



GARAGE EQUIPMENT
since 1922



Tecalemit DE/9700 Commercial Vehicle Brake Tester

The DE/9700 Commercial vehicle brake tester from Tecalemit is our 4th Generation heavy duty brake tester and is the first brake tester designed specifically to meet the UK ATF testing specifications as set out by the DVSA. Designed and built to operate in the most demanding environments, the DE/9700 is manufactured to the highest standards using the very best materials and components.



Configuration

The DE/9700 is a bi-directional brake tester with extra large rollers to ensure continuous contact with road wheels regardless of tyre tread design, and the new roller bed design reduces the length of chain drive to eliminate the need for frequent tension adjustment.

The DE/9700 can be installed either in a single excavation or with the roller beds 'split' and located either side of an inspection pit. The heavy duty roller bed design includes, as standard, two high performance 15kW motors and a soft start feature which are only usually available as upgrades. Should you wish to add the axle load simulation accessory, there are two options available - a push down system or a hydraulic pit mounted pull down system.



Overview

DE/9700 Commercial Vehicle Brake Tester from Tecalemit has been developed and approved for use in UK Authorised Testing Facilities (ATF) and for general testing of vehicle braking systems. Additionally, the brake tester is approved for UK Automated Test Lane MOT testing of Class IV, VII & VL category vehicles.

The DE/9700 incorporates many technical features specifically to ensure enduring performance is high throughout test lanes. The motor/gearbox assembly includes an epicyclic gear system to better dissipate the sudden loads, particularly from applied brake testing. Motors are protected with power supply delivered through inverters and the motors have been raised from the floor of the pit to protect them from water ingress. Built for purpose and designed to last.



Operation

The brake tester can be operated in automatic DVSA mode using the DTp database and in automatic mode when no DTp number is available, or in manual mode allowing the operator to carry out the test to his own requirements. In 2-person operation mode the examiner controls the brake tester from the workstation cabinet, containing the PC & printer, which displays test status and results on an integral LCD monitor.

When used within an ATF, Tecalemit can supply an 'examiner to driver' communications system as part of the broader package of equipment. When being used by a single driver/tester, the DE/9700 is operated directly from the vehicle via a wireless RF remote control and the results can be displayed via an optional large, wall-mounted display screen.

Installation

The brake tester is supplied in two galvanised chassis which are bolted to a recess in the floor. Your Tecalemit technical advisor will advise on the construction of this recess, or alternatively Tecalemit can arrange this for you. The advantage of the DE/9700 is that no frames are cast into the floor, so if there is ever a need to move the brake tester a new frame does not need to be purchased.

It is the customer's responsibility to provide a 65amp capacity, 3 phase + neutral + earth 400V 50Hz supply to the brake tester and 240V sockets for the workstation and optional display screen. Tecalemit will supply 20 metres of power and signal cables; these can be extended if required.



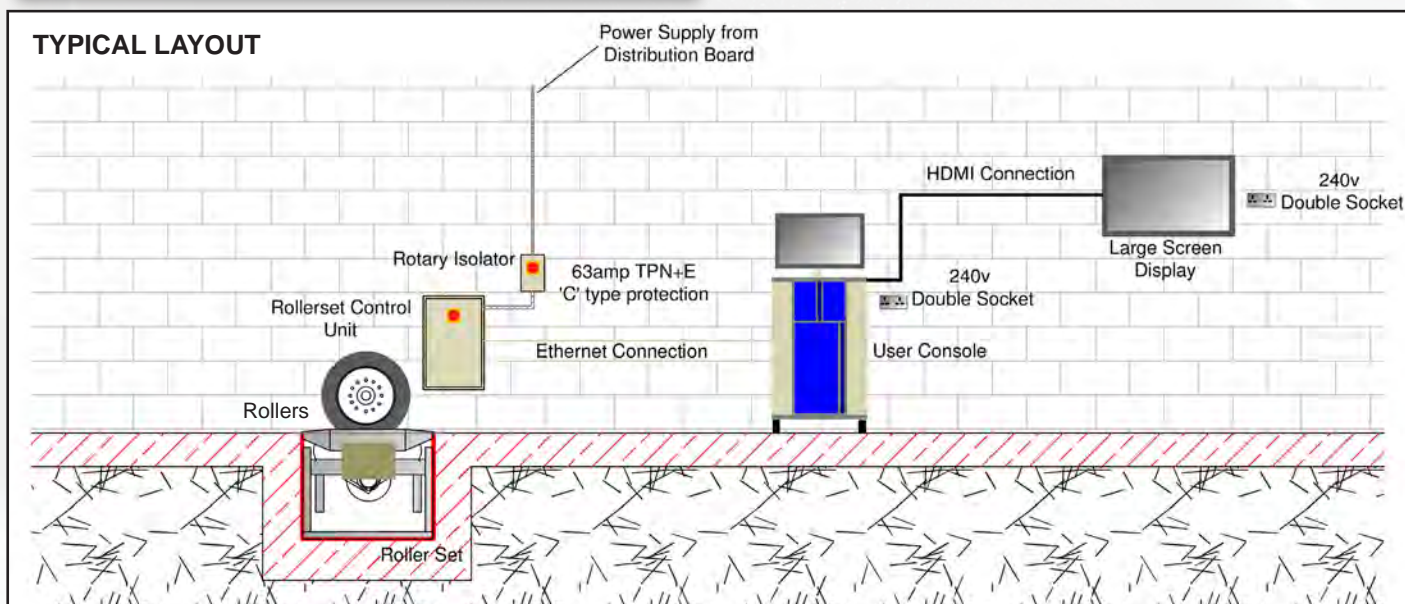
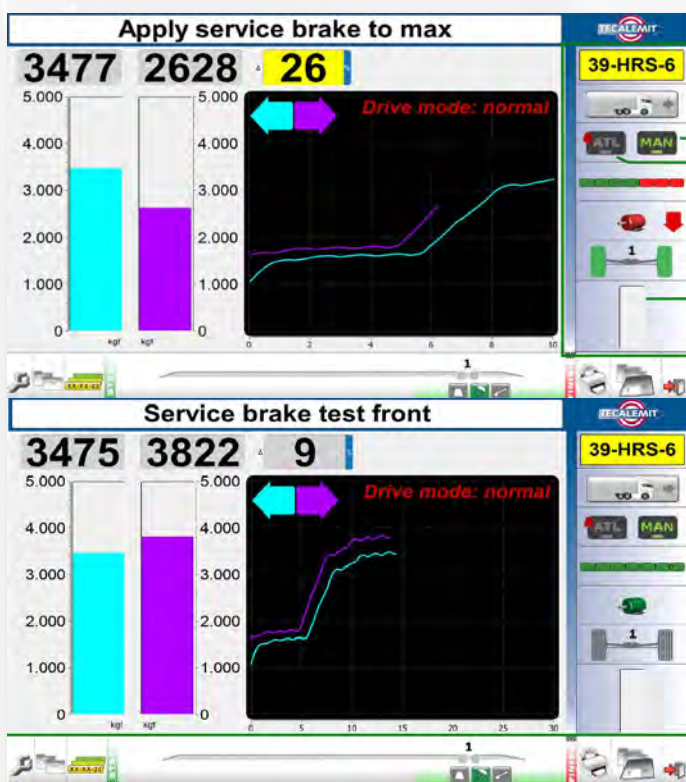
Retro-Fit

The DE/9700 brake tester can be retro-fitted into the existing Tecalemit DE/5000 or DE/9500 recesses, plus many other makes of brake tester, without any civil works.

Tacho Testing

The DE/9700 has also been developed to provide an approved platform to run a Tachograph calibration system. This electronic calibration add-on comes from experts in Tachograph technology. An encoder system generates a pulse every 1mm of rotation of the roller, allowing for highly accurate, DVSA approved calibration.

This dual-functionality concept is designed with ease of use in mind, using wireless technology and providing precise measurements ensuring maximum accuracy. It uses a laser to verify the driven wheel rotation and assist the operator in placing the reflective tape as he can see the laser on the tape as it is placed. The laser is fitted in a thick steel casing, machined from a solid block, to resist damage. The console can be configured to be a plug and play device with custom cable assemblies for wall mounting applications.



Summary

- 15kW motors with 'soft start' reduces mechanical stress to extend the life of motors and gearbox
- Roller bed design reduces length of chain drive eliminating the need for frequent tension adjustment
- Fully galvanised roller bed for corrosion resistance and durability
- Improved centre rollers ensure continuous contact with wheels regardless of tread design
- Roller lock to allow easy exit of driven axle from brake tester
- Simple, intuitive controls for operation via wireless RF remote control or PC
- Bi-directional testing
- 8-Point axle weighing
- Option of two person or single person operation
- Option of automatic or manual mode
- Brake testing to DVSA Authorised Testing Facility (ATF) standard
- DVSA ATF approved software and test program database included
- Print, save, and recall test results
- Graphical test result analysis
- Ovality and Bind assessment
- DVSA approved for Class IV, V, VL and VII MOT testing
- Conversion kits available to fit to Tecalemit DE/5000 and DE/9500 recesses, saving civil work costs

Specifications

Measuring range brake force.....	0-4000kgf
Measuring range applied brake mode.....	0-3000kgf
Measuring range weighing.....	16000kg
Maximum axle load.....	16000kg
Drive over capacity.....	18000kg
Roller speed.....	2.5km/h
Roller diameter.....	250mm
Roller length.....	1000mm
Roller distance.....	460mm
Friction roller surface.....	0.8 dry, > 0.6 wet
Motors.....	2 x 15kW (S2), 3ph 400V / 50Hz
Track.....	not less than 2600mm
between outer ends of the roller friction surfaces	
Chassis dimensions (one side)....	1370x970x600mm (LxWxH)
Chassis depth.....	795mm

Ordering Information

ATF specification Commercial Vehicle Brake Tester	DE/9700
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Options & Accessories

40" Display Screen with cables & bracket.....	OA/62456
50" Display Screen with cables & bracket.....	OA/62455
Roller Drive over safety plate (pair).....	OA/62311
Roller Guard Rail Kit.....	OA/50585
Pit Frame Edging (standard install).....	OA/62314
Pit Frame Edging (over pit install).....	OA/62314/3
Monitor Stand for Display Screen.....	OA/62316
Pit Safety System (shut off) OA PSS.....	OA/62441
Brake Tester Civil works (standard install).....	OA/62447
Brake Tester Civil works (pit install).....	OA/62448
Air Pressure Measurement System.....	OA/62446
Side Slip Meter.....	OA/62313
Civil Works for side slip meter.....	OA/62443
Axle load simulator 10t (pit install only).....	OA/62312
Load Applicator – push down.....	OA/74000
Long rail for use with above.....	OA/74000/LR
Short rail for use with above.....	OA/74000/SR
Load Applicator rail civil works.....	OA/62442

Tachograph Tester

Tecalemit can supply a complete range of Tachograph calibration accessories and all items required to set up a Tachograph test facility. Please contact our sales office for further information

Tachograph tester for DE/9700.....	OA/62520
Programming Tool.....	OA/62521



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