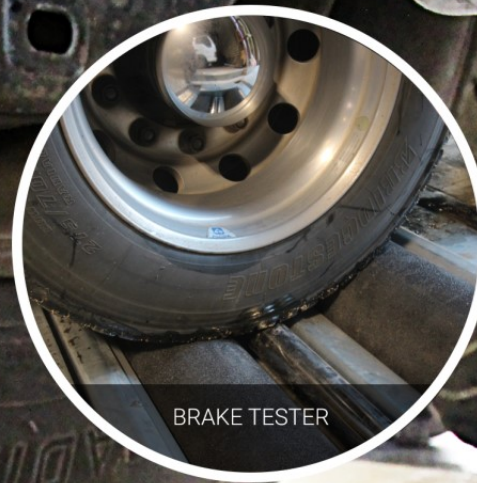


A ECS

AUTOMOTIVE TRAINING & EQUIPMENT



SLIDE SLIP



BRAKE TESTER



FREE PLAY DETECTOR

STT45

TRUCK TEST LANE

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AUTOMOTIVE EQUIPMENT | TRAINING | TECH SUPPORT

AECS STT45 TRUCK TESTLANE

INTRODUCTION

ALWAYS EVOLVE

AECS has been in the Automotive Industry for 20 years, of that 20 we've spent 19 years testing, developing, distributing and training with brake testers and other workshop equipment from some of the best manufacturers around the world.

As an equipment provider to the industry, we must always provide quality equipment, not just for the workshop staff using it (it must be safe for the user) however, also knowing that the workshops' customer vehicle will be certified to go on the road safe. It's something we take very seriously.

Truck brake testers are an important part of a modern workshop, with our experience and our combined engineering education and backgrounds we have designed a range of roller brake testers that will stand the physical testing of brakes and time.

STT

So, enter in the STT range. STT stands for Safety Testing Technology, which is our very own brand of truck (and car) brake testers. Designed and purposely over-engineered to our specifications. What this means is we have a range of brake testers that are built to last in even the toughest environments and one we're immensely proud to have our name on. Our STT45 range is NZTA approved.

ENDLESS OPTIONS

Within the STT45 range, you have options that suits you and your budget. From a full test lane with lift bed through to replacing existing brake rollers or freeplay detector. AECS provides NZTA approved CoF RBM training, nationwide calibration, and technical support. Read on as we share more about our STT45.



Engineered for strength, durability and longevity...

AECS STT45 TRUCK TESTLANE

TRUCK BRAKE TESTER

STT45 Test Lane uses the best and proven mechanical engineering solutions for your workshop, it is designed for all types of braking systems and all passenger and commercial vehicles.

The STT45 Truck Test Lane includes a Brake tester with lift bed, a Slide slip tester, and an 8-way freeplay detector. Capable to handle 18Ton axle load. Designed and built with the best European electronics (e.g. 2x 17KW dual-speed Nord Motors with auto-lock).

Ready to test all types of braking, steering and suspension systems and can be operated by a single technician (remote control included). The STT45 is NZTA CoF approved.

The STT45 is available as a full kit or as standalone item/s.

TECHNICAL SPECIFICATIONS

- 18 Ton axle load
- Max. 45 kN brake force per wheel
- 13/17KW 2 speed Nord motors, with auto lock
- Star delta (softstart) and 4WD mode
- Minimum/maximum vehicle wheel diameter 600-1100mm
- Automatic motor brake - easy drive out (even when the power is off)
- High wear resistant corundum coated rollers 248mm diameter
- German built motors, Nord sensors, and contactors
- 8 Weight sensors
- Hydraulic 200mm 4 post lift in each unit (8 post per axle)
- Heavy duty German contactors (50 Amp) with 40 Amp thermal cut out
- Remote control included. (Tablet optional)
- Standard dimensions replace most common testers
- Selectable car mode
- Fully hot-dip galvanised

