

AUTOMATED  **TESTING STATION EQUIPMENTS**

About ATS ELGI

EMPOWERING THE AUTOMOTIVE SERVICE INDUSTRY FOR MORE THAN 6 DECADES



ATS ELGI is the largest manufacturer and distributor of Automotive Service Equipment in India. With our "One Stop Shop" approach, we offer the widest range of garage equipment in the country. Working closely with Authorised OEM workshops and Private Garages complements our profound understanding of the vehicle servicing business since 1960.

ATS ELGI is a wholly owned subsidiary of **ELGI** Equipments Limited, a Global Player in the air compressor business.



SPEEDOMETER | SIDE SLIP | SUSPENSION | BREAK TESTER | AXEL PLAY DETECTOR | HEADLIGHT AIMING | GAS ANALYZER & SMOKE METER | SOUND LEVEL METER | FREE ROLLER | EXHAUST EXTRACTION SYSTEM

ATS ELGI ANNOUNCES MANUFACTURING AGREEMENT WITH **VTEQ**, SPAIN.

ATS ELGI will be possess up a world-class manufacturing facility spread across **7500 square feet** to manufacture vehicle testing equipment for the Indian market.

ATS ELGI, a wholly-owned subsidiary of Elgi Equipments Limited and India's largest garage equipment manufacturer, announced its manufacturing agreement with **VTEQ**, a global leader in vehicle testing equipment based out of Spain.

India was the fifth-largest market for cars in 2020, and the country's automotive sector, including components, is expected to be worth Rs. 16.1-18.1 trillion by 2026. The Indian government has introduced key initiatives such as Faster Adoption and Manufacturing of Hybrid & Electric Vehicles (FAME), National Automotive Testing and R&D Infrastructure Project (NATRIP), and Bharat Stage (BS) VI to promote the country's automobile production and testing. We expect 200 testing centers to be set up in the country over the next five years. We are looking forward to our partnership with **VTEQ**, which provides us with an excellent growth opportunity in the industry," added **Dr. Jairam Varadaraj, Chairman, ATS ELGI, Ltd.**

About VTEQ, Spain

Founded in 2001 by personnel with extensive experience in the field of Vehicle Inspection Equipment for PTI (Periodic Technical Inspection), VTEQ was born with two main objectives, one, Internationalization, and another, the spirit of continuous innovation, concepts that, after years have allowed us to become one of the most prestigious companies Worldwide.

The continued VTEQ international expansion in different markets for Periodic technical inspection (PTI), with more than **6000 vehicle inspection** test lanes installed in **over 80 different countries** in which VTEQ operates, has made it a significant international player.

WHY VEHICLE FITNESS CENTRE?

An Automated Testing Station uses mechanical equipment to automate the various tests required to check the fitness of a vehicle.

What is a Vehicle Fitness Certificate?

All commercial motor vehicles need to have a valid vehicle fitness certificate together with the registration certificate. As per the rules of The Motor Vehicles Act, 1989, registration of the vehicle is considered valid only if the motor vehicle has a proper and effective vehicle fitness certificate.

Why is a Vehicle Fitness Certificate Needed?

The main purposes of the vehicle fitness certificate are

1. To check and monitor the pollution which is produced by the release of smoke from your motor vehicles. This is very important keeping in mind the continuous issue of increasing pollution due to the smoke emission by vehicles
2. To maintain and continue your motor vehicle in good and appropriate condition
3. Last but not the least, to avoid road accidents which might occur due to the improper condition of your vehicle
4. It is clearly understood that the vehicle fitness certificate is not a choice but a must for every vehicle

ATS ELGI Reference Vehicle Fitness Centre Installations



AUTOMATED VEHICLE TEST CENTRE FOR LIGHT DUTY VEHICLE



SPEED TEST

Speedometer Tester LD

Equipment

Max. Axle Weight	: 4,000 kg
Rollers Size	: 890 x 218 mm
Roller Separation	: 435 mm
Max Speed	: 160 km/h
Precision	: $\pm 1\%$ FS
Rollers Blocking Pneumatic	: 6 bar
Lifting power	: 4.5 ton
Power Supply	: 1 ph, 230 V, 50 Hz
Over all Dimension (LxWxH)	: 3,576 x 1,040 x 400 mm
Weight	: 1,250 kg

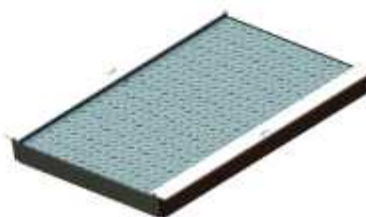


SLIP TEST

Slip Tester LD

Equipment

Max. Axle Weight	: 4,000 kg
Measuring Plate	: 1,000 x 460 mm
Accuracy	: ± 0.1 m/km
Measurement Range	: ± 20 m/km
Over all Dimension (LxWxH)	: 1,020 x 540 x 95 mm
Weight	: 90 kg

