

# Diagnostic solutions **TRUCK**



**TEXA**

# GLOBAL SPECIALISTS IN DIAGNOSTICS

TEXA has always been a reference point in the world of automotive equipment, and this leading position has been consolidated through the design and manufacture of innovative tools for electronic autodiagnosis, electrical diagnosis, exhaust gas analysis and air conditioning system service stations, for use on cars, trucks, motorcycles, agricultural vehicles and marine applications. Over the years, TEXA has built up an extensive global network of over 700 distributors in over 100 countries.

## **A complete and modular offer**

TEXA offers the technician total assistance during all phases of a repair, from the analysis of fault symptoms to the identification of the right spare part. TEXA boasts an unrivalled offering of tools and services designed to satisfy all possible needs. From dedicated workshop tools to operating software, specialist training and customer services.





# IDC5 SOFTWARE

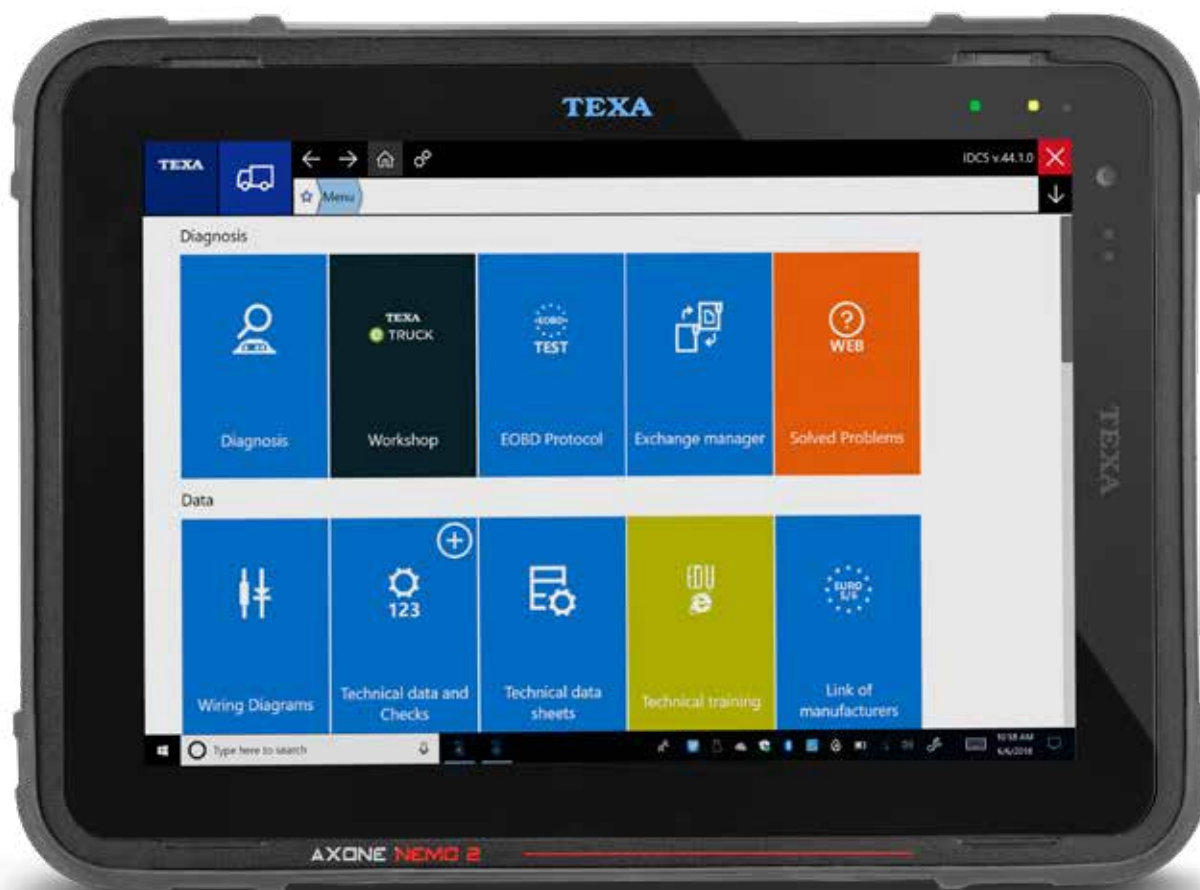
## Diagnosis without frontiers

IDC5 is the latest generation of TEXA's renowned operating system and another step forward to assist technicians. Thanks to major improvements in code the new system is faster than ever and guarantees virtually instant communication with a vehicle's control units.



# An even more intuitive software interface

The graphic interface of IDC5 is designed to resemble the latest consumer applications, **simplifying and making the various steps** in maintenance and repair procedures **more intuitive**. On top of this, all diagnostic pages have been redesigned to give a **fuller view of the most relevant information**. Another new function allows you view and manage vehicle parameters. These can be displayed in graphic form and can be filtered using text searches or by selecting those specifically required. Even the downloading of updates is faster in the new software. IDC5 is constantly evolving and is open to new technologies that appear in the near future, including.





# A whole world of functions and services

IDC5 is the software provides an extensive series of exclusive functionalities developed and optimised by TEXA's own R&D department.

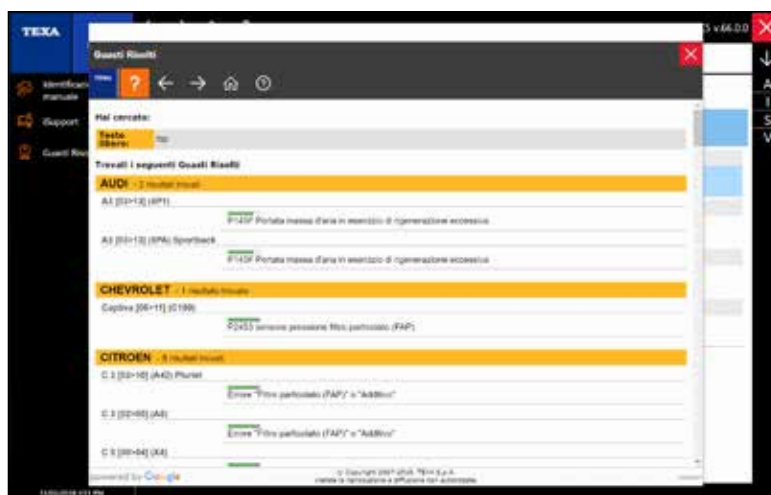


## SOLVED PROBLEMS and TROUBLESHOOTING powered by Google™

Using this function, technicians can carry out repairs rapidly and applying the correct procedure, exploiting Google® search technology to access the TEXA troubleshooting database. This contains solutions found by technicians all over the world and collected by TEXA's international call centres.