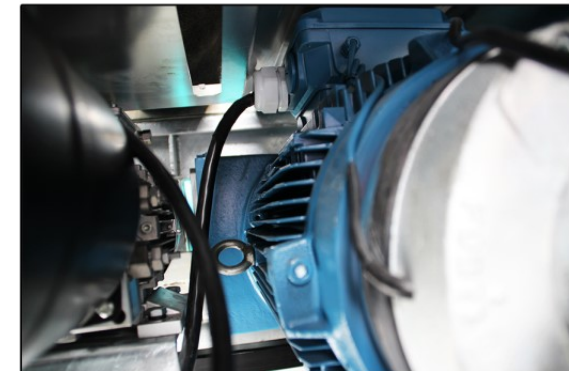
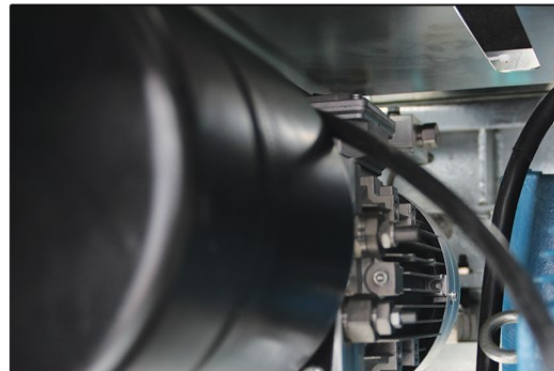
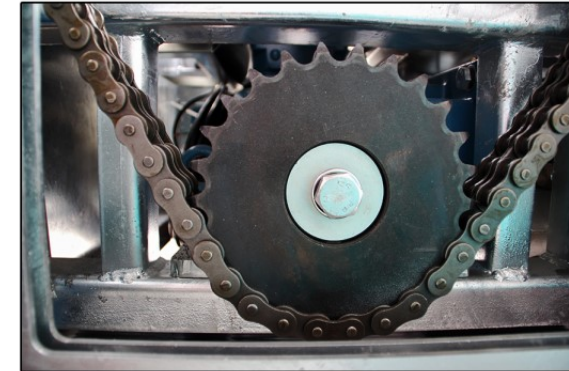
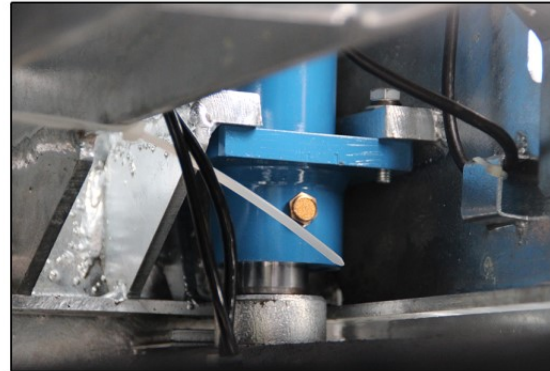
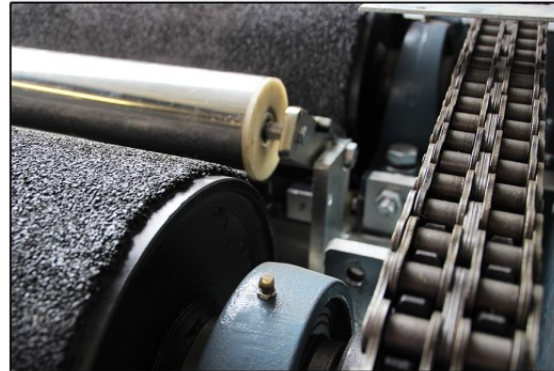
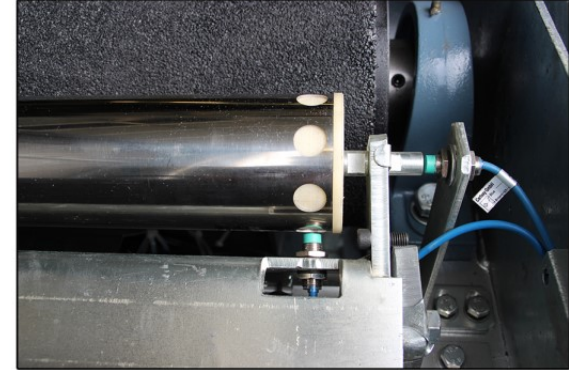
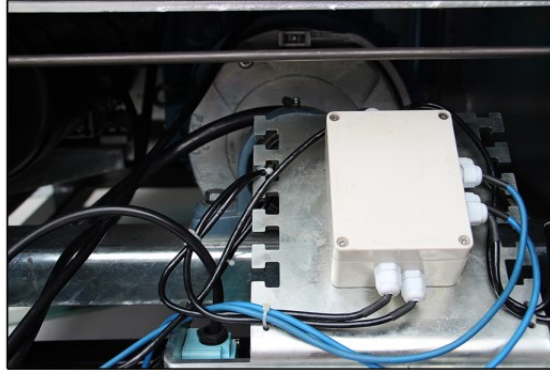
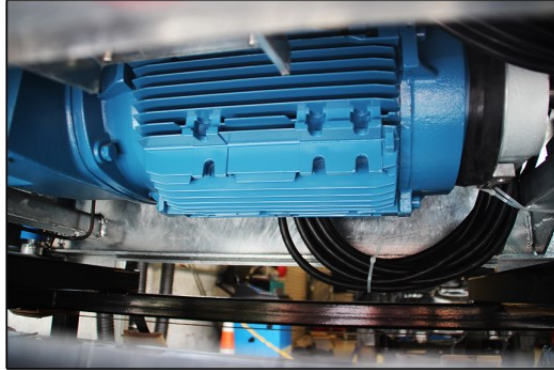


