



# ATF Test Lanes & Commercial Vehicle Equipment

- Approved HGV & PSV Testing Equipment
- Fully Warranted Installation & Equipment
- Professional Project Management
- After-Sales Support
- General Servicing Equipment



## About Tecalemit

Tecalemit is the UK's longest established supplier of vehicle testing and servicing equipment. Tecalemit equipment can be found in daily use in workshops around the world and has a proven reputation for reliable performance and outstanding durability. All Tecalemit Test Lane equipment is manufactured in the UK or EU and is supported by our own nationwide team of Service Engineers.

Tecalemit approved Authorised Testing Facility (ATF) equipment carries full DVSA accreditation and has been developed specifically to meet the needs of both the test lane and busy servicing facilities.

The UK ATF program introduces new contractual obligations to the testing facility operator and requires a significant commitment of resource. Tecalemit is unique amongst suppliers of testing equipment in that our product offering extends to a guaranteed level of after sales support, ensuring that the commitment made by you, the operator, is backed up by an equivalent commitment from your key supplier.

Tecalemit can supply, install and support your complete ATF Test Facility. Our product range includes:

- Pre-Fabricated Inspection Pits
- Hydraulic Pit Jacks
- Brake Testers
- Emission Testers
- Wheel Play Detectors
- Headlamp Beam Testers
- All ancillary products

Tecalemit has a team of highly experienced Technical Sales Specialists and, as part of the service we offer, clients will receive free consultation and workshop planning guidance. CAD drawings can be prepared for submission to DVSA. Should you chose Tecalemit as your supplier, our range of services extends to provision of civil work and electrical contractors if required or, if you would rather use your own contractors we can work with them to ensure the site-preparation is completed to the standard required.



Tecalemit has a unique experience and understanding of UK Heavy Goods Vehicle Testing. As service provider for the GVTS network, Tecalemit appreciates the demands that a statutory testing station puts on its suppliers to deliver outstanding and reliable products and after sales support. All UK GVTS's include Tecalemit equipment and the DVSA approved equipment supplied by Tecalemit today has been developed from our unrivalled technical and engineering expertise in this specialist environment.



## MDS Combined Emission Tester

Tecalemit MDS is a modular Combined Emission Tester which as standard, incorporates a Bluetooth smoke head and a PC with Windows O/S. The MDS system can be expanded to include vehicle diagnostic units Discope 802 and DiOBD and NOX measurement.

### Key features:

- Smoke meter used by DVSA at all GVTS
- DVSA approved for all classes of MOT testing
- 1 single annual calibration for both Smoke and 4 Gas
- Gas bench requires no warm up time
- Integral Di-Speed 492 engine RPM measurement

### Technical Specification & Measurement Data

Display:	19" TFT Screen
Printer:	A4
Keyboard:	QWERTY
Operating temperature	5 – 45°C
Operating voltage	240v
Power consumption	90VA
Bluetooth	Class 1

Measurement	Range	Resolution
CO:	0 – 10%	0.001%
CO <sub>2</sub> :	0 – 20%	0.1% Vol
HC:	0 – 20,000PPM	1PPM
NOx (Optional):	0 – 5,000PPM	1PPM
O <sub>2</sub> :	0 – 25% Vol	0.001
Lambda calculation		10 RP
OIML class	00	
Opacity	0 – 100%	0.1%
Absorption (K Value)	0 – 99.99 – 1	0.001 – 1
Acceleration time	0 – 5 secs	0.005 secs
Engine speed	250 – 9900RPM	10RPM
Oil temperature	0 – 150°C	1°C

### Options & Accessories

Description	Part No
Exhaust Probe for Vertical Stack Exhaust	OA/60512/BT
Bluetooth Remote Control	OA/60555
2 Channel Scope & Component Tester	DiScope 802
ECU Communication Tool DiOBD 880	DiOBD 880
NOx version optional	AVL/B07752

Ordering information	Part number
Combined Emission Tester	TGD/MDS

MDS with diagnostic modules in Technician's Cabinet



## TD/MDS Diesel Smoke Meter

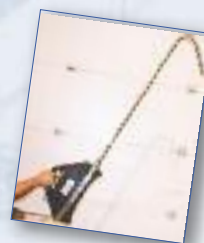
The TD/MDS incorporates a patented smoke chamber and is stored on a compact purpose designed wall mounted storage unit, which acts as a docking station and incorporates a compact printer.