Two kinds of search can be performed using SOLVED PROBLEMS:

- **Troubleshooting**, i.e. logical and systematic searches for the cause of a problem, designed to analyse symptoms and determine the right solution by following a precise flow.
- **Workshop experience**, for finding practical solutions based on advice given by our Call Center experts to tens of thousands of TEXA customers around the world.



## Automatic Vehicle Search

The Vehicle Search function identifies the model you are working on precisely and rapidly. Quick and intuitive, the Vehicle Search function can be used in the following ways:

**VIN code search:** with the diagnostic tool connected to the vehicle's OBD socket, this function automatically retrieves the VIN and then selects the model of vehicle from the IDC5 software database.

**Engine number search:** in this case the vehicle is identified simply by entering the engine number.

**Registration number search:** this function lets you find and load data for any vehicle saved in IDC5's Customer Management database, simply by entering the complete or partial registration number.



## TGS3s global system scan

The amazing TGS3s automatically scans all the accessible\* control units on the vehicle. The system is impressively fast in the way it recognises the ECUs and accesses the relevant diagnostics. On completion of the scan, TGS3s immediately displays any errors detected on the vehicle along with the relevant error codes and descriptions. It also lets you read and reset errors with a single click. You can even run autodiagnosics on selected systems directly from the error detection screen.

\*TGS3s scanning may not function with older models of vehicle since previous generation control units may not support the latest scanning functionalities.



## Freeze Frame

Freeze Frame lets you view the display of parameters and data detected and recorded at the moment a fault occurs. The actual information displayed by Freeze Frame may vary from one vehicle manufacturer to another and from one type of system to another.



## Error Help

"Error Help" is the easiest and most accessible way to obtain information on errors. The help content provides useful information on the meaning of error messages and if necessary, on what checks to perform first.



## Wiring Diagram Detail

This function makes an instant link between the error read from the control unit and the corresponding component on the wiring diagram. From the wiring diagram you can access the test functions and device descriptions typical of the IDC5 operating environment.



## Recording of diagnostic sessions Rec & Play

Faults sometimes intermittently occur under specific operating conditions. For example, power may be lost only when driving uphill or when the engine is under a high load, or perhaps a warning light comes on only when the engine is hot. Under conditions like these, the Rec & Play function offers the perfect solution, as it lets you record parameter values and any errors that occur during a road test. Data can be viewed and analysed later and even printed out as a report on the test.



## OEM Vehicle Check-Up

This function displays a list of systems configured on a vehicle and lets you view a list of any errors detected. The function identifies all ECUs and reads their error logs (3 to 20 times faster than normal). It also determines the state of each error (active or logged) and provides instant access to the "Error Help" function and related fault solutions. In addition, the function lets you select and display a determined group of ECUs and even cancel errors without having to re-establish communication between the tool and the control unit.

## Special reprogramming functions

Specific vehicles and/or systems may require special functions, such as: reprogramming of new generation air dryers (APU: Air Processing Unit / APM: Air Processing Module); programming of ZF As-Tronic® transmissions; advanced configuration of new EBS braking systems on trailers; and replacement of electronic control units with the possibility of transferring parameter settings from the old unit to the new one. All these special functions can be performed easily and safely in IDC5 TRUCK.