AECS STT45 TRUCK TESTLANE

TRUCK BRAKE TESTER - FROM THE INSIDE

STT45 Brake Rollers are built tough and are engineered to take on the biggest rigs. The ability to withstand 18T axle loads makes the STT45 the most heavy-duty brake tester in the industry.

STT45 is built to a European standard, and it will fit most popular pit sizes. AECS has 20 years of experience in new and existing brake test lane builds, we assist with workshop layout and planning. The AECS team are on standby to install anywhere New Zealand.



AECS STT45 TRUCK TESTLANE

FREE PLAY DETECTOR

The STT45 8-way inground Freeplay detector is capable to handle 18T axle load. Have just ONE inspector find wheel bearing, kingpin, ball joint, shackle, ringfeeder, steering component freeplay, drawbar cracks and more without a crowbar and and extra man with back pain!

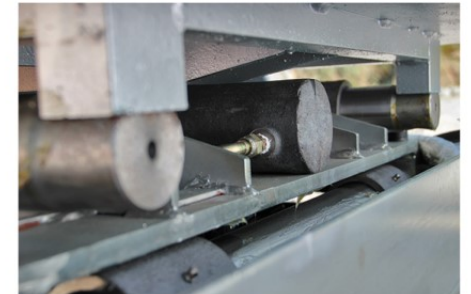
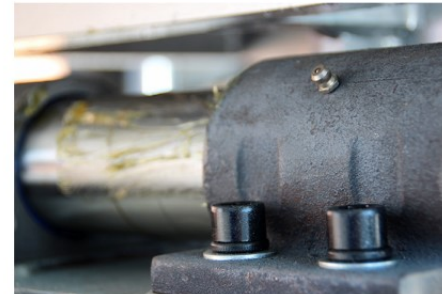
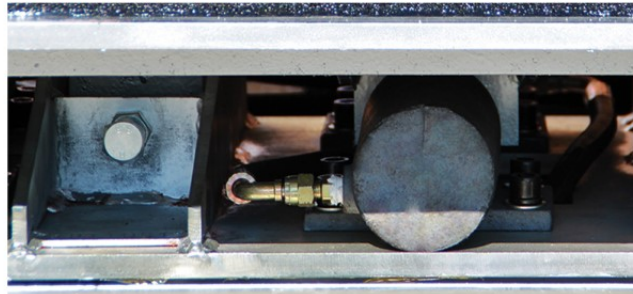
The remote control allows the inspector to move a wheel with the RH or the LH large corundum coated platform 100mm back - 100mm forwards and 100mm to the left and 100mm to the right (measured from the centre) in a controlled manner.

Using a remote (wireless) the hydraulic 8-way free play detector generates alternate stress on the wheels and suspension, making it easier to visually check for defects.

This unit can be installed as a stand alone unit and does not have to be part of a brake testlane.

FREE PLAY DETECT - TECHNICAL SPECIFICATIONS

- Capacity: 18 Ton axle load
- Plate dimension 1000x750mm
- Platforms weight +/-600kg
- 8 directions and wireless remote control
- Pump power: 2.2kW 3 phase hydraulic pump



AECS STT45 TRUCK TESTLANE

SLIDE SLIP

STT45 Slide slip features a unique destressing plate. It removes tension from the steering and suspension to get a true measure of toe, camber and axle crabbing on the axle being tested.

