



**AUTOMATED**  **TESTING STATION EQUIPMENT**

## 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 compliments 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 STATION FOR LIGHT DUTY VEHICLE



## SPEEDOMETER TESTER

### Speedometer Tester - LD

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

### Equipment

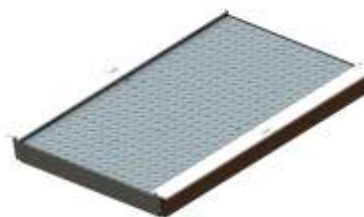


## SIDE SLIP TESTER

### Side Slip Tester - LD

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

### Equipment



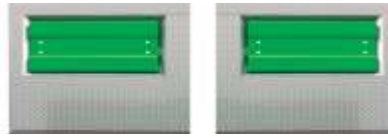


## SUSPENSION TESTER

### Suspension Tester - LD

Track Width	: 675 - 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

### Equipment



## ROLLER BRAKE TESTER

### Roller Brake Tester - LD

Track Width	: 755 - 2,240 mm Variable
Max. Axle Weight	: 4,000 kg
Rollers Size	: 723 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 - 6 kN Auto-scale
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension (LxWxH)	: (1,430 x 680 x 280 mm) x 2
Weight	: 550 kg

### Equipment



## JOINT PLAY TESTER

### Joint Play 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	: 80 mm
Displacement Speed	: 12 cm/s (120bar)
Power Supply	: 3 ph, 400 V, 50 Hz
Dimension	: 650 x 650 x 160 mm
Weight	: 250 kg

### Equipment



# AUTOMATED VEHICLE TEST STATION FOR HEAVY DUTY VEHICLE



## SIDE SLIP TESTER

### Side Slip Tester - HD

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

### Equipment



## ROLLER BRAKE TESTER

### Roller Brake Tester - HD

Track Width	: 900 - 3,100 mm
Max. Axle Weight	: 13,000 kg
Rollers Size	: 990 x 206 mm
Roller Separation	: 450 mm
Test Speed	: 2.5 km/h
Motors	: (7.5 kW) x 2
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)	: (1,000 x 1,560 x 325 mm) x 2
Weight	: (450 kg) x 2

### Equipment



## SPEEDOMETER TESTER

### 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



## BOGIE ROLLER

### Bogie Roller - HD

### Equipment

Built	: Steel
Max. Axle Weight	: 18,000 kg
Rollers Blocking	: Manual
Track Width	: 800 - 2,950 mm
Roller Measurements	: 1,150 mm
Roller Diameter	: 215 mm
Over all Dimension (LxWxH)	: (1,530 x 425 x 419 mm) x 2
Weight	: (240 kg) x 2



## JOINT PLAY TESTER

### Joint Play 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 EQUIPMENT FOR AUTOMATED TESTING STATION

## SEMI AUTOMATIC HEADLIGHT TESTER - LD & HD

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 - LD & HD

Measuring level	: $\pm 30$ dB to $\pm 120$ dB
Frequency	: A & C
Accuracy	: $\pm 1.5$ dB
Minimum Temp range	: $-10^{\circ}\text{C}$ to $50^{\circ}\text{C}$
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



## EXHAUST GAS ANALYZER - LD & HD

- 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  $-15^{\circ}\text{C}$ . Wet or cold conditions present no problems to this emissions analyser



## OPACIMETER - LD & HD

- Equipment to meet specifications as per MoRTH / Central Motor Vehicles Rules, 1989 / TAP 115 / 116 or AIS 137 (Part 8)



## OBD SCAN TOOL - LD & HD

- Compliant to : OBDII/EOBD/HD-OBD/WWH-OBD Scan-Tool in accordance with SAE J1979, SAE J1939 and ISO 27145
- Must Support all OBD modes
- Diagnostics Communication mediums supported : KWP2000 (K-Line, CAN TP2.0 & ISO-CAN), UDS (ISO-CAN)



## TEST FINGERS - EV & HYBRID

IPXXB & IPXXD Test Fingers



## INSULATION TESTER - EV & HYBRID

Test Voltage	: 500 V, 1000 V, 2500 V & 5000 V (DC)
Test Voltage Accuracy	: 0% to 20%
500 V Range (Accuracy)	: 1 MOhm to 20 GOhm ( $\pm 3\% +5$ )
1000 V Range (Accuracy)	: 2 MOhm to 40 GOhm ( $\pm 3\% +5$ )
2500 V Range (Accuracy)	: 5 MOhm to 100 GOhm ( $\pm 3\% +5$ )
5000 V Range (Accuracy)	: 10 KOhm to 1000 GOhm ( $\pm 3\% +5$ )
Short Circuit Current	: 1.8 mA
AC/ DC Voltage	: 600 V
Low Resistance	: 0.10 hm to 999.90 hm



## FREE ROLLER SET - LD (for Speedometer test on All Wheel Drive vehicles)

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 STEERING GEAR PLAY DETECTOR - LD & HD

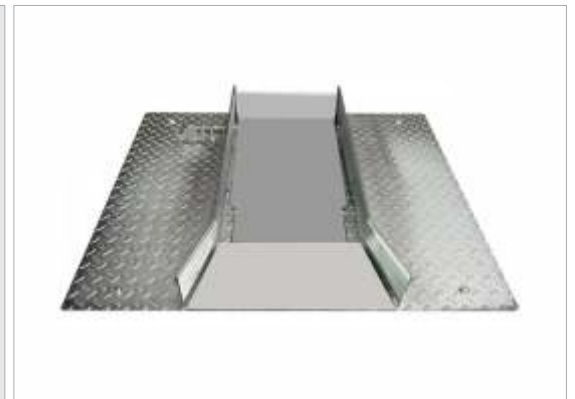
- Angular movement  $\pm 30^\circ$
- Indicating mechanism - manufacturer has to specify the indicating mechanism
- Incorporation with different steering wheel geometry



## TOEING TROLLEY (for Front Wheel of Three Wheeled Vehicle)

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 - LD & HD

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 - LD & HD

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 - LD & HD

- 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 - LD & HD

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 - LD & HD

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



Due to continuous engineering improvement, technical specifications are subject to change without prior notice

# ATS ELGI

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