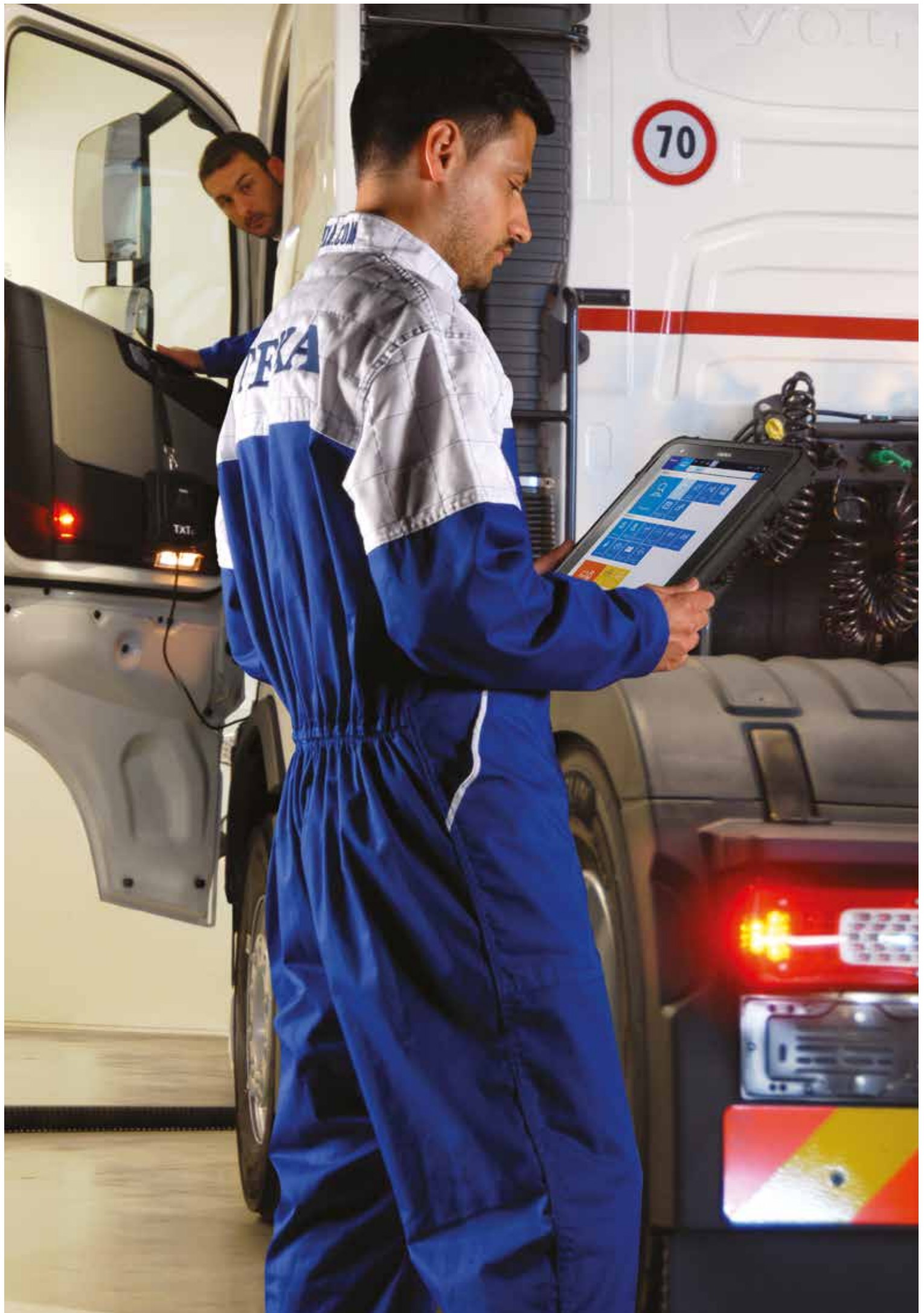


## DASHBOARD

The DASHBOARD\* is an exclusive function of IDC5 operating software that lets you view a vehicle's operating parameters. Its attractive and intuitive graphic interface reproduces a vehicle's dashboard, mechanical components and functioning logic.



\*Customers using an AXONE NEMO 2 diagnostic tool will find the DASHBOARD already present and active. Customers using other diagnostic tools can purchase DASHBOARD as a dedicated app from the "TEXA APP" virtual store.



# Support for Autodiagnosics

Technical Specifications, Data sheets and Wiring Diagrams provide detailed information on the functionalities of individual systems to support autodiagnostic tests. In addition, users can also look up specific mechanical data for each vehicle.



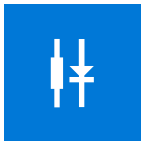
## Technical Specifications

An extraordinary database containing details of all vehicles. Users can find detailed and comprehensive information on Mechanical Specifications, Wheel Alignment, Tire Pressures, Timing Belt, Routine Maintenance, Component Locations, Component Testing and much more besides.



## Data sheets

TEXA's technical bulletins provide superbly accurate information on the selected vehicle, including instructions for performing a manual reset after servicing, overviews of specific mechatronic systems and much more.



## System wiring diagrams

Wiring diagrams are prepared by TEXA's own engineers. Because they follow the same standard for all vehicle manufacturers, they are a great help in troubleshooting. While you are consulting a wiring diagram, you can also access related datasheets by selecting a specific component or use the SIV function to perform oscilloscope tests using automatically selected settings.



## iSupport

This function can be used to send a request for assistance simply by entering the type of vehicle and the system being serviced, then describing the specific problem that cannot be solved. The TEXA call centre will immediately deal with the request and provide a response to solve the problem in the shortest possible time.

# Diagnostic solutions

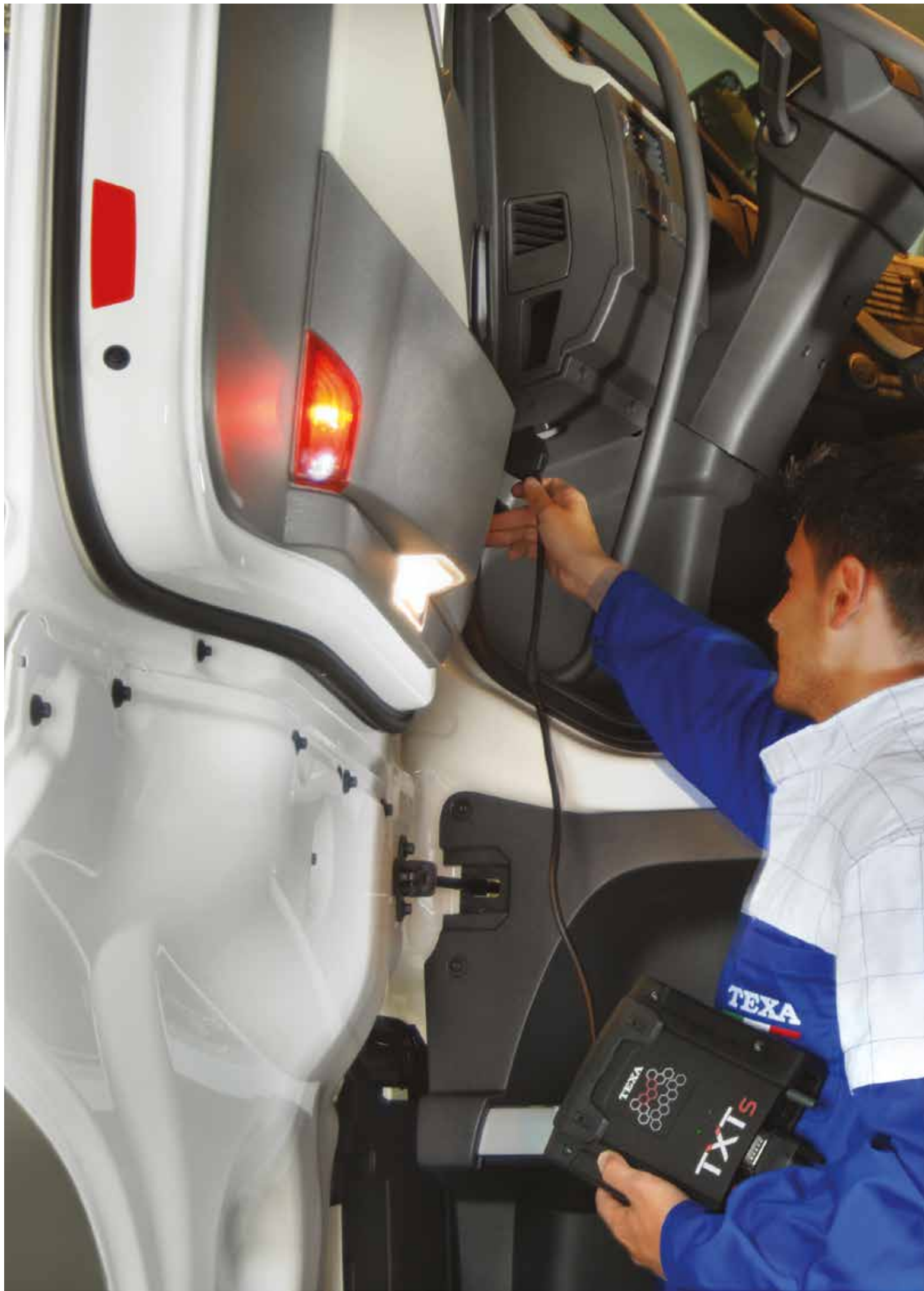
TEXA's diagnostic solutions are based on the powerful **AXONE NEMO 2** display units and on the robust **NAVIGATOR TXTs** vehicle interface. These devices connect and communicate with the vehicle's electronic control units and guarantee levels of speed and performance that are simply unrivalled in the world of multi-brand diagnostics. TEXA devices provide unique support for today's vehicle technicians and also stand out for their ease of use and versatility. All TEXA interfaces are fully compatible with standard personal computers.