Slide Slip includes an optical trigger which shares a connection with the STT45 software and brake rollers. The trigger makes the brake rollers ready for the next step in the testing process.

SLIDE SLIP - TECHNICAL SPECIFICATIONS

- Capacity: 18 Ton Axle load
- Measurement range: maximum 19.9 m/km
- Platform dimension 1320x800mm
- Side slip tester weight +/- 200kg

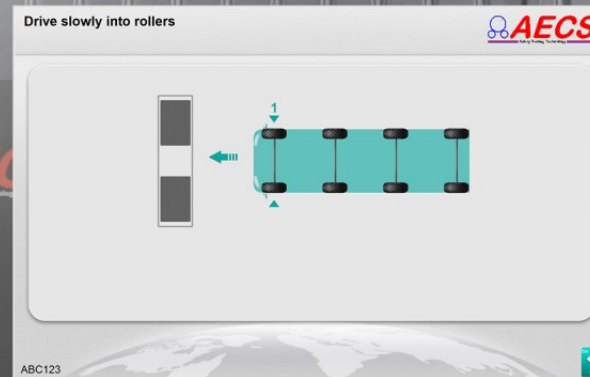
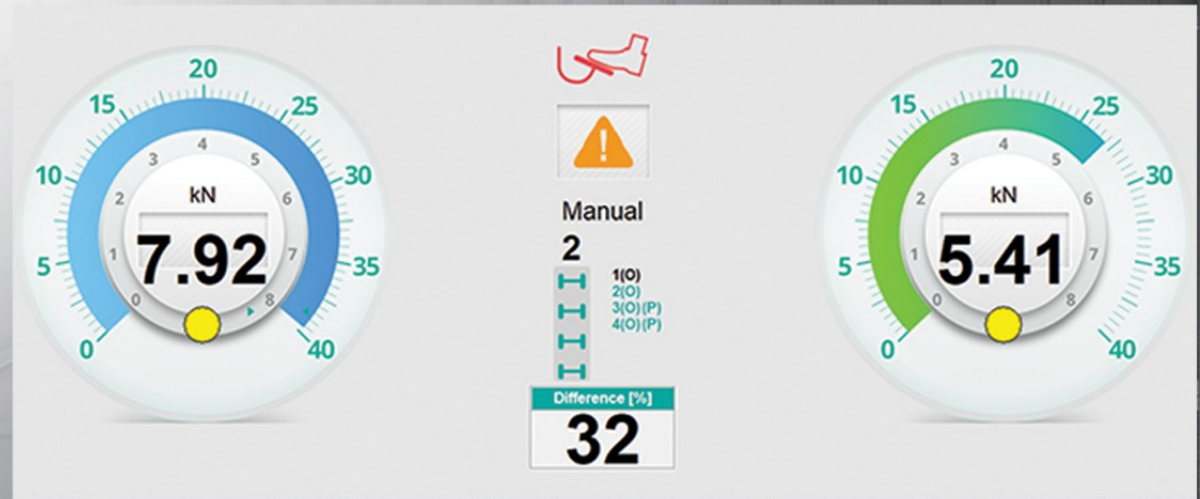


AECS STT45 TRUCK TESTLANE

SOFTWARE & CONTROL

In designing the STT45, one of the most important things we wanted was a user-friendly interface. We used our years of experience with brake testers to put together a software package that was easy, intuitive, and innovative for our roller brake test system.

Our unique software tests individual axels one at a time and provides all necessary calculations, making it one of the safest and most accurate brake testing systems on the market today.



Vehicle Test Results

Date 3/5/2020 15:22:55 Reference No. 10002282

Device Type	STT45	Manufacturing No.	201801237		
Homologation No.	NZTA	Manufacturing date	2019-01		
Software version	2.0.1	Next calibration date	2020-05-18		
Vehicle Type	Truck (MD3,MD4,ME,NB,NC)	Register plate	ABC123		

