extreme usage

2 x 10 kW motors
or optional 2 x 11 kW
motors

Preparation for
weighbridge

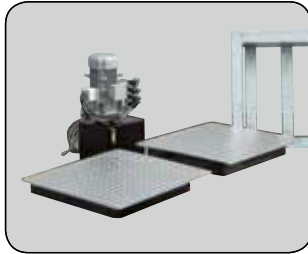


AHS pit safety devices, depending on the kind of the pit, homologated and fully automatic via laser technology



Optional: Axle weigh-bridge or wheel- and axle-weighbridge, integrated in roller bed

AHS Joint play detector with diagonal- or turning movements



Distance measurement – different brands

ACCESSORIES

NUMEROUS POSSIBILITIES ALLOW CUSTOMIZED SOLUTIONS FOR YOUR WORKSHOP!

Optional: hydraulic load simulator for the simulation of loaded testing procedures. The new developed active overload protection avoids misuse and damages of the brake tester.



4-fold (respectively 6-fold) industrial radio remote control with deadman switch



Pressure transmitters with hose set – hydraulic and pneumatic



RADIO PRESSURE TRANSMITTERS FDT 2012 INCL. DOCKING STATION FOR UP TO 6 TRANSMITTERS AND WARNING DEVICE!

No complete brake testing without pressure transmitters! All display cabinets are prepared for showing all pressure values at one glance. With the new generation of radio pressure transmitters FDT 2012 (pneumatic or hydraulic), each workshop is well prepared for the optimal brake testing. Alternatively, pressure transmitters with hose set (pneum./hydraul.) are also available (see above picture).



AHS PRÜFTECHNIK – YOUR SPECIALIST FOR CUSTOMIZED SOLUTIONS FOR EXISTING PITS.

Foundation work is expensive and time consuming – this can be avoided by a customized brake tester made by AHS.

As long as it is technically possible, AHS can manufacture a brake tester fitting in your existing pit – no matter if there was an AHS brake tester or a different brand installed before.

IN PRACTICE



TÜV Arendal, Norway



TÜV Nord, Delmenhorst, Germany



Braunschweiger Verkehrsbetriebe, Germany

EASY

AHS ■ VARIOFLEX

ON-FLOOR + MOBILE

Roller brake testers for passenger cars and trucks

Standard Equipment	EASY 306/306 On-floor + Mobile	EASY 260	EASY SCREEN/306 On-floor + Mobile
Single-piece or two-piece roller bed (S-/U-version, only EASY)	✓	✓	✓
Fully-plastic-corundum coated rollers Ø in mm	200	260	200 or 260
Rollers at same level	✓	✓	✓
Testing width min./max. in mm	930/2690	930/2690	930/2690
Splash-proof spur gear motors, easy-running	✓	✓	✓
Drive power in kW	2x10	2x10	2x10
Drive power in kW 306/11 only on-floor + mobile	2x11*	-	2x11*
30 m signal cable for connection of roller bed/cabinet	✓	✓	✓
Start-on protection against external drive (wrong drive-out during stopped rollers)	✓	✓	✓
Sidewise delayed star/delta activation of the motors	✓	✓	✓
Modern, low-maintenance strain gauge system	✓	✓	✓
Manual operation or automatic mode	✓	✓	✓
Single-wheel mode by cable remote control with deadman switching (20m cable set)	✓	✓	✓
Automatic activation and restart	✓	✓	✓
Automatic switch off	✓	✓	✓
Drive-out support	✓	✓	✓
Start up-lock up protection	✓	✓	✓
Cabinet	EASY 306	EASY 260	EASY SCREEN
Cabinet with two large analogue scales and automatic switch of measuring range	✓	✓	-
E-Box with integrated electronics (without analogue display) and software PICARO III	-	-	✓
4 LED indicators for measuring range	✓	✓	via PC
4 LED indicators for driving direction	✓	✓	via PC
Preparation for reverse mode	✓	✓	✓
Lockable main switch	✓	✓	✓
All indicator lights via LED with very long lifetime	✓	✓	✓
Automatic lamp	✓	✓	✓
Driven-in indicator light for active security control	✓	✓	via PC
Visual control via traffic-lights system	✓	✓	via PC
Indicator light for high brake force difference	✓	✓	-
6 displays for pressure transmitters (either via hose set or radio controlled)	✓	✓	-
Preparation for brake force imbalance display	✓	✓	✓
Special locks	✓	✓	✓
Silicon seal (protection against splash water)	✓	✓	✓
Preparation for the connection to an AHS side slip tester AHS AT 5002 and pit safety device	✓	✓	✓
Preparation for an axle-weighbridge (single-piece roller bed) or a wheel- and axle-weighbridge	✓	✓	✓
PC interface	✓	✓	✓
Network-compatibilitypr	✓	✓	✓
Technical information	EASY 306	EASY 260	EASY SCREEN
Max. drive overload in kg	16000	16000	16000
Display and measuring range in kN	0-6/0-30	0-6/0-30	0-6/0-30
*Display and measuring range in kN (by using drive power 2 x 11 kW)	0-8/0-40		0-8/0-40
Testing speed in km/h	2.3	2.3	2.3
Electrical connection in V/A	400/63	400/63	400/63

Ask for our foundation drawing. Check precisely the dimensions at site.

Measurements of the roller bed on demand – for mobile version, too!

Measurements of cabinet H x W x D: 600 x 805 x 210 mm

TEC

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CABINET

Standard equipment of cabinet:	Standard	2-fold	4-fold	SCREEN
2 large analogue scales with automatic switch of measuring range (0-8/0-40) kN	0-6/0-40	0-8/0-40	-	-
4 large analogue scales (0-8/0-40) kN	-	-	✓	-
E-Box with integrated electronics (without analogue scales)	-	-	-	✓
Software package PICARO III	-	-	-	✓
4 LED indicators for measuring range	✓	✓	-	via PC
4 LED indicators for driving direction	✓	✓	✓	via PC
Preparation for reverse motion	✓	✓	-	✓
2 driving directions and reverse motion	-	-	✓	-
Active over-load protection to avoid misuse	✓	✓	✓	✓
Lockable main switch	✓	✓	✓	✓
All indicator lights via LED	✓	✓	✓	-
Indicator light for automatic mode	✓	✓	✓	-
Driven-in indicator light for active security control	✓	✓	✓	via PC
Visual steering via traffic light system	✓	✓	✓	via PC
Digital display for brake force difference	✓	✓	✓	via PC
Special locks	✓	✓	✓	✓
Silicon seal (protection against splash water)	✓	✓	✓	✓
Preparation for the connection to a side slip tester AT 5002	only via PC	✓	✓	✓
Preparation for the integration of a wheel- and axle-weighbridge	✓	✓	✓	✓
Preparation for the connection to pressure transmitters (either with hose set or radio-controlled)	✓	✓	✓	✓
Preparation for a pit safety device	✓	✓	✓	✓
PC interface	✓	✓	✓	✓
Network-compatibility	✓	✓	✓	✓
Technical information	Standard	2-fold	4-fold	SCREEN
Display range in kN	0-8/0-40	0-8/0-40	0-8/0-40	0-8/0-40
Measuring range in kN	0-8/0-40	0-8/0-40	0-8/0-40	0-8/0-40
Electrical connection in V/A	400/63	400/63	400/63	400/63

The AHS VARIOFLEX TEC product group incorporates 3 different roller beds and three different display cabinets. **Each combination is possible!!!**



Standard display
Measurements H x W x D:
600 x 805 x 210 mm



2-fold display
Measurements H x W x D:
900 x 1100 x 250 mm



4-fold display
Measurements H x W x D:
1100 x 900 x 250 mm

TEC

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Roller brake testers for passenger cars and trucks

ROLLER BED

Standard equipment roller bed:	306 TEC	260 TEC	310 TEC
Alternatively: two-piece roller bed in S-version (motors sidewise for easy maintenance) and in U-version (motors beneath rollers for space-saving), for installation above and in front of pits (with middle cover)	✓	✓	✓
Fully plastic-corundum coated rollers Ø in mm	200	260	310
Rollers at same level	✓	✓	✓
Elevated rear rollers on request	✓	✓	✓
Testing width min./max. in mm approx 760/2900 (installation in front of pit)	✓	✓	✓
Other testing width on request!	✓	✓	✓
High-performance flat gear motors specially designed and reinforced, splash-proofed and easy running	✓	✓	✓
Drive power in kW	2 x 11	2 x 11	2 x 11
Drive power in kW (optional)	2 x 18	2 x 18	2 x 18
30 m signal cable for connection of roller set/cabinet	✓	✓	✓
Start-on protection against external drive (wrong drive-out during stopped rollers)	✓	✓	✓
Sidewise delayed star/delta activation of the motors	✓	✓	✓
Maintenance-free strain gauge measuring system	✓	✓	✓
Manual operation or automatic mode	✓	✓	✓
Single wheel mode by cable remote control with deadman switching (20 m cable set)	✓	✓	✓
Automatic activation and restart	✓	✓	✓
Start jamming protection	✓	✓	✓
Locked brake cut-off	✓	✓	✓
Drive-out support	✓	✓	✓
Technical information	306 TEC	260 TEC	310 TEC
Max. drive overload in kg*	16000	16000	16000
Testing speed in km/h	2.3	2.3	2.3
*special measurements and other drive overload on request	✓	✓	✓

Ask for our foundation drawing. Check precisely the dimensions at site.
Standard equipment may vary or might be adapted according to different requirements.

Options e. g.:

Thermostat controlled cabinet heating	✓
Insertable roller covers	✓
PC desk with monitor holder and mouse plate	✓
Workshop righteous PC cabinet with vision panel	✓
Software package »PICARO III« for Windows (standard with screen-version)	✓
Side slip tester AT 5002	✓
Special version for low-loading trucks (testing width min./max. 250/3400 mm)	✓
Pneumatic pressure transmitters (either with hose set or radio-controlled)	✓
Pit safety device	✓
Joint play detector	✓
Two measuring speeds (ca. 3 and 6 km/h)	✓
Electronic motor brakes for easy drive-out	✓

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