## AXONE NEMO 2

**AXONE NEMO 2** is the top-of-the-range multi-brand display unit. Being a multi-environment tool, it guarantees that mechanics can carry out quick, complete and precise operations on **cars, light commercial vehicles, trucks, agricultural and construction vehicles, bikes** and **boats**. It has a **12-inch capacitive** screen, with 2160x1440 resolution, protected by Gorilla Glass. Inside, the Windows 10 Enterprise operating system is powered by an Intel® Pentium Quad Core N5000 processor with 8 GB DDR4 RAM and 250 GB PCIe SSD storage. Connectivity is guaranteed by an advanced dual-channel **Wi-Fi** system and a **Bluetooth® 4.2** module. Another distinctive element is the **military standard MIL-STD 810G** (transit drop test), which makes the tool resistant to impacts and falls.







## NAVIGATOR TXTs

The NAVIGATOR TXTs is the most powerful, highest performer of TEXA's vehicle interfaces and lets you work in the **OFF-HIGHWAY, CAR, TRUCK, BIKE and MARINE** environments. You can use it to run autodiagnostic tests, view parameters, status, activate devices, perform adjustments and configurations, reset warning lights, maintenance, service and airbag indicators, configure ECUs, program keys and remotes and much more.

The NAVIGATOR TXTs is **compatible with PASS-THRU protocol\***, which allows workshops to connect to manufacturers' central servers and download software packages or official technical information.



\*At the website [www.texa.com/passthru](http://www.texa.com/passthru), verify the recommended minimum hardware requirements and the enabled vehicle manufacturer diagnostic functions.

## TEXA eTRUCK

TEXA eTRUCK is an innovative miniaturised tool that, for the first time, takes heavy duty truck workshops into a new diagnostic dimension thanks to the possibility to **constantly monitor the status of the vehicle remotely**, to **manage the servicing from a predictive point of view** and, the latest new feature, to **perform adjustment functions** that allow you to restore the vehicle's optimal conditions.

**TEXA eTRUCK**, which is installed in the vehicle's diagnostic socket\* and configured within minutes, acts as a conjunction element between the repairer and the heavy duty vehicle, helping increase customer loyalty thanks to a constant and absolutely competent assistance service.

**TEXA eTRUCK** represents the ideal solution even for **drivers** and **fleet managers**, as it constantly keeps them updated on the conditions of their vehicles and allows them to carry out actions aimed at reducing costs and optimising the use of the vehicles, thanks to a dedicated app and management portal.

\*Deutsch 9 PIN through special adapter for HD American Trucks.



## For TEXA workshops

through the Workshop Portal, there is the possibility to increase customer loyalty thanks to a highly professional service, which allows them to:

- Constantly monitor the status of the vehicles remotely and to intervene on the electronic systems as if they were in the workshop;
- Manage the ordinary and extraordinary maintenance in advance;
- Share an appointment planner for the maintenance with the driver and the fleet manager;
- Manage the customer portfolio with a single software program;
- Create a detailed customer profile.



## For the drivers

Thanks to an APP\* that supplies very useful information while driving the vehicle, it is possible to:

- Read the Tachograph data in real time;
- Monitor your driving style;
- Fill out a Driver's Daily Vehicle Check & Defect Report list as required by the regulations of certain countries;
- Read the vehicle data in real time;
- Have a remote vehicle diagnosis available that helps solving any fault quickly, avoiding having to go to the workshop;
- Consult the service calendar shared with the workshop.

**Home page**



**Monitor the driving style**



**Read Tachograph data**



## The fleet manager

Through the Fleet Manager Portal, can:

- Check the entire fleet regarding the status of the vehicles at a maintenance level;
- Assist remotely, through the diagnosis and the solution of possible vehicle faults by the workshop, reducing costs and increasing efficiency;
- Monitor the status of the maintenance of the vehicles and their expirations;
- Share an appointment planner for the maintenance with the workshop;
- Detect each driver's driving style;
- Download the Tachograph data remotely;
- Download remotely, directly from the ECU, the Trip Data Recorder, allowing detailed analyses of the use of the vehicle.



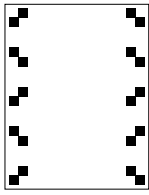
# ADAS TRUCK Kit

Some truck and commercial vehicle manufacturers require specific equipment for the proper calibration of driver assistance systems, which include cameras, radars and sensors that govern the Adaptive Cruise Control. TEXA offers an adjustment system that includes a measuring bar, panels divided by make – dedicated to cameras and laser devices – that are essential for the correct alignment and calibration of WABCO, TRW and TRW/Knorr radars.

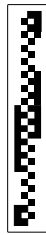
The **ADAS TRUCK Kit** also includes a set of clamps with laser pointer, a laser to adjust the Adaptive Cruise Control and the mirror adapter for WABCO radars. Furthermore, the **IDC5 software** guides the operator step by step in the case of vehicles that carry out the self-calibration through on-road adaptation procedures.