Brake results

End time 15:22:55

Inspection Options	Unit	Manual Limit	Axle 1	Axle 2	Axle3	Axle4
Wheel weight left	kg	1450	1439	1429	1463	
Wheel weight right	kg	1417	1397	1396	1422	
Axle weight	kg	2877	2836	2825	2885	
Service brake						
Brake force left	N	7558	7927	7918	6663	
Brake force right	N	7567	6546	7915	6528	
Axle efficiency	%	54	52	57	47	
Difference	%	<=30	0	32	2	2
Rolling resistance left	N	408	298	704	1565	
Rolling resistance right	N	407	373	1256	1544	
Parking brake						
Brake force left	N	Limit	4543	3375		
Brake force right	N	Limit	4478	3309		
Axle efficiency	%	Limit	33	24		
Difference	%	Limit	<=50	1	2	
Summary results						
Total measured weight	kg	Limit	11423			
Service brake total brake force	N	Limit	58622			
Service brake efficiency (measured weight)	%	Limit	>=50	52		
Parking brake efficiency (measured weight)	%	Limit	>=20	14		
Brake Result						



AECS STT45 TRUCK TESTLANE

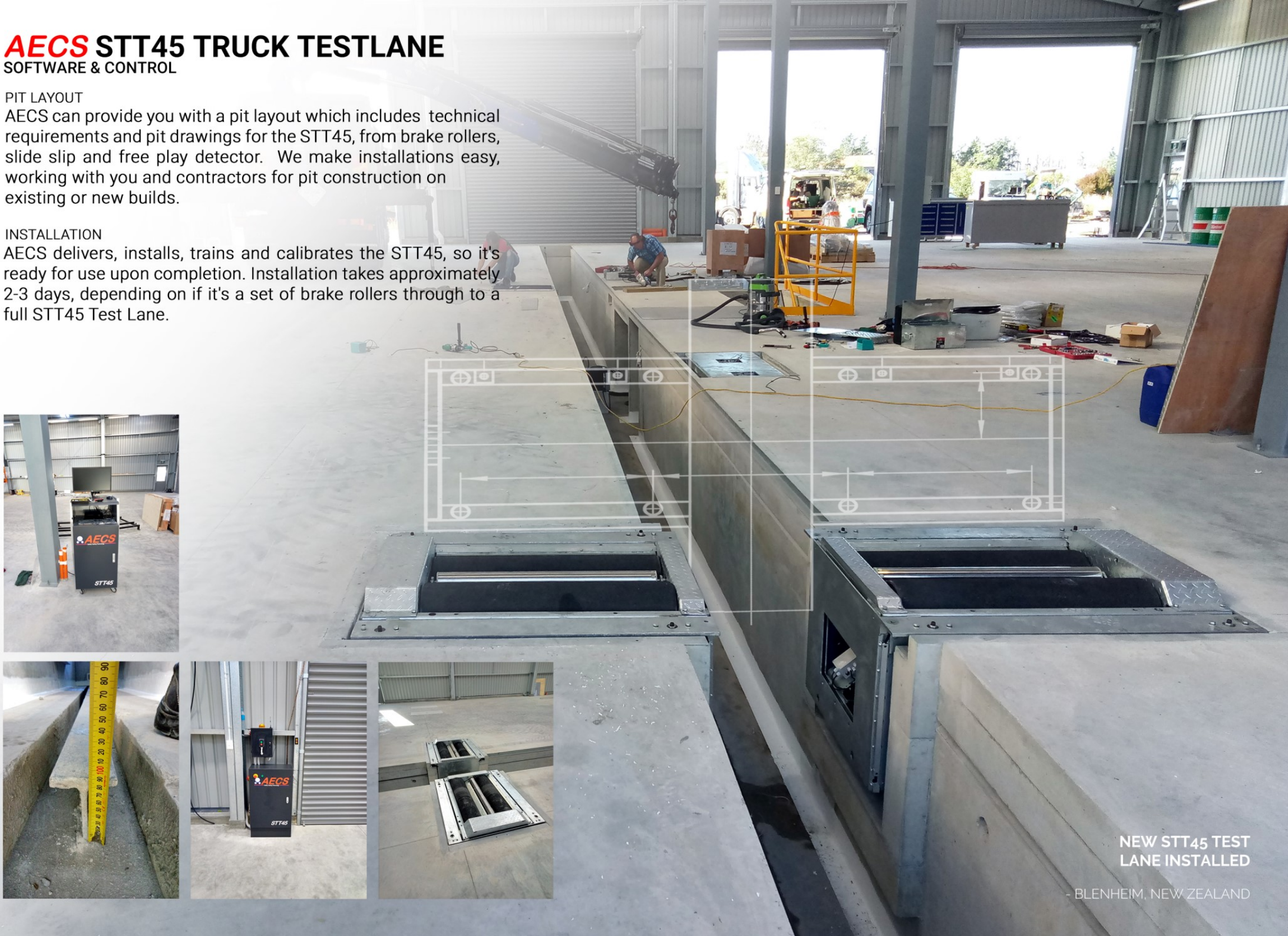
SOFTWARE & CONTROL

PIT LAYOUT

AECS can provide you with a pit layout which includes technical requirements and pit drawings for the STT45, from brake rollers, slide slip and free play detector. We make installations easy, working with you and contractors for pit construction on existing or new builds.

INSTALLATION

AECS delivers, installs, trains and calibrates the STT45, so it's ready for use upon completion. Installation takes approximately 2-3 days, depending on if it's a set of brake rollers through to a full STT45 Test Lane.



NEW STT45 TEST
LANE INSTALLED

- BLENHEIM, NEW ZEALAND

AECS STT45 TRUCK TESTLANE

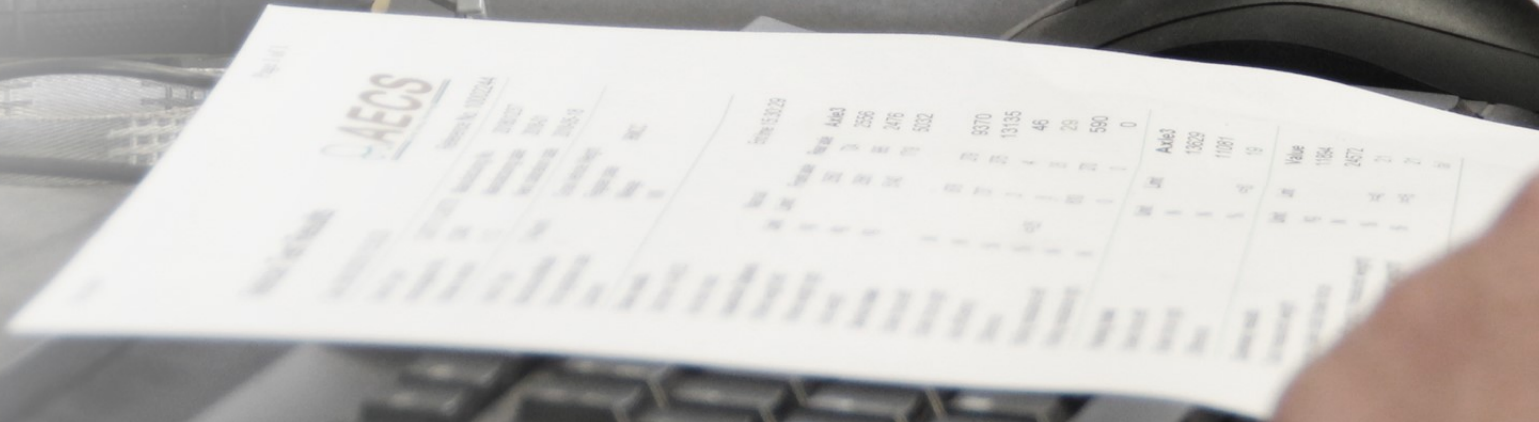
OPTIONS

As an option we can supply a rail (up to 6mtrs) and dolly for tie down purposes (simulated load testing), which is made in New Zealand. The dolly plus rail come with chain and strops.



AECS STT45 TRUCK TESTLANE TRAINING

As the STT45 is our own equipment, of course, we do what others can't. We provide training and support for the STT45. We will share with you and your team the best of our training, and keep things rolling with ongoing support as and when you need it. AECS CoF RBM training can be included in your STT45 purchase.



AECS
TRAINING
ELECTRONIC DIAGNOSTIC TRAINING

Vehicle Inspector RBM1-1 (CoF)

COURSE: Vehicle Inspector
COURSE ID: RBM1-1
DURATION: 1 Day
VERSION: 200526

AECS provides immersive training with theory and practical hands on experience. With 25 classic quality, in-house designed training seminars, we are committed to empower new and experienced industry insiders to become proficient and productive.



