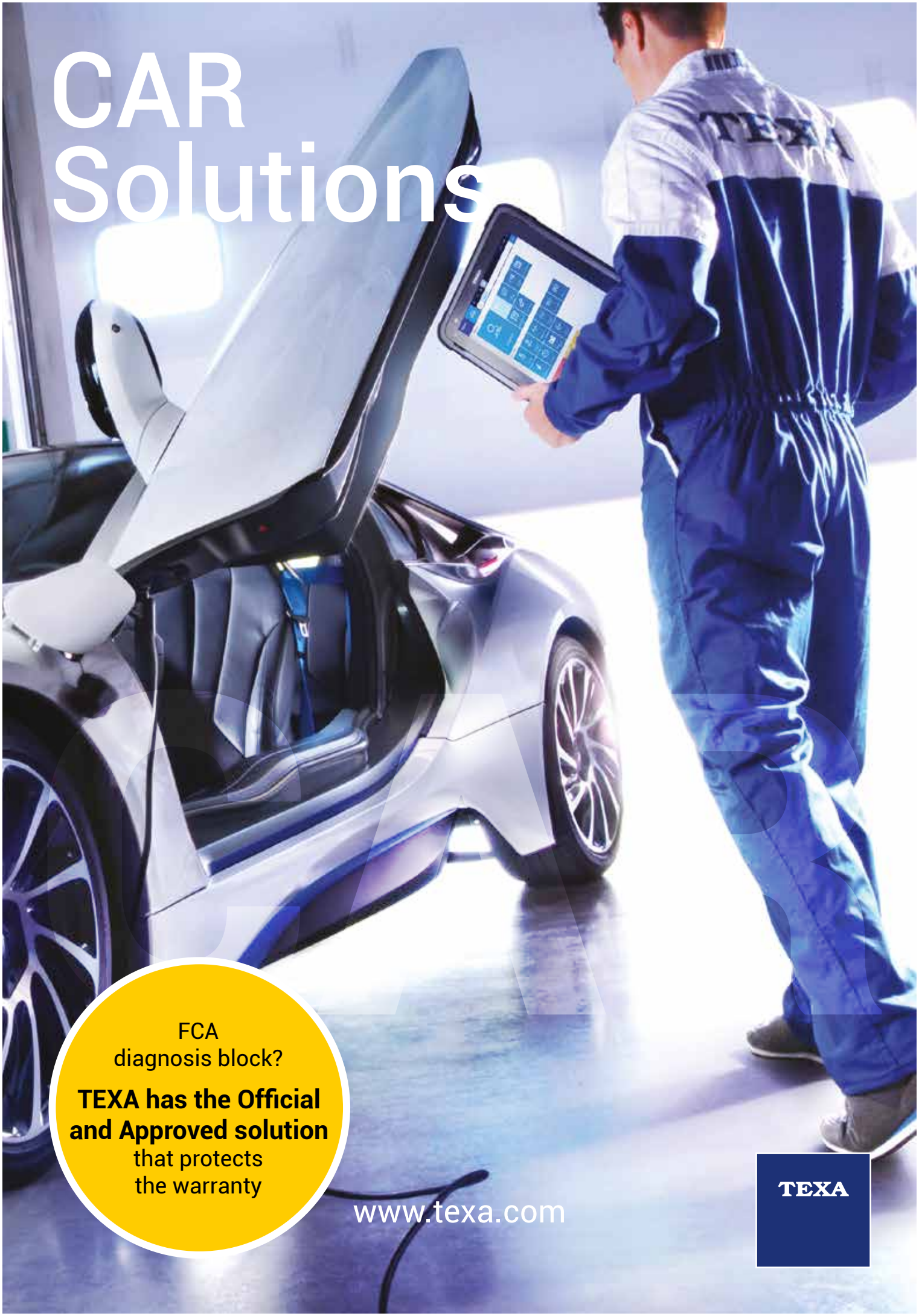
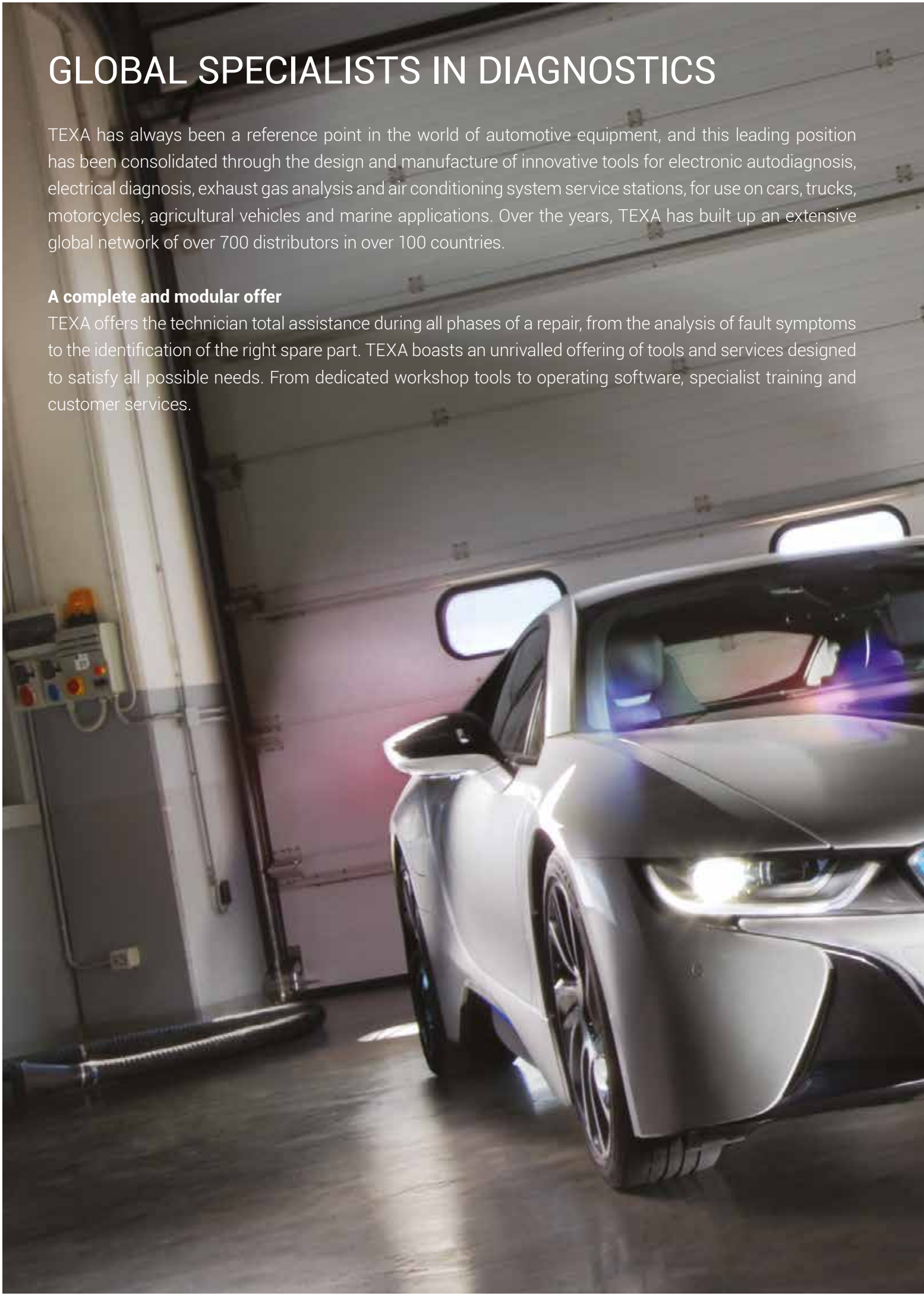

