



AECS

AUTOMOTIVE TRAINING & EQUIPMENT

STT 45

TRUCK BRAKE TESTER

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AUTOMOTIVE EQUIPMENT | TRAINING | TECH SUPPORT

AECS STT45 TRUCK BRAKE TESTER

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 BRAKE TESTER

TRUCK BRAKE TESTER

STT45 Truck Brake Tester 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 Brake tester is designed and built with the best European electronics (e.g. 2x 17KW dual-speed Nord Motors with auto-lock).

The STT45 is NZTA CoF approved.

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
- 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

The STT45 Brake Tester is available as a standalone item or as a full truck testlane. See options here: aecs.net/stt45

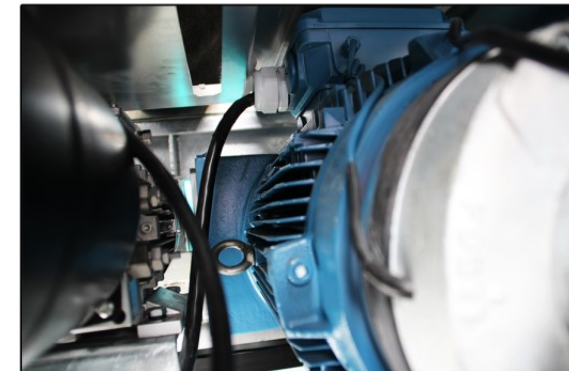
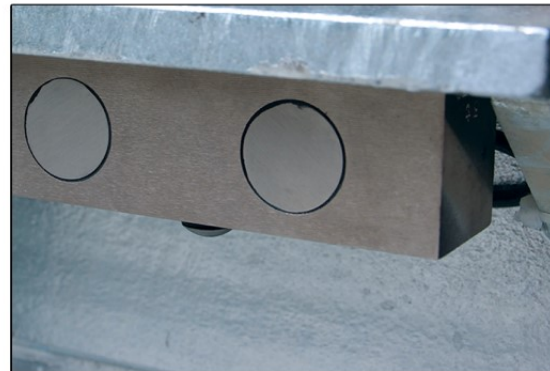
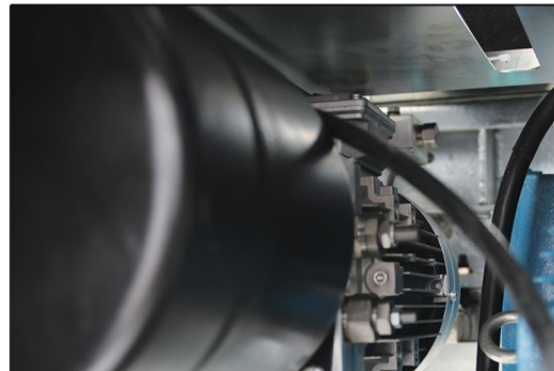
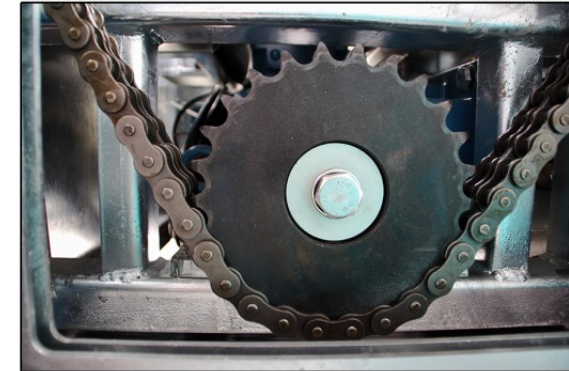
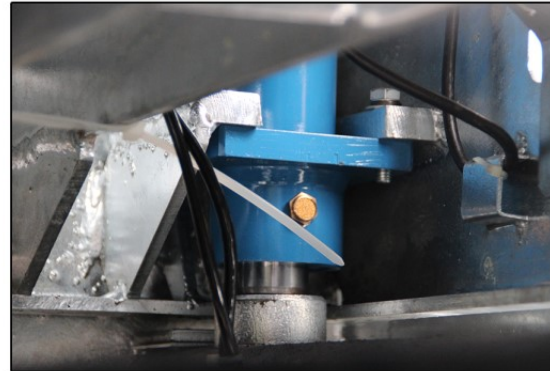
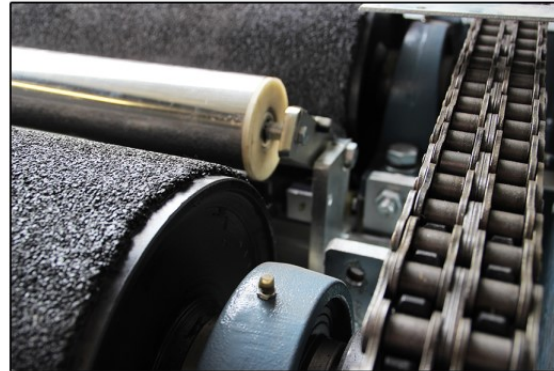
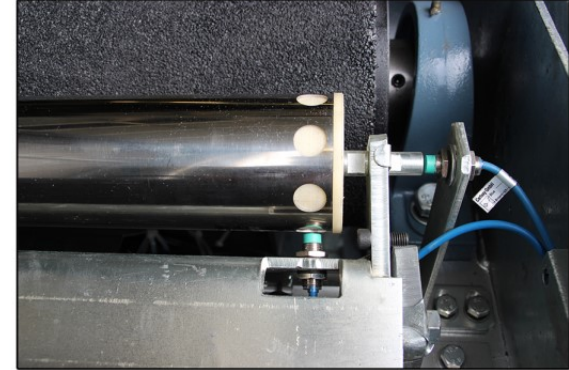
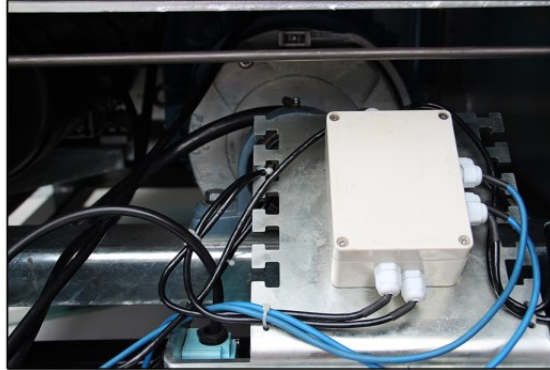
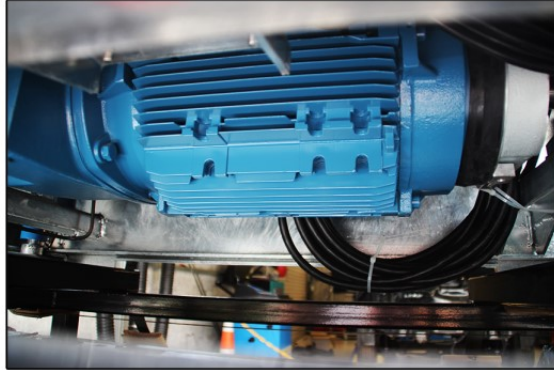