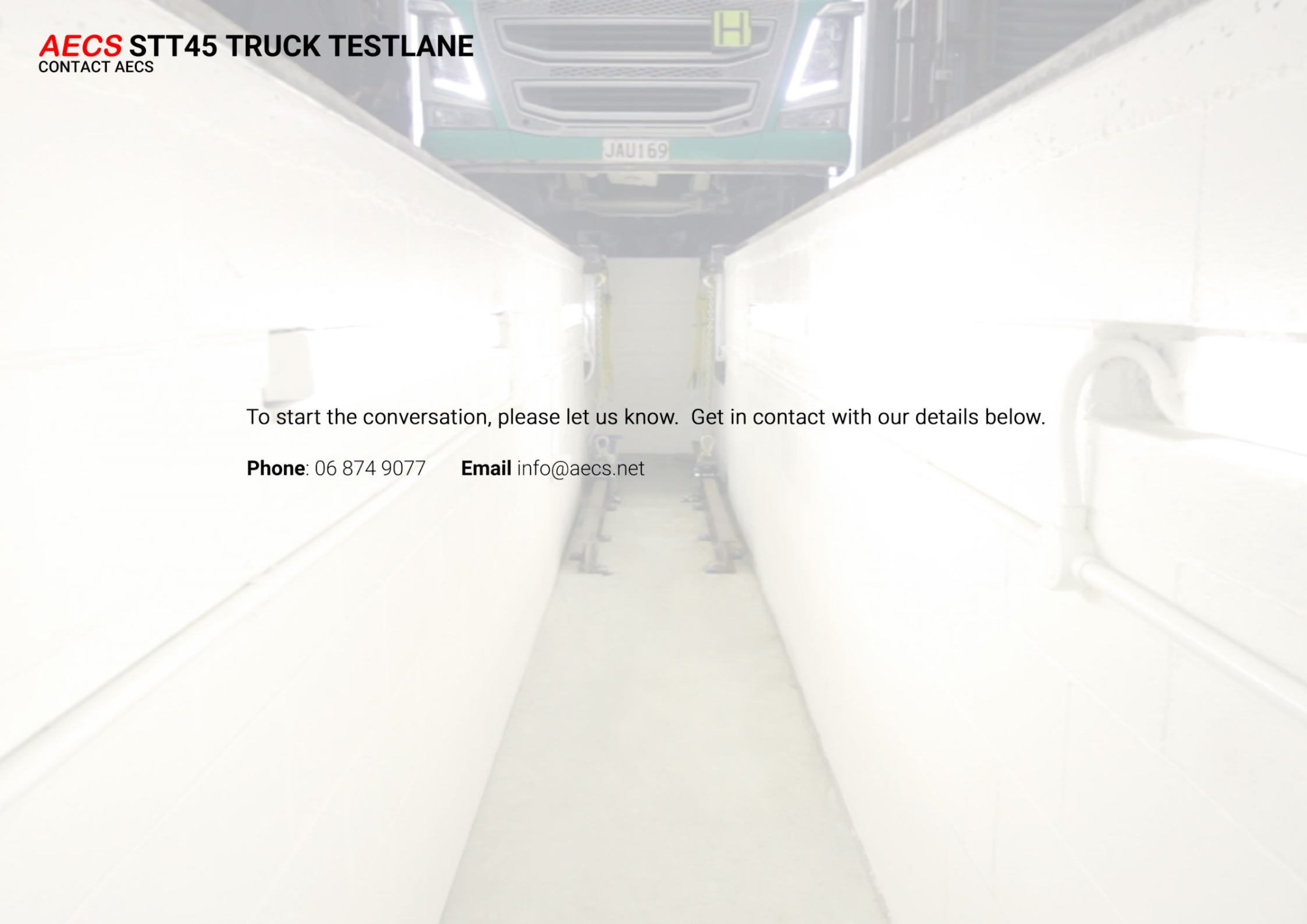
06 874 9077 training@aecls.net aecls.net faecltd

AECS STT45 TRUCK TESTLANE

CALIBRATION

Continued accuracy is imperative for your STT45. Once a year we will visit your workshop and calibrate your STT45.



A photograph of a truck on a test lane. The truck is white with a green stripe and has the license plate 'JAU169'. It is positioned on a raised platform within a long, narrow, white-walled tunnel. The truck's headlights are on, and a yellow 'H' sign is visible on the front grille. The perspective is from the front of the truck, looking down the length of the tunnel.

AECS STT45 TRUCK TESTLANE
CONTACT AECS

To start the conversation, please let us know. Get in contact with our details below.

Phone: 06 874 9077 **Email** info@aece.net