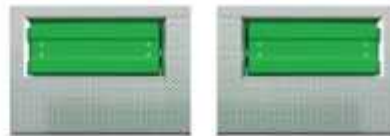


SUSPENSION TEST

Suspension Tester LD

Track Width	: 815 - 2,200 mm Variable
Max. Axle Weight	: 3,000 kg
Excitement Stroke	: 6 mm
Excitement Frequency	: 25 hz (16 hz optional)
Motor	: 3 kW
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension	: (866 x 800 x 280 mm) x 2
Weight	: (380 kg) x 2

Equipment



BRAKE TEST

Brake Tester LD

Track Width	: 300 - 2,240 mm Variable
Max. Axle Weight	: 4,000 kg
Rollers Size	: 726 x 206 mm
Roller Separation	: 400 mm
Test Speed	: 5.4 km/h
Motor	: 4.6 kW
Friction Coefficient Dry	: > 0.8
Humid	: > 0.6
Measurement Range	: 0 - 12 kN Auto-scale
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension (LxWxH)	: (1,430 x 680 x 280 mm) x 2
Weight	: (350 kg) x 2

Equipment

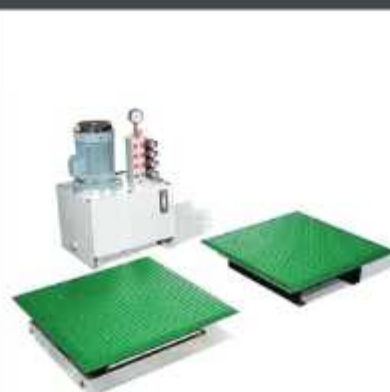


AXLE & JOINT TEST

Axle & Joint Tester LD

Surface	: Anti-Slip
Max. Axle Weight	: 4,000 kg
Thrust Force	: 12,500 N
Motor	: 2.2 kW
Working Pressure	: 120 bar
Displacement	: 100 mm
Displacement Speed	: 12 cm/s (120bar)
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension	: (650 x 650 x 160 mm) x 2
Weight	: 250 kg

Equipment



AUTOMATED VEHICLE TEST CENTRE FOR HEAVY DUTY VEHICLE



SLIP TEST

Slip Tester HD

Max. Axle Weight	: 18,000 kg
Measuring Plate	: 1,000 x 690 mm
Accuracy	: ± 0.1 m/km
Measurement Range	: ± 20 m/km
Over all Dimension (LxWxH)	: 1,020 x 780 x 95 mm
Weight	: 134 kg

Equipment



BRAKE TEST

Brake Tester HD

Track Width	: 800 - 3,100 mm
Max. Axle Weight	: 18,000 kg
Rollers Size	: 1,150 x 271 mm
Roller Separation	: 475 mm
Test Speed	: 3 km/h
Motors	: 11 kW
Friction Coefficient Dry	: > 0.8
Humid	: > 0.6
Measurement Range	: 0 - 40 kN Auto-scale
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension (LxWxH)	: (1,140 x 1,427 x 650 mm) x 2
Weight	: (860 kg) x 2

Equipment



SPEED TEST

Speedometer Tester HD

Equipment

Max. Axle Weight	: 18,000 kg
Rollers Size	: 890 x 270 mm
Roller Separation	: 500 mm
Max. Speed	: 100 km/h
Precision	: ± 1% FS
Rollers Blocking	: Hydraulic
Lifting power	: 18 ton
Power Supply	: 3 ph, 400 V, 50 Hz
Over all Dimension (LxWxH)	: 3,576 x 1,040 x 400 mm
Weight	: 1,250 kg



BOOGIE ROLLER

Boogie Roller HD

Equipment

Built	: Steel
Max. Axle Weight	: 18,000 kg
Lock Rollers	: Tire
Rollers Blocking	: Pneumatic
Track Width	: 800 - 3,100 mm
Axis Distance	: 1,350 - 1,900 mm
Roller Measurements	: 1,150 x 216 mm
Over all Dimension (LxWxH)	: 3,480 x 900 x 400 mm
Weight	: 250 kg



AXLE & JOINT TEST

Axle & Joint Tester HD

Equipment

Surface	: Anti-Slip
Max. Axle Weight	: 18,000 kg
Thrust Force	: 25,000 N
Motor	: 3 kW
Working Pressure	: 120 bar
Displacement	: 100 mm
Displacement Speed	: 9.5 cm/s (120bar)
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension (LxWxH)	: (850 x 850 x 185 mm) x 2
Weight	: 450 kg



COMMON EQUIPMENTS FOR AUTOMATED TESTING STATION

HEADLIGHT AIMING

Testing Area	
Up / Down	: 0 - 8% / 0 - 8%
Left / Right	: 0 - 10% / 0 - 10%
Luminous Intensity	: 0 - 125 kcd
Measurement Tolerance	: $\pm 0.1\%$
Measurement Resolution	: $\pm 0.01\%$
Measuring Range	:
Electronic Spirit Level	: $\pm 2\%$
Vertical Positioning Range	: 230 - 1,500 mm (center lens - floor)
Over all Dimensions (LxWxH)	: 665 x 670 x 1805 mm
Weight	: 50 kg