CAR
Solutions
FCA
diagnosis block?
TEXA has the Official
and Approved solution
that protects
the warranty
www.texa.com
TEXA

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.



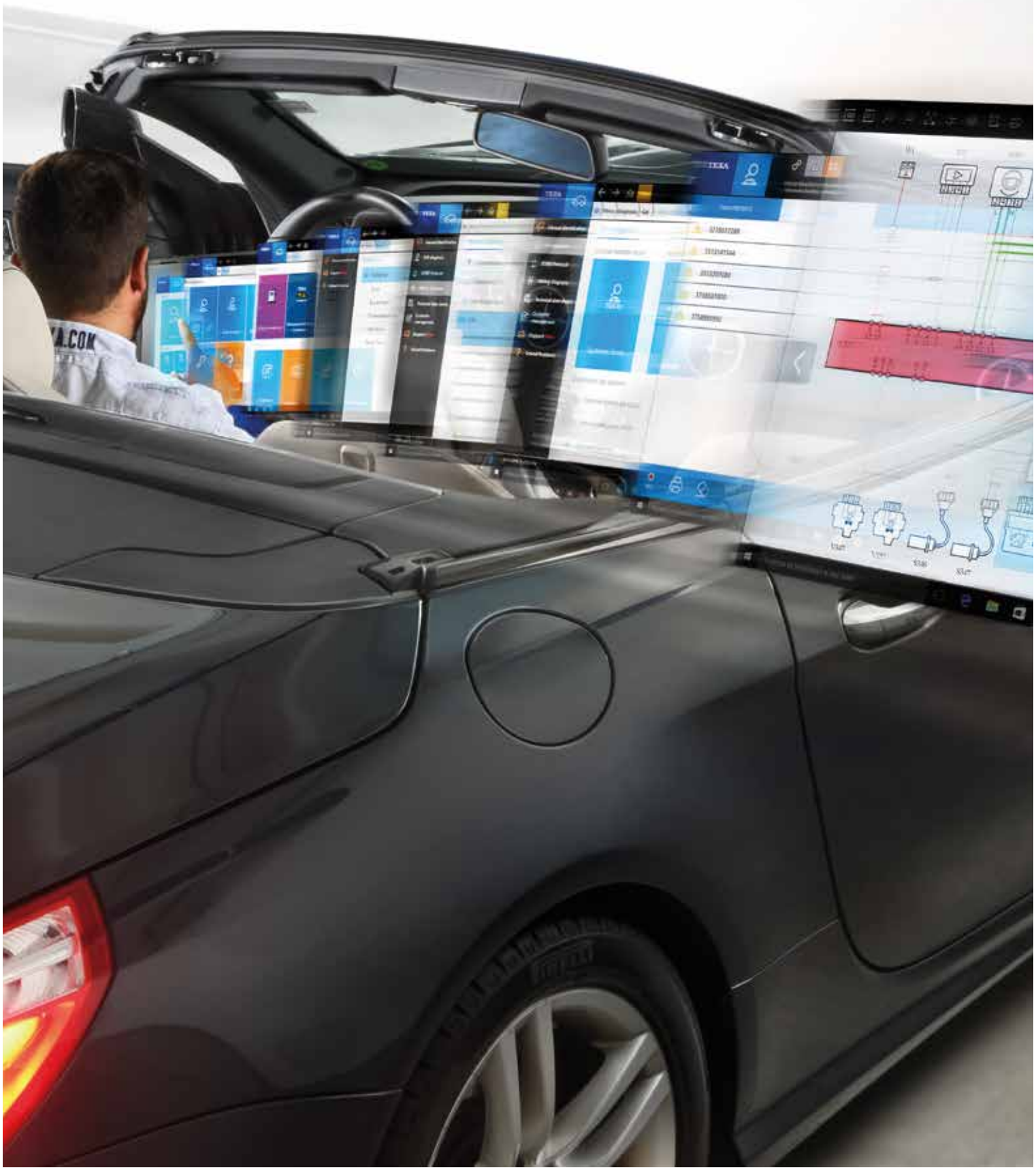
WITH TEXA THE OFFICIAL AND APPROVED SOLUTION FOR FCA GROUP

NEW

As is known, from 2017 the FCA Group introduced protective measures that inhibited the possibility for independent workshops to intervene on its most recent models. A decision that TEXA contested immediately, both directly and through the trade associations it is a member of, since it is against the European legislation on repairs. Unlike others, we did not follow the path towards solutions that get round the safety protection exposing mechanics to the severe liability risks towards the manufacturer and towards drivers. Instead, with the reliability and responsibility that a large company must always guarantee its customers, we worked with the European and national organisations to establish the best collaboration possible with the FCA Group in order to solve the problem. Therefore, we are proud to announce that through TEXA's tools, it's now possib to work on the latest generation of vehicles produced by the Turin Group in complete safety and legality.

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 designed to guarantee compatibility with the new ISO 13400 standard, also known as the Ethernet/DoIP communication protocol, using AXONE Nemo or a Windows PC.