AECS STT45 TRUCK BRAKE TESTER

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.

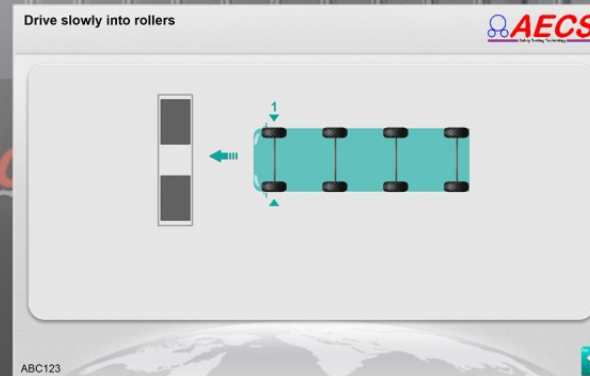
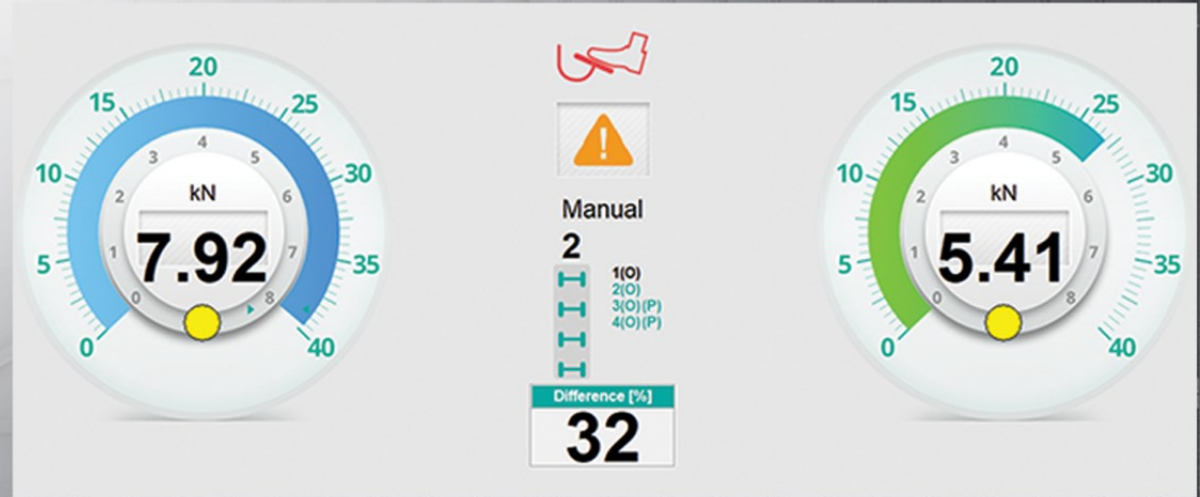


AECS STT45 TRUCK BRAKE TESTER

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.

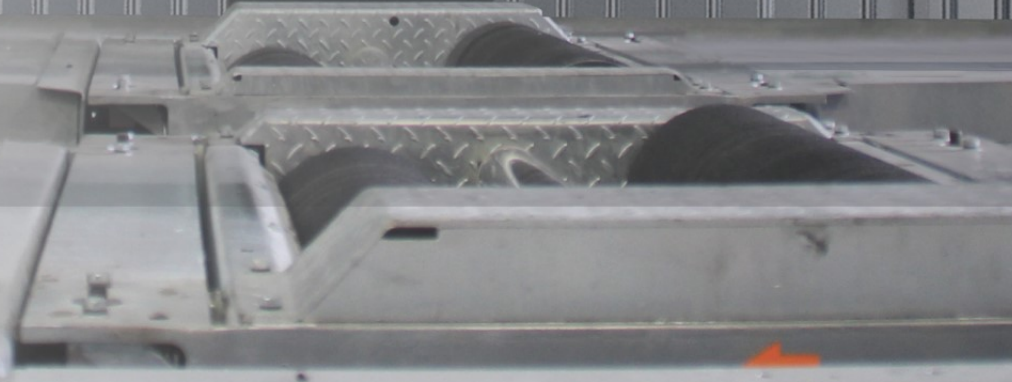
Our unique software tests individual axels one at a time and provides all necessary calculations, making it one of the safest and most accurate brake testing systems on the market today.



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		
Axle test mode	Manual		
Inspection Options	Unit	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	Axle3 Axle4
Brake force right	N	4543	3375
Axle efficiency	%	4478	3309
Difference	%	33	24
	%	<=50	1 2
Summary results	Unit	Limit	Value
Total measured weight	kg	11423	
Service brake total brake force	N	58622	
Service brake efficiency (measured weight)	%	>=50	52
Parking brake efficiency (measured weight)	%	>=20	14
Brake Result			



AECS STT45 TRUCK BRAKE TESTER

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 BRAKE TESTER

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 BRAKE TESTER

CALIBRATION

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



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CONTACT AECS

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

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