## TRUCK calibration panels and accessories



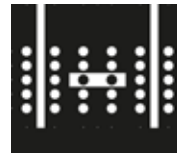
**VOLVO/RENAULT  
TRUCK Euro 6**



**MAN  
SCANIA  
IVECO DAILY 2014**



**VOLVO EU6,  
RENAULT TRUCK  
EU6 (MAN LCV TGE,  
VW Crafter)**



**VAG  
(front)**



**MERCEDES  
(front)**



**KIA/HYUNDAI, FIAT  
500X, FIAT DUCATO  
X290 und JEEP  
RENEGADE Type 2  
(front)**



**ISUZU**



**Magnetic graduated scale  
for checking chassis  
alignment**



**Laser for Adaptive  
Cruise Control**



**WABCO radar  
mirror adapter  
(optional)**



**Set of clamps  
with laser pointer**



# Electrical diagnostics

In many cases, autodiagnosics cannot provide the answer. If a vehicle's ECUs have no errors logged, the problem may well lie in an electrical or mechanical failure. Conventional diagnostics are needed in these circumstances and analog and digital measurements are taken to determine the efficiency of components like the battery, sensors, actuators and CAN network. TEXA's UNIProbe and TwinProbe interfaces let you make all the physical measurements you need to perform a conventional diagnosis and identify potential faults.





## UNIProbe

The UNIProbe includes:

- **Oscilloscope:**

four independent analogue channels, complete with SIV\* function for interpreting measured signals.

- **Battery Probe:**

for testing the battery, analysing and checking the entire starting and charging system.

- **TNET:**

for the measurement and electrical analysis of CAN automotive communication networks.

- **Signal Generator:**

for simulating the pulses generated by sensors and the commands generated by control units and testing solenoid valves and other components.

- **Multimeter:**

for voltage, resistance and current measurements (using a clamp-on ammeter).

- **Pressure Tester:**

for checking fuel supply and turbocharger pressure on all vehicles.



\*Indication of the range of values that the working component should measure

# KONFORT A/C recharge stations

The KONFORT 700 range is made up of innovative models with different specifications and operating modes for the high precision of vehicle air conditioning systems. The range is produced on an assembly line that is the only one of its kind in the world to ensure the ultimate in quality and lasting reliability. The exceptional characteristics of their components guarantee a refrigerant recovery rate of over 95%. An essential, stylish design combines with easy handling, sturdiness and safety to make all A/C system maintenance operations quick and easy.



## KONFORT 760R BUS

The KONFORT 760R BUS is the ideal solution for carrying out A/C system maintenance and refrigerant recharging on all heavy goods vehicles. This **highly-automated workstation** - recommended by the world's leading vehicle manufactures - implements advanced technology and features a total of eight registered international patents. The 760R BUS has been **designed specifically for large A/C systems**. The operating software installed reflects the strictest SAE standards in terms of precision and accuracy. Using a vast array of sensors, the KONFORT 760R BUS can manage refrigerant identification and recharging operations with unprecedented precision. An evolved TFT **colour display** follows all the phases of the automated recharge cycle, displaying images, graphics and data screens. Any malfunction encountered is flagged up and identified by a detailed error message. A removable memory (SD card) allows the station to communicate with a stand-alone Windows PC for the purpose of updating the database of makes and models, checking and certifying completed maintenance operations, and upgrading software when necessary. The KONFORT 760R BUS can be fitted with a **refrigerant identifier kit** to prevent contamination between refrigerants and to detect the presence of counterfeit products in the vehicle's air-conditioning system.

### Main features

- R134a or R1234yf compatible
- High visibility colour TFT display with interface Graphics
- DATABASE/SERVICE management via SD card
- Rotating gauge display
- 30 Kg internal tank
- +/- 15 gr load precision
- High efficiency refrigerant recovery (above 95%)
- Dual stage vacuum pump
- Hermetically sealed bottles
- Automatic high precision oil injection
- Automatic oil bottle recognition
- Automatic precise refrigerant measurement check
- Scale lock system
- Automatic service procedure management

- Functionality:
  - DATABASE
  - PERSONALISED SERVICE
  - MY DATABASE
- Multilingual software
- Automatic service hose length compensation
- Automatic maintenance alarm
- Simplified maintenance
- Automatic management of uncondensable product

### Optional

Flushing Kit, VDC Kit, Climate efficiency kit, refrigerant identifier kit, thermal printer, air conditioning system autodiagnosics.

## KONFORT APP

Thanks to a dedicated APP, KONFORT 760R BUS can interface with Android and iOS mobile devices, allowing technicians to **follow** the vehicle A/C system **service procedures** in progress also remotely, directly from their **smartphone**. Furthermore, the new APP allows managing the performed maintenance services easily, even when the station is turned off.



# Simple, quick, smart just a “touch” for recharging

Its more than ten years' leadership in the vehicle A/C service and recharge field has allowed TEXA to obtain the approval and recommendation by the major vehicle manufacturers worldwide. From the same experience, TEXA has given birth to **KONFORT TOUCH**, a range of charging stations characterised by exceptional manufacturing quality, designed for all the A/C service operations on vehicles that use refrigerant **R134a** and **R1234yf**.

In a **simple, quick, smart** way, and with the utmost ease of use.

## The KONFORT TOUCH range is:

**Simple**, because its **10-inch colour touchscreen display**, the Android™ operating system and its main service dashboard allow users to customise the charging operations and start them really easily.

**Quick**, because the navigation menu enhances the user experience and gathers all the key functions in the main page, allowing users to complete the operations with absolute precision and in just a few steps.

**Smart**, because its advanced connectivity allows it, for example, to update automatically, receive remote assistance and connect to other devices, such as printers and smartphones. Moreover, it uses a search algorithm that identifies the vehicle in the wide database by simply entering a keyword, therefore avoiding the classic selection of make and model.

*Simple and intuitive  
thanks to its wide  
touchscreen display*



*Flexibility of use  
with the built-in Wi-Fi*



***Even quicker  
A/C service***

# Four models for every need

The KONFORT TOUCH range includes four models; each of them is rich in exclusive functions and special features, for every operational need.