TEXA APP: the new way to customise your diagnostic tool

TEXA has introduced a completely new concept of diagnostic support in the form of the **TEXA APP virtual store**.

TEXA APP is the list of applications developed by TEXA that allow extending the software functions or coverage, for example, to simplify the technician's work.

DASHBOARD MODE

DASHBOARD is the innovative function that lets you view vehicle engineering parameters using extremely intuitive and attractive graphics that reproduce an industrial vehicle's dashboard, the mechanical components and operating logic of the selected system.

DUAL MODE

DUAL MODE is the innovative function that lets you connect and view parameters on two different interfaces simultaneously: for example, self-diagnosis can be performed on a component whilst the signal is studied with an oscilloscope.

IMPIANTI GPL-METANO

LPG - CNG SYSTEMS is the APP that allows you to diagnose the LPG - CNG systems installed on used vehicles (after-sales). This APP allows you to work on a large number of vehicles of different brands and models on which an LPG - CNG system was installed.

SUPERCAR

SUPERCAR is the TEXA diagnosis software dedicated to sports car and large engine luxury car makes such as Ferrari, Lamborghini, Maserati, Morgan, Pagani, Porsche, giving access to hundreds of different diagnostic combinations.

KEY/REMOTE CONTROL CODING

Through this APP you can quickly access the vehicle´s self-diagnostic functions in order to code the keys, the remote controls, the immobiliser control units in case of malfunctions o if they must be replaced.

DPF REGENERATION

This App allows you to perform the particulate filter forced regeneration, in accordance with anti-pollution regulations. It is a very important operation in vehicles, especially in all those cases in which the spontaneous regeneration is not possible, i.e. in particular driving conditions or if the vehicle is mainly driven on urban roads.

ELECTRICAL VEHICLES

The APP ELECTRIC VEHICLES gives quick access to all the particular functions or activations that allow the analysis of problems and actions on the electric motor and on the vehicle´s charging system.

TRANSPORTATION MODE PROGRAMMING

When the newly produced vehicles are delivered to the dealers, they have many functions that are deactivated, such as the radio, the central locking and other services. Through this APP you can quickly activate all the vehicle´s functions by changing the status "Factory mode" to "Customer Mode".

DRIVING ASSIST SYSTEMS

Thanks to this APP, you can directly access the adaptation and programming functions linked to these control units, such as: calibrations and programming of the front/rear video cameras, necessary, for example, when replacing the windscreen or repairing the vehicle after a crash calibration of the front and rear parking sensors, in order to keep the system perfectly efficient, programming of the control units that control the lane keeping line.

TECHNICAL TRAINING

The dedicated TEXAEDU department offers a range of courses at various levels; from tool use introduction courses to more specific courses for professionals who require more specific system training. EDU APP is the application dedicated to technical training that always keeps you up to date on the latest news and available course dates and places.

SELF-DIAGNOSIS COMPONENT SHEETS

The "Self-Diagnosis Component Sheets" is the App designed by TEXA that provides the technician specific technical information regarding the most complex components within vehicle systems, giving an essential support for the diagnosis of the component itself.

AIRBAG VAG CODING

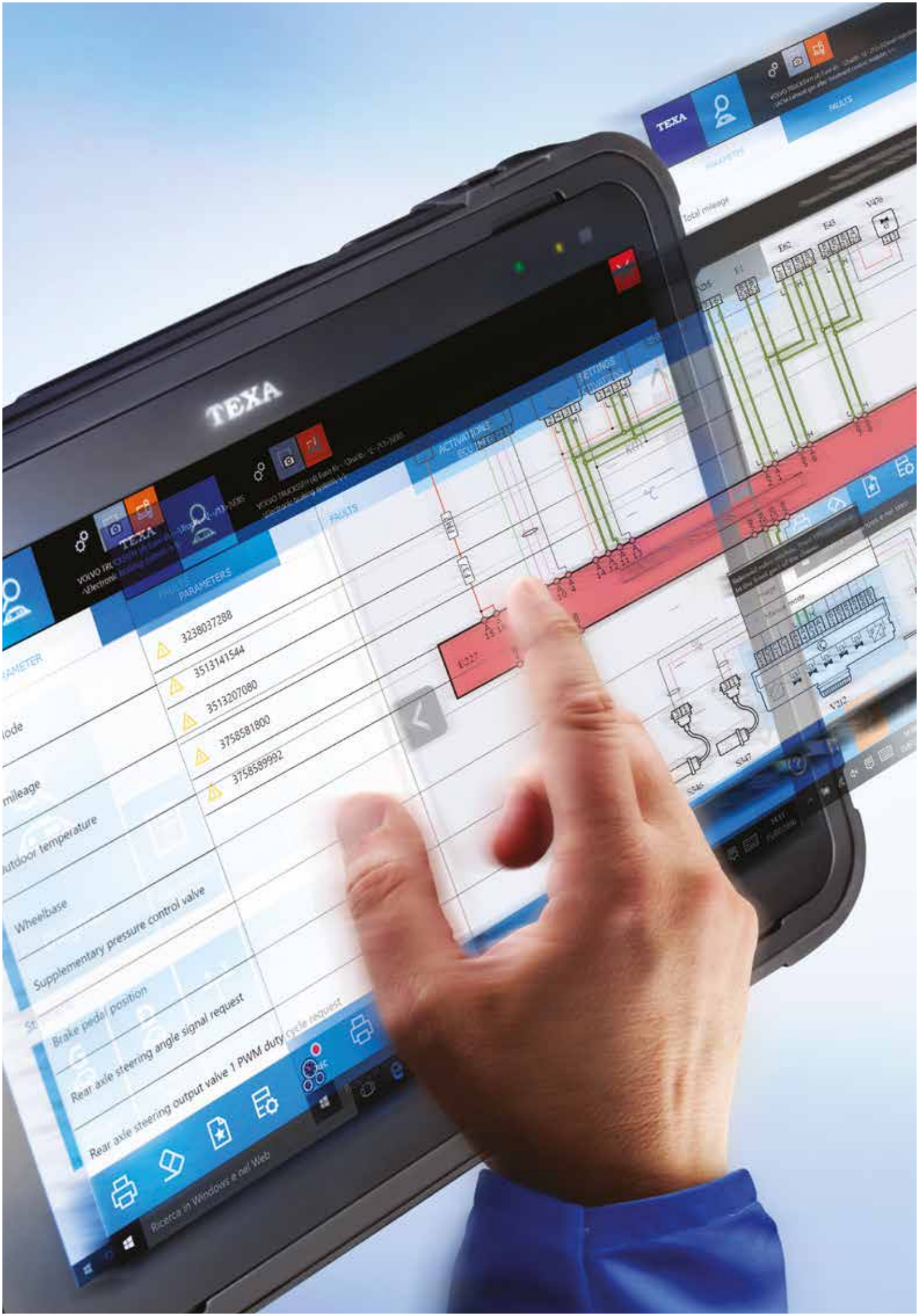
AIRBAG VAG CODING is TEXA s innovative App that allows you to calculate, quickly and precisely, the codes you need to code a new Airbag control unit of the VAG group. You just have to enter the control unit s code indicated is on its package in order to receive the 5 digit coding code you need for the installation.

and many more besides on:

https://www.texa.com/software/texa-app

PARTNER APP contains the applications created in collaboration between TEXA and operators who supply goods and services linked to the repair world, such as manufacturers or distributors of spare parts, specialised trade magazines, technical information services.

NOTE: Check the TEXA APP availability for your tool of interest and reference market.

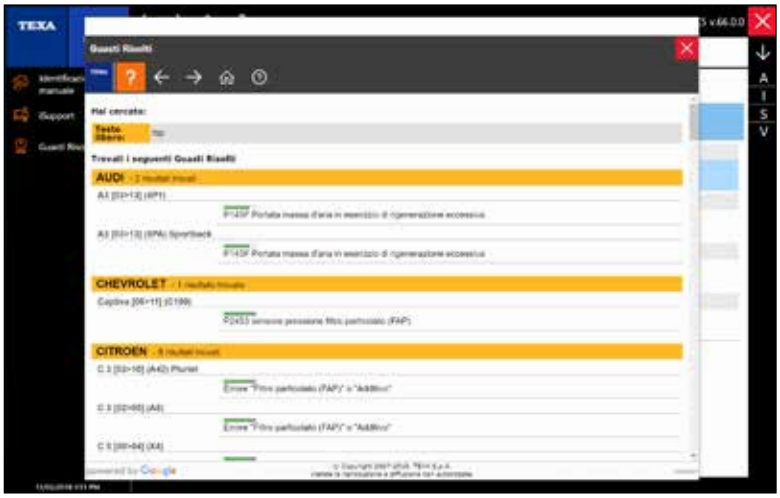

TEXA
PARAMETERS
FAULTS
3238037288
3513141544
3513207080
3758581800
3758589992
Wheelbase
Supplementary pressure control valve
Brake pedal position
Rear axle steering angle signal request
Rear axle steering output valve 1 PWM duty cycle request

A whole world of functions and services

IDC5 software provides a whole world of exclusive functions and services developed by TEXA's R&D department. These include:

SOLVED PROBLEMS powered by Google™

Implemented in **collaboration with Google**, this amazing function allows you to access TEXA databases easily, to search for repair procedures already encountered and registered by our international call centres. Vehicle repairers can access **thousands of practical troubleshooting cases**, tested on site by mechanics all over the world, **24/7**.



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.

Recording of diagnostic sessions Rec & Play

A fault may occur in a vehicle under specific operating conditions only: for example, a power loss while driving uphill, when the vehicle is under a particularly high load, or a fault warning light that turns on only when the engine is warm. 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.

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 autodiagnostics 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.

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.

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.

DASHBOARD

One of the exclusive functions available in the IDC5 operating software is the DASHBOARD*, which offers the possibility to view the vehicle's engineering parameters, associated with intuitive captivating graphics that reproduces the dashboard of an industrial vehicle, the mechanical components and the system's operating logic.

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.

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.

PASS-THRU**

This function lets you connect to the central server of any vehicle manufacturer and download software packages or official technical information

*The DASHBOARD function is already available and activated for customers who use the AXONE Nemo diagnostic tool. For customers who use other diagnostic solutions instead, the function can be purchased through a dedicated "APP" within the "TEXA APP" virtual store.
**At the website www.texa.com/passthru, verify the recommended minimum hardware requirements and the enabled vehicle manufacturer diagnostic functions.

Diagnostic solutions

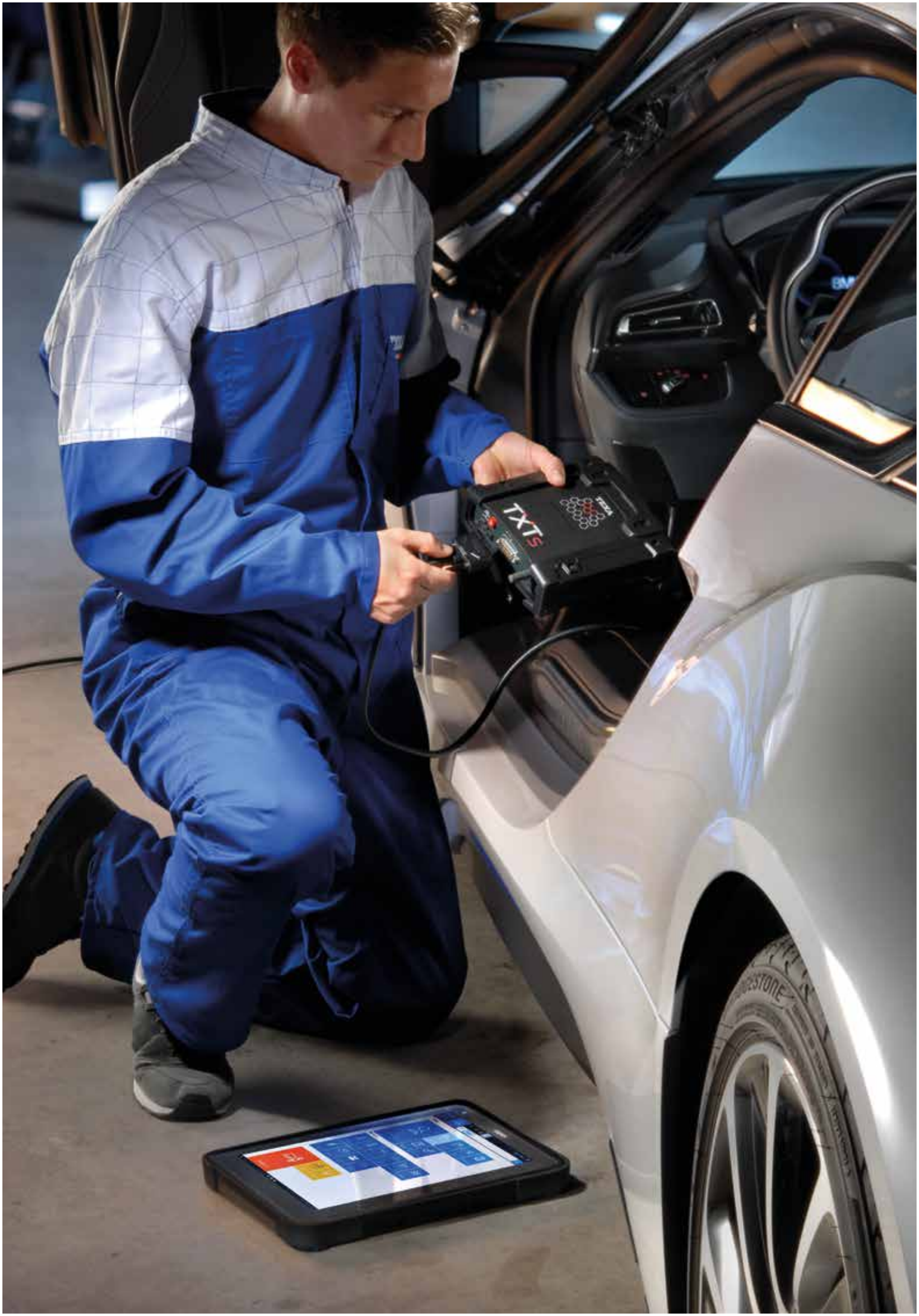
TEXA's diagnostic solutions are based on the powerful **AXONE 5** and **AXONE Nemo** display units and on the robust **NAVIGATOR TXTs** and **Navigator NANO S** vehicle interfaces. These devices connect and communicate with the vehicle's electronic control units and guarantee levels of speed and performance 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 5

AXONE 5 is the complete, easy-to-use tool for all the diagnostic operations in the **CAR** and **BIKE** environments. It has a **9.7 inch** capacitive touch **screen** with a **resolution of 2048x1536 pixels** and a 5-megapixel camera with flash and autofocus.

Inside, a quad-core ARM® Cortex® A9 processor provides the tool with high computing power.

Thanks to the software **IDC5a PLUS**, AXONE 5 is quick and intuitive, the ideal solution for those who wish to have the utmost diagnosis available on the market with a limited investment.


TXTs

AXONE Nemo

The AXONE Nemo is the most technologically complete and powerful display unit on the market today, with characteristics easily comparable to those of leading commercial tablets. Unlike a tablet the AXONE Nemo is incredibly solid and **capable of resisting to strong shocks**, including falls into water: thanks to a special TEXA patent, the Nemo is the world's only PC-type device that floats*. The casing of the AXONE Nemo is made entirely from magnesium, a noble metal that stands out for its light weight and efficient heat dispersal. This high level of functionality is equalled by TEXA's traditional attention to style: the AXONE Nemo is not just practical but attractive too. It is also packed with advanced technology, starting from an ultra-wide **12 inch capacitive touch-screen** with the impressive **resolution of 2160x1440**, with tough **Gorilla Glass** protection. The heart of the Nemo is an Intel® Quad Core N3160 processor with 8 GB of RAM and 250 GB of storage. Connectivity is guaranteed by an advanced, double channel Wi-Fi system and a Bluetooth® 4.0 Low Energy module. Another distinctive feature is the presence of two 5 megapixel cameras, one forward facing and one rear facing complete with flash/torch and autofocus.

*Impermeability and floatability are features that are available purchasing the special "AXONE Nemo Waterproof" version.

NAVIGATOR TXTs

The NAVIGATOR TXTs is the most powerful, highest performer of TEXA's vehicle interfaces and lets you work in the **CAR, TRUCK, BIKE, OFF-HIGHWAY 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, verify the recommended minimum hardware requirements and the enabled vehicle manufacturer diagnostic functions.

Navigator NANO S

The Navigator NANO S is the simplest of TEXA's vehicle interfaces.

Small, **lightweight and ergonomic** and extremely quick in exchanging data both with the vehicle and the diagnostic display unit, this vehicle interface allows you to carry out all operations on cars, light commercial vehicles, motorcycles, scooters, quads and jetskis.

Every aspect of the Navigator NANO S has been carefully designed and developed to fully satisfy the needs of the modern workshop and to allow technicians to complete all **diagnostic tests quickly and easily**.

DoIP NODE

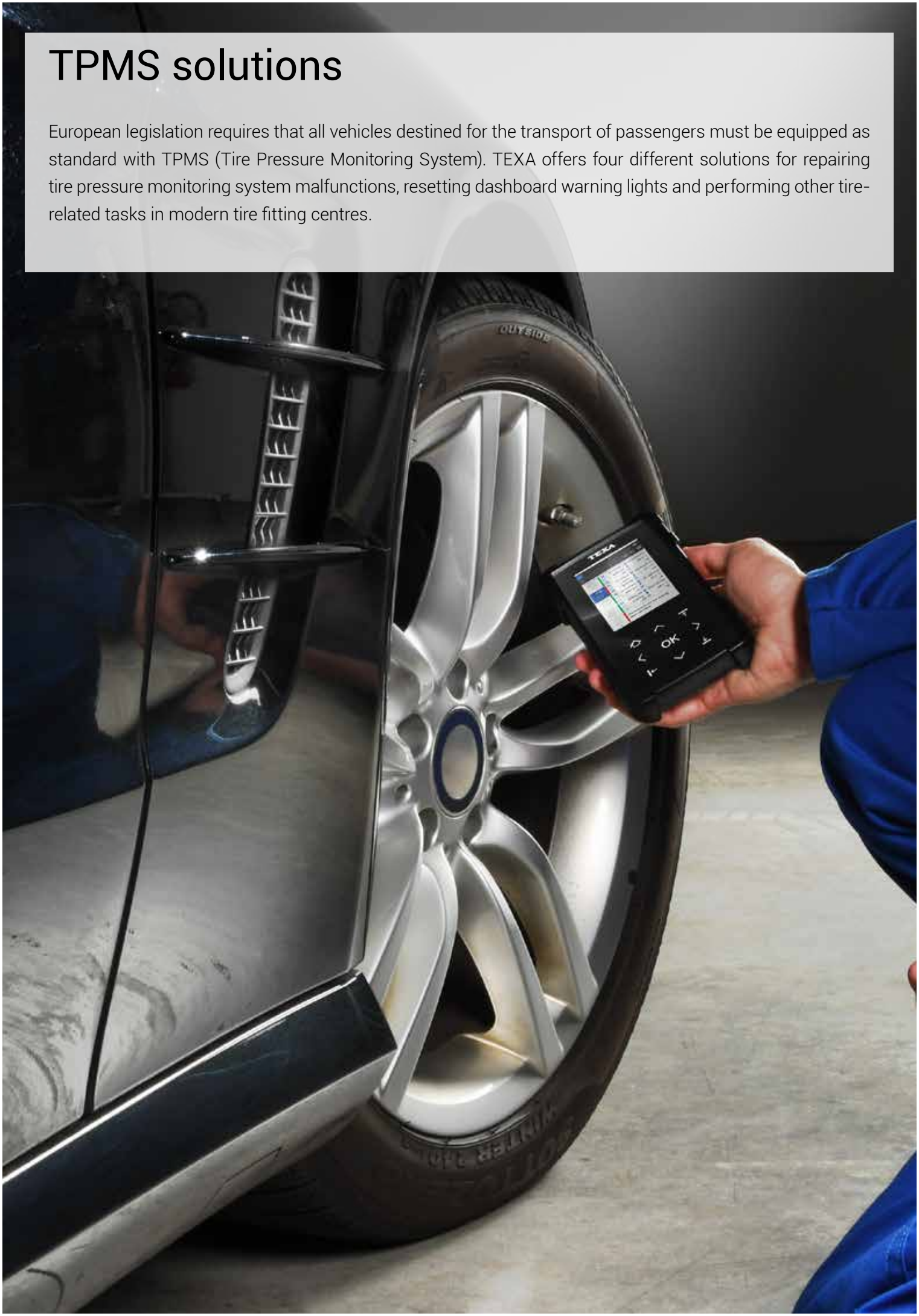
DoIP NODE is the multi-brand adapter developed by TEXA, which allows carrying out high-speed **DoIP (Diagnosis Over Internet Protocol) diagnostic** operations on vehicles equipped with an **Ethernet communication BUS**, a new architecture that manufacturers are beginning to implement along with the traditional CAN-BUS line.

The use of the DoIP NODE represents a great advantage for mechanics, as they **do not have to replace the TEXA instrumentation they already own**, but simply integrate its operation using it when the vehicle they are working on requires it.

Its **reduced dimensions** (70 mm x 120 mm x 40 mm) allow inserting it between the traditional OBD socket and the Navigator TXTs or Navigator NANO S interface and each time it identifies which protocol the vehicle uses.

TPMS solutions

European legislation requires that all vehicles destined for the transport of passengers must be equipped as standard with TPMS (Tire Pressure Monitoring System). TEXA offers four different solutions for repairing tire pressure monitoring system malfunctions, resetting dashboard warning lights and performing other tire-related tasks in modern tire fitting centres.



TPS2

This tool has been **specifically designed for tire specialists** and for a complete, professional use with vehicle TPMS systems. Its most salient characteristics include robustness, speed and user-friendliness thanks to its **simple and intuitive graphic interface**. The TPS2 boasts a generous, high resolution colour display that makes reading data and using the tool easy even in bright sunlight.
TPS2 has an **8 GB internal memory** to store and recall the reports of the operations carried out on customer vehicles at any time, but also to manage the seasonal tire change efficiently.
The tool includes a software utility that is very useful to activate it, access the manuals, search for updates and launch the **TEXA TIRE MANAGER** software for managing tires.


TPS

TPS

The TPS is TEXA's basic tool for tire-related operations. It boasts an **exceptional coverage of makes and models** as well as TEXA's traditionally robust design and build quality. The TPS communicates with the valve sensors on each wheel, activates them if they are in standby and verifies their efficiency. The tool's own display reads out pressure, temperature and battery charge level (where available), as well as the identification codes and other diagnostic information provided by the vehicle manufacturer. TPS lets you check the efficiency of tire pressure sensors so that you can change them if necessary.

TPS KEY

This is the ideal solution **for workshops that already own an AXONE Nemo or AXONE 5** and who want to expand their tool's diagnostic capacity by adding tire related functions.
The TPS KEY transforms the above mentioned tools into complete, high performance solutions for working with TPMS systems. Just plug the TPS KEY into your tool's **USB port** and the TPMS Repair app will guide you step by step through all the phases of the procedure you need to complete.

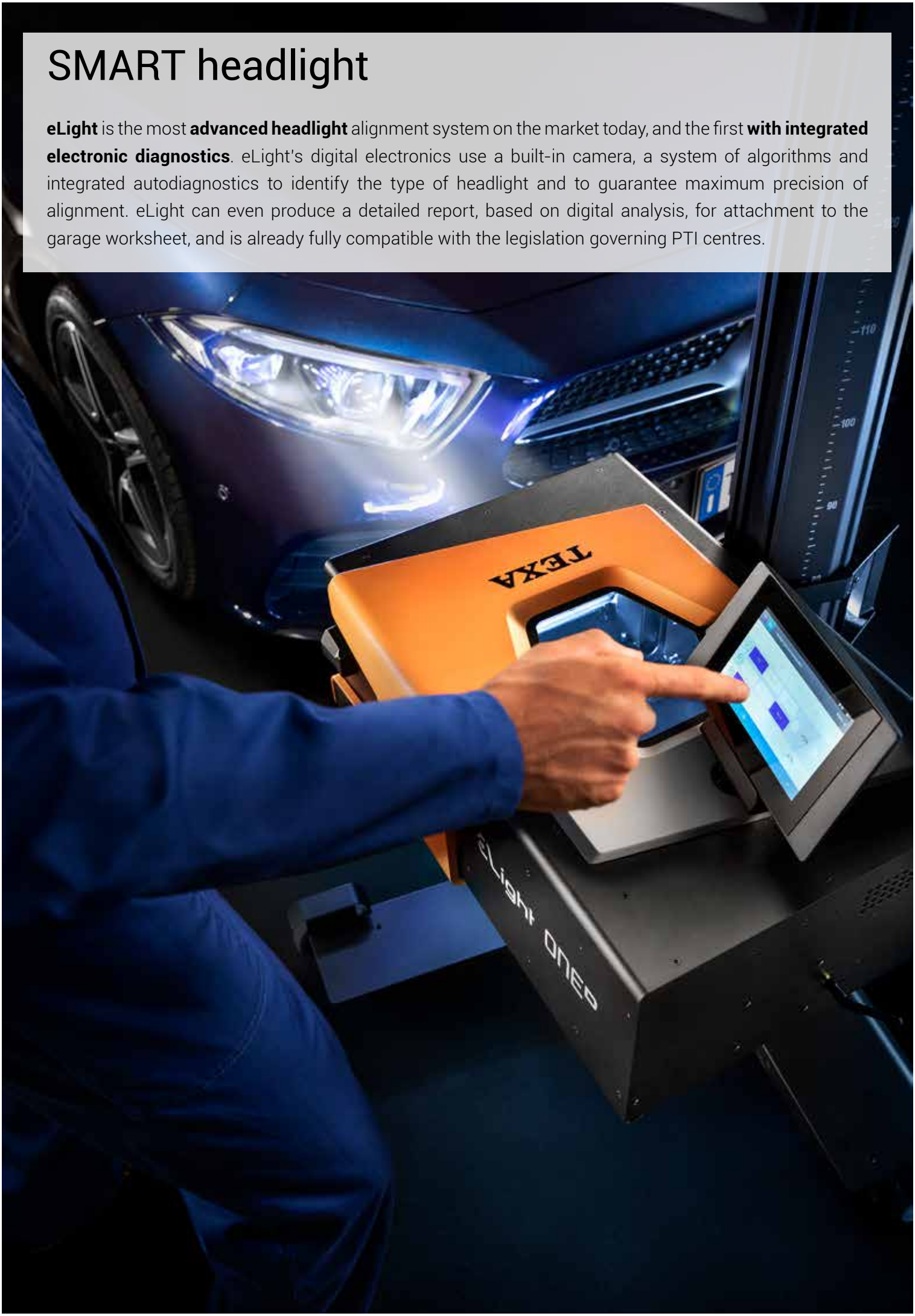
APP TPMS Repair

By activating the TPMS Repair APP in combination with TPS or TPS KEY, you can accurately perform all tire-related operations that tire specialists and FAST-FIT centres carry out every day; for example: tire change, summer/ winter change, valve sensor replacement, and rotation to reduce tire wear.

TPMS

SMART headlight

eLight is the most **advanced headlight** alignment system on the market today, and the first **with integrated electronic diagnostics**. eLight's digital electronics use a built-in camera, a system of algorithms and integrated autodiagnostics to identify the type of headlight and to guarantee maximum precision of alignment. eLight can even produce a detailed report, based on digital analysis, for attachment to the garage worksheet, and is already fully compatible with the legislation governing PTI centres.



eLight

TEXA eLight comes in **two versions**, **ONE** and **ONE^{D}**.

Version **ONE** of eLight is designed to work with the **AXONE Nemo** or **AXONE 5** diagnostic tool and a TEXA Navigator interface, and adds headlight alignment functionality for garages who already own these tools.

You can use IDC5 software to extend the potential of your eLight and to dialogue with the control units of all the electronic systems connected to the headlights in order to identify errors, read parameters and change **settings** as necessary. In practice, eLight's integrated autodiagnostic functionalities are added to those of your existing TEXA diagnostic tool.

Version **ONE^{D}** differs in having its own **display** based on a bright **7 inch swivelling TFT touch screen**. This version can therefore serve as a stand alone tool, using its own built-in diagnostics.

To extend functionality even further, however, ONE^{D} **can also be connected to an existing TEXA diagnostic tool** for use as part of an integrated system.

NEW 2019

eLight ONE

eLight ONE^{D}

Solutions for the calibration of radars and cameras

Designed to guarantee safety and comfort while driving, the ADAS (Advanced Driver Assistance Systems) are ever more common in latest-generation vehicles, including city cars. Some examples include: autonomous emergency braking, cruise control, lane keeping system, pedestrian and traffic sign recognition, to name just a few. To help repair professionals operate on these sophisticated active safety systems, TEXA has developed a complete, modular, multi-brand offer able to meet the different needs of automotive professionals, be they **glass replacement specialists, body shops, multi-brand garages and tire fitters**.

RCCS 2: a simple, safe, professional, multifunctional and multi-brand structure

RCCS 2 is a complete, professional solution for all kinds of radar and camera calibration.
The system comprises a robust main support with **electrically powered** height adjustment and a practical knob at the rear for the manual adjustment of perpendicularity with respect to the vehicle. The adjustment bar is equipped with **two distance meters** and a sliding **reflector plate** with a central laser for front radar pointing.

An additional laser level at the top of the structure locates the centre of the vehicle simply by pointing at its front badge.

This advanced technology allows the system to be aligned **easily**, **accurately** and **safely** with respect to the vehicle and the floor.
The RCCS 2 system is mounted on castoring wheels for easy movement around the workshop.

RCCS 2 with integrated ride height control

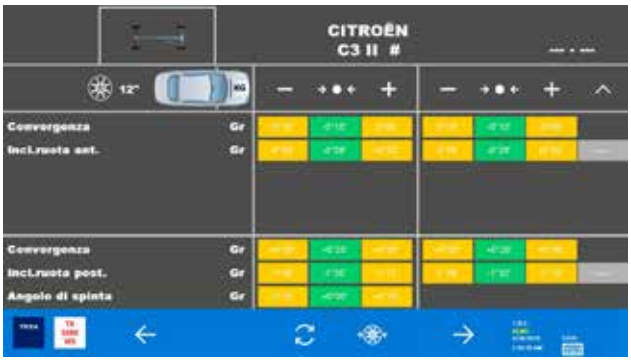
By choosing an RCCS 2 with ride height control kit, you can offer customers **rapid and professional service**. This solution simplifies the work of aligning the vehicle with the multifunctional structure and also permits accurate checks to be made on its status.

The kit features **four electronic CCD detectors** with infrared sensors for installation on the RCCS 2 structure and on the wheels, using **four-point wheel** clamps. Thanks to the light weight of the detectors and the absence of connecting cables between the front and rear, the system is **extremely practical** and ensures absolute precision in measuring the positions of the vehicle's corners.

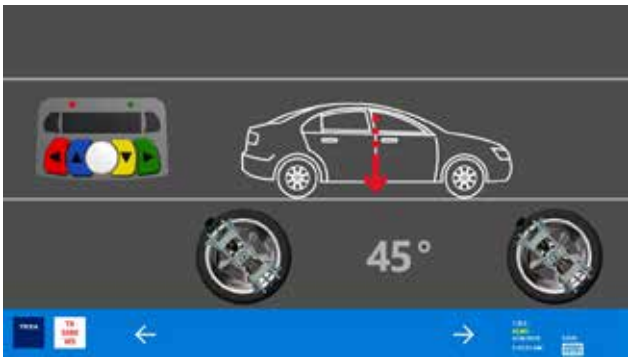
Excellent accuracy is also guaranteed by **ALIGNMENT CHECK**, a software application that lets you perform two types of check in a few simple steps: a quick check on the **alignment** of the RCCS 2 system **with respect to the vehicle's thrust angle and the garage floor**, and a check on **wheel alignment.** These checks must be completed in preparation for the next phase of radar and/or camera calibration.

Dedicated software for aligning the RCCS 2 structure with the vehicle and checking ride height

The operator first fits the four CCD detectors to the wheels and checks wheel alignment. He then removes the CCD sensors from the front wheels and mounts them on the RCCS 2's adjustment bar to align the structure correctly with respect to the vehicle's thrust line (referred to the back axle).
Let's look at a practical example of how to **align the structure** and check **wheel alignment** using this dedicated software.



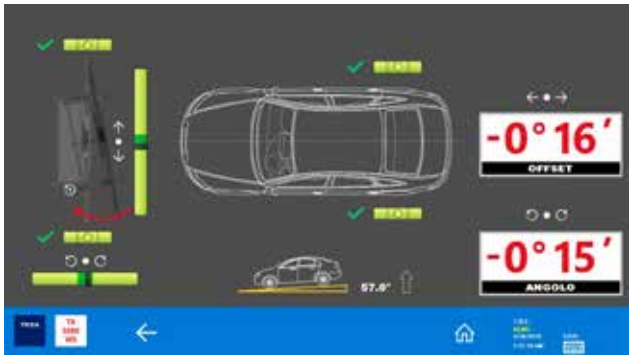
During the wheel alignment check, the software lets you enter the diameter of the tires, then displays the nominal ranges for toe, semi-toe and thrust angle.



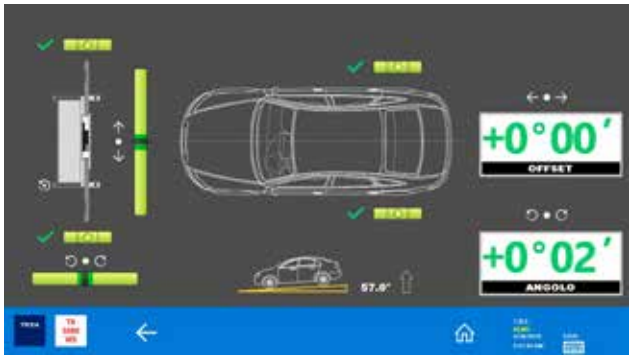
Mount the 4 sensors on the clamps and check run out. Push the vehicle back until the clamps are at an angle of 45°. Now push the vehicle forwards to return the clamps to the vertical position.

The 4 CCD detectors must be parallel to the work surface and the steering must be centralised. When these conditions are achieved, the display reads out "STOP".

Summary screen showing data measured by the four CCD sensors compared to the manufacturer's nominal figures. Provided the measured values fall within the range of tolerance, the RCCS 2 structure can now be positioned.



The message "OFFSET" shows how much the RCCS 2 structure is misaligned with respect to the vehicle's centreline. "ANGLE" shows the structure's angle of yaw with respect to the vehicle's centreline.



The structure is correctly aligned with the vehicle and the radar or camera system can now be calibrated.

RCCS 2 (Radar and Camera Calibration System)

RCCS 2's high-performance optical alignment lets you perform all kinds of calibration work on radar and camera systems quickly and accurately.

The system comes in two versions:
1) with **wheel clamps**
2) with **tire clamps**

The vehicle is aligned by the lasers of two **distance meters** mounted on the structure's cross-beam aimed at two practical **pointing bands**.

It is important to remember that **correct vehicle alignment must be checked** before all calibration work to avoid the risk of inaccurate settings, reduced safety and customer dissatisfaction. Many garages are currently obliged to call in a professional with the specialist equipment needed to check vehicle alignment, with an obvious impact on the organisation and profitability of their work.

To solve this problem for garages committed to offering customers a complete and highly professional service, **the RCCS 2 system with wheel clamps can be expanded** and electronic CCD detectors added to check ride height and digital alignment.

ACS (All Around Calibration System)

The ACS system is particularly useful as it permits the **calibration of 360° cameras and Doppler devices*** on vehicles of the VAG Group (AUDI, SEAT, SKODA, VOLKSWAGEN and LAMBORGHINI).

The ACS system comprises an aluminium structure that holds two horizontal panels and practical, vertical supports for two additional magnetic plates. The base incorporates three holders for the laser distance meters needed to verify the correct alignment of the structure with respect to the vehicle.

This TEXA solution is extremely practical and comes with wheels for rapid, easy movement. This is an important characteristic as it **allows a single operator to perform all operations** quickly and easily, saving resources and time for other jobs.

*Rear and side radar can be calibrated using TEXA's Doppler Simulator.

IR Calibration Target

This extremely useful accessory permits rapid and extremely accurate calibration of the vehicle's **infrared camera**, a device that is essential to road safety as it helps drivers identify persons or animals ahead in the dark. Positioned in front of the vehicle, the IR Calibration Target **simulates the presence of a warm body**.

Reflector for blind spot radar calibration

It is an essential device to calibrate the ultrasonic radars installed in vehicles such as **HYUNDAI**, **HONDA**, **KIA**, **LEXUS**, **MAZDA**, **MITSUBISHI**, **SUBARU**, **TOYOTA**. It is composed of a metal reflector cone, a laser and a goniometer jig to help the operator position the pyramid cone correctly. The **reflector** developed by TEXA is flexible as it can be used for the **front**, **side** and **rear** radars.

The CCS, a multi-brand kit for Camera Calibration

While in the past, if the windscreen was damaged or broken, all you had to do was replace it, now it is necessary to restore the proper operation of the cameras dedicated to driver assistance.

The **CCS (Camera Calibration System)** has been designed to create the best combination according to the technician's operational needs. It is composed of a robust **support** on which the several **panels divided by make** are to be positioned.

