

VEHICLE INSPECTION
TESTERS



Roller Brake Tester

VBT-3T/10T/15T



Load cell



Chain



Motor



Rollers



VIS-Check
LED control unit



VIS-Pro
PC control unit

Product Features

We provide a wide range of outstandingly robust and easy to operate brake testers for every vehicle type including cars, commercial vehicles, trucks, buses, tractors, trailers as well as 4x4 drive vehicle and weight class. The VBT, roller brake tester is a modern equipment for measuring of the brake forces at each wheel end, axle, or for the entire vehicle. The roller brake tester is equipped with a pneumatic lift- and brake system. Either measuring system VIS-Pro(PC type console) or VIS-Check should be selected.

VBT consists of a mechanical floor unit which contains electrical motors, two independent sets of measuring rollers, brake force transducers and additional safety sensors. The driving rollers operate at a low (known) speed using a gearbox and motor arrangement and during a test measurements of the maximum braking force are taken by applying the vehicle brakes which induces a reaction force on the electric motor itself. An electric transducer with strain gauges then measures the individual induced forces which are acting during the deceleration phase in order to calculate the individual braking forces for each wheel. In order to minimize any inaccuracy and variation in the measurement, the roller diameter is sufficiently large to reduce the effects of the mechanical relaxation, or flexing, of the tire itself. A special coating on the rollers is designed to be very wear resistant and provide good friction values, both in wet and dry conditions.

- Especially suitable for acceptance and diagnostic lanes
- Roller beds galvanized and painted
- Strong and reliable in ground type

Technical Specifications

Description		Roller Brake Tester		
		VBT-3T	VBT-10T	VBT-15T
Model		VBT-3T	VBT-10T	VBT-15T
Max axle load		3 ton	10 ton	15 ton
Braking force		1,500 kgf	6,000 kgf	10,000 kgf
Roller	Diameter	185 mm	185 mm	210 mm
	Length	850 mm	1,200 mm	1,200 mm
	Revolution RPM	7 rpm	8 rpm	9 rpm
	Wheel track	1,420 mm	1,850 mm	1,850 mm
Cylinder	Diameter	150 mm	255 mm	300 mm
	Stroke	110	110	110
	Air pressure	10 kgf/cm ²	10 kgf/cm ²	10 kgf/cm ²
Sensor		Load cell	Load cell	Load cell
Drive motor		2 x 0.75 Kw	2 x 2.2 Kw	2 x 2.4 Kw
Motor power		220/380V, 50/60Hz, 3PH	220/380V, 50/60Hz, 3PH	220/380V, 50/60Hz, 3PH
Display power		220V, 50-60Hz	220V, 50-60Hz	220V, 50-60Hz
Dimensions		3,400x755x500 mm	4,000x800x650 mm	4,000x810x650 mm

Technical specifications are subject to changes without notice.



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VISKOR CO., LTD.

Address: #617, 1142, BEOMAN-RO, GEUMCHEON-GU, SEOUL, 08595, KOREA

T. +82 2 6959 0634 F. +82 2 6959 0635 E-mail: viskor@viskorea.com www.viskorea.com

Speedometer Tester

VST-3T/10T/15T



VIS-Check
LED control unit



Sensor



Guide bar



VIS-Pro(PC control unit)

Product Features

VISKOR VST speedometer testers are designed to test the accuracy of the speed indicator in the vehicle. The value for the speed is detected by rolling the wheels of the vehicle. The tester is composed of main body, indicator and control panel. The speedometer consists of two pairs of dynamically balanced rollers. The vehicle's wheels drive these rollers, while an electronic speed sensor measures the vehicle speed, which is continuously displayed on the screen. The speedometer is equipped with a pneumatic lift- and brake system. The speedometer has two side protection guide bar to prevent rim and tire damage.

When testing the vehicle speedometer, drive the vehicle onto the tester and make sure the driving axle is on the rollers. The roller is driving by the wheels while accelerating the vehicle. The line velocity of roller is the same as that of vehicle wheels, which is the actual vehicle speed. The instant line velocity of roller will be measured and displayed by the instrument. By comparing the values of vehicle speedometer and the result of the instant speed, the deviation of the vehicle speedometer can be obtained.

Roller line velocity will be transformed from roller rotation speed into electric signal by sensors. After catching by the Instrument, it will be calculated and displayed as vehicle actual speed. The Central Lift, which set between rollers, is to assist the vehicle drive on/off the tester. The Pneumatic Control System is composing of electromagnetism valve and air cell.

- Robust construction
- Speed-limited lift air, only lifting when wheels no running to ensure the safety during the testing and drive vehicle off the bench
- Safety guide bars in case of the rim and tire wear during high speed testing
- Roller beds galvanized and painted
- Strong and reliable in ground type

Technical Specifications

Description		Speedometer Tester		
Model		VTS-3T	VTS-10T	VTS-15T
Max axle load		3 ton	10 ton	15 ton
Max speed		120 km/h	120 km/h	120 km/h
Roller	Diameter	185 mm	185 mm	185 mm
	Length	850 mm	1,200 mm	1,200 mm
	Wheel track	1,420 mm	1,850 mm	1,850 mm
Cylinder	Diameter	150 mm	255 mm	300 mm
	Air pressure	10 kgf/cm ²	10 kgf/cm ²	10 kgf/cm ²
Sensor		Encoder	Encoder	Encoder
Voltage		380V/50Hz/3PH	380V/50Hz/3PH	380V/50Hz/3PH
Dimensions		2,575x800x450 mm	3,210x850x550 mm	3,460x850x550 mm

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Side Slip Tester

VSS-3T/10T/15T



Sensor



VIS-Check
LED control unit



VIS-Pro
PC control unit

Product Features

Vehicle Side Slip Tester inspects the matching between wheel camber and wheel Toe-In and Toe-Out while the vehicle is driving straightaway. When the vehicle is passing over the Sideslip Plate, the plate is pushed to the left or the right depending on the wheel tracking.

Any deviation will be sent to computer by the displacement sensor and appeared in sideslip volume and sideslip direction.

VISKOR side slip tester, VSS tests for tire wear and determines if the wheel alignment needs to be checked. It indicates how much the tire is being dragged sideways and gives a fast indication of the effective dynamic toe.

There are two kinds of control unit. VIS-Check is the economical LED control unit. VIS-Pro is the PC based control unit.

- Using of reinforced steel, strengthen and durable structure body
- Setting of reference limits for axles and their interpretations
- Plates coating(corrugated steel)
- Construction protected against corrosion
- It can be integrated with 2 more equipment by VIS Control System
- Display Indicator (PC or LED indicator)

Technical Specifications

Description		Side Slip Tester		
Model		VSS-3T	VSS-10T	VSS-15T
Max axle load		3 ton	10 ton	15 ton
Measuring range	IN / OUT	15 mm	15 mm	15 mm
Trade plate	Size	750x500 mm	750x500 mm	750 x 500 mm
	Wheel track	1,420 mm	1,850 mm	1,850 mm
Sensor		Potentiometer	Potentiometer	Potentiometer
Power source		110V/220V, 50-60Hz	110V/220V, 50-60Hz	110V/220V, 50-60Hz
Dimensions		2,540x610x150 mm	2,880x610x150 mm	3,180x610x150 mm

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ABS Measuring System(Automatic, Manual)

VIS-Pro(Automatic PC Type)



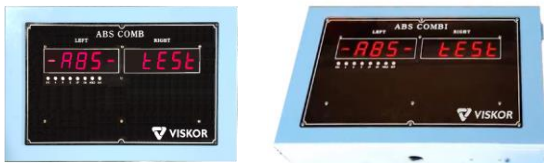
Product Features

The **VIS-Pro** is the new modern VISKOR freestanding console desk for ABS test lanes. The VIS-Pro is standard supplied with a PC with Windows and VIS-Pro software, 24" widescreen PC monitor, printer, keyboard, mouse, infra-red remote-control handset, UPS, secondary 27" widescreen monitor with the column stand.

The VIS-Pro is designed as a working desk for the operator to enter customer data, analysis test results, make a printout or transfer data. A parallel display can be connected. Real time values are displayed in parallel to the secondary monitor and can be used by the operator as a read-out unit while testing a vehicle.

- Automatic operating
- User friendly operation menu
- Test of Axle-load/wheel resistance/ Max braking force/ Side slip test / Speedometer test
- Customized result report and graph
- Auto Drive-off roller program
- Software: a powerful software system integrated of Login in program, Operation control, System configuration, Result print, User management, Database management, Calibration program, etc.

VIS-Check(Manual measurement)



VISKOR, **VIS-Check** is the measuring system and display for ABS testers(Roller brake tester VBT, Speedometer tester VST and Side Slip tester VSS). LED result display, the most cost saving and effective stand alone body design.

- LED real time display of inspection data
- Cost saving and effective software for ABS
- Compact design
- Easy to use
- Simple calibration mode
- One key to start, auto operation mode
- Power 220VAC
- Available for wall mount

Technical Specifications

Description	ABS Measuring System	
Model	VIS-Pro	VIS-Check
Control for	Roller brake tester VBT-3T/10T/15T Speedometer tester VST-3T/10T/15T Sideslip tester VSS-3T/10T/15T	Roller brake tester VBT-3T/10T/15T Speedometer tester VST-3T/10T/15T Sideslip tester VSS-3T/10T/15T
Component	Console, System module, PC, Monitor, Second monitor, Column stand, Printer, Keyboard, Mouse, UPS, Remote-controller	Standalone control box
Display	PC Monitor, Second Monitor	LED
Power source	220V, 50/60Hz	220V, 50/60Hz
Dimensions	600 x 600 x 1,500 mm (console)	450 x 280 x 90 mm
Weight	100 kg	4 kg

Technical specifications are subject to changes without notice.



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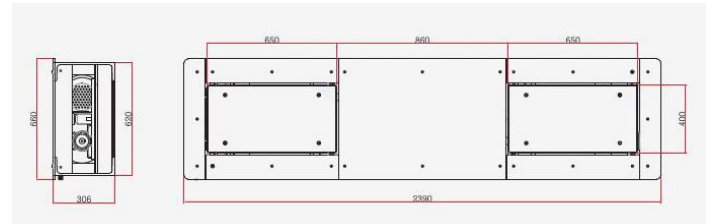
Address: #617, 1142, BEOMAN-RO, GEUMCHEON-GU, SEOUL, 08595, KOREA

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E-mail: viskor@viskorea.com www.viskorea.com

Suspension Tester

VSP-3.5T



Product Features

The suspension tester is a device used to inspect the shock absorption performance in vehicles with total weight up to 3.5 T. It can work as a part of the integrated VIS-Pro diagnostic test lane or as a stand-alone device. The test method of the suspension tester analyses a vehicle response under the provoked regular vibrations. The shock absorber parameters are measured on the basis of the ESUMA principles. The suspension tester determines the grip of wheels as a percentage.

Internal protection mechanisms allow trucks to drive over the testing units without additional covers.

- Suspension test result evaluation according to any of the three implemented test methods (EUSAMA, Minimum phase shift and Damping ratio). None of these three test methods requires comparing to the database of the vehicle/damper specific reference values.
- EUSAMA value for each wheel in %. EUSAMA evaluates minimum adhesion value between the wheel and the road.
- Minimum phase shift for each wheel in degrees. Minimum phase shift is the extension / alternative method to the EUSAMA test method, suitable also for a very light car testing. In engineering similarly as the Damping ratio, Phase shift is also used as a measure of damping properties of oscillating systems.
- Damping ratio for each wheel (dimensionless quantity). This is an alternative method to the EUSAMA, where 'efficiency' of dampers is evaluated directly. In engineering the Damping ratio is a generally used dimensionless measure describing how oscillations in a system (wheel on the car body) decay after disturbance.
- Tire stiffness for each wheel in N/mm, indicating the tire pressure.

Technical Specifications

Description	Suspension Tester
Model	VSP-3.5T
Max axle load	3.5 ton
Motor power	380V / 3PH x 2ea
Testing Frequency	23 Hz
Amplitude	6 mm
Plate dimension	650 x 400 mm
Power supply	AC220V, 50/60Hz
Dimensions	2,390 x 660 x 125 mm

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Axle Play Detector

VPD-3T/10T/15T



Product Features

VISKOR VPD Play Detector is designed to check quickly and efficiently most steering and suspension components. It enables a technician quickly to detect play and wear in the wheel guiding and steering parts of heavy goods vehicles and public service vehicles. A vehicle often shows wear and tear in ball joints, bushings, fixations, pivot points, link bolts and shock absorber mountings. Most worn or damaged components can be identified before they pose problems.

The VPD consists of control unit with hydraulic power unit, a control lamp and two moving platforms, each with a plate. Each platform is actuated by two hydraulic cylinders.

- Provided with a mechanism ensuring a movement for detecting sets of constituents and suspension
- Thrust plate force ensuring a smooth operation for an axle load
- Wireless remote control
- Remotely control two test plates to do longitudinal and lateral movement
- check the clearance of automobile horizontal tie rod, ball head, steering arm, Xuan wheel bearing, etc.
- Two plates, hydraulic system and electric control system (with wireless remote controller and flashlight)

Technical Specifications

Description	Axle Play Detector		
Model	VPD-3T	VPT-10T	VPD-15T
Max axle load	3 ton	10 ton	15 ton
Direction of movement	6 movements (Left plate: Front, Back, Left, Right Right plate: Front, Rear)	6 movements (Left plate: Front, Back, Left, Right Right plate: Front, Rear)	6 movements (Left plate: Front, Back, Left, Right Right plate: Front, Rear)
Movement of plates	-50mm / 50mm	-50mm / 50mm	-50mm / 50mm
Motor	2.2 kW	3 kW	3 kW
Displacement force of plate	20kN	50kN	50kN
Plate dimension	750 x 500 mm	1,000 x 750 mm	1,200 x 850 mm
Power supply	380V	380V	380V
Control unit dimension	50 x 38 x 60 mm	57 x 40 x 78 mm	57 x 40 x 78 mm

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Free Roller Set

VFR-10T/15T



Product Features

VISKOR, Free roller VFR is needed for testing speed on Speedometers for vehicles with double drive axles and can be used for older types of vehicles with double drive rear axles in combination with a transmission handbrake on the propeller shaft.

The set of free rollers, mounted in front of and behind the roller brake tester, the speedometer tester or tacho control unit or the chassis dynamometer, facilitates the tests of vehicles with rigid all-wheel drive in a considerable way.

- Robust construction for a long life time
- Used for Speedometer tester

Technical Specifications

Description	Free Roller	
	VFR-10T	VFR-15T
Model	VFR-10T	VFR-15T
Max axle load	10 ton	15 ton
Max testing speed	120 km/h	120 km/h
Roller diameter x Length	185 x 1,000 mm	185 x 1,000 mm
Roller track	225 mm	225 mm
Hydraulic supply	From speedometer pump	From speedometer pump
Air pressure	10 bar	10 bar
Dimensions	3,400 x 850 x 550 mm	3,700 x 850 x 600 mm

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