## KONFORT 780 TOUCH BI-GAS (R134a and R1234yf)

The **top of the range**. It allows users to alternate services on vehicles equipped with refrigerants R134a and R123yf, as it has **two tanks** and **two separate circuits for recovery, recycling and recharging**.

The service process is **automated**.

Other distinctive features: **airtight oil bottles**, **scale locking/unlocking** device, refrigerant weight accuracy check system, **automatic cleaning** device for all the hydraulic ducts.

## KONFORT 760 TOUCH KONFORT 760 BUS TOUCH (R134a or R1234yf)

Both high-performing, also equipped with **airtight oil bottles**, **fully automatic** service management, scale locking/unlocking device and **refrigerant weight accuracy** check.

Moreover, the **760 BUS TOUCH** version is designed for larger systems and equipped with a larger tank, pump and compressor.

## KONFORT 720 TOUCH (R134a or R1234yf)

"Entry level" version in the range, KONFORT 720 TOUCH has **automatic functions** for the refrigerant recovery and recycling and for the oil drain.

Quantities of oil and UV tracer are controlled by an **automatic valve system**. The operator therefore only has a few simple tasks to carry out.

# A large display for great results

The KONFORT TOUCH charging stations are equipped with a **10-inch colour multi-touch screen display**, which gives them great usability and allows always having a clear view of the operations to perform. Moreover, the **innovative graphic interface** has been developed to ensure a really intuitive software user experience, making it easier to **quickly read the data** displayed.

Data reading is best supported by the high resolution and 400 nits brightness.

An interesting feature is also the possibility for the operator to choose between a light or dark theme for the background. The display on the KONFORT TOUCH stations features the **glove-touch technology**, which ensures perfect use while wearing different types of work gloves.



**10-inch colour  
industrial touchscreen display**

**Glove-touch  
technology**

**Quick data  
reading**

**Intuitive  
graphic interface**



# Emissions Diagnostics

The TEXA solution for exhaust gas analysis includes a series of tools for performing all the tests and analyses currently required by emission control legislation: GASBOX Autopower, OPABOX Autopower, GAS Mobile, MULTI PEGASO 3, RC2, RC3, RCM.





# Future-proof solutions for PTI center

Exhaust gas analysis is one of the most delicate and important phases in the mandatory testing of old and new motor vehicles. In recent years, advances in technology have led to the development of vehicles that are far more efficient in terms of exhaust gas emissions. Even these vehicles, however, need to be tested and certified to ensure that their emissions remain within the limits established by law. As time passes, emission limits are also becoming stricter, requiring the use of advanced technology to carry out the necessary tests. The demand for exhaust gas analysis tools is therefore constantly growing, not only from authorised vehicle test centres but from conventional garages too. TEXA has the solutions to satisfy that demand. TEXA's innovative exhaust gas analysis products are designed for use by test centers and garages performing pre-test checks. These easy to use tools incorporate TEXA's own, patented measuring technology and ensure accurate and reliable exhaust gas analysis in conformity to the latest emission control standards. Bluetooth communication technology and TEXA's Autopower battery technology mean that these tools can be used without any awkward cables. All TEXA exhaust gas analysis tools come with a practical trolley for easy mobility around the workshop without having to lift and carry them.



## **GASBOX AUTOPOWER**

### **Exhaust gas analyser**

The GASBOX Autopower is an exhaust gas analyser for the measurement of CO, CO<sub>2</sub>, O<sub>2</sub>, HC (and optionally NO) in petrol and gas fuelled vehicles. It is homologated by the Italian Ministry of Transport for use in vehicle test centres on light and heavy vehicles.

## **OPABOX AUTOPOWER**

### **Opacity meter**

The OPABOX Autopower verifies the opacity of exhaust emissions from vehicles powered by diesel engines. Its sensors can measure opacity from light and heavy vehicles. OPABOX Autopower is homologated according to the latest standards.



The GASBOX and OPABOX both come with a practical trolley for easy movement around the workshop. Standard Bluetooth connectivity and the optional Power Pack (external battery pack) make it possible to use both units in a totally wireless way.

## MULTI PEGASO 3 and GAS MOBILE

The MULTI PEGASO 3 is an exhaust gas analysis and control station **for conventional vehicle repair shops**. The station comprises a dedicated controller with the latest generation processor, and comes with Bluetooth and Wi-Fi communication modules.

The GAS Mobile is a lightweight and **compact portable device** featuring a high-visibility graphic LCD display used to test all types of engines, running on petrol, diesel or alternative fuels. It exploits Bluetooth wireless technology to communicate with OPABOX Autopower, GASBOX and the RC2 and RC3 engine speed and temperature gauges.



## RC3 and RC2

The RC3 is a **universal rev counter** for use with light and heavy vehicles. It incorporates two data acquisition systems: Battery ripple and OBD cable. As an option, it can also be used with an inductive clamp or piezoelectric sensor. The RC3 supports EOBD protocols: ISO 9141, KW2000, PWM, VPW, CAN BUS and the recent WWH-OBD.

The RC2 is a rev counter for cars. It comes with a Battery Ripple sensor but can also be used with an inductive clamp or piezoelectric sensor (both available as optionals).



# A training programme to be always “ahead of the game”

TEXA believes customer training to be particularly important, since adequate technical competence and the correct use of diagnostic tools are critical to the success of repair work. The teaching methods used in TEXA courses are based on an ideal mix of theory and practical elements. Practice plays a fundamental part, as it combines testing and simulations with use of the technicians own TEXA diagnostic tools, thus stimulating a more active and dynamic participation and effective learning.





### **P5T: USE OF TEXA SOFTWARE AND DIAGNOSIS FOR TRUCKS**

**AIM:** Know all the functions available in TEXA's IDC5 diagnostic software and their practical application, to carry out electronic diagnoses on industrial vehicles correctly. Among these: Automatic vehicle search, TGS3s Global System Scan; Error, Status, Parameter, Activation, Adjustment pages; Wiring diagrams, Technical sheets, Technical data and checks, Customer management, Technical support, Solved problems and Special code. Practical examples of diagnoses on the vehicle will be analysed during the course.

