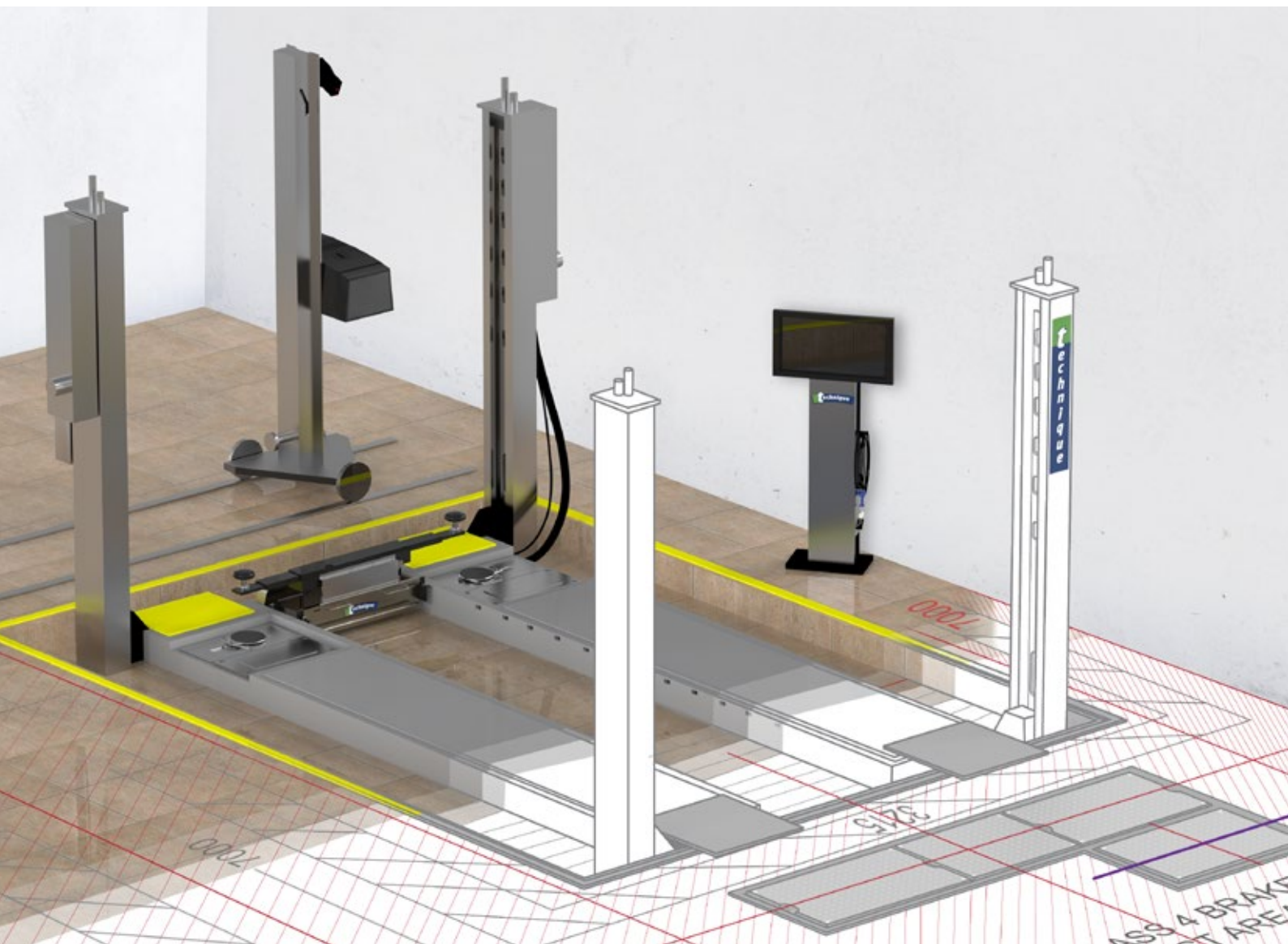


## MOT EQUIPMENT GUIDE





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# Introduction

**Trade Garage Equipment** has been established for over three decades and comprises of seven companies dedicated to the supply and installation of a top quality range of garage equipment to the automotive industry. With thirty experienced sales staff and more than sixty engineers, we are able to provide a professional service virtually anywhere in the UK offering a level of local support that cannot be rivalled by any other organisation.

It has always been **Trade Garage Equipment's** policy to select products from the best manufacturers in the world. This way, it is truly possible to guarantee not only the quality of the equipment, but the technical support that will be available throughout it's operational life.

The group has successfully moved to another phase, by now offering an increasingly comprehensive range of equipment under the 'Technique' brand. Again we only source well-made products from major, established and long respected companies but we have used our extensive knowledge of our customers requirements to tailor equipment to their specific needs.

Whether considering a standard MOT bay or a more advanced Automated Test Lane (ATL), it is going to mean a significant commitment, a lot of planning, detailed understanding of the requirements and a significant financial investment. We know that our customers will not be embarking on such a project without fears and concerns because, for most businesses, it will be the first time they have been involved in such a complex activity.

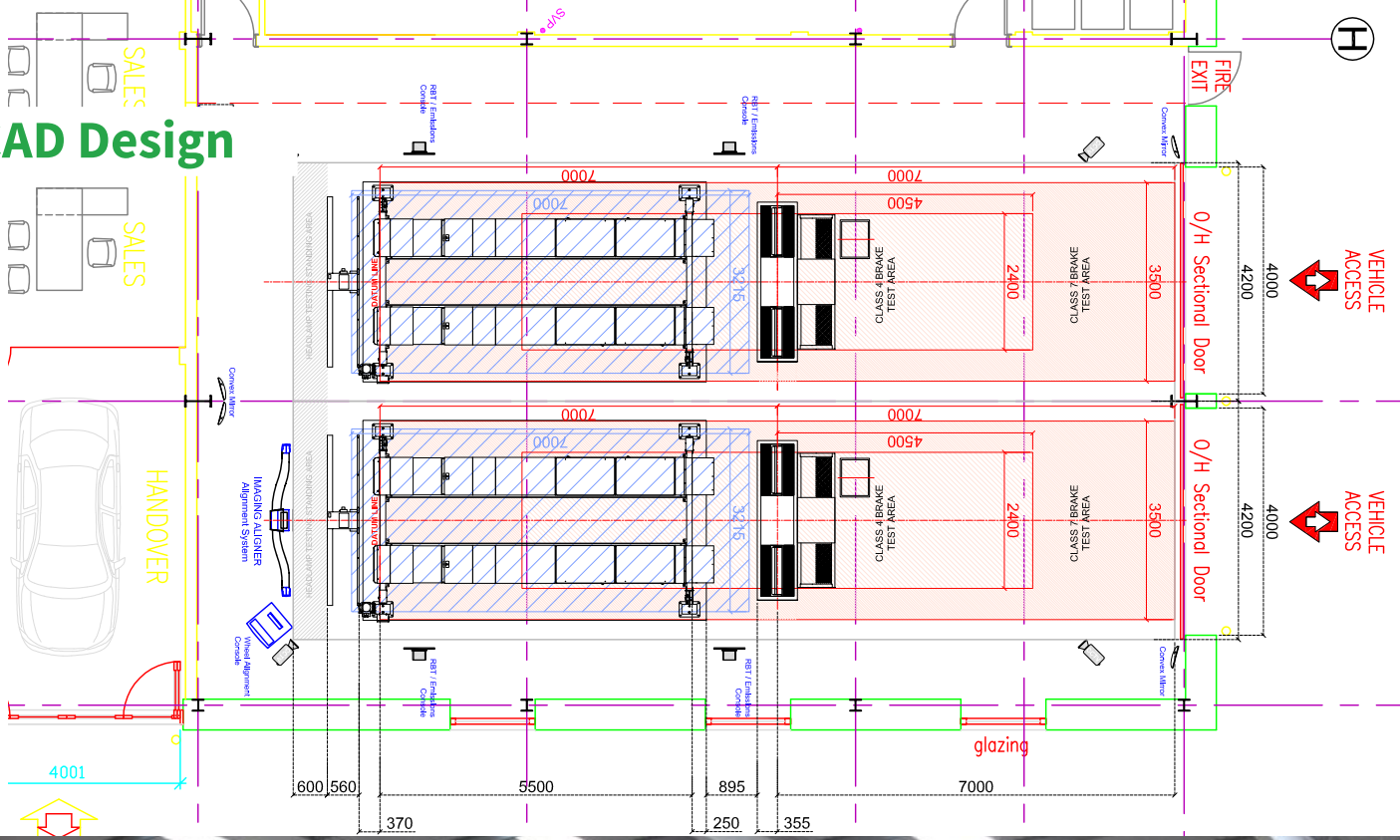


There also has to be a high degree of trust in suppliers and contractors that good, reliable products have been supplied and installed to the required standard. All of this means that the choice of garage equipment supplier as a partner in your project must be carefully considered.

- Is your supplier well established with a good trading history?
- Do they have detailed understanding of DVSA requirements and of their ways of working?
- Can your supplier help you project manage the undertaking?
- What sales and after sales support can they offer?
- Do the products to be supplied have any sort of pedigree?



## CAD Design



## Civil Works



## Complete Project Management

An MOT bay is one of the most costly purchases a garage can make. Important factors for the equipment are a good range capability and a high level of reliability. The supplier should have a first rate understanding of DVSA requirements, be able to offer a high quality drawing service that is able to provide clearly defined layouts plus ground work details and electrical specifications. A good level of back-up service, particularly in the long term, is vital.

# Standard MOT



## Description

In today's market two person test installations are becoming rare, but are still available using our great SM Series 4 Post Lifts in 4.7 to 6.0m platform lengths. These lifts enable you to test right up to the largest permissible class of vehicles. Coupled with our latest spec brake tester, headlamp aligner and emissions analyser, you can be certain of covering all aspects of the test.

## Available Equipment

- T1450 & T1750 Scissor Lift Range
- MOT40 / MOT65 4 Post Lift Range
- 4.7m to 6.0m Platforms Lengths
- T8000 Emissions Analyser
- T5000 & T8000 Range of Brake Testers
- T4600 Series Headlamp Aligner
- T3000 Range of Jacking Beams

## Technical Specification - Layout with lifts

### Class 4 minimum dimensions required

Two person testing  
Up to 3 tonnes gross vehicle weight  
Entrance to bay to be 2.4m high x 2.4m wide  
Overall bay width 3.6m (i.e. 1.8m either side of the lift longitudinal centreline)  
Brake tester standing area to be 2.4m wide by 9.0m long (i.e. 4.5m either side of the brake tester lateral centreline)  
Height required above lowered lift platforms - 3.8m.

### Class 7 minimum dimensions required

Two person testing  
Up to 3.5 tonnes gross vehicle weight  
Entrance to bay to be 3.2m high x 3m or 3.5m wide (dependant on brake tester position)  
Overall bay width 4.2m (i.e. 2.1m either side of the lift longitudinal centreline)  
Brake tester standing area to be 3.5m wide by 14.0m long (i.e. 7.0m either side of the brake tester lateral centreline)  
Height required above lowered lift platforms - 4.8m.

# Pit Lanes



## Description

PIT MOT lanes are popular with a wide range of customers. Our steel fabricated pits will suit most ground conditions and include the full installation, integrated lighting, air supplies and be manufactured to variable lengths. Ideal for bays with low ceilings and testing from the smallest of city vehicles right through to the largest of modern motorhomes.

## Available Equipment

- T0100 Hydraulic In-Ground Play Detectors
- T5000 & T8000 Series Emissions Analysers
- T4600 Series Headlamp Aligner
- Technique Roller Bearing Turntables
- T3000 Range of Jacking Beams
- Pre-fabricated Steel Pits
- Pedal Depressor
- Convex Mirrors

## Technical Specification - Layout with pits

### Class 4 minimum dimensions required

Two person and single person testing  
Up to 3 tonnes gross vehicle weight  
Entrance to bay to be 2.4m high x 2.4m wide  
Overall bay width 3.6m (i.e. 1.8m either side of the bay longitudinal centreline)  
Brake tester standing area to be 2.4m wide by 9.0m long (i.e. 4.5m either side of the brake tester lateral centreline)  
Height required above the whole bay – 2.4m  
Minimum length of pit (excluding stairs) – 3.9m.

### Class 7 minimum dimensions required

Two person and single person testing  
Up to 3.5 tonnes gross vehicle weight  
Entrance to bay to be 3.2m high x 3m or 3.5m wide (dependant on brake tester position)  
Overall bay width 4.2m (i.e. 2.1m either side of the bay longitudinal centreline)  
Brake tester standing area to be 3.5m wide by 14.0m long (i.e. 7.0m either side of the brake tester lateral centreline)  
Height required above the whole bay – 3.2m  
Minimum length of pit (excluding stairs) – 6.0m.



# One Person Test Lanes



## Description

Just by changing part of your existing MOT equipment, one person testing is within your grasp. It allows other members of staff to pursue other money making tasks. "OPTL" is considered to be very cost effective and can save you both time and money. A detailed site survey is required to determine OPTL compliance, so be sure to get a survey before notifying DVSA of your intentions.

Upgrading to one person testing from an existing two person lane is usually straight forward. However, extreme care must be taken to ensure that all current DVSA measurements are met. Many premises don't meet those requirements, so insist on a professional site survey before proceeding.

## Available Equipment

- T1450A and T1750A Scissor Lifts
- MOT40 / MOT65 4 Post Lift Range
- Hydraulic Play Detectors
- T4600 Series Headlamp Aligner
- Convex Mirrors
- Pedal Depressor
- T8000 Series Brake Tester
- T8000 Series Emissions Analyser
- T3000 Range Jacking Beam



## Technical Specification

### Class 4 minimum dimensions required

One person testing  
Up to 3 tonnes gross vehicle weight  
Entrance to bay to be 2.4m high x 2.4m wide  
Overall bay width 3.6m (i.e. 1.8m either side of the lift longitudinal centreline)  
Brake tester standing area to be 2.4m wide by 9.0m long (i.e. 4.5m either side of the brake tester lateral centreline)  
Height required above lowered lift platforms - 3.8m.

### Class 7 minimum dimensions required

One person testing  
Up to 3.5 tonnes gross vehicle weight  
Entrance to bay to be 3.2m high x 3m or 3.5m wide (dependant on brake tester position)  
Overall bay width 4.2m (i.e. 2.1m either side of the lift longitudinal centreline)  
Brake tester standing area to be 3.5m wide by 14.0m long (i.e. 7.0m either side of the brake tester lateral centreline)  
Height required above lowered lift platforms - 4.8m.



# Automated Test Lanes

## Description

Automated Test Lanes (ATL) account for the majority of MOT installations. All vehicles can be catered for with lifting capacities between 3 and 6.5 tonnes and platform lengths to cover even the largest vans.

Our state of the art headlamp aligner is capable of the most detailed analysis and is regarded by many as the best of its kind. The state of the art T8000 brake testing range can be combined with the emissions analyser utilising one solid platform which offer a multitude of options and saves space and money.



## Available Equipment

- T1450A & T1750A Scissor Lifts
- MOT40 / MOT65 4 Post Lift Range
- Hydraulic Play Detectors
- T4600 Series Headlamp Aligner
- Convex Mirrors
- Pedal Depressors
- T8000 Series Brake Tester
- T8000 Series Emissions Analyser
- T3000 range of Jacking Beam

## Technical Specification

### Class 4 minimum dimensions required

One person testing  
Up to 3 tonnes gross vehicle weight  
Entrance to bay to be 2.4m high x 2.4m wide  
Overall bay width 3.6m (i.e. 1.8m either side of the bay longitudinal centreline)  
Brake tester standing area to be 2.4m wide by 9.0m long (i.e. 4.5m either side of the brake tester lateral centreline)  
Height required above the whole bay – 2.4m  
Minimum length of pit (excluding stairs) – 3.9m.

### Class 7 minimum dimensions required

One person testing  
Up to 3.5 tonnes gross vehicle weight  
Entrance to bay to be 3.2m high x 3m or 3.5m wide (dependant on brake tester position)  
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Brake tester standing area to be 3.5m wide by 14.0m long (i.e. 7.0m either side of the brake tester lateral centreline)  
Height required above the whole bay – 3.2m  
Minimum length of pit (excluding stairs) – 6.0m.



# MOT Bay

## Jacking Beams

The T3000 range of jacking beams from 2000 – 6000kg capacity include double extending top beams, full range of raiser blocks and roller glides for all makes of lift and pit scenarios.

## Headlamp Aligner

The T4600 range of headlamp aligners offer high image quality, laser assisted vehicle alignment, counter balanced optical head, ease of use and a stable robust design. A unique electronics package is available for those wishing to set headlamps to actual factory values.

## Play Detectors

All the Technique range of lift mounted and pit mounted play detectors are hydraulic and can be controlled by cable or wireless technology.

## Underside Inspection

Rotary and Technique 4 post and scissor lift ranges are available covering Classes 4, 5 light and 7 ATL requirements. Trade Garage Equipment can also provide high quality, ready-made pits to cover the same classes.



### Gas and Smoke Analyser

The 23inch brake tester screen can also be used to display emissions data from the Technique T8000 gas and smoke analyser. Superb colour graphics present information clearly on this robust and compact touchscreen display whilst usability and functionality are delivered by Bluetooth and infrared communication.

### MOT Accessories

A full range of accessories is available either as individual items or as part of a tailored package.

### Brake Testers

The T8000 range of MOT brake testing and emissions analysing equipment represents a step change in performance. The revolutionary totem design incorporates the latest USB and wireless connectivity while utilising modern 'touchscreen' technology on the standard 23" screen providing uncomplicated and quick access and is the host and centrepiece for a multitude of MOT tasks whilst also permitting ease of serviceability and remote engineering access. Options are also available to extend you into Class 1 and 2 testing, suspension testing and steering geometry analysis.



## Four Post Lifts

### Rotary



The Rotary electro-hydraulic 4 post lift range available from **Trade Garage Equipment** is available in several versions and can be tailored to suit various applications. An MOT kit can be added to any of the 4 post lifts incorporating recessed, bearing mounted turn plates and a hydraulic play detector for ATL use. In addition, both class 4 and class 7 variants are available in various lengths so that the lifts can be tailored to suit its surroundings for the users demands. By adding the wheel alignment kit (AK) to the flat platform models (this incorporates lockable rear bearing mounted slip plates), precise geometry alignment can be performed from short wheel based vehicles (e.g. smart) to long wheel based vehicles (e.g. VW crafter) and a wheel base of 4.9M is achievable.



MODEL	MOT-47	MOT-65
Capacity	4000 kg	6500kg
A. Lifting Stroke (with AK)	1943 mm (+50 mm)	1900mm (+50mm)
B. Overall length	5788 mm	7878mm
C. Overall width	3102 mm	3405mm
D. Ascending height (with AK)	190 mm (+50 mm)	200mm (+20mm)
E. Platform length	4700 mm	6000mm
G. Platform spacing	900 mm	900mm
Motor performance	4 kW	4kW
Electrical connection (3 phases)	400 V, 50 Hz	440 V, 50 Hz
Lifting time	45 sec.	45 sec.
Compressed air connection	8-10 bar	8-10bar

### Technique 4 Post Lift



The Technique four post lift range is amongst the most widely used in Europe. Built on its reputation for reliability and strength the range is adaptable to most surroundings. With built-in roller bearing turntables and hydraulic play detectors if required, our lifts can be ordered with built-in rear slip plates to become a dual revenue, multi-function lift, ready to suit any garage needs. With platform lengths up to 5.7m long there is sure to be a lift to fit your workshop.



MODEL	T1340 & T1344	T1350
Capacity	4000kg	5000kg
Class	4	7
Lifting Stroke	1915mm	1965mm
Overall length	4460mm	5500mm
Overall width (pit)	3855mm & 3005mm	3205mm
Platform depth	130mm & 160mm	210mm
Platform spacing	800mm & 880mm	860mm
Platform length	4300mm & 4320mm	5300mm
Motor performance	2.6kW	2.6kW
Compressed air connection	8-10 bar	8-10bar

# Scissor Lifts

## Technique Scissor Lifts



The new Technique scissor lifts have been specially selected to provide a wide range of choices for Class 4, 7 and 5 light MOT installations. All have been engineered to a high standard and include integrated electro-hydraulic play detection equipment and separate turn plates. Some versions include a secondary lifting system for those requiring a wheel free capability as well. All models can be recessed into the floor.

Scissor lifts permit the most effective use of floor area in MOT facility by allowing the minimum permissible overall bay width to be used. Keeping the facility clean and tidy is also much simpler because the lifting area is completely free of obstacles when the platforms are fully lowered.

Available for Class 4 or 7, this lift is available with a wheel alignment facility to maximise revenue.



MODEL	T1450/A	T1750/A
Capacity	3500kg	5000kg
Class	4	7
Lifting Stroke	1805mm	1805mm
Overall length (pit)	4790mm	5490mm & 5790mm
Overall width (pit)	2070mm	2140mm
Platform depth	280mm	310mm
Platform spacing	800mm	800mm
Platform length	4600mm	5300mm & 5600mm
Motor performance	2.6 kW	2.6 kW
Compressed air connection	8-10 bar	8-10bar



# Emissions Analyser

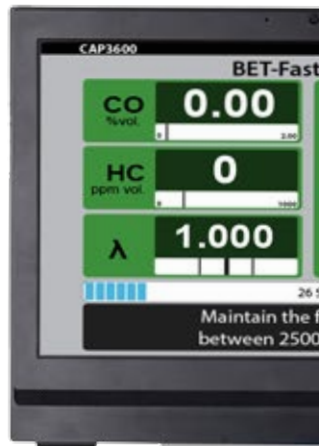


## Technique T8000 Emissions Analyser

The Technique T8000 is the first of a new generation of emissions analysers and MOT roller brake testing equipment marking a step change in performance, operation and ergonomic practicality. Everything about the T8000 is in 'touch' with modern technology and designed to help propel your business into the future.

The revolutionary 'totem' design is the host and centrepiece to a multitude of MOT related tasks incorporating the latest USB and wireless connectivity, and allows easy serviceability including remote engineering access.

For clear presentation of brake tester and emissions results, the superb 23inch touchscreen display employs carefully thought through high definition full colour graphics. Data entry is simple and on a par with technology commonly used within the users workplace and home, therefore making the machine functionally friendly.



Wireless smoke meter



A4 inkjet colour printer



Wireless EOBD device



QWERTY keyboard and shelf kit



Mobile base kit



Wireless oil and temperature kits



Tablet Options





# Roller Brake Tester

## Technique T8000 Series Brake Tester

Created in a partnership with **Trade Garage Equipment** and some of the world's leading and most respected manufacturers, the new exclusive T8000 range of MOT brake testing and emissions analysing equipment represents a step change in performance, operation and ergonomic practicality. Options are available to extend you into Class I and II testing, suspension testing and steering geometry analysis. Everything about the T800 puts you in 'touch' with essential vehicle testing technology to help propel your business into the future to maximise your opportunities and profitability.

The revolutionary totem design incorporates the latest USB and wireless connectivity and is the host and centrepiece for a multitude of MOT tasks whilst also permitting ease of serviceability and remote engineering access.

Utilising modern 'touchscreen' technology on the standard 23" screen provides uncomplicated and quick access to test routines or results whilst each high definition graphic has been thought through and devised to provide clarity and instant recognition of essential visual information. Data entry is simple and on a par with contemporary technology found in the home as well as the workshop making the equipment familiar and user friendly design.



**Technique T8400**



**Technique T8500**



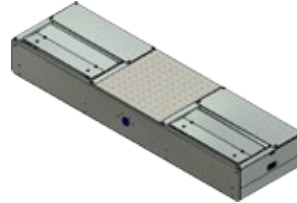
**Technique T8700**



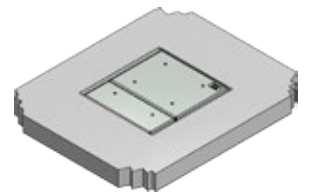
**Motorcycle Adapter Plate**



**Suspension Testing Bed**



**Side Slip Testing Bed**



**Infra-red remote control**



# Technique T4600 Headlamp Tester

Technically advanced, easy to use and sets a standard for this type of equipment. The stylish and ergonomic design is not only durable, reliable and stable but the build quality of the T4600 range enables unparalleled performance for garages and MOT test stations, especially when assessing or setting both car and CV headlamps and represents outstanding value for money. Investing in Technique equipment, which is backed by excellent local technical service support, provides peace of mind for both you and your customers.

## ADVANCED FRESNEL LENS:

Key to the T4600 performance is the Fresnel lens, which collects maximum light and provides a high quality image on the screen, it also permits a wide focusing range of 200MM to 800mm and is lighter and less prone to damage than a traditional glass lens.

## ADVANCED ELECTRONIC VERSIONS:

The advanced electronic models have a sensing system surrounding the lens that optimises the position of the optical head in front of the vehicle headlamp. Guidance on movement of the tester head is displayed on an LCD read-out. A unique and patented sensor array on the measurement screen provides information to the LCD display illustrating headlamp beam angle as an actual percentage to two decimal places. The sensors are extremely accurate and very sensitive, although regulations do 'not yet' allow this type of technique to be used for assessment during an MOT test, it can be employed very effectively when setting a headlamp, since it helps remove operator 'guesswork'. The sensors also provide graphical information about beam brightness and glare and main beam and fog lamps can also be checked and set.

	T4600	T4600V	T4600W	T4610	T4610C	T4610V
Fresnel lens	■	■	■	■	■	■
Hi performance laser alignment	■	■	■	■	■	■
Robust extruded column	■	■	■	■	■	■
Trolley mounted			■			
Rail mounted	■	■		■	■	■
3m rail kit	■			■		
4m rail kit		■			■	■
Counter-weighted optical head	■	■	■	■	■	■
200 to 800mm focusing range	■	■	■	■	■	■
LCD display				■	■	■
Electronic position sensing				■	■	■
Electronic beam assessment				■	■	■
Readout in actual values				■	■	■
Printer available				■	■	■
Suitable for HGV's					■	



## NEW GENERATION LINEAR LASER:

Aligning the headlamp aligners optical head to the whole vehicle drive line, is a vital requirement for accurate headlamp assessment and setting. By using a new generation 'linear laser', the T4600 laser projects a bright red light beam line onto the vehicle which can be easily inspected for positioning.

## BALANCED OPTICAL HEAD:

An internal counterweight allows the optical head to be moved on the column with ease making positioning simple.

## PRINTER CONNECTIVITY:

The T4610 and T4610C can download data to a computer to allow printing, or be supplied with Bluetooth connectivity to a suitable separate printer.



# Jacking Beams



## Technique Jacking Beams - more choice, more power

**2 tonne** and **2.8 tonne** models feature a 1700mm extendable top beam as standard, with an option of an extra wide 1755mm top beam. 2 tonne MOT approved for class 4 and 2.8 tonnes for class 7. Available as manual or air/hydraulic operation.

**4 tonne** models are purposely designed to handle heavy weight 4x4's and with the optional 180mm extension tubes, the reach to cope with these high axle vehicles. Available as manual or air/hydraulic operation.

**6 tonne** models feature a power packed unit, the one to count on if you are servicing lighter weight commercial vehicles. Air/hydraulic operation.



*All models feature quality roller bearing support arms, either roller hook or roller flat.*

## Accessories

RAISER BLOCKS	RATED 2 TONNES	RATED 2.8TONNES	RATED 4TONNES	RATED 6 TONNES
Rubber topped adjustable screw pad (pair)	Standard	Standard	Standard	Standard
25mm aluminium raiser blocks (pair)	Standard	Standard	Standard	n/a
37mm rubber topped pads	n/a	n/a	n/a	Standard
100mm pad	n/a	n/a	n/a	Standard
95mm aluminium raiser blocks (pair)	Standard	Standard	Standard	n/a



## Motorcycle Bay

A great addition to any MOT facility, a motorcycle MOT bay is a solid revenue stream. Our technique class 1 and 2 motorcycle bay is a state of the art solution to your motorcycle MOT needs. Our T5210 bi-directional brake tester, complete with built-in weighing facility and infrared remote control sets the standard in motorcycle testing, and is complemented by our industry-leading T4600 headlamp beam tester. From a standalone facility, to an integrated option, our motorcycle bay could be yours for the cost of just one MOT per week.



### Available Equipment

■ T4600 Headlight Beam Tester

■ T5210 Brake Tester

## Service/Calibration

Our highly-trained service teams will service and calibrate your equipment to the highest standards to ensure trouble free operation for as long as possible. Avoiding unscheduled expenditure and, in some cases staying within the law, mean that high quality service and experienced engineering support are vital to the efficient and effective performance of an MOT facility. The long-term, top quality partnership built between us and our customers, often underpins your decision to buy our equipment. The relationship between our service division and our customer is the reason for our growth and the key to our strength in the marketplace.



### Benefits

■ Technical advice and support

■ Routine maintenance contracts

■ 6 monthly safety inspection

■ Prompt response time

■ National coverage

■ Optional 5 year warranty cover on emissions





**THE NATIONAL GARAGE EQUIPMENT SOLUTION**

Trade Garage Equipment Ltd.  
Unit 4F, Gelders Hall Industrial Estate,  
Shepshed, Leicestershire, LE12 9NH

Business Hours: 08.30am - 17.30pm Monday - Friday

Tel: (01509) 506680

Fax: (01509) 505594

Email: [enquiries@tradegarageequipment.co.uk](mailto:enquiries@tradegarageequipment.co.uk)