SOUND LEVEL METER

Measuring level	: ± 30 dB to ± 120 dB
Frequency	: A & C
Accuracy	: ± 1.5 dB
Minimum Temp range	: -10°C to 50°C
Dust	: Typical Indian testing condition

- Recommended as per IEC 60651/ IEC 61672-1
- Tripod stand mounted
- Build (rechargeable) battery for power source of charging from outlet of 220V AC
- Time weighting characteristics designated SLOW (S), Fast (F) & impulse (I)
- Connectivity with lane software with requisite port like RS 232.Environmental range



SMOKE METER & GAS ANALYZER

- Available as cabled or Bluetooth
- Euro 6 (diesel) software
- Includes first 6 months of calibrations
- Automatic calibration
- HGV Reduced Pollution Certification test (RPC)
- Sampling pipe options
- Robust and easy to handle
- Well balanced
- Weatherproof
- Low warm-up time
- Accurate measuring to at least -15°C . Wet or cold conditions present no problems to this emissions analyser



FREE ROLLER - LD

Construction	: Composite and Aluminum
Max. Axle Weight	: 3,500 kg
Rollers Size	: 398 x 50 mm (Individual roller)
Over all Dimension	: (570 x 450 x 95 mm) x 2
Weight	: 14 kg

- Portable Free rollers Kit to perform testing on roller brake tester to 4WD vehicles with auto blocking differential base
- Its Aluminum and Composite construction makes them particularly light, just 14 kg



ELECTRONIC TURN PLATE - LD & HD

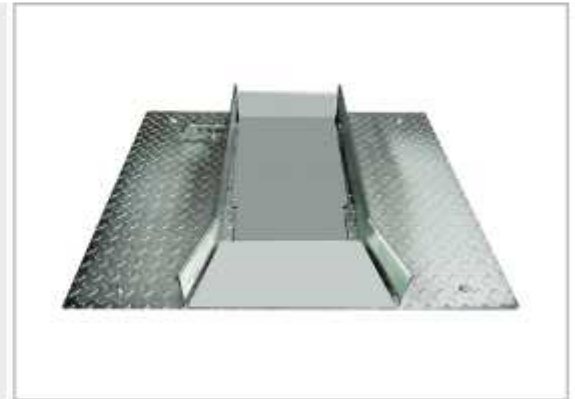
- Angular movement $\pm 30^\circ$
- Indicating mechanism - manufacturer has to specify the indicating mechanism
- Incorporation with different steering wheel geometry



THREE WHEEL TROLLEY

Sliding platform for Three Wheelers, allows driving over the inspection pit with safety, easy accessing axle play detector with the rear axle.

Max. Axle	: 500 kg
Blocking System	: Mechanical
Size	: 785 x 620 mm
Weight	: 34 kg



LICENCE PLATE READER - LPR

This high resolution IP camera with IR light enables the automatic capture both the Image in the Vehicle Inspection Center and License Plate Recognition. The integration with the Test Win Software prevents inspection tampering, assigning the inspection results to the applicable vehicle automatically.



EXHAUST EXTRACTION SYSTEM

Exhaust emissions from a cold-start engine can reach toxic levels within a closed building. Even though the vehicles are run only a short time indoors and with open doors, the odorless carbon monoxide (vehicle exhaust) builds up in the building. Without control and removal of the vehicle exhaust fumes they can lead to worker illness, heavier facility maintenance and damages the sensitive electronics of diagnostic and servicing equipment in the workshop.



CALIBRATION KIT FOR TEST LANE

- Calibration Tool and 30 kg Weight for Cars Brake Tester
- Calibration Tool and 30 kg Weight for Heavy Duty Brake Tester
- 30 kg Calibration Weight
- Eusama Suspension Tester Calibration Tool and 30 kg Weight
- Side Slip Tester Calibration Device
- Weight Calibration Device for Heavy Duty Vehicles Brake Tester



AIR INFLATOR

Model	: Handheld
Operating Pressure	: 0 - 174 psi
Pressure Setting	: 7 - 174 psi
Measuring Resolution	: 0.5 psi
Input Air Supply	: 10 - 12 bar
Power Supply	: Rechargeable Battery
Suitable for	: 2 W / 4 W / LCV / HCV



AIR COMPRESSOR

Model	: ATS 05 RD 22	ATS 07 RD 22
Power	: 5 hp / 3.7 kW	7.5 hp / 5.6 kW
Compressor Speed	: 960 rpm	960 rpm
Max. Working Pressure	: 12 bar / 175 psi	12 bar / 175 psi
Free Air Delivery	: 15.5 cfm	24 cfm
Air Receiver	: 220	220
Over all Dimension (LxWxH)	: 1,590 x 595 x 1,045 mm	1,640 x 635 x 1,110 mm
Weight	: 190 kg	255 kg



ATS ELGI

28
STATES

65+
DEALERS

60+
EXPERIENCE
IN YEARS

250+
NO. OF
PRODUCTS

130+
SALES
WORK FORCE

300+
SERVICE
PERSONNEL

8000+
CUSTOMERS

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