The data gathered in the smoke chamber is transmitted via Bluetooth® communication to the ruggedized portable handset where data is displayed on a large backlit LCD screen. Operation of the unit could not be simpler, following clear on screen prompts.

The Smoke Head is light (3.5kg) and compact, with a single probe to cover all horizontal exhausts. For MOT testing, changes in engine speed are automatically detected, no need to measure RPM. No weekly calibration required – patented linearity test is performed automatically. The TD/MDS is suitable for all Classes of UK MOT testing.

### Key features:

- Smoke Meter as used by DVSA at all GVTS
- Patented diesel Smoke Meter technology
- Bluetooth communication to hand control
- Compact design – wall mounted storage
- Instant engine RPM recognition



### Technical Specification & Measurement Data

Display	High resolution LCD
Printer	Integral stylus printer
Keyboard	Internal function keys
Interface	PCMCIA, RS232
Operating temperature	5 – 45° C
Operating voltage	230V AC
Power consumption	90VA
Standard approvals	OIML R99, ISO 3930, ECR
R 24, IEC 801 – 1/2/3/4	
Bluetooth Hand Control	
Range	Up to 25m

Measurement	Range	Resolution
Opacity	0 – 100%	0.1%
Absorption (K Value)	0 – 9.999m4	0.001m4
Acceleration time	0 – 5 Sec	0.005sec
Engine speed	250 – 9,900RPM	
Oil temperature	0 – 150 ° C	1°C

Ordering information	Part number
Diesel Engine Smoke Meter	TD/MDS
Vertical Stack Exhaust Probe	OA/60512





## DE/9700 ATF Brake Tester

### Key features at a glance:

- 15kW motors with a 'soft start' to reduce mechanical stress which will extend the life of motors and gearbox components
- DE/9700 features Tecalemit's large LCD results display screen which provides a clear graphic display of the test process and brake force values
- The Brake Tester can be supplied in 2 man or 1 man operation format and has approval for ATF and ATL MOT testing of Class IV, VL and VII vehicles.
- Roller bed design reduces length of chain drive to eliminate the need for frequent tension adjustment
- Simple intuitive controls and operation via RF touch screen remote control or from PC workstation
- Extra-large centre rollers to ensure continuous contact with road wheels regardless of tyre tread design
- Bi-Directional testing
- User option of automatic or manual mode
- Capability for operator to construct vehicle database
- Roller lock to allow easy exit of driven axle from brake tester
- Supplied pre-loaded with latest DVSA vehicle database

The DE/9700 Brake Tester from Tecalemit is the first commercial vehicle brake tester to be designed and manufactured specifically to meet ATF testing requirements. Developed from Tecalemit's proven brake testing expertise and unique experience of UK statutory brake testing, the heavy duty roller bed design includes as standard high performance (2 x) 15kW motors and a 'soft start,' feature which generally are only available as upgrades. 8 Sensor axle weighing is integrated into the roller bed/frame system and allows for automatic brake efficiency calculations.

**Load simulation**, if required, is available as an additional cost option and can be either a push down system, as used in GVTS, or a hydraulic pit mounted pull down system.

An added feature of the DE/9700 is the DVSA approval for Class IV, VII and VL ATL/MOT testing. In addition to its use for statutory testing, the DE/9700 can be used in manual mode to carry out general brake testing and for brake performance diagnostics. The Tecalemit Supertest software allows operators to construct their own vehicle database, archiving test information for their own or customer's vehicle fleets.

As part of the service provided by Tecalemit, our experienced Technical Sales staff will consult with clients to establish the most appropriate specification and equipment installation layout for the testing facility. CAD equipment layout drawings can be prepared as well as consultation with client's civil works contractors to ensure the installation process is completed with minimum disruption and downtime. DE/9700 is the most robust, operator friendly ATF brake tester available and is supported throughout the UK by Tecalemit's own factory trained service engineers (see back page for more information).



### Operation

The DE/9700 can be used in either:

- Automatic ATF mode – using DTP Database
- Semi-automatic mode – when no DTP number is available
- Manual Mode – allows operator to carry out test to own requirements

In 2 man operation mode, the examiner controls the brake tester from the workstation cabinet which contains the printer & PC and displays test status and results on an integral 24" LCD monitor. No other brake tester carries out a complete ATF brake test in less time than the DE/9700. When used within ATF, Tecalemit can supply an 'examiner to driver' communications system as part of the broader package of equipment.

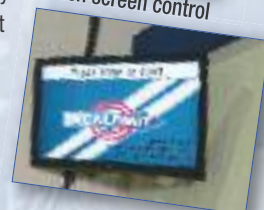
When being used by a single driver/tester the DE/9700 is operated directly from the vehicle via a touch screen RF remote control with test information. Results are displayed on a large LCD screen.



Epicyclic Gearbox



Touch screen control







## DE/9700 Brake Tester

### Specification

- Measuring range brake force: 0–4000 kgf
- Measuring range applied brake mode: 0–3000 kgf
- Measuring range weighing: 16000 kg
- Maximum axle load: 16000 kg
- Drive over capacity 18000kg
- Roller speed: 2.5 km/h
- Roller diameter: 250 mm
- Roller length: 1000 mm
- Roller distance: 460 mm
- Friction roller surface: 0.8 dry, > 0.6 wet
- Motors: 2 x 15 kW (S2), 3PH 400V / 50 Hz
- Track: not less than 2600 mm between outer ends of the roller friction surfaces
- Chassis dimensions (one side): 1370 x 970 x 600 mm (LxWxH)



### Options & Accessories

Description	Part No
Roller Guard Rail Kit	OA/50585
Pit Frame Edging (standard install)	OA/62314
Pit Frame Edging (over pit install)	OA/62314/3
Roller Drive over safety plate (pair)	OA/62311
Pedestal Mount for results display screen	OA/62316
Pit Safety System (shut off) OA PSS	OA/62441
Axle load simulator 10t (pit install only)	OA/62312
Load Applicator – push down	OA/74000
Long rail for use with OA/74000	OA/74000/LR
Short rail for use with OA/74000	OA/74000/SR
Load Applicator rail civil works	OA/62442
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

### Ordering Information

Description	Part No
ATF specification Commercial Vehicle Brake Tester	DE/9700



OA/50585 Guard rails



OA/62311 Roller cover



Workstation



## DE/7588/HGV

Tecalemit offers a DVSA approved Beam Tester for optical assessment of headlamp aim. The Beam Tester is rail mounted, manually positioned and aligned by the operator. Our DE/7588/HGV model Beam Tester includes an integral laser used to set the height position of the counter balanced optical box. This model is fast to position and set up, plus includes RS232 connectivity should data transfer be required. The unit has easy to read screens for HGV/PSV vehicles in addition to Class IV & VII Vehicles. The deep V channel rollers ensure that the Beam Testers can be easily moved and retain stability.

### Technical Specification & Measurement Data

Lens to headlamp focal length	350mm +/-150mm
Distance of lens in front of 1st rail	110mm
Maximum headlamp height	1500mm
Tolerance on aiming height	+/-10mm
Optical box size	250 x 250 x 610mm
Distance between rails	395mm
Rail recess dimensions	w100mm x d28mm
Rail depth tolerance	+/-1mm

### Options & Accessories

Description	Part No
Transverse laser alignment tool (For use with DE 7588/395/RS232/HGV)	OA/62000
Installation of Beam Tester to prepared site Includes all certification & calibration	OA/60050

### Ordering information

	Part number
Headlamp Beam Tester approved For all Classes of MOT & ATF With Laser height setting & RS232	DE/7588/395/RS232HGV



## OA/62520

The DE/9700 has been developed to provide an approved platform to run the Stoneridge Tachograph calibration system. This is a state of the art electronic calibration add-on from the UK's foremost 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 the latest wireless technology and providing precise measurements ensuring maximum accuracy. It uses a red laser detector to verify the driven wheel rotation and assists the operator in fitting the reflective tape as he can see the laser on the tape as it is fitted. The laser is fitted in a 10mm thick steel casing machined from a solid block, so as to resist damage.

The console can be configured to be a plug and play device with custom cable assemblies for wall mounting applications.

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.

### Options & Accessories

Options & Accessories	Part number
Tachograph tester for DE/9700	OA/62520
Tachograph Optimo2 Programming Tool	OA/62521







## Pre-fabricated Inspection Pits

Tecalemit Inspection Pits are pre-fabricated from 3mm mild steel sheet re-enforced and folded to provide enormous structural strength and rigidity. Each pit is externally coated in a zinc-phosphate covering to prevent corrosion and finished on the interior with a durable white gloss.

The precise pit design and dimensions are tailored to suit each installation. A typical standard specification includes:

Length	13m
Width	1.10 metres
Depth	1.65 metres
Jacking rail	150mm x 75mm PFC with flush finish
Light recess	Suitable for strip lighting as required
Sump	Full length, spillage sump at one end
Steps	At one end vertical, ladder at the other
Lights	3 x 1.5 metre 240 volt 50 Hz twin tube category 3 zone 1 lights
Air	As specified (typically 5 points, 1/2" galvanised pipe)

Frames for the Roller Brake Tester and Wheel Play Detectors can be built into the inspection pit structure if required.

The cost of the pit includes installation into an excavation prepared to Tecalemit specifications (this work can be undertaken by Tecalemit if required). Tecalemit engineers will install the pit, back fill with concrete and finish to floor level to tolerances within legislative requirements.

## Pit Jacks

For use in Tecalemit ATF Test Lanes, Tecalemit supplies a pneumatically operated hydraulic Pit Jack. The Pit Jack fully conforms with DVSA requirements and is supplied complete with a selection of lifting accessories to enable a comprehensive range of lifting solutions.

Each Jack runs on a dedicated rail. When installing a Tecalemit pre-fabricated Inspection Pit, the Jacking Rail will be built into the design of the pit. On existing Inspection Pits an appropriate rail or jacking channel must be available for the Jack to be installed.

### Key features:

- Fast approach to the lifting point
- Mechanical safety collar
- Twin adjustable/moveable hydraulic rams
- Conforms to BS EN ISO 9001:2008
- Oversize, spring loaded rollers
- Pressure relief valve to prevent overloading
- Supplied complete with accessories
  - V head height 165mm (2 of)
  - Dished head height 89mm (2 of)
  - Extension tube shoulder height 152mm (2 of)

### Technical Specifications

Capacity:	13000 – 20000kg
Rams:	2
Stroke	305mm

Ordering information	Capacity	Part number
Air operated hydraulic Pit Jack	13000kg	SS/8649
Air operated hydraulic Pit Jack	20000kg	SS/8665







## DE/7353 Wheel Play Detector

The DE/7353 hydraulic Play Detector is approved for ATF testing of Heavy Goods Vehicles (HGV) and Public Service Vehicles (PSV). The system consists of two platforms and an electro-hydraulic control unit, and is operated via a hand held control with integral lamp. The system is designed for installation and use over an Inspection Pit and can, if required, be built into a Tecalemit pre-fabricated Inspection Pit.

From the hand held control unit the operator can introduce a complete range of lateral and longitudinal movements onto the vehicle wheels. The moving plates have an automatic park feature which returns them to the neutral position after use. When installing into an existing pit it is important that the pit is inspected for suitability and that a layout drawing is prepared prior to the commencement of any civil works.

### Technical Specifications

Maximum drive over weight	20000kg per axle 10000kg per wheel
Maximum test weight	8000kg per wheel
Longitudinal/transversal movement	100mm
Movement speed	40mm/s
Power	3.0kW
Voltage	3 phase, 400V, 50Hz
Hand held control cable length	6.5m
Working pressure	215bar
Play detector plate dimension	950 x 800 x 217mm (L x W x H)
Weight	300kg each
Hydraulic control unit dimensions	360 x 300 x 875mm (D x W x H)
Weight	36kg

### Ordering information

### Part number

Commercial Vehicle Hydraulic Play Detector	DE/7353
Wireless option	OA/62436



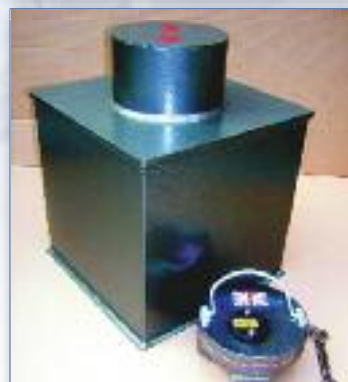
**Authorised  
Testing Facility**

## Ancillary Products

DVSA ATF specification specifies a range of small tools, ancillary products and signage to complete the Test Lane installation.

Tecalemit supplies a complete range of these items either as a complete package or by individual line, as some ATF and MOT facilities may already be equipped with some of the specified items. In order to meet individual requirements your Tecalemit Technical Sales Manager will review a client's requirements and provide a recommended list of equipment and signs. For a typical ATF, the requirements would include:

- Digital Decelerometer
- ATF Sign Pack
- Tool Board with inspection tools
- Pry bars
- Feeler gauges
- Tyre assessment tools
- Speed limiter tester
- CCTV
- Brake air-line gauge
- Day safe & night safe
- Examiner/Driver communication







## Site Preparation Civil & Electrical Works

Typically, Tecalemit will supply equipment and install onto a site prepared by the client and contractors to the specifications set out by Tecalemit.

Our team of 12 Technical Sales Managers are available throughout the UK for consultation, also upon request to British Islands and overseas facilities anywhere in the world.

In addition to the supply and installation of equipment, Tecalemit can also undertake the site preparation if a client should so wish. Tecalemit's own contracts department offers a complete range of services and can take a workshop project from an empty building to a complete Test Facility. Our range of services include:

- Civil works, including excavation for Inspection Pits, roof and wall alterations
- Electrical works, from distribution board throughout the workshop
- Shopfitting, of receptions, offices and customer waiting areas
- Signage, to the clients requirements
- Stores & racking
- LEV (Fume extraction)
- Compressed air systems
- Lubrication systems

All works are fully indemnified and conform to the relevant legislative requirements.

## Working with Contractors

If the contract for construction of your Test Facility or workshop is being let to a principal contractor, then no equipment supplier has a greater experience than Tecalemit of working within the built environment.

The Tecalemit Contracts Department works with the UK's leading construction organisations on projects ranging in value from £50k to £50m. Tecalemit employs dedicated contract administration and management personnel. Our engineers carry industry recognised accreditations (for example CSCS cards and Safety Passport) and have an enormous depth of experience working on a diverse range of projects in the UK and overseas.





## Other Tecalemit Products

Tecalemit offers much more than just Test Lane equipment. As one of the leading suppliers of vehicle servicing equipment we can offer a comprehensive range of general maintenance equipment for workshops servicing cars, trucks, buses and coaches.

## Lubrication Products

Tecalemit can supply mobile, portable and fixed lubrication equipment including, pumps, drainers and dispensing equipment. We can also design and install lubrication pipework systems for your workshop.



## Compressed Air & Fume Extraction

Tecalemit offers piston and screw type compressors from mobile 2HP up to full industrial specification complete with filtration, receivers and dryers. Our services include installation of compressors and compressed air pipework systems complete with accredited written schemes of examination.

Our LEV (fume extraction) services include fans, reels and hoses with a range of fitments to cover all automotive and engineering workshops. Our design and installation service can undertake any scale of project completing with appropriate certification to meet legislative requirements.







## Lifts

Tecalemit can offer a complete range of lift types and capacities from 2.8t to 44t. Our mobile column lift range includes cable free systems up to 50t capacity. Tecalemit also supplies 4 post lifts, scissor type platform lifts and in-ground piston lifts. For detailed information please visit the Tecalemit website at [www.tecalemit.co.uk](http://www.tecalemit.co.uk)



## Tyre & Wheel Service

The Tecalemit Tyre Changer and Wheel Balancer ranges include entry level car & van equipment up to heavy duty tyre changers for truck & bus wheels, and balancers supplied complete with adapters for all types of wheel design.

The Tecalemit range of wheel alignment products include 2 and 4 wheel laser alignment systems for cars, vans and trucks.



Other Tecalemit Products



## After Sales Services

Fundamental to the Tecalemit product offering is our nationwide aftersales support service. Tecalemit employ over 70 field based factory trained service engineers to support, maintain and calibrate the equipment we supply.

Our appreciation of the need for your Test Lane to operate at all times has developed over many years of maintaining the equipment used in the GVTS network for DVSA.

We offer contracted KPI measured service and consistently meet the service levels demanded. ATF Operators have the same requirements as DVSA facility Managers and for this reason Tecalemit offer a range of bespoke service and calibration contracts which can be tailored to meet any client's requirements.

Our range of services is not just limited to equipment maintenance. We also have our own UKAS laboratory through which Tecalemit and other garage equipment company's service engineers are accredited to calibrate exhaust emission testers. We can also offer calibration services for small tools such as torque wrenches, micrometers and measuring instruments such as pressure gauges and dispensing equipment.

Whether it's product or technical support, no provider offers a better range or carries the pedigree of Tecalemit with almost 100 years of continuous service to the automotive industry.



Tecalemit provides nationwide after sales support for users of Tecalemit equipment. This support includes general servicing and maintenance re-calibration of equipment and supply of a comprehensive range of spare parts and accessories for your Tecalemit equipment.

## Tecalemit Contact Information

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