



(750-24000 kg axle weight)

MASTERS IN VEHICLE TESTING

Catalogue PTI ideas and solutions Lowest total cost of ownership (lowest TCO)

VL Test Solutions, specialist in vehicle PTI equipment and test lanes



artist impression, realisation 2025

VL Test Solutions

VL Test Solutions bv is the R&D, sales and service organisation of the VL Test Group bv. The history of the VL Test Group bv started back in 1958 in The Netherlands. Since then the 'VLT' brand has become well-known and respected worldwide in the field of vehicle inspection equipment.

Our products range from simple stand-alone machines up to completely automated test lanes and are being used every day by many garages, workshops and (government) inspection centres.

VLT equipment is known for its longevity and low downtime and therefore we can proudly say that we offer a very low total cost of ownership.

1400 m² Experience centre

Our key values:

- Our drive is road-safety and a cleaner environment.
- Our actions are customer-driven.
- Quality is our main goal, with a lowest Total Cost of Ownership (TCO).
- Our organisation is flexible and our products are custom-made.
- Our innovations determine the future.





Of course, the companies of the VL Test Group by are ISO 9001-2015 certified.

Sales and Service



VL Test Group bv

VL Test Solutions bv (R&D, sales and service, Benelux countries and export)

Van Leeuwen Test Systems bv (manufacturing, NL)

VL Test Systems Ltd (sales and service, UK)

VL Test Systems (Far East) Pte. Ltd (sales and service, Singapore/Far East)





Mechanical engineering

Designing all mechanical parts, making necessary calculations and all the technical drawings for manufacturing.



Software development

Designing and coding the software for all embedded and pc based systems that are used to run our equipment.



Test facility

Purpose-built facility for putting our equipment through its paces, both mechanically and functionally.

Manufacturing

Sawing, laser cutting, folding, robot welding, CNC machining.



Assembly

Assembling mechanical and electronic parts.







<image>

Logistics

Warehouse facilities for storing raw materials, parts and subcomponents.

Checking incoming goods and preparing products for shipment.



Quality Control

Checking the quality of subassemblies and combining them into complete machines according to customer wishes, testing all functionality, performing all necessary calibrations.

VLT's vision on PTI



Welcome

What does PTI mean? For some this is an easy question to answer, for some it may not. The Periodic Technical Inspection, often abbreviated as PTI is meant to reduce the amount of cars that is driving around with technical defects. The intention has always been to reduce the number of accidents caused by technical defects on vehicles. The focus of the inspection is therefore on the safety aspects of the vehicles, such as a proper function of the brakes, tyres, lights, steering etc.

Also, the environmental impact of cars and transportation is getting more and more important. That is why during the PTI the pollution of vehicles is often measured to check if the exhaust gasses are within the limits set by the (local) government. In this catalogue VL Test Solutions wants to show what they can provide to vehicle testing stations. Depending on the (local) regulation per country or part of the world, some products may or may not be applicable. For example, in some countries motorcycles are tested in the PTI, in other regionsthey are not.

VLT's key values:

- Our drive is road-safety and a cleaner environment.
- Our actions are customer-driven.
- Quality is our main goal, with a lowest Total Cost of Ownership (TCO).
- Our innovations determine the future of PTI.

Introduction - the 6th generation

VL Test Solutions has a perception or vision on the future of PTI, and we would like to help you understand

why we make our machines the way we make them. And why we are offering the solutions as we do today.

First one needs to understand that VLT is providing its equipment to different types of customers/users. First there is a difference in the system of PTI; where does the user of the vehicle go to for checking the vehicle? This could be a workshop/ garage or solely a PTI-testing station. Secondly heavy-duty vehicle PTI legislation may differ from the light-duty vehicles. Therefore the equipment built by VLT in the past, was different and often customer specific. Or one bought a so-called 'stand-alone' unit (for example a roller brake tester), or one bought a 'test lane' variant.



Before, when one ordered for example a brake tester or suspension tester, it was not possible to easily expand the machine with more equipment, or integrate it later in a test-lane setup. Nowadays, with the introduction of the 6th generation possibilities are more or less limitless. The core proposition of the 6th generation of VLT equipment is to convert more to a software driven – PTI as a service – way of working.



The hardware made by our sister company VL Test Systems (also based in The Netherlands, on the same location) is now more interchangeable than ever before. All components, whether it is for a 'stand-alone' system or a complete vehicle testing station, with multiple 'test-lanes', are the same. Furthermore one can start with only using one or two pieces of equipment, and later on expand within the same "eco-system" by adding software components. This means that also a testing station can be made in different stages or phases (in time).

Digital read-outs

While the hardware components did not changed a lot, the 'visible' items of the equipment did. One has different options to choose from; such as a big 43 inch portraitscreen, a 32 inch landscape screen and/or a tablet.

Expand!

As mentioned one can start with only one VLT product, but can expand and connect the equipment in the future. Think about adding different kinds of exhaust/emission testers and add them to the VLT 'ecosystem' software. Add cameras to scan the license plate and sensors to track a vehicle. Or add a Tyre Inspection System (TIS) for making measurements and diagnostics of the complete tire while testing the brakes on a VLT roller brake tester. Print a report at the end of the test, or as we all try to put less burden on the environment, send a digital report to the customer or government.

Future on Vehicle Testing (PTI)

As mentioned before, VL Test Solutions has a vision or perception on vehicle testing in the future. This is also the reason that we created the so-called 6th generation of equipment. Due to the fact of a global lack of labour force, we assume that in the near future vehicle testing has to become more automated more often. Also vehicles themselves are changing in high pace, compared to the last decades. With more Advanced Driver Assistance Systems (ADAS) in the newer cars, one can imagine that the testing of these systems may also be mandatory to test in the future. Before we enter this phase, a lot of standardization on these systems is important. Especially the possibilities to read the measured values, has to be without limitations. This is a whole other discussion which is way broader discussed in the automotive industry. But, one can imagine that, when

inspecting software (versions) or



VLT's vision on PTI



ADAS systems and vehicle diagnosis in general, it may also be necessary to store this data and connect it with the other parts of the inspection, the ones we already now such as visual inspection, measurements of exhaust pollutions and brake tests etc.

Web technology

The new 6th gen is based on standard web technology. This makes it possible to connect other kind of equipment in the future. Based on Internet of Things and Web-API, VLT now uses state of the art technology to expand with new (even to be developed in the future) hardware. When the equipment is connected with each other and reporting all the measurements to a centralized software, the equipment is highly efficient in transferring the data to the PTI provider, or, if needed, to the government. This also takes some of the possibility away of human-made errors or mistakes.

Furthermore, users of VLT equipment are now able to be supported by the internet. Mechanical issues need to be fixed in the field, but non-mechanical issues like problems with pc's, software and screens are often possible to be checked and fixed over the wired connection. Besides that, it is possible to predict some break-downs, for example noticing a sensor drift almost out of calibration. This helps in saving downtime, by responding before the actual event happening. Also change in legislation will be provided via new software, which can pushed or pulled by the equipment, depending on customers choice and wishes.

Testing 20 vehicles an hour

The VLT test lanes are set up in such a way that vehicles do not have to wait for the vehicle which is first in the test lane. When one wants to reach maximum amount of vehicle output, one has to understand that a test lane needs to be long enough. This promotes the speed of throughput. The test lane is divided into stages as shown above. With the ultimate and complete set-up, one is able to test 20 (passenger)cars an hour. For heavy-duty vehicles, the amount of throughput is less, but the PTI itself also is more time consuming. With this ultimate set-up in mind - which one can expand to, even though one has started with a 'standalone' piece of equipment- we built up our catalogue. Enjoy it!



The most ideal and efficient way to perform PTI's is by installing the equipment in such a way that vehicles can easily and quickly move from one test to another. That is why VLT prefers the concept of 'test lanes'. A test lane can be very simple, with one or a few stand-alone machines, but can also consist of multiple sections (test stages) for all kinds of tests and all machines are connected. This catalogue uses the test lane concept for its layout. You will be able to find specific information about all individual machines quite easily.

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STAGE 0



STAGE 0

VEHICLE ENTRY

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Data entry



Data entry: The main interface to the test equipment. Here you can enter vehicle and inspection data, search in the database, view and print test reports, view equipment statistics, and more.

VLTB08307

Steel, powder coated entry console incl. monitor, professional keyboard, mouse

VLTB08307TS

Same as VLTB08307, but with touch screen monitor

VLTB08306

Wall mount incl. monitor, professional keyboard, mouse



VLTLPR0873

The licence plate recognition system *VLTLPR0873* scans the licence plate and passes the number to the software. No need to manually type in the number.

Licence plate recognition system

VLTLPR0873P Camera with wall mount VLTLPR0873F Camera with pedestal VLTLPR0874SW Software only, for use with tablet

Drive-in sensors



VLT-HBTA0909 Set with 2 infrared sensor beams for detecting the vehicle. This is most commonly used at the headlight beam tester, because it does not only detect the vehicle, but also makes sure that the distance of the vehicle to the headlight beam tester is optimal.



In some countries it is required by law for official inspections to send inspection results to a government system. Also that government system may send vehicle and inspection data to the VLT system. Therefore VLT offers the possibility to connect test equipment to government systems:

Database connectivity

VLT Connect.

RDW (Netherlands) MTS (DVSA, UK) VIAS (Belgium) ASA (Germany) and more...

STAGE 1



STAGE 1

EMISSION/DIESEL SMOKE TESTERS

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ZERO EMISSION UNITS/RPM

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Diesel smoke analysers

VLT-E8104

Modern 4-gas analyser, suitable for petrol, LPG, CNG, LNG vehicles. Can be connected to diesel smoke cell *VLT-E9210*.

Ő

- Measures CO, CO₂, HC, O₂
- 6 Large LED displays
- Simple step-by-step test routines
- Integrated thermal printer
- OIML class 1 accuracy
- Optional NOx measurement (VLT-E8105)



VLT-E9200

Diesel smoke analyser in a sturdy casing. Can be used as stand-alone unit, or integrated in an automated test lane.

- Measures opacity of exhaust gases
- 6 Large LED displays
- 8 Robust switches on front panel
- Simple step-by-step test routines
- Integrated thermal printer
- Diesel smoke cell VLT-E9210

Accessories

VLT-ET8901



VLT-ET8901

Trolley with 2 plateaus (for emission units, keyboard, mouse) and place for a diesel smoke cell. With drawer and 2 hose reels.