**DURATION:** 4 hours (available also on-line)



### **D9T: DIAGNOSIS AND CALIBRATION OF THE DRIVER ASSISTANCE SYSTEMS - ADAS TRUCK**

**AIM:** Know the technical features and operating modes of the Advanced Driver Assistance Systems such as the Lane departure warning, Adaptive cruise control, Blind spot detection. Learn the position and function of the technologies involved: radars, multifunction cameras, sensors and actuators, infrared cameras, ultrasonic sensors. Practical examples of static and dynamic calibrations using the Haweka calibration rig, and diagnosis. Be able to carry out the diagnostic and fault search procedures using the diagnostic tool; know how to interpret the errors, parameters, statuses, activations and adjustments pages.

**DURATION:** 6 hours (available also on-line)



### **G20T: ADVANCED EBS PROGRAMMING FOR TRAILERS**

**AIM:** Learn the operating logic and structure of the different electronically controlled braking systems for towed vehicles. Learn how to work on different systems such as WABCO EBS, KNORR-Bremse EBS and HALDEX EBS; acquire the know-how to diagnose the most common faults and eliminate their causes by following adequate repair procedures. During the course you will learn the structure of an EBS system, the electronic brake limiter, the main components, the EBS modulator, the EBS and ABS relay valves, the configurations and adjustments using the self-diagnostic tool. You will also learn the configuration transfer, and all the risks the operator can encounter while using the adjustment functions available in self-diagnosis.

**DURATION:** 8 hours (available also on-line)



### **G21T: SELECTIVE CATALYTIC REDUCTION SCR/ADBLUE®**

**AIM:** Learn the functioning of SCR systems on Euro 4, Euro 5 and Euro 6 vehicles, their reference regulations and technical limitations; the different types of systems on the market adopted by vehicle manufacturers; diagnoses and adjustments specific for each make, with explanations of the parameters and tests involved. During the course, the AdBlue® top-up procedure will be performed and practical examples of diagnoses on the vehicle will be analysed.

**DURATION:** 8 hours (available also on-line)



## **G22T: DIAGNOSIS OF CNG AND LNG-POWERED SYSTEMS AND PROCEDURES TO OPERATE SAFELY**

**AIM:** Learn the behaviour of CNG and LNG natural gas, their transport, supply and storage modes; know how tanks are made and work, and the types of connectors. Know the safety regulations and operating provisions issued by the LNG and CNG system manufacturers; know the Italian Electrotechnical Committee (CEI) standard 31-35/A on vehicle repair areas and its practical application when writing the workshop's risk assessment document. Be able to carry out the diagnosis of the LNG system control unit in SCANIA, IVECO and VOLVO vehicles. Practical examples of diagnoses on the vehicle will be analysed during the course.

**DURATION:** 8 hours (available also on-line)



## **S10T: DIAGNOSIS OF EURO 6 - IVECO AFTER-TREATMENT SYSTEMS**

**AIM:** Know the technologies used by the manufacturer IVECO in its engines to respect the Euro 6 emission standard, the best methods for diagnosing malfunctions that may occur, as well as all the diagnostic functions available in TEXA's software for reading errors and checking the operating parameters; the adaptation, calibration and service procedures for the devices on the engines of this series.

**DURATION:** 6 hours (available also on-line)

# Unrivalled coverage

**IDC5**  
COVERAGE  
UPDATE

## TRUCK

AGRALE  
ASTRA  
AUTOCAR  
BEIFANG BENCHI  
CARMICHAEL  
CATERPILLAR  
CHEVROLET  
DAEWOO AVIA  
DAF  
DAF (LATAM)  
DENNIS EAGLE  
DODGE  
DONGFENG  
E-ONE  
ERF  
FAW  
FODEN  
FORD  
FOTON  
FREIGHTLINER  
GAZ  
GMC  
HINO  
HYUNDAI  
INTERNATIONAL  
ISUZU  
ISUZU (North America)  
IVECO  
IVECO (LATAM)  
IVECO DVD  
JAC  
KAMAZ  
KENWORTH  
KRAZ  
MACK  
MAN  
MAN (LATAM)  
MAZ  
MERCEDES-BENZ  
MERCEDES-BENZ  
(LATAM / ASIA PACIFIC)  
MITSUBISHI FUSO  
NISSAN (EUROPEAN  
MARKET)  
OSHKOSH  
PETERBILT  
RENAULT TRUCKS  
RENAULT TRUCKS (LATAM)  
SCANIA  
SCANIA (LATAM)  
SHAANXI  
SHACMAN  
SINOTRUCK  
STERLING  
TATA DAEWOO  
TATRA  
TERBERG  
UD TRUCKS (NISSAN  
DIESEL)  
VOLKSWAGEN TRUCKS  
VOLVO TRUCKS  
VOLVO TRUCKS (LATAM)  
WESTERN STAR

## LIGHT COMMERCIAL VEHICLES

AGRALE  
CHEVROLET  
CITROEN

DACIA  
DAIHATSU  
DFSK  
DODGE  
FIAT  
FORD  
GAZ  
GMC  
GREAT WALL  
HAFEI  
HYUNDAI  
ISUZU  
IVECO  
KIA  
LAND ROVER  
LDV  
MAHINDRA  
MAN  
MAZDA  
MERCEDES-BENZ  
MERCEDES-BENZ  
(LATAM / ASIA PACIFIC)  
MITSUBISHI  
NISSAN  
OPEL  
PEUGEOT  
PIAGGIO  
RENAULT  
SEAT  
SKODA  
SOLLERS FIAT  
SSANGYONG  
SUZUKI  
TATA  
TOYOTA  
VICTORIA GIOTTI  
VOLKSWAGEN

## BUS

AGRALE  
ALEXANDER DENNIS  
ALLEGRO  
AMZ  
ANKAI  
AUTODROMO  
AUTOSAN  
AYATS  
BARBI  
BCI  
BEIFANG BENCHI  
BEULAS  
BLUE BIRD  
BMC  
BREDAMENARINI  
CACCIAMALI  
CAIO  
CASTROSUA  
COBUS  
COMIL  
CREDO  
CROBUS  
DAEWOO BUS  
DALLA VIA  
DE SIMON  
FAST  
GOLDEN DRAGON  
GULERYUZ  
HEULIEZ BUS  
HIGER  
HINO

