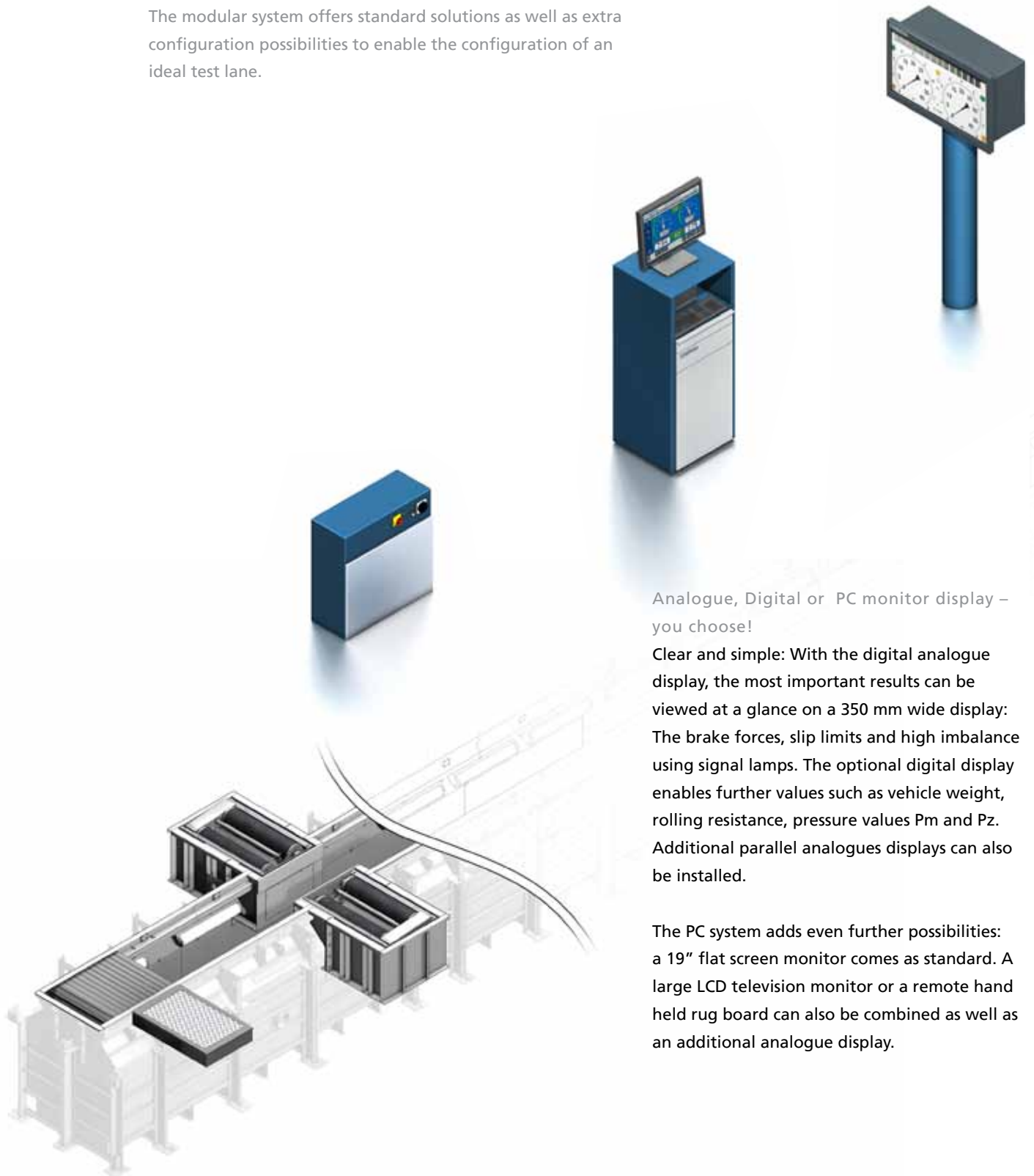




BT & VISIO

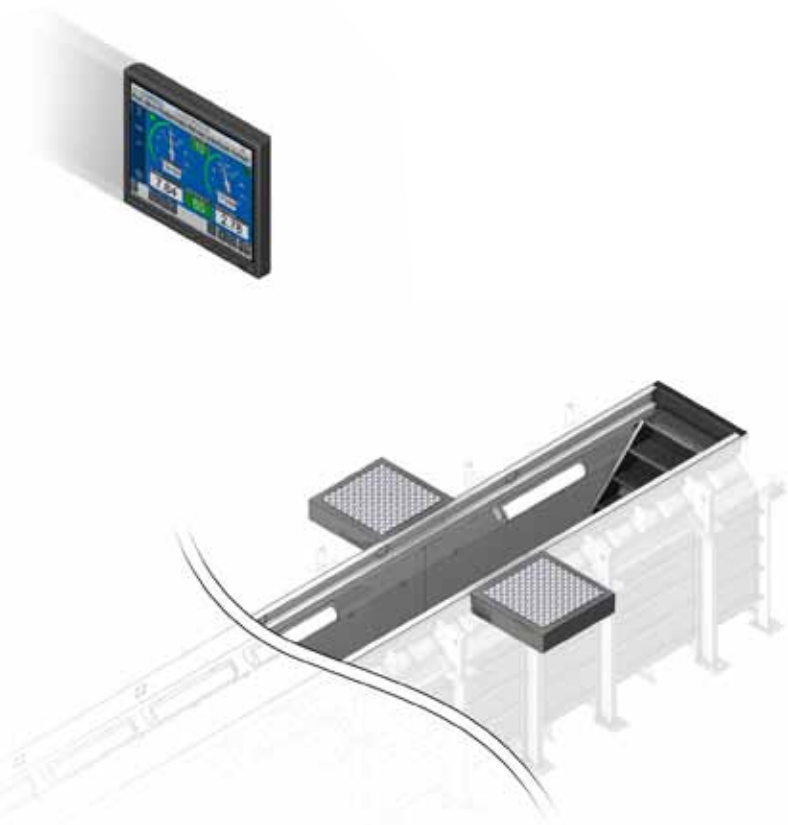
The modular system offers standard solutions as well as extra configuration possibilities to enable the configuration of an ideal test lane.



Analogue, Digital or PC monitor display – you choose!

Clear and simple: With the digital analogue display, the most important results can be viewed at a glance on a 350 mm wide display: The brake forces, slip limits and high imbalance using signal lamps. The optional digital display enables further values such as vehicle weight, rolling resistance, pressure values Pm and Pz. Additional parallel analogues displays can also be installed.

The PC system adds even further possibilities: a 19" flat screen monitor comes as standard. A large LCD television monitor or a remote hand held rug board can also be combined as well as an additional analogue display.



- You can select a standalone brake tester or a complete commercial vehicle test lane. We could deliver the complete pre-fabricated steel cassette pit, which with an optional roller cover enables trucks to drive over.
- Our own development branch for software, measurement and control technology as well as electronics, mechanics and in house production ensures flexibility, innovation and quality.
- All floor units are hot dip galvanized, optimally protecting them from corrosion.
- All brake testers are fitted with worm gears enabling rollers to self block assisting the exit of trucks, busses, transporters and cars.

From a roller set to the test lane

The type of roller set with motors below, has the advantage of space saving over the entire width while motors to the sides allows for a shallow pit. You can supplement the test stand with a side slip tester to detect reasons for undue tyre wear due to wrongly adjusted geometry and a play detector to check steering components and wheel bearings. The braking efficiency can be calculated using the optional weighing device under the roller set. In conjunction with the roller set lifting device or the pull down device a simulated axle weight can be utilized for the same purpose as well as trailer/truck compatibility and SP testing.

truckbay – We offer the complete solution

The truckbay is a complete pre-fabricated steel cassette workshop pit for trucks up to 60 tons weight. An optional roller cover operated by the press of a button is strong enough to enable the truck to drive over. This in turn enormously increases the versatility and space in the workshop.

The modular solution

Using the modular concept, you are able to select the types of tests that you require: Either by utilizing the repairing tests, such as brake testing – which can also be used in a stand-alone format or a universal test lane which incorporates the brake test with others such as side slip and play detection. Even cars can also be testing using this system.

An integrated weighing device, lifting device, pull down device, pressure sensors and further options are also available for extended results. You select either the analogue display with the advantage of clear and quick presentation of the results, or a PC system which can register the pre-programmed number of axles and types of braking systems as well as displaying the calculated results. All results can also be saved in a data bank together with customer and vehicle information. They can be called up or even transmitted to a workshop network system.



BT ground works

Which roller set is the most suitable?

You can choose between two different designs and performance classes:

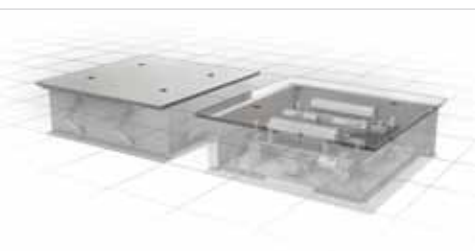
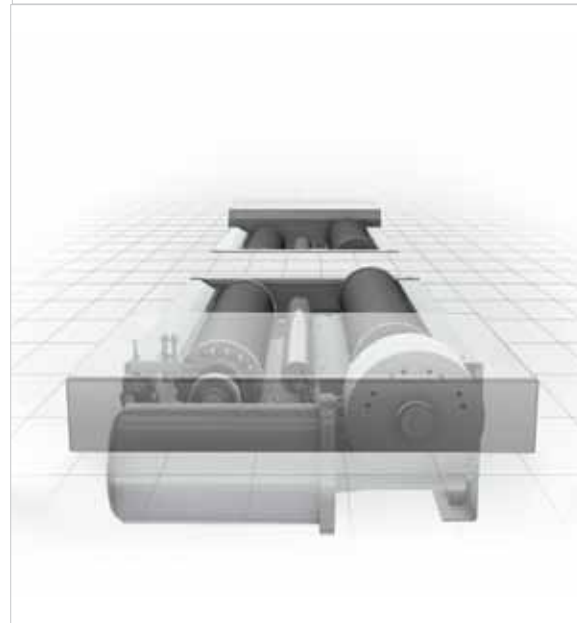
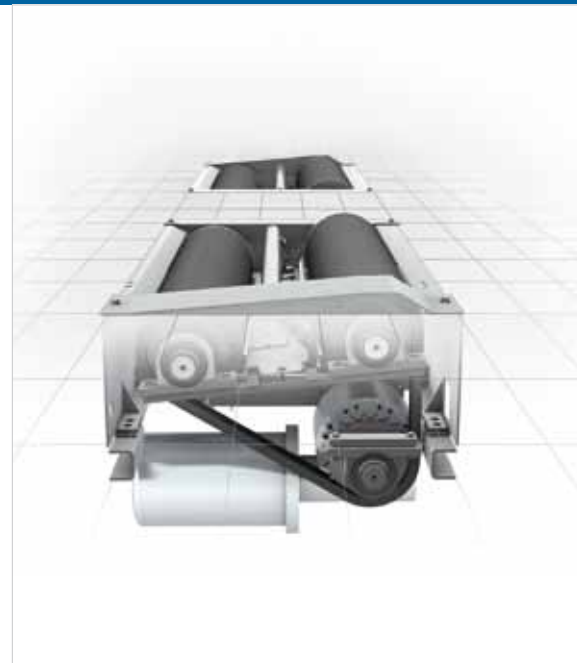
The type „motors below the rollers“ has the advantage of using a smaller space in the workshop whereas the type with motors to the sides has the advantage of lower roller pits.

The motor power 9 kW offers a measuring range up to 30 kN and an axle weight capacity of up to 13 t, the motor power 11 kW offers a measuring range up to 40 kN and an axle weight capacity of up to 18 t. The testing speed for trucks is 2,5 km/h. If you would like to test both commercial and cars on the same rollers, then you can choose the version with switchable speeds, enabling cars to be tested at 5 km/h.

You can also select various types of roller coating such as welded or plastic corundum surface. Both of these fulfil the international requirements for the coefficients of adhesion.

The rear roller raised by 50 mm is the standard version but we also offer a floor level version which enables testing in both directions. Braking efficiency calculations require the assistance of an optional weighing device fitted under the rollers. This configuration can also measure the truck/trailer suitability, SP testing and with the addition of a lifting device or pull down device simulated weights can also be induced.

The optional lowering and lifting device eases the process of driving into and out of the rollers, especially vehicles that are fitted with front spoilers and in many cases this device can substitute the requirement for roller drive over covers.



Play detector

The play detector consists of 2 hydraulic moveable plates, having an axle weight of 20 tons and a movement in each direction of +/- 50 mm. The RC controlled torch handset is able to control different plate movements also in automatic mode. This enables play in the axle and steering systems to be detected.

What does the German test stand guidelines 2011 mean for your investment?

All test stands are available in the D-specifications. These have a certification according to the current guideline and therefore have an additional rotational sensor as well as being equipped with the standardised data interface ASP Live stream. You only have to decide whether you want to test only a truck on the test stand – then it can carry out testing with 1 test speed (2.5 km/h). If you also want to test passenger cars then you require a test stand with 2 test speeds (2.5 and 5 km/h).

Lifting and pull down devices

Twin or triple axles often require an increase of wheel contact pressure on the rollers. Normally, a pull down device should be used, which can be found in our list of accessories.

With the type "motors below" we also offer an optional lifting device which enables the whole roller set to lift by 500 mm. This kind of weight simulation done by the press of a button is fast and comfortable to use. In combination with the weighing device, the simulated weight can be read easily and directly from the monitor or from the LCD display.

A significant simulation of weight can be achieved by simply using a belt which is tightened around the chassis and the pit foundation, together with the lifting device.



Lifting device



Pull down device

Development & manufacturing

Modern production processes mainly manufactured in-house ensures long lasting product quality. Enclosures and frameworks are all produced on modern laser plants and worm gears are developed and manufactured in our own factories.



You choose the display and control units:

Analogue display

The braking values are quickly and easily read with the 350 mm scale on the analogue display. The standard format also has signal lamps for the slip values and for exceeding the maximum brake force difference.

The measurement ranges change automatically from 8 kN to 40 kN and the 14 digit LCD display (optional) shows other values such as axle weight, pressures, and results of the side slip.



Monitor displays for the PC systems

The modern software system offers many options and is nevertheless simple and intuitive to use. Vehicles can be configured by allocating braking systems to axles which can be saved for calling up later, which is comfortable and time saving.

Braking values and truck/trailer suitability are also simple to carry out. The system is network capable and the display can be transferred over to large screen monitors or a portable rugboard.

Various analysis and indication possibilities



Technical data & Accessories

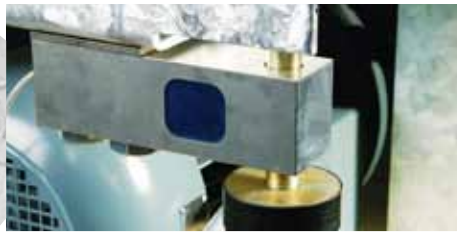
RC pressure sensors

10 different pressures from the central supply to the axle supplies as well as the pedal force meter can be measured simultaneously. The charging station ensures constant operational readiness as the stationary RC receiver station is also combined with this unit.

There is also a 200 bar hydraulic measurement range system available. An optical or audible warning system avoids pressure loss through the vehicle sensors.



IR remote controls for analogue and PC versions



Weighing device



100 mm sensor roller



Pull down device



Printer for PC



Printer for analogue display

Brake Tester	BT 610 BT 612	BT 620 BT 622	BT 640 BT 642	BT 650 BT 652
Permissible axle weight	13 t	13 t	18 t	18 t
Measuring range	30 kN	30 kN	40 kN	40 kN
Roller set construction	Motors below	Motors to the side	Motors below	Motors to the side
Testing speed 2,5 km/h	BT 610	BT 620	BT 640	BT 650
Testing speed 2,5 / 5 km/h	BT 612	BT 622	BT 642	BT 652
Motor power	2 x 9 kW	2 x 9 kW	2 x 11 kW	2 x 11 kW
Roller diameter	282 mm	282 mm	282 mm	282 mm
Roller length	1.100 mm	1.100 mm	1.100 mm	1.100 mm
Level rollers	opt.	opt.	opt.	opt.
Rear rollers raised by 50 mm	std.	std.	std.	std.
Testing width 800 - 2800 mm	std.	std.	std.	std.
Smallest size wheel for testing	440 mm	440 mm	440 mm	440 mm
Largest size wheel for testing	1.400 mm	1.400 mm	1.400 mm	1.400 mm
Weight of each roller set	ca. 600 kg	ca. 600 kg	ca. 600 kg	ca. 600 kg
Operating temperature range	-25 bis 55°C	-25 bis 55°C	-25 bis 55°C	-25 bis 55°C
Analogue display (H/W/D)	580x900 x275 mm	580x900 x275 mm	580x900 x275 mm	580x900 x275 mm
Control unit (H/W/D)	1.060x880 x240 mm	1.060x880 x240 mm	1.060x880 x240 mm	1.060x880 x240 mm
Power connections (Ph./V/A/Hz)	3/400/63/50	3/400/63/50	3/400/63/50	3/400/63/50

Play detectors	
Permissible axle weight	20 t
max. plate movement f/r nd l/r	+/- 50 mm from central position
max. power each side	230kN
Power connections (Ph./V/A/Hz)	2 3/400/16/50

Side Slip	
Permissible axle weight	18 t
Measuring range	-15 m/km to +15 m/km

Network connections
All PC based test lanes (NTS6xx und NTS8xx) can be connected using ASA Network, GiegNet und MCTCNet protocols