Optional: *VLT-ETA8901* mount for a 22" monitor (excl. monitor).



VLT-EA92

Accessory sets available for different countries. These contain all accessories that are required for official inspections in your country, such as oil temperature sensor, rpm meter, country specific software and all necessary cables.

Accessory set for The Netherlands *VLT-EA92NL*





Zero emission units

Zero emission units for connecting to your exhaust extraction system and the VLT-E9200 diesel smoke tester. The sample probe is integrated in the extraction hose.

VLT-EN94PKW

Zero emission unit for light vehicles

VLT-EN94LKW

Zero emission unit for heavy vehicles

VLT-EN94P/LKW

Zero emission unit for light and heavy vehicles





VLT-ERPM492

RPM adapter for 4/5-gas and diesel smoke testers

- Connection possibilities for use with any 4/5-gas or diesel smoke tester
- Suitable for 2-stroke and 4-stroke engines
- Suitable for light vehicles, heavy vehicles, motorcycles
- External magnetic vibration/sound vibration pickup



RPM meters

VLT-ERPM300E

RPM meter for diesel engines, especially developed for use with a diesel smoke tester. Quick and easy to use.

- Rechargeable lithium battery
- Large colour LED display
- External magnetic vibration pickup
- Battery connection cable for ripple voltage measurement

VLT-EOBD2012

Universal scan tool that can be used for service, maintenance and inspections. Connects to the standard 16-pin EOBD connector of the vehicle. It reads:

- Motor rpm
- Motor temperature
- MIL-status
- Permanent error codes
- Readiness code
- Lambda probe signal
- PID information

VLT-EOBD2012

VLT-ERPM300E





Particle Counter

VLT-E9700



User friendly

- Eeasy to read display
- Sturdy design
- Vehicles are tested when the engine is idling (no accelerations required)
- In many countries no zero-emission cabinet required when performing a particle measurement
- Suitable for testing EURO 5 and EURO 6 diesel engines
- Measurement takes less than 1 min
- Automatic filter check and zeroing
- Automatic flow control
- Standard with 2.5 m heated sampling probe; at optional cost also 4 m heated probe availabe

VLT-E9700



The VLT-E9700 particle counter was developed especially for automotive workshops and inspection stations. This particle counter detects particles when the engine is idling. No additives, such as alcohol, are needed for the measurement.





Sound level meters

VLTS0894 Sound level meter (class 1)

VLTS089301 Tripod for sound level meter

The sound level meter itself can be fitted safely inside a console. The microphone is connected to the sound level meter with a cable and is mounted on a tripod, so that you can quickly place it near the exhaust of the vehicle and remove it immediately after the measurement.





Above carriage inspection

VLTTG0877

Tinted glass meter for measuring

the transparency of (tinted) car windows. Consists of 2 sturdy units, to be placed on either side of the glass.

UL Test Solutions

VLTTG0899

Tinted glass tester with tablet camera/LED light.

For visual inspections in automated test lanes VLT provides software that lists the items to be inspected for each vehicle type. The items are grouped logically on tabbed pages. The inspector can see immediately which items to inspect and can mark each item as 'failed', if appropriate. The failed items can be printed on the test report.

The software runs on the data entry console or on a tablet. For tablets and accessories, page 48.





Headlight Beam Testers





Manually operated headlight beam testers for quick and simple testing headlight alignment and luminosity. All models are suitable for halogen, xenon and led light sources. All models have a swivel column and a 200 mm clear optical lens.

Point laser

The VLT-HBT7477 models have a point laser for easy positioning of the optical unit in front of the light source.



Digital lux meter

The VLT-HBT7457 models have a digital lux meter for reading the measured light intensity.

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Touch screen

The VLT-HBT7477U models have a touch screen for accessing all functions of the tester.



VLTBIF7457121

Floor mounted V-rail (4.5 metres) for VLT-HBT7457R+R



VLTBIF7457221

Sub frame for installing headlight beam tester rail for VLT-HBT7457 / VLT-HBT7477 *in* the concrete floor, instead of *on* the concrete floor.



Rail kit

Models with '+R' in the model name come with a rail kit as standard. This consists of a steel base, 4 steel wheels and 4.5 m of metal rails.



	VLT-HBT7457L	VLT-HBT7457L+R	VLT-HBT7457R+R	VLT-HBT7477U	VLT-HBT7477U+R
Alignment method	mirror	mirror	mirror	mirror	mirror
Point laser	no	no	no	yes	yes
Luxmeter	digital	digital	digital	on screen	on screen
Printer	no	no	no	possible via pc	possible via pc
Extra		rail kit	rail kit	touch screen	rail kit,
				operation,	touch screen
				network	operation,
				connection to pc	network
					connection to pc
For L/R driving traffic	left	left	right (UK)	left or right	left or right

Headlight Beam Testers



VLT-HBT0936MK3/TL

- Fully automatic robot type tester for test lane use
- Motor driven horizontal and vertical movement
- Automatic searching for head lights
- Colour TFT screen
- Optical unit with CCD camera
- Horizontal movement over precision guide rails (4.5 m)
- Vertical movement by precision linear drive unit
- Suitable for halogen, xenon and led lamps

VLT-HBT7497U(+R)

- Automatic tester with high precision camera
- Automatic light recognition
- Laser viewer
- Suitable for halogen, xenon and led lamps
- Can be used in integrated test lanes, or standalone
- Motorised vertical movement
- Optional rail kit
- n st drtical kit *VLT-HBT7497U(+R)*

	VLT-HBT7497U(+R)	VLT-HBT0936MK3/TL
Alignm.	green laser	fully automatic
Point	yes, cross shape	n.a. (fully automatic
laser	pointer	light search)
Lux	on screen	on screen
Printer	possible via pc	via test lane pc
Extra	touch screen	touch screen / fully
	operation,	automatic operation,
	network	network connection
	connection to pc	to pc
Traffic	left or right	left or right



VLT-HBTA0906

Optional protection frame for headlight beam tester in parking position. Complete with cable pipe and mounting plate for electric cabinet.

VLT-HBTA0906

VLTBIF0905/476 VLTBIF0905/440 VLTBIF0905/275

Precision stainless steel guide rails, one round, one square. Available in 4.76 m (cars, trucks, buses) and 2.75 m (motorcycles) length. For VLT-HBT0906 series headlight beam testers.

The frame is cast in the concrete floor, so that the top of the rails is flush with the floor. The round and square rails are fully adjustable in height, so they can be aligned perfectly level over the entire length.

VLTBIF0905/476

STAGE 2





STAGE 2

CHASSIS DYNAMOMETER SMOKE TESTERS

- Available models 23

	VLT038950-G6	VLT068950-G6	VLT148950-G6	VLT248950-G6
Max axle load	3000 kg	6000 kg	14000 kg	24000 kg **
Max speed	150 km/h	150 km/h	100 km/h	90 km/h
Test width	800 / 2200 mm	700 / 2500 mm	800 / 3000 mm	800 / 3000 mm
Roller distance	500 mm	550 mm	630 mm	630 mm
Max brake power	300 kW	300 kW	600 kW	800 kW
Hydraulic pump	1.5 kW	3 kW	3 kW	3 kW

** tandem axle weight

A chassis dynamometer smoke tester (CDST) is used to measure the exhaust gases of diesel powered vehicles when the engine is under load. The driven axle of the vehicle is placed on rollers. The driver is instructed to accelerate to and maintain certain speeds in certain gears, during which the rollers are increasingly being slowed down with eddy current brakes. In this way the vehicle is tested more or less under road conditions, which is much more realistic (and better for the engine).

Available models:

- VLT038950-G6: Max axle weight under test: 3000 kg.
 Required sub frame VLTBIF0389507
- VLT068950-G6: Max axle weight under test: 6000 kg.
 Required sub frame VLTBIF0689507
- VLT148950-G6: Max axle weight under test: 14000 kg.
 Required sub frame VLTBIF148950

VL Test Solutions by has models for 3, 6 and 14 tonnes axle weight, and a model for tandem axle vehicles (24 tonnes tandem axle weight).

For cooling of the engine, a big cooling fan on a trolley is used. This fan can be placed in front of the vehicle.

Every model also comes with a hydraulic pump unit (for the axle lift, side rollers and disc brakes), a relay box, a controller box and an RF remote control unit.

 VLT248950: Max axle weight under test: 24000 kg (tandem axle model).
 Required sub frame VLTBIF2489507

The position of the tandem axle rollers can be adjusted according to the axle distance of the vehicle.

VLTFT148960

Large cooling fan on a trolley to place in front of the vehicle. The fan is controlled with the remote control unit of the CDST.



VLTFT148960







VLTBIF2489507



Free Roller Sets



VLT Free roller sets

Roller sets with rollers that can rotate freely, used for testing vehicles with multiple driven axles without a third differential on e.g. a roller brake tester, CDST or speedometer tester. The wheels of a driven axle that is on the rollers can rotate freely in any direction.

- Hydraulic axle lift for easy drive-in/out
- Rollers locked when axle lift is up
- VLT8103 with 3 rollers, L = 950 mm 8000 kg axle weight
- VLT16104 with 4 rollers, L = 1100 mm 16000 kg axle weight





Sub frames:	
3 rollers,	VLTBIF8154
no safety guards	
4 rollers,	VLTBIF16154
no safety guards	
3 rollers,	VLTBIF8155
with safety guards	
4 rollers,	VLTBIF16155
with safety guards	





STAGE 3



STAGE 3

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- Profile depth measurement (VLTSW621701)
- Tyre over/under pressure indication (VLTSW621702)
- Nail in tyre detection (VLTSW621703)
- Side wall damage detection (VLTSW621704)
- Alignment, toe (VLTSW621710)
- Alignment, camber (VLTSW621711)
- And more.....

VLT3972, VLT3982

Tyre inspection system *VLT3972* for light vehicles*, *VLT3982* for heavy vehicles, for checking profile depth. Optionally the system can check if the tyre pressure has been too high or loo low on average by looking at the wear of the tyres.

In the near future the option will become available to measure toe-in and toe-out. This eliminates the need for a separate side slip tester. This option can simply be installed via an online connection. More functionality will be added in

the future.

The VLT tyre inspection system is installed just after the roller brake tester. The measurement is done while the wheels are rotating and so the entire circumference is checked. This takes only a few seconds. The test results are printed (per axle) on the brake tester test report. The system uses stereo imaging to check the tyres. There are 2 digital stereo cameras per wheel. Clever software takes care of the rest.

* The model for light vehicles requires a sub frame for in-ground installation to make driving over the units easier.





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VEHICLE INFORMA	TIC)N					090	07-002386-000
Туре	: C	ar						
Manufacturer	:			Milead			:	
Model	:				nment star	ndards	: NL	
Plate number		VPT02		Inspec	ctor		: Administrator	
VIN	:							
BRAKES (√=Passed, X	=Fai	led, (B)=Whe	el locked,	(K)=Side	by side)			
AXLE 1		Left	Right	т	otal	Efficiency	Reference	Result
Static axle weight	:	449 kg	451 kg	90	0 kg			
Brake force	:	3770 N	3720 N	749	0 N	85 %		
Imbalance	:	3770 N	3720 N		1 %		30 %	1
Bind	:	180 N	170 N	35	0 N	4%		
Tread depth	:	3.2 mm	4.3 mm				1.6 mm	1
AXLE 2		Left (B)	Right	T	otal	Efficiency	Reference	Result
Static axle weight	:	293 kg	302 kg	59	5 kg			
Brake force	:	2530 N	2520 N	505	0 N	87 %		
Imbalance	:	2530 N	2520 N		0 %		30 %	√
Bind	:	170 N	120 N	29	0 N	5 %		
Tread depth	:	3.4 mm	3.9 mm				1.6 mm	1
PARKING BRAKE 2		Left	Right	T	otal	Efficiency	Reference	Result
Static axle weight	:	293 kg	302 kg	59	5 kg			
Brake force	:	1610 N	1340 N	295	0 N	51 %		
Imbalance	:	1610 N	1340 N	1	7 %			
TOTAL		Left	Right	т	otal	Efficiency		Result
Static vehicle weight	:	742 kg	753 kg	149	5 kg			
Service brake	:	6300 N	6240 N	1254	0 N	86 %	50 %	1
Parking brake	:	1610 N	1340 N	295	0 N	20 %	16 %	√
							Total	√
SUSPENSION TEST	(√=	Passed, X=F	ailed, !=Con	ntroleer B	oandenspar	ning)		
Axle 1		Left	Frequency	Right	Frequenc	y Total	Reference	Result
Wheel-road contact	:	64 %E	15 Hz	61 %E	15 Hz			
Relative imbalance	:	64 %E	15 Hz	61 %E	15 Hz	5 %	50 %	1
Min. dynamic weight	:	287 kg	15 Hz	275 kg	15 Hz	562 kg		
Phase shift	:	88 °	13 Hz	86 °	13 Hz		35 °	1
Imbalance	:	88 °	13 Hz	86 °	13 Hz	2 %	50 %	4
Tyre rigidity	:	374 N/mm	25 Hz	379 N/mm	25 Hz			
Static axle weight		449 kg	0 Hz	451 kg	0 Hz	900 kg		
-		-		-			nsion condition	1



starting measurement prior to brake test



measuring profile depth



profile depth measurement results





The *VLT3673-G6* road contact tester uses an extended Eusama measuring principle. It measures and calculates the following values:

- Road contact value
- Road contact value imbalance left/right
- Resonance frequency
- Wwheel weight at minimum road contact value
- Tyre rigidity
- Wheel weight
- Axle weight
- Phase shift

Why measure phase shift? Measuring the phase shift is especially useful when testing very light vehicles and vehicles with low profile or run-flat tyres. These vehicles often don't pass a standard Eusama test.

The VLT3673F-G6 road contact tester has machined aluminium measuring plates (instead of folded steel ones) that allow for a very accurate measurement. This model also has a frequency converter. This can be used for the optional resonance test.

Options and accessories

VLTBIF3605

Sub frame for installing the tester in the shop floor

VLTBIF3610MR2

Sub frame with sliding cover plates (electrically driven, for driving over with heavy vehicles)

VLTBID3607

Dummy cover for installing in a combination sub frame for a brake tester and a suspension tester, when the suspension tester will be installed at a later date





Suspension test

HOLD POSITION





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VLTBIF3610MR2



VLT-123



Brake + Road Contact Testers



VLT3673F/42xx-G6

VLT road contact testers can be combined with VLT roller brake testers for light and medium weight vehicles, such as the VLT4200 series. The two machines are placed in a single sub frame and use the same controller, vehicle entry, monitor and remote control unit. The test report shows the results of both machines. This is a more compact and cheaper solution than two fully separate machines.

VLT3673F/4222-G6: The road contact tester measures the axle weights. The roller brake tester uses these weights for the brake efficiency calculations. VLT3673F/4233-G6: The road contact tester measures the axle weight, but the brake tester also has an axle weighing system. So, if you do not need/want to do a suspension test, you do not have to stop when the wheels are on the road contact tater in order to weigh the axle.

The user is guided through the entire testing process step by step. All information for the user/driver will appear on the monitor at the appropriate time.



VLT3673F/4222-G6



Suspension tester VLT3673F-G6, with

- Eusama measurement, plus
- Phase shift measurement
- Frequency converter
- Axle weighing

Brake tester VLT4222-G6/730/2450, with

- Roller locking
- Counter-rotating rollers (4x4 testing)
- Soft starters
- Applied parking brake test
- Optional axle weighing (VLT4233-G6/730/2450)
- Open sub frame VLTBIF364205/730, or
- Closed sub frame VLTBIC364209/730

Brake test + suspension test =

- 2 machines
- 1 readout
- 1 remote control
- 1 vehicle entry point
- 1 test report





VLT24/2500-G6



Standard features:

- RF remote control unit
- Roller locking

RT2996001

- Counter-rotating rollers (4x4 testing)
- Axle weighing system (VLT2x33-G6)





VLT2422-G6 VLT2433-G6 Front rollers at floor level Rear rollers-30 mm





VLT2522-G6 VLT2533-G6 All rollers at floor level



Counter-rotating rollers possibility for testing 4x4 vehicles is standard on these brake testers.



Options and accessories for VLT24/2500 series

VLTA2412/2 VLTA2412/2 VLTA2402

■ VLTA241106

Drive-over cover plates with hinges on the outside

■ VLTA2412/2

Set of 2 ramps for on-floor installation (e.g. in front of a car lift)

VLTA2402 Ground fra

Ground frame for installation without sub frame VLTBIF2405 or VLTBIC2409

VLTBIC2409

Closed sub frame for single installation in concrete floor

VLT2436
 Soft start option





 VLTPT1032
 Pedal force transducer with integrated amplifier and 12 meter cable (54)











VLT42/5200-G6

Model	VLT4233-G6 /VLT5233-G6		
	0 - 10 kN	0 - 12.5 kN	
FFI	4000 kg	5000 kg	
	5000 kg	6000 kg	
	730 x 2450 mm or 880 x 2600 mm		
	2 x 5 kW		

Standard features:

- Axle weighing system
- Applied brake test
- Roller locking device
- Counter-rotating rollers (4x4 testing)
- RF remote control
- All rollers at floor level





Options and accessories for VLT42/5200 series





- VLTA421106
 Drive-over cover plates
- VLTA421108MC
 Drive over plate for motorcycle testing
- *VLTPT1032*

Pedal force transducer with integrated amplifier and 12 meter cable (54)

VLTA4002

Ground frame for installation without sub frame VLTBIC4209

 VLTBIC4209/730, VLTBIC4209/880
 Closed sub frames for single installation in concrete floor





Applied parking brake test. Brake test on static wheels (for electronic parking brakes).



2

Put the axle on the rollers.



Apply the parking brake.



Press the start button.



Read the brake force values.









Also available with integrated axle lift. See page 40.



COMPACT series

VLT140/160233-G6

VLT140233/\	/LT160233-G6	
0 - 35 kN	0 - 40 kN	
14000 kg	16000 kg	
18000 kg	20000 kg	
800 x 2800 mm*		
2 x 11 kW		
	0 - 35 kN 14000 kg 18000 kg 800 x 2800	

* Approx., depends on sub frame

Rollerset dimensions: L x W x H 1300 x 785 x 585 mm

Standard features:

- Counter-rotating rollers (4x4 testing)
- Roller locking device
- Axle weighing system
- Gritted rollers, solid one-piece shaft
- Rollers perfectly cylindrical (precision tube and machined over entire length)
- Class GGG40 bearing housings for roller bearings
- Middle rollers pivoting in selfaligning ball bearings
- OIML R60 C3 brake force strain gauges, fully sealed, stainless steel
- Proximity sensors with stainless steel housing
- For installation in existing or new floor/pit, or in a new sub frame
- VLT160733-G6 version for UK (4000 kgf, 16000 kg, 5.5/11 kW)

Options and accessories for VLT140/160233 series

- VLTA160233/202
 Drive-over cover plates
- VLTBIF13003/C550

Sub frame for installation over inspection pit, with provisions for axle load cylinders

- VLTBIF13007/C550
 Sub frame for installation over inspection pit. No provisions for axle load simulator
- VLTBIF13037/C550
 Sub frame for non-pit installation

■ VLTPT1032

Pedal force transducer with integrated amplifier and 12 meter cable (54)

■ VLTPT1063

Air pressure transducers with cable (54)

VLTPT1734/20
 Wireless (RF) Air pressure transducers (54)













Standard features:

- Counter-rotating rollers (4x4 testing)
- Roller locking device
- Axle weighing system
- Gritted rollers, solid one-piece shaft
- Rollers perfectly cylindrical (precision tube and machined over entire length)
- Class GGG40 bearing housings for roller bearings
- Middle rollers pivoting in selfaligning ball bearings
- OIML R60 C3 brake force strain gauges, fully sealed, stainless steel

FULL SIZE series

VLT14/16033-G6 VLT14/16233-G6

Model	VLT14x33 / VLT16x33-G6		
	0 - 35 kN	0 - 40 kN	
H	14000 kg	16000 kg	
	18000 kg	20000 kg	
	800 x 3000 mm (VLTBIF14027/NO SG) 1000 x 3200 mm (VLTBIF14003)		
	2 x 11 kW		

Rollerset dimensions: L x W x H 1450 x 890 x 640 mm

- Proximity sensors with stainless steel housing
- For installation in existing or new floor/pit, or in a new sub frame


Options and accessories for VLT14/16/20x33 series

- VLTPT1734/20 RF Air pressure transducers (54)
- VLTIO16132

Two measuring directions, with or without second readout cabinet (not for raised rear rollers)

- VLTBIF14003
 Sub frame for installation over inspection pit, with mountings for axle load cylinders
- VLTBIF14027/NO SG
 Sub frame for non-pit installation
- VLTBIF14037 and VLTBIF14037/100 Sub frames for non-pit installation

• VLTPT1032

Pedal force transducer with integrated amplifier and 12 meter cable (54)

VLTPT1063
 Air pressure transducers with cable (54)



VLTMC08301













VLT16733-G6



UK Roller Brake Testers

FULL SIZE UK series

VLT16733-G6 VLT20733-G6 VLT16733 / VLT20733-G6 Model 4000 kgf 5000 kgf 16000 kg 20000 kg 20000 kg 24000 kg 870 x 3070 mm 400 x 3200 mm (VLTBIF14027), (VLTBIF14027/1400), 800 x 3000 mm 400 x 3200 mm (VLTBIF14127/1400), (VLTBIF14127), roller length 1100 mm roller length 1400 mm 5.5 / 11 kW 5.5 / 11 kW

VLT16733-G6

Roller brake tester for testing heavy and light vehicles. Includes a computer with the complete DVSA database (17000 DTp numbers) and testing software. Brake testers of the VLT16733 series have been in use at most official UK MOT inspection

stations since 1988 and many more are installed every year at private companies, such as fleet owners and HGV work shops.

Also the British Ministry of Defence uses VLT brake testers exclusively; 20 tonnes models in a special MOD configuration.



Options and accessories for VLT16/20733 series

■ VLT18631/5M/UK

Axle load simulator with hydraulic pulling cylinders. Including hydraulic pump unit. Pulling force 1000- 10000 kg (*50*). Non-pit installation, no lift No load simulation cylinder attachments With side guards *VLTBIF14027* Over pit installation, no lift With load simulation cylinder attachments With side guards *VLTBIF14003UK*



VLT18631/5M/UK



Over pit installation, no lift No load simulation cylinder attachments With side guards

Non-pit installation, no lift With load simulation cylinder attachments With side guards









Standard features:

- Main features same as models without lift
- Lifting height 180 mm
- Roller length 1000 or 1100 mm

Rollerset dimensions incl. adapterframe with guidings: L x W x H 1350 x 890 x 640 mm, or 1450 x 890 x 640 mm



new compact roller brake tester with axle lift

adapter frame

existing 'nonlift' sub frame in concrete floor

COMPACT series with lift

VLT160233LIFT-G6



Compact roller brake testers with integrated axle lift. Because of the compact construction they can be installed in an existing VLT sub frame for a full size brake tester without axle lift, or they can replace brake testers of several other brands without the need for extensive civil work.





TIP

COMPACT UK series with lift

VLT160733LIFT-G6



Compact roller brake tester with integrated axle lift for replacing your existing VLT brake tester without the need for extensive ground work. By using adapter frame *VLTBIF16278* the roller beds are placed in your existing sub frame.

VLTBIF16278

Standard features:

- Lifting height 180 mm
- Counter-rotating rollers (4x4 testing)
- Roller locking device
- Axle weighing system
- Applied test function
- 2 testing speeds
- RF remote control unit
- Complete DVSA database

Rollerset dimensions incl. adapterframe with guidings: L x W x H 1450 x 890 x 640 mm Replace your old VLT roller brake tester without axle lift with a new VLT roller brake tester with axle lift within 2 working days. No need for extensive ground work or a new subframe.



- 1. Old roller beds disconnected and lifted out of the sub frame.
- 2. Adapter frames lowered in and secured to the existing sub frame.
- 3. New roller beds with lift installed.









FULL SIZE series with lift

VLT14033LIFT-G6 VLT16233LIFT-G6



Standard features:

- Main features same as models without lift
- Lifting height 180 mm

VLT-RE

- VLT14033: Rear rollers raised 60 mm
- VLT16233: All rollers at +40 mm

Rollerset dimensions: L x W x H 1450 x 890 x 750 mm

VLT16233LIFT-G6

STAGE 3





Options and accessories for VLT14/16x33 series

■ VLTIO16132

Two measuring directions, with or without second readout cabinet (not for raised rear rollers)

■ VLTPT1032

Pedal force transducer with integrated amplifier and 12 meter cable (54)

■ VLTPT1063

Air pressure transducers with cable (54)

■ VLTPT1734/20

RF Air pressure transducers (54)











Fast

Brake test is controlled completely from the cabin of the vehicle, including raising and lowering the lift.



Easy Simply increase the axle weight with the lift.

Shorter testing time Legally required pressure factor can be reached sooner.













FULL SIZE series with lift for pendle axles

VLT16233LIFT/PA-G6

Model	VLT16233LIFT/PA-G6
\bigcirc	0 - 40 kN
FFI	16000 kg
	20000 kg
	Depends on sub frame
	2 x 11 kW

Standard features:

- Counter-rotating rollers (4x4 testing)
- Roller locking device
- Axle weighing system. Integrated axle lift
- 2 Testing speeds
- 2 Middle rollers per side, slip detection for each wheel separately
- Lifting height 180 mm
- Rollers 260 x 1100 mm







FULL SIZE UK series with lift for pendle axles

VLT20733LIFT/PA-G6





Pendle axle trailers are mostly used for extremely heavy loads. So, it speaks for itself that the brakes of those trailers must be in optimum condition. The VLT brake testers with split middle rollers were made especially for that purpose. Each wheel of a pendle axle pair has its own independent brake. The split middle rollers can detect the locking of a single wheel and will stop the rollers immediately to prevent tyre wear.



START OR NEXT

Total

Rollerbrake test

43

%

Left

100kg

BN-GP-87

Right

inner left wheel locked during brake test







FULL SIZE UK series with lift

VLT16733LIFT/G6



All the same features of the standard VLT16733-G6 model, as used by the DVSA and many other MOT testing facilities, but with the added benefits of the lifting system (increase axle load quickly from the cabin of the vehicle)

- Lifting height 180 mm
- Lifting capacity 20000 kg
- Use as full load simulator by tying down the axle/chassis

Rollerset dimensions: L x W x H 1450 x 890 x 750 mm





Miscellaneous accessories



VLTB14035 Floor stand for hydraulic pump

unit

■ VLTBIF16276 Sub frame for non-pit installation With attachment brackets for load simulator cylinders VLTBIF16276: 845 x 3045 mm VLTBIF16276/R1400/30: 300 x 3100 mm (1400 mm rollers) VLTBIF16276/R1400/40: 400 x 3200 mm (1400 mm rollers)

Sub frames for full size roller brake testers with lift

VLTBIF16273

Sub frame for installation over inspection pit. Available for different test widths





VLTB14036 Floor stand for relay/controller box

VLTB14036

VLTB14035



VLTBZ16273P3

Tie down frame for load simulation, for VLTBIF16273 sub frames VLTBZ16273P3FR = frame only VLTBZ16273P3ACC = accessories only



VLTKB16603 Professional grade usb pc keyboard, dustproof, waterproof (IP65).



VLTKB16604 Professional grade usb pc mouse, dustproof, waterproof (IP66).





Readout Options



Widescreen monitors VLTM100929/32/W

(display area 698 x 393 mm) *VLTM100929/43/W*

VLTB08306 (complete set)

height, rotation and tilt.

Wall mount, including 22" monitor,

professional keyboard and mouse

and 15 m cable set. Adjustable

(display area 941 x 529 mm) All models are professional grade led monitors, designed for 24/7 use. High luminance, non-glare panels. Full HD resolution 4K.

Monitor covers and mountings

VLTMC08301 (for VLTM10029/43/W)

VLTMC08302

(for VLTM10029/32/W) VLTMC08302 can be used in portrait and landscape orientation. Both covers can be used with all mounts.

VLTMC08303

(for VLTM10029/43/W) Fully closed metal casing with transparent window, for outside use VLTB08304 / VLTB08305

Galvanised steel pedestal for monitor, 2 metres/3 metres high. Monitor can be fitted at any hight on the pedestal. *VLTB08303/EXT*

Galvanised steel wall mount for 32"

or 43" monitor.

Monitor can be rotated up to 180° (max angle depends on monitor size and orientation).

VLTB08309

Angled mounting plate for mounting to truss beam.

VLTTB0928/01

VLTM100929/22/W

RTB08306

VLTKB16603

VLTKB16604





VLTTB0928

Professional grade tablet 10.1" with stylus pen, 1920 x 1200 resolution *VLTTB0928/01* Tablet holder/charger station *VLTTB0928/02* Docking station with keyboard





VLTB08307

Steel, powder coated entry console with fold-away lockable keyboard shelf, lockable door, 2 shelves inside, 4 adjustable feet.

Dimensions 1770 x 750 x 330 mm. Including 22" monitor, professional keyboard and mouse, 15 m cables.

Readout Options (complete set examples)

VLT-R/O-C1

VLTM100929/43/W monitor 43" VLTMC08301 monitor cover VLTB08303/EXT wall mount, or VLTB08304 pedestal 2 mtr, or VLTB08305 pedestal 3 mtr

VLT-R/O-C1+TB

VLTM100929/43/W monitor 43" VLTMC08301 monitor cover VLTB08303/EXT wall mount, or VLTB08304 pedestal 2 mtr, or VLTB08305 pedestal 3 mtr VLTB0928 toughpad VLTB0928/01 toughpad holder VLTB0928/02 docking station

VLT-R/O-C3

VLTM100929/32/W monitor 32" *VLTMC08302* monitor cover *VLTB08303/EXT* wall mount *VLTB08307* entry console

VLT-R/O-C4

VLTM100929/43/W monitor 43" VLTMC08301 monitor cover VLTB08303/EXT wall mount, or VLTB08304 pedestal 2 mtr, or VLTB08305 pedestal 3 mtr VLTB08307 entry console

VLT-R/O-C4+TB

VLTM100929/43/W monitor 43" VLTMC08301 monitor cover VLTB08303/EXT wall mount, or VLTB08304 pedestal 2 mtr, or VLTB08305 pedestal 3 mtr VLTB08307 entry console VLTB0928 toughpad VLTB0928/01 toughpad holder VLTB0928/02 docking station

VLT-R/O-C6

VLTM100929/32/W monitor 32" VLTMC08302 monitor cover VLTB08303/EXT wall mount or VLTB08307 entry console VLTB0928 toughpad VLTB0928/01 toughpad holder VLTB0928/02 docking station













Axle Load Simulators





VLT18631/5M

Standard load simulator

VLT18631/5M/UK UK spec load simulator

VLT18631/CON/UK UK MOD spec load simulator

VLT18531/5M

Load simulator for use in combination with VLT9054 series play detector (shared pump unit).

The desired axle weight is controlled with the remote control of the brake tester, coupled to the RBT axle weighing system.

- Cylinder stroke 250 mm
- Pulling force: 1000- 10000 kg
- Includes 2 double-acting hydraulic cylinders, electronic pressure control, chains/belts, hydraulic pump unit

VLT18631/5M

Pulling cylinders can be used with sub frames VLTBIF14003 and VLTBIF13003/C550 (for compact series brake testers).





Agricultural and similar vehicles

VLT16833/AGRI-G6





Special roller brake tester for vehicles with large wheels, such as agricultural vehicles, or road working equipment like wheel loaders and scrapers.

Roller distance increased to allow for the bigger wheels.

- Min./max wheel diameter ø800 / ø2500 mm
- In-ground installation with sub frame, or above ground installation (ramps required)









Brake and suspension tester for light vehicles, on tow trailer



Note: All mobile testing equipment is tailor made. No standard product.

Brake tester for heavy vehicles, for use in mobile systems





Optional axle lift, 150 mm lifting height











Mobile vehicle inspection station on a 2-axle semi-trailer.

The following equipment can be integrated:

- Roller brake tester 16 ton, with lift
- Suspension tester
- Side slip tester
- Speedometer/taximeter tester
- Wheel play detector
- Emission/diesel smoke analyser
- Particle counter
- Headlight beam tester
- Visual inspection tablet

Comes complete with:

- Power generator
- Office space
- Steered axles with remote control









Complete mobile inspection station











VLTPT1032

Pedal force transducer

- Connects to the VLT roller brake tester directly, or via junction box (in combination with air pressure transducers VLTPT1063)
- Measuring range 0- 1000 N
- Cable length 12 m
- Amplifier converts signal to amps to minimise signal level drop in long cables



VLTPT1029B

Pedal force transducer

- Stand-alone (does not connect to the roller brake tester)
- Measuring range 0- 1000 N

VLTPT1063



VLTPT1063

Air pressure transducer

- Connects to the roller brake tester via junction box
- Connect up to 10 transducers
- Measuring range 0- 20 bar
- Cable length 12 m
- Amplifier converts signal to amps to minimise signal level drop in long cables
- Complete sets available: *VLTPT1032-63* Junction box + VLTPT1032 + VLTPT1063 *VLTPT1032-63-63* Junction box + VLTPT1032 + 2x VLTPT1063 *VLTPT1032-63-63-63* Junction box + 2x VLTPT1063-63 Junction box + 2x VLTPT1063 *VLTPT1063-63-63* Junction box + 3x VLTPT1063





Air Pressure / Pedal Force



Wireless (RF) pedal force and air pressure transducer sets 0-1000 N / 0-20 bar

VLTPT1772/20

- Charger station
- RF receiver
- 2x Air pressure transducer
- Cable set

VLTPT1773/20

- Charger station
- RF receiver
- 3x Air pressure transducer
- Cable set

VLTPT1774/20

- Charger station
- RF receiver
- 4x Air pressure transducer
- Cable set

VLTPT1775/20

- Charger station
- RF receiver
- 5x Air pressure transducer
- Cable set

VLTPT1783/20

- Charger station
- RF receiver
- 2x Air pressure transducer
- 1x Pedal force transducer
- Cable set

VLTPT1784/20

- Charger station
- RF receiver
- 3x Air pressure transducer
- 1x Pedal force transducer
- Cable set

VLTPT1785/20

- Charger station
- RF receiver
- 4x Aair pressure transducer
- 1x Pedal force transducer

Cable set







VLT1734/100













<u>VLTBIC0576</u> Sub frame for roller brake tester only

VLTBIF0556

Sub frame for roller brake tester with 2 clamps

Roller brake tester for motorcycles

VLT0573-G6



- Axle weighing
- RF remote control
- Optional hydraulic wheel clamping devices available; fixed clamp (*VLTAM0554*) and a model with alignment measurement capability (*VLTAM0553*)

Roller brake tester with 2 clamps



Sub frame for roller brake tester with 2 rigid clamps and 1 moving clamp for measuring alignment



VLTA501108MC

Cover plates set for performing motorcycle brake tests on a VLT42/5200 series roller brake tester for cars



390 x 2300 mm

(2500 kg/wheel)

5000 kg

6000 kg

5 kW



The solution with one short and one long roller pair on this brake tester makes that you can test motorcycles (also with side cars), scooters, trikes, tuk-tuks, quads, cars, taxi's, etc. Rollers 220 x 860 mm + 220 x 1050 mm



rollers with internal motor and planetary gearbox

VLTBIC4209/390



2 wheeled vehicles



3 wheeled vehicles



4 wheeled vehicles



Overrun Brake Simulators







VLTCAR2106

Overrun brake simulator

The overrun brake simulator is used to test the overrun brake of a caravan or trailer. The simulator also keeps the caravan/trailer in place on the brake tester rollers. The overrun force is applied manually and is indicated on the brake tester readout. The simulator is locked in place on a rail that is cast in the concrete floor.

Options

VLT322146

Auto-reverse brake test *VLT322106* Weigh bridge function

VLTBIC2109-... (required) Rail for sawing in existing concrete floor Available in 4, 5, 6 or 8 metres VLTBIC2109-400 VLTBIC2109-500 VLTBIC2109-600 VLTBIC2109-800

VLTCAR2106



VLTCAR2810

Mobile overrun brake simulator

Ideal for testing large numbers of caravans/trailers up to 3500 kg. Collect the trailer on the parking lot and drive it to the brake tester. After the test, drive it back to the parking lot and collect the next one.

No locking rails needed. Works with any VLT brake tester that has the overrun brake testing option.

Coupling: NATO or ball ø50mm (interchangeable). Coupling height: 480 ~ 985 mm.

Overrun Brake Simulators



VLT4233CAR-G6



Consists of

- VLT4233-G6 Brake tester
- VLTA421106 Drive-over plates
- VLTCAR2106 Overrun brake simulator
- VLTBIC2109-400 Locking rail
- VLT-R/O-C32 32" Monitor set
- VLTKB16504/USB/2X Keyboard
- VLT16595D Laser printer
- VLTBIC4209/880 Closed sub frame



VLT4233CAR-G6



VLT4233LIFT/CAR-G6

VLTBIC4210LIFT/880 sub frame VLTA4210LIFTING/880 lifting system VLTBIC4209/880

VLT4233LIFT/CAR-G6

Same as VLT4233CAR-G6, but with lifting system under the brake tester Lifting capacity 4500 kg

- Lifting height 100 mm

VLTBIC4210LIFT/880

Special sub frame with lifting system for VLT4233-G6/880/2600 brake tester. Especially useful for testing tandem axle trailers and caravans.

VLTA4210LIFTING/880

Lifting system for subframe VLTBIC4210LIFT/880.

- Lifting capacity 4500 kg
- Lifting height 100 mm





Van Leeuwen Test Group - Synonymous for quality, durability and ease of use

The history of the Van Leeuwen Test Group starts in 1958 in The Netherlands. Since then the VLT brand has become well-known and respected worldwide in the field of vehicle inspection equipment. Product development is quality driven first, price driven second. This may mean that VLT equipment is not the cheapest, but the total cost of ownership is very low.

INTEGRATED TEST LANES

Besides making stand-alone equipment, VL Test Solutions also integrates equipment in automated test lanes. These lanes are computer controlled and can handle many vehicles per hour. The high throughput is realised by automating as much as possible and by dividing the test lane into multiple test stages. At any given time there can be a vehicle in each test stage. This means that each test lane can handle 3 or 4 vehicles simultaneously. All necessary data about a vehicle and its inspection is entered at the





data entry console, or retrieved from a (government) database. By using that information, the vehicle tracking system guides the vehicles through the test lane efficiently. In the case of a re-test the vehicle is directed straight to the location in the test lane where the re-test is to be performed.

Most tests are fully automated. Only the visual inspections require decisions from the inspector. The rest is all handled by the VLT inspection software. This ensures consistent and fair test results.

VLT GRIT EPOXY ROLLER COATING

The grit epoxy coating was developed by VL Test Solutions. It has some unique characteristics.

- It is extremely durable
- A lifespan of more than 20 years at normal use (garages)
- Over 10 years for very intensive use (inspection stations with up to 200 vehicles per brake tester per day)
- High quality & performance
- The concept and production process guarantee minimal tolerances of the outer roller diameter
- High brake forces are obtained, even in wet conditions
- Minimal tyre wear

MECHANICAL ROLLER LOCKING

The mechanical roller locking system (motor brake) makes sure that the rollers are always locked, unless a brake test is in progress.

Advantages

- Driving onto and off the rollers very easily (essential for vehicles with automatic transmission and rear wheel drive)
- Does not require elaborate electronic provisions e.g. to prevent peak voltages
- Makes passing over the rollers very quick and easy, without the need for a (slow) axle lift

INDUSTRIAL PROCESSORS

VL Test Solutions uses industrial processors for the core functionality of all machines. These processors are very well suited for work shop environments, where temperature changes, dust, etcetera are normal. Also, their technology has a much longer lifespan than pc's. VL Test Solutions processors have proven to last more than 20 years.









BRAKE TESTER ROLLERS WITH INTEGRATED DRIVE UNIT

Another VL Test innovation is the brake tester roller with internal driveunit. These rollers are available for brake testers for axle weights up to 5 tonnes.

Advantages

- No loss of measured brake force due to misalignment of components
- Very accurate measurement
- Rollers coated with the well-known VLT grit layer to ensure correct brake forces, even with wet tyres/rollers
- Internal wear of the internal drive system (motor, gearbox) is compensated

- Suitable for testing electromechanical brake systems (applied test)
- High IP65 protection class
- Roller locking device option
- Very compact construction
- Low maintenance
- Roller body made of high grade T6 aluminium (no corrosion that can damage the grit layer; a damaged grit layer does not cause corrosion to the roller body)

How do we know it is strong enough?

We put a Scania truck (5500 kg axle weight) on the rollers of a 4 tonnes brake tester and let it perform a brake test once every minute for 72 hours straight. That amounts to 4320 brake tests in 3 days. Result? No problems whatsoever.









STAGE 4

SPEEDOMETER/TAXIMETER TESTERS

- Speedometer testers 64







Speedometer Testers (VLTx885-G6)

- All rollers flame sprayed with 17% chrome
- Hydraulic axle lift for easy drive-in/out
- Rollers locked when axle lift is up
- Side rollers to prevent vehicle from accidentally moving too far to the side
- RF remote control
- Models for 3000, 12000, 14000 kg axle weight and for motorcycles





VLT3885T-G6 /

Extensions (for VLT3885-G6)

- VLT3885T-G6, incl. taximeter testing software for your national legal requirements and electric motor
- VLT3885TF-G6, incl. taximeter testing software for your national legal requirements and electric motor + frequency control





Side protection rollers can be placed in different positions to adjust for the width of the vehicle.





STAGE 5



UNDER CARRIAGE AND INSPECTION PIT EQUIPMENT

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- Pit safety scanner68
- Pit jacks69
- Wheel play detectors73







Inspection Pit Ideas





Inspector Lift / Pit Safety System









VL Test Inspector lifts

To make it easier for inspectors to work in inspection pits, VL Test offers hydraulic pit lifts. An inspector can raise the lift to the height that is best for him to work at.

When the pit is not in use the lift can be raised to floor level for safety reasons.

- Hydraulic lift
- Spring-activated safety locking mechanism
- Foot or hand operated switches
- 500 kg load capacity
- Different sizes available
- With or without steps
- 8 or 10 m Length, 2 m height, 0.75 m width

VLTPSS2019 Pit safety system

Laser scanner for detecting objects and persons in an inspection pit.

- Safety range 8.4 m. The brake tester will stop if a person enters the safety range.
- Warning range 26 m
- Scanning angle >180°
- All ranges can be adjusted (size and shape)

VLTPSS2019



BPJ-VA15

- Lifting capacity 15000 kg
- Stroke 770 mm
- Pneumatic-hydraulic operation
- Working pressure 10 bar
- Tilt prevention system
- Pressure relief valve

BPJ-VA20

- Lifting capacity 20000 kg
- Stroke 770 mm
- Pneumatic-hydraulic operation
- Working pressure 10 bar
- Tilt prevention system
- Pressure relief valve



VL Test

BPJ-VA15 BPJ-VA20 BPJA-VAW15 BPJA-VAW20



BPJA-VAW15

- Carriage for BPJ-VA15
- Custom made to pit size
- Rollers Ø65 mm with double needle bearings, or wheels Ø105 mm with double ball bearings

BPJA-VAW20

- Carriage for BPJ-VA20
- Custom made to pit size
- Rollers Ø65 mm with double needle bearings, or wheels Ø105 mm with double ball bearings



ANTENDY



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DA



BPJP-VA20

- Lifting capacity 20000 kg
- Stroke 750 mm
- High lifting/lowering speed
- Mechanical position lock
- Required pit depth min. 1400 mm

CAPACITY 20000 kg

- Working pressure 10 bar
- Pressure relief valve
- Does not block you from moving through the pit
- Including accessories



Pit Jacks (mobile)

뷴

BPJM-VA20

- Lifting capacity 20000 kg
- Lifting stroke 770 mm
- Working pressure 10 bar
- Minimal height based on pit depth
- Wheels for moving over pit floor
- Also available as extra fast model *BPJ-VA20SS* (6 sec until full load and 15 sec until wheel-free)





BPJM-VA20SP

- Lifting capacity 20000 kg
- Single cylinder, double acting
- High speed lifting and lowering function
- Maximum stroke always available because frame height is custom made according to pit depth
- Movable over pit floor
- 4 Wheels for moving when not under load, 4 support legs when under load
- Standard dimensions of carriage 750 x 750 mm; other width possible
- Standard colour RAL1023 (yellow)



BPJM-VA20AP/80SS

- Lifting capacity 20000 kg
- Lifting height based on pit depth
- Wheels for moving over pit floor
- Super speed

BPJM-VA30

- Lifting capacity 15000 / 30000 kg
- Min/max height 900 / 2200 mm
- Pneumatic (10 bar)/hydraulic operation
- Wheels for moving over pit floor
- Telescopic gearbox charge

Pit Jacks





BPJA-KBPx



Т

Tiltable gearbox plate Differential ø 60 or 70 mm adapter BPJA-KP **BPJA-VLSxxx** Extension piece 200, 300, 500, 600 or 700 mm BPJA-VLGM Mechanical safety lock bars per 75 mm BVK-TL2,5VOETKBP Lifting capacity 2500 kg Min/max height 800 - 2100 mm Pneumatic-hydraulic operation • Foot pedal for exact height setting Tilting gearbox support plate

> **BPJA-AFZB15** Supporting bridge


Wheel Play Detectors (Light)



VLTWPD9032

- Max axle weight: 5000 kg
- Hor. force: 18000 N per plate
- Stroke: 70 mm
- Plate dimensions: 590 x 720 mm
- Movements: longitudinal

VLTWPD9036

- Max axle weight: 5000 kg
- Hor. force: 18000 N per plate
- Stroke: 70 mm
- Plate dimensions: 590 x 720 mm
- Movements: longitudinal
 + diagonal + steering
- Automated program cycles

VLTWPD903629

- Max axle weight: 5000 kg
- Hor. force: 18000 N per plate
- Stroke: 70 mm
- Plate dimensions: 590 x 720 mm
- Movements: longitudinal
 + diagonal + steering
- Automated program cycles
- Rear plate set with diagonal movements















Sub frame for VLTWPD9032: VLTBIF9003: set of 2 sub frames



VLTBIF9008: set of 2 sub frames for rear plates (for VLTWPD903629)



Wheel Play Detectors (Heavy)





VLTWPD9143

- Max axle weight: 20000 kg
- Hor. force: 30000 N per plate
- Stroke: 100 mm
- Plate dimensions: 850 x 1000 mm
- Movements: longitudinal

Extra on VLTWPD9152

- Max axle weight: 20000 kg
- Hor. force: 30000 N per plate
- Stroke: 100 mm
- Plate dimensions: 850 x 1000 mm
- Movements: longitudinal + diagonal
- Automated program cycles

VLTWPD9752

 Same as VLTWPD9152, but extra compact hydraulic pump unit for installation in inspection pit.











Sub frames for all models: *VLTBIF9005*: set of 2 sub frames with concrete anchors on 3 sides *VLTBIF9006*: set of 2 sub frames with concrete anchors on 4 sides



STAGE 5

hydraulic pump unit in pit (VLTWPD9752)





Report Printers

VLTP16525

- Dot matrix printer
- 24 Pins
- 80 Columns
- Suitable for continuous paper (A4)





VLTP16655D

- Laser printer
- A4
- Double sided
- Monochrome

Software Packages



VLT-SW-NL-APK2/2,5t VLT-SW-NL-APK2/5t

Software for brake testers up to 2500 or 5000 kg axle weight, consisting of

- Basic software light vehicles
- Measurement according to Dutch regulations (RDW)
- Dutch language
- 4x4 option
- Pedal force measurement option

VLT-SW-NL-APK1/14t VLT-SW-NL-APK1/16t

Software for brake testers up to 14000 or 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Dutch regulations (RDW)
- Dutch language
- 4x4 Option
- Pedal force measurement option
- Air pressure measurement option

VLT-SW-NL-APK1/14t-Lift VLT-SW-NL-APK1/16t-Lift

Software for brake testers up to 14000 or 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Dutch regulations (RDW)
- Dutch language
- 4x4 Ooption
- Pedal force measurement option
- Air pressure measurement option
- Axle lift/axle load simulation option

VLT-SW-BE-PTI/2,5t VLT-SW-BE-PTI/5t

Software for brake testers up to 2500 or 5000 kg axle weight, consisting of

- Basic software light vehicles
- Measurement according to Belgian regulations (BIVV, GOCA)
- Dutch and French language
- 4x4 Option
- Pedal force measurement option

VLT-SW-BE-PTI/14t VLT-SW-BE-PTI/16t

Software for brake testers up to 14000 or 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Belgian regulations (BIVV, GOCA)
- Dutch and French language
- 4x4 Option
- Air pressure measurement option

VLT-SW-BE-PTI1/14t-Lift VLT-SW-BE-PTI/16t-Lift

Software for brake testers up to 14000 or 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Belgian regulations (BIVV, GOCA)
- Dutch and French language
- 4x4 Option
- Air pressure measurement option
- Axle lift/axle load simulation option

VLT-SW-NL-APK2/5t-CAR-Lift

Software for brake testers up to 5000 kg axle weight, consisting of

- Basic software light vehicles
- Measurement according to Dutch regulations (RDW)
- Dutch language
- 4x4 Ooption
- Pedal force measurement option
- Trailer/caravan testing with lift/axle load simulator

Software Packages



VLT-SW-UK-MOT/5t

Software for brake testers up to 5000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to UK regulations (DVSA)
- English language
- 4x4 Option
- Applied test option
- VLT Connect (MTS connection)

VLT-SW-UK-MOT/16t VLT-SW-UK-MOT/20t VLT-SW-UK-MOT/24t

Software for brake testers up to 16000, 20000, 24000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to UK regulations (DVSA)
- English language
- 4x4 Option
- Applied test option
- 2 Measuring directions option
- VLT Connect (MTS connection)

VLT-SW-NIR-PTI/14t

Software for brake testers up to 14000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Northern Ireland regulations
- English language
- 4x4 Option

VLT-SW-UK-MOT/16t-Lift

Software for brake testers up to 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to UK regulations (DVSA)
- English language
- 4x4 Option
- Applied test option
- 2 Measuring directions option
- Axle lift/axle load simulation option
- VLT Connect (MTS connection)

VLT-SW-NIR-PTI/14t-Lift

Software for brake testers up to 14000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Northern Ireland regulations
- English language
- 4x4 Option
- Axle lift/axle load simulation option



VLT-SW-RO-PTI/2,5t VLT-SW-RO-PTI/5t

Same as non-country specific version, but with Romanian language

VLT-SW-RO-PTI/14t VLT-SW-RO-PTI/16t

Same as non-country specific version, but with Romanian language and air pressure measurement option

VLT-SW-RO-PTI/14t-Lift VLT-SW-RO-PTI/16t-Lift

Same as non-country specific version, but with Romanian language and air pressure measurement option

VLT-SW-CH-PTI/16t

Software for brake testers up to 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Swiss regulations
- German and French language
- 4x4 Option
- Aair pressure measurement option
- Hydraulic pressure measurement option

VLT-SW-CH-PTI/16t-Lift

Software for brake testers up to 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to Swiss regulations
- German and French language
- 4x4 Option
- Air pressure measurement option
- Hydraulic pressure measurement option
- Axle lift/axle load simulator option

Universal software versions

VLT-SW-IM-PTI/2,5t VLT-SW-IM-PTI/5t

Software for brake testers up to 2500 or 5000 kg axle weight, consisting of

- Basic software light vehicles
- Measurement according to VLT standard regulations
- English language
- 4x4 Option

VLT-SW-IM-PTI/14t VLT-SW-IM-PTI/16t

Software for brake testers up to 14000 or 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to VLT standard regulations
- English language
- 4x4 Option

VLT-SW-IM-PTI/14t-Lift VLT-SW-IM-PTI/16t-Lift

Software for brake testers up to 14000 or 16000 kg axle weight, consisting of

- Basic software heavy vehicles
- Measurement according to VLT standard regulations
- English language
- 4x4 Option
- Axle lift/axle load simulator option

Software modules for brake testers (basic software)

Product number	EU Vehicle Categories	For countries	Description, max axle weight
VLTSW60401	L1e, L3e		Motorcycles
VLTSW60402	L2e, L4e, L5e, L6e, L7e		Trikes, quads
VLTSW60403/025	M1. M2, N1, O2	all, excl. UK	Cars, max 2.5 t
VLTSW60403/050	M1. M2, N1, O2	all, excl. UK	Cars, max 5 t
VLTSW60404/050	M1. M2, N1, O2	all, excl. UK	Cars, caravans, tow trailers, max 5 t
VLTSW60404L/050	M1. M2, N1, O2	all, excl. UK	Cars, caravans, tow trailers, max 5 t, brake tester with lift or load sim.
VLTSW60405/140	M1, M2, M3, N1, N2, N3, O2, O3, O4	all, excl. UK	Heavy vehicles, max 14 t
VLTSW60405/160	M1, M2, M3, N1, N2, N3, O2, O3, O4	all, excl. UK	Heavy vehicles, max 16 t
VLTSW60405/200	M1, M2, M3, N1, N2, N3, O2, O3, O4	all, excl. UK	Heavy vehicles, max 20 t
VLTSW60405L/140	M1, M2, M3, N1, N2, N3, O2, O3, O4	all, excl. UK	Heavy vehicles, max 14 t, brake tester with lift or load sim.
VLTSW60405L/160	M1, M2, M3, N1, N2, N3, O2, O3, O4	all, excl. UK	Heavy vehicles, max 16 t, brake tester with lift or load sim.
VLTSW60405L/200	M1, M2, M3, N1, N2, N3, O2, O3, O4	all, excl. UK	Heavy vehicles, max 20 t, brake tester with lift or load sim.
VLTSW60408/160	M1, M2, M3, N1, N2, N3, O2, O3, O4	UK	Heavy vehicles, max 16 t
VLTSW60408/200	M1, M2, M3, N1, N2, N3, O2, O3, O4	UK	Heavy vehicles, max 20 t
VLTSW60408/240	M1, M2, M3, N1, N2, N3, O2, O3, O4	UK	Heavy vehicles, max 24 t
VLTSW60408L/160	M1, M2, M3, N1, N2, N3, O2, O3, O4	UK	Heavy vehicles, max 16 t, brake tester with lift or load sim.
VLTSW60408L/200	M1, M2, M3, N1, N2, N3, O2, O3, O4	UK	Heavy vehicles, max 20 t, brake tester with lift or load sim.
VLTSW60408L/240	M1, M2, M3, N1, N2, N3, O2, O3, O4	UK	Heavy vehicles, max 24 t, brake tester with lift or load sim.
VLTSW60410	T1, T2, T3, T4, T5, R1, R2, R3, R3, S1, S2		Brake tester for agricultural and similar vehicles, max 16 t
VLTSW60410L	T1, T2, T3, T4, T5, R1, R2, R3, R3, S1, S2		Brake tester with lift or load sim for agricultural and similar vehicles, max 16 t

All kinds of other software solutions on request, such as:

- Optional software modules for brake testers (e.g. 4x4 testing. 2 measuring directions, pendle axle test)
- Multiple legal standards
- Extra language packs

- Software modules for connecting to government database
- Extra functionality for tyre inspection system
- Resonance test for suspension testers



Set nr. 80

Complete emission test kit for Dutch APK2 (PTI):

- VLT-E8104
- 4-Gas analyser (16)
- VLT-EA81NL Accessory kit (16) rpm sensor oil temperature sensor
- First calibration, with calibration certificate

Set nr. 80b



VLT-E9210 + VLT-EN94pkw

VLT-EA92NL





VLT-EA81NL

Complete emission/diesel smoke test kit for Dutch APK2 (PTI):

- VLT-E8104
- 4-Gas analyser (16)
- VLT-EA81NL
 Accessory kit (16)
- VLT-E9210
 Diesel smoke cell (16)
- VLT-EA92NL
 Accessory kit (16)
- VLT-EN94pkw
- Zero emission cabinet (17)
- First calibration, with calibration certificates



Diesel smoke test extension kit for VLT-E8104 **Dutch APK (PTI):**

- VLT-E9210
 Diesel smoke cell (16)
- VLT-EA92NL
- Accessory kit (16)
- VLT-EC92NL
 First calibration, with certificate (diesel)
- VLT-EN94pkw
 Zero emission cabinet (17)
- First calibration, with calibration certificate

Complete Emission Test Kits



Most complete test kit for Dutch **APK (PTI):** Set nr. 80NL

■ VLT-E8104 Emission analyser (16)

- VLT-E9210 Diesel smoke cell (16)
- VLT-E9700 Particle counter (18)
- VLT-E8901 Trolley (16)
- VLT-EN94pkw Zero emission cabinet (17)

Complete emission/diesel smoke test kit for Belgium: Set nr. 80BE

- VLT-E8104 4-Gas analyser (16)
- VLT-E9210
 - Diesel smoke cell (16)
- VLT-ENp/lkw Zero emission cabinet (17)
- VLT-ET8901 Trolley (16)
- VLT-EA81BE Accessory set, incl. pc, monitor,
- special software for Belgium
- First calibration, with calibration certificate





Complete emission/diesel smoke test kit for UK: Set nr. 80UK

Particle counter test

Particle counter (18)

First calibration, with

calibration certificate

kit for Dutch APK:

■ VLT-E9700

■ VLT-E8104

Set nr. 80PN

- 4-Gas analyser (16)
- VLT-E9210 Diesel smoke cell (16)
- VLT-ENp/lkw Zero emission cabinet (17)
- VLT-ET8901 Trolley
- VLT-EA81BE Accessory set, incl. pc, monitor, special software for UK
- First calibration, with calibration certificate



Vehicle Inspection Starter Kits



Set nr. 80b emission/diesel smoke set (80)



VLT2422-G6 roller brake tester (*30*) incl. pedal force transducer, subframe, RF remote control, LED monitor







32" LED monitor for roller brake tester



Set nr. 80NL emission/diesel smoke/ particle measurement set (81) VLT-EOBD2012 universal scan tool (17)





VLT-HBT7457L headlight beam tester (20)



VLT2433-G6

roller brake tester (30) incl. axle weighing system incl. roller locking device incl. counter rotating rollers (4x4 test) *VLTPT1032* pedal force transducer (50) *VLTBIC2409* subframe





16 Inspections/Day



Complete Installation Examples



32" LED monitor for roller brake tester



Set nr. 80NL emission/diesel smoke/ particle measurement set (81) VLT-EOBD2012 universal scan tool (17) VLT-ERPM300E rpm tester (17)





VLT-HBT7457L

headlight beam tester (20)

VLT3972 tyre inspection system (26)



VLT4233-G6/880/2600 roller brake tester (32) incl. axle weighing system incl. roller locking device incl. counter rotating rollers (4x4 testing) VLTPT1032 pedal force transducer (54) VLTBIC5009/880 subframe









32 Inspections/Day







Set nr. 80NL emission/diesel smoke/ particle measurement set (81) VLT-EOBD2012 universal scan tool (17) VLT-ERPM300E rpm tester (17)





VLT-HBT7457L

headlight beam tester (20)

VLT3972 tyre inspection system (26)



VLT3673F/4222-G6 suspension tester + roller brake tester (29) incl. axle weighing system incl. roller locking device incl. counter rotating rollers (4x4 testing) VLTPT1032 pedal force transducer (54) VLTBIC365009 subframe VLTA501106 cover plates







Complete Installation Examples





monitor 32" (3x)

Set nr. 80NL emission/diesel smoke/ particle measurement set (81) VLT-EOBD2012 universal scan tool (17) VLT-ERPM300E rpm tester (17)





VLT3972

tyre inspection system (26)



VLT3673F/4222-G6 suspension tester + roller brake tester (*29*) with options



VLT-HBT0936MK3/TL autom. headlight beam tester (*21*), incl. 4.5 m rail and protective frame

VLT-HBTA0909 drive-in sensor set (14) data entry console (14) above carriage inspection tablet (14) licence plate recognition system (14)





160 Inspections/Day





monitor 32" (3x)

Set nr. 80NL emission/diesel smoke/ particle measurement set (81) VLT-EOBD2012 universal scan tool (17) VLT-ERPM300E rpm tester (17)





VLTWPD9143 wheel play detector (73)



VLT3972 tyre inspection system (26)



VLT3673F/4222-G6 suspension tester + roller brake tester (*29*) with options



VLT-HBT0936MK3/TL autom. headlight beam tester (*21*), incl. 4.5 mtr rail and protective frame

VLT-HBTA0909 drive-in sensor set (14) data entry console (14) above carriage inspection tablet (14) licence plate recognition system (14)





Complete Installation Examples



BPJ-VA15APK pit jack 15000 kg lifting capacity 770 mm stroke (69)

VLT9143 play detector manual operation, 8 movements (74) incl. subframes VLT9005T2 incl. lamp/remote control

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VLT-E9200 diesel smoke tester (16) VLT-EA92NL accessory kit (16) VLT-EN94p/lkw zero emission unit (17) VLT-ERPM300E rpm meter (17)



mmm huun 6 x 20 m

VLT-HBT7457L

headlight beam tester (20)



VLT14033-G6 roller brake tester (36) incl. readout 43" incl. 4x4 testing incl. roller locking device incl. pc keyboard and printer VLTPT1063 air pr. transducers (2x) (54) VLTBIF14003 subframe (suitable for axle load simulator cylinders) (37)







12 Inspections/Day



VLT-HBT7457L headlight beam tester (20)

BPJ-VA15APK pit jack 15000 kg lifting capacity 770 mm stroke (*69*)



VLT-E9200 diesel smoke tester (16) VLT-EA92NL accessory kit (16) VLT-EN94p/lkw zero emission unit (17) VLT-ERPM300E rpm meter (17)





VLT9154PRCRF/5M play detector programmable, 16 movements (74) incl. subframes VLT9005T2 incl. lamp/remote control





VLT16233-G6 roller brake tester (36) incl. readout 43" incl. 4x4 testing incl. roller locking device 3 air pressure gauges VLTPT1063 (54) incl. VLTBIF14003 subframe (37) incl. VLT18531/5M axle load simulator (50)









Complete Installation Examples



BPJ-VA15APK pit jack 15000 kg lifting capacity 770 mm stroke (*69*)





VLT9152PRRF play detector programmable, 16 movements (74) incl. subframes *VLT9005T2* incl. lamp/remote control



VLT14033L-G6B roller brake tester with integrated axle lift (42) incl. readout 43" incl. 4x4 testing incl. roller locking device 3 air pressure gauges VLTPT1063 (54) incl. pc keyboard incl. VLTBIF16273 subframe (47) with tie-down facilities





16 Inspections/Day



BPJ-VA15APK pit jack 15000 kg lifting capacity 770 mm stroke (*69*)



VLT9152PRRF play detector programmable, 16 movements (74) incl. subframes VLTBIF9005T2 incl. lamp/remote control





VLT-E9200 diesel smoke tester (16) VLT-EA92NL accessory kit (16) VLT-EN94p/lkw zero emission unit (17) VLT-ERPM300E rpm meter (17)







VLT-HBT7457L headlight beam tester (20)

VLT16233L-G6 roller brake tester with integrated axle lift (42) incl. readout 43" incl. 4x4 testing incl. roller locking device 3 air pressure gauges VLTPT106 3 (54) incl. VLTBIF16273 subframe (47) with tie-down facilities







Complete Installation Examples





VLT-HBT74574R headlight beam testerincl. 5 m rail (20)

All mentioned equipment DVSA approved



VLTBIF14027/T3 subframe with side guards (39)



VLT16733-G6 roller brake tester 800 / 4000 kgf 16000 kg applied test 5.5 / 11 kW 1.3 / 2.6 km/h (38)



readout cabinet 43" led display high luminance panel





VLTWPD9143 wheel play detector (74) max axle weight 20000 kg stroke 100 mm remote control with lamp

entry console (14) LED monitor keyboard and mouse pc with software and complete DVSA database printer compartment



Complete Installation Examples





VLTWPD9152 wheel play detector (74) programmable, 16 movements incl. lamp/remote control





pit safety scanner (68)

pit jack (69)



VLT14033L-G6 roller brake tester (42) with integrated axle lift, full GOCAconfiguration incl. readout 43" incl. 3 air pressure gauges VLTPT1063 (54) incl. VLTBIF16273 subframe (42) with tie-down facilities





VLT-E8104 4-gas analyser (16) incl. diesel smoke cell (16) incl. zero emission cab. (17) incl. monitor, keyboard Incl. BE software





VLTWPD9033 wheel pay detector (73) programmable, 16 movements incl. subframes VLTBIF9003T2 incl. lamp/remote control

VLT3673F/4233-G6

suspension tester + roller brake tester (29) incl. phase shift measurement incl. axle weighing system incl. roller locking device incl. counter rotating rollers (4x4 testing) incl. pedal force transducer (54) incl. subframe VLTBIF364205/730 incl. cover plates





Integrated Test Lane Examples

2 Test lanes for light and medium weight vehicles

Capacity light/medium weight vehicles per lane based on:

- 250 Days/year
- 8 Hours/day
- Min. lane dimensions 6 x 30 m
- 3-4 Test stages, 3 vehicles under test simultaneously (20 vehicles/ hour)

40,000 vehicles/year/lane

Setup shown here:

80,000 vehicles per year



2 Test lanes for light and medium weight vehicles, 1 test lane for heavy vehicles



Capacity light/medium weight vehicles per lane based on:

- 250 Days/year
- 8 Hours/day
- Min. lane dimensions 6 x 30 m
- 3-4 Test stages, 3 vehicles under test simultaneously (20 vehicles/ hour)

40000 vehicles /year/lane

Capacity heavy vehicles per lane based on:

- 250 Days/year
- 8 Hours/day
- Min. lane dimensions 6 x 36 m
- 3 Test stages, 2 vehicles under test simultaneously (8 vehicles/hour)

16,000 vehicles/year/lane

Setup shown here:

96,000 vehicles per year



4 Test lanes for light and medium weight vehicles, 2 test lane for heavy vehicles



Setup shown here:

192,000 vehicles per year

16,000 vehicles/year/lane

 3- 4 Test stages, 3 vehicles under test simultaneously (20 vehicles/ hour)

40,000 vehicles/year/lane

simultaneously (8 vehicles/hour)



7 Test lanes for light and medium weight vehicles, 3 test lane for heavy vehicles

- Min. lane dimensions 6 x 36 m
- 3 Test stages, 2 vehicles under test simultaneously (8 vehicles/hour)
- 8 Hours/day
- Min. lane dimensions 6 x 30 m
- 3-4 Test stages, 3 vehicles under test simultaneously (20 vehicles/ hour)

Setup shown here:

328,000 vehicles per year

16,000 vehicles/year/lane

40,000 vehicles/year/lane





A VLT integrated test lane does not have one single test lane computer, but most machines have their own dedicated computer. These computers make it possible for the equipment to have all the necessary functionality that they need to operate in stand-alone mode. This also makes it easy to integrate your stand-alone equipment later on, or to add extra equipment later. It also has the advantage that, in case one computer fails, the rest of the equipment can continue to function normally.

In order for all the machines to work together in a test lane, they are connected to a network. Some inspections are software only, such as the visual inspections. They do not require their own computer, but run directly on the server.



The test station server (TSS) is what makes a VLT integrated test lane really integrated.

An integrated test lane is essentially a collection of (stand-alone) machines that are all connected to and controlled by a server.

Multiple test lanes in a test station can be connected to that server, hence the name 'station server'.

The station server also holds the databases with test results, vehicle data, etc.

Tasks handled by the TSS:

- Taking care of the waiting list (list of vehicles arriving at the test station).
- Sending jobs to the equipment of the appropriate test lanes (heavy, light, etc.).
- Collecting the results from all the connected test lane equipment and storing them in a database.
- Running optional test station management software (TMPS, for making statistical reports on performance of equipment and staff, maintenance planning, etc.).
- Optional communication with company or government database.
- Generating and printing the test reports.

Options:

- Uninterrupted power supply
- Failover server

Integrated Test Lanes, Station Server

- Connection to government system
- TMPS (management software)

Testlane Maintenance Productivity System

The VLT Testlane Management Productivity System (TMPS) is a software package for use with VLT inspection Lanes/stations.

Key features:

- It allows the station management to monitor performance of equipment and personnel.
- It allows inspectors to view the complete inspection history of vehicles.
- It allows technicians to view and plan maintenance and calibration.
- Permissions set by user access level.
- Access via web browser.
- View data of all test lanes in a station, data of multiple stations.
- Filter data on lane, equipment, date, inspector, vehicle, etc.
- Set warnings for calibration due dates.
- Generate all kinds of statistical reports, such as end-of-day summaries.

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43

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stallation date	Service type	Interval	Last service date	Next service date	Remarks
1-0ct-2014	Calibration	3 Months	20+0ct-2021	20-Jan+2022	Maintenance, inspection and calibration to menufact specification
1-001-2016	Caldration	.3 Months	20-0ct-2023	20-Jani-2022	Maintenance, inspection and calibration to manufact specification
15901-2016	Celibration	3 Months	20-Oct+2021	20-Jan-2022	Maintenance, inspection and calibration to manufact specification
10ct-2016	Maintenance	3 Montha	20-Oct-2021	20-Jan-2022	Small interval for inspection and in some cases maintenance
-Oct-2016	Calibration	6 Months	20-0ct-2021	20- Apr-2022	large interval for calibration
-0ct-2016	Maintenance	3 Montha	20-0ct-2021	20-Jan-2022	Small interval for inspection and in some cases maintenance
-021-2016	Calibration	6 Months	20-0ct-2021	20- Apr 2022	large interval for calibration

	And		Mileag	e: 383956
	inspection hyper	Attende	Inspection date	c 02-Jan-2021
	Stature	1301, Mierozy	Inspection started	11:29:29
	Gene	1301020, LV Lane 3	Inspection ended	11:38:58
	inpute.	MUST DIS INCOMENSALS		
ACT.	Aread Con	Law 1301020 LV Lane 3 Started, 11 20.2	C Presidents water and the	
\$\$7	Real Cont	Later 1301020 LV Later 3 Statutes 11 Aug	9 Completed 11:29:31 Test duration: 00:00:02	Performed by: Hilling and Annual Annual
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IMT	State Con	LAUNARI LV Lane 3 Startad 11:34.07	Completed 11-38-19 Test duration	reformed by. Hear and the second second
K)	and the second se	Lane: 1301000; LV Lane 3 Sturtled: 11 35 59	Completed: 11-35:45 Test duration: 00:02:45 Completed: 11-38:19 Test duration: 00:04:12 Completed: 11-36:19 Test duration: 00:00:20	Performed by: Here are set of the
	Sec.2	Lane 1301020 (V) ma to ma	11:36:19 Test duration: 00:00:20	Davis (Militari)



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