HYUNDAI  
IKARUS  
INDCAR  
IRISBUS  
IRIZAR - Carrozzeria + Altri  
Telai  
IRIZAR - Integral  
ISUZU  
IVECO (LATAM)  
IVECO BUS  
KAMAZ  
KARSAN  
KING LONG  
LEXEA  
LIAZ  
MAN  
MARCOPOLLO  
MAZ (BUS)  
MCI  
MCV  
MERCEDES-BENZ  
(EVOBUS)  
MERCEDES-BENZ  
(LATAM / ASIA PACIFIC)  
MERKAVIM  
MITSUBISHI FUSO  
NEFAZ  
NEOPLAN  
NOGE  
OPTARE  
OTOKAR  
PAZ  
RAMPINI  
RENAULT BUS  
SCANIA  
SCANIA (LATAM)  
SETRA  
SHENLONG  
SILEO  
SITCAR  
SOLARIS  
SOLBUS  
SOR  
SUNSUNDEGUI  
TAM-EUROPE (TVM-  
MARBUS)  
TATA HISPANO  
TCV  
TEMSA  
TOYOTA  
TOYOTA CAETANO  
URSUS  
VAN HOOL  
VDL BERKHOF  
VDL BOVA  
VDL Bus & Coach  
VDL BUS CHASSIS  
VDL JONCKHEERE  
VISEON BUS  
VOLARE  
VOLGABUS  
VOLKSWAGEN BUS  
VOLVO BUS  
VOLZHANIN  
WRIGHT BUS  
YUTONG

## TRAILER AND SEMI-TRAILERS

BENDIX  
BPW  
CARRIER TRANSICOLD  
HALDEX  
KNORR - BREMSE  
MERITOR - WABCO  
THERMO KING  
WABASH  
WABCO

## POWERTRAIN

ALLISON  
BENDIX  
BOSCH  
CATERPILLAR  
CUMMINS  
DETROIT - MBE  
DEUTZ  
EATON  
EBERSPACHER  
FPT  
INTERNATIONAL  
ISUZU  
KNORR - BREMSE  
MERCEDES-BENZ  
MTU  
MWM  
PACCAR  
SCANIA  
VM MOTORI  
VOITH  
WABCO  
WEBASTO-SPHEROS  
YUCHAI  
ZF

## SMALL UTILITY TRUCK

AEBI  
BREMACH  
BSI VEICOLI  
BUCHER-SCHÖRLING  
CMAR  
DULEVO  
EFFEDI  
FRESIA-METROCAB  
HOLDER  
JOHNSTON  
LADOG  
MULTICAR  
O.ZETA CLES  
PIAGGIO  
RAVO  
REFORM  
SCARAB  
SCHMIDT



To learn more about the extraordinary coverage  
made available by TEXA, visit the website:  
**[www.texa.com/coverage](http://www.texa.com/coverage)**



To check on IDC5 compatibility and  
minimum system requirements, go to:  
**[www.texa.com/system](http://www.texa.com/system)**

## Note

[illegible]

## Note

[illegible]

# TEXA

Founded in Italy in 1992, TEXA is today a world leader in the design, industrialisation and production of multi-brand diagnostic tools, exhaust gas analysers, air conditioning charging stations and telediagnostic devices, for cars, bikes, trucks, boats, and agricultural vehicles. TEXA is present all over the world with a widespread net of distributors: it commercialises directly in Brazil, France, the UK, Germany, Japan, Spain, the US, Poland and Russia through its subsidiaries. TEXA currently employs some 700 people around the world, including over 150 engineers and specialists working in Research and Development. Over the years, TEXA has received a large number of prizes and awards for innovation, in many countries worldwide. All TEXA tools are designed, engineered and built in Italy, using extremely modern automated production lines which guarantee maximum precision. TEXA is particularly committed to the quality of its products: it obtained the strictest certifications, such as the TISAX (Trusted Information Security Assessment Exchange), a standard defined by the VDA, the German Association of the Automotive Industry, which guarantees the highest level possible of information and know-how protection against increasingly frequent cyber-attacks. It joins other certifications, such as the IATF 16969, specific for first automotive suppliers; the VDA 6.3, another method by German manufacturers that established itself as an international point of reference; and the ISO/IEC 27001 in the information security field.

## WARNING

The trademarks and logos of vehicle manufacturers in this document have been used exclusively for information purposes and are used to clarify the compatibility of TEXA products with the models of vehicles identified by the trademarks and logos. Because TEXA products and software are subject to continuous developments and updates, upon reading this document they may not be able to carry out the DIAGNOSTICS of all the models and electronic systems of each vehicle manufacturer mentioned within this document. References to the makes, models and electronic systems within this document must therefore be considered purely indicative and TEXA recommends to always check the list of the "Systems that can be diagnosed" of the product and/or software at TEXA authorised retailers before any purchase. **The images and the vehicle outlines within this document have been included for the sole purpose of making it easier to identify the vehicle category (car, truck, motorbike, etc.) for which the TEXA product and/or software is intended.** The data, descriptions and illustrations may change compared to those described in this document. TEXA S.p.A. reserves the right to make changes to its products without prior notice.



To check out the extensive coverage of TEXA products, go to:  
[www.texa.com/coverage](http://www.texa.com/coverage)

To check on IDC5 compatibility and minimum system requirements, go to:  
[www.texa.com/system](http://www.texa.com/system)

The Bluetooth® brand is the property of Bluetooth SIG, Inc., U.S.A., and is used by TEXA S.p.A. under license.  
Android is a trademark of Google Inc



[facebook.com/texacom](https://facebook.com/texacom)



[linkedin.com/company/texa](https://linkedin.com/company/texa)



[instagram.com/texacom](https://instagram.com/texacom)



[youtube.com/texacom](https://youtube.com/texacom)

Copyright TEXA S.p.A.  
**cod. 8801786**  
08/2021 - Inglese - V13

**TEXA**

## TEXA S.p.A.

Via 1 Maggio, 9  
31050 Monastier di Treviso  
Treviso - ITALY  
Tel. +39 0422 791311  
Fax +39 0422 791300  
[www.texa.com](http://www.texa.com) - [info.it@texa.com](mailto:info.it@texa.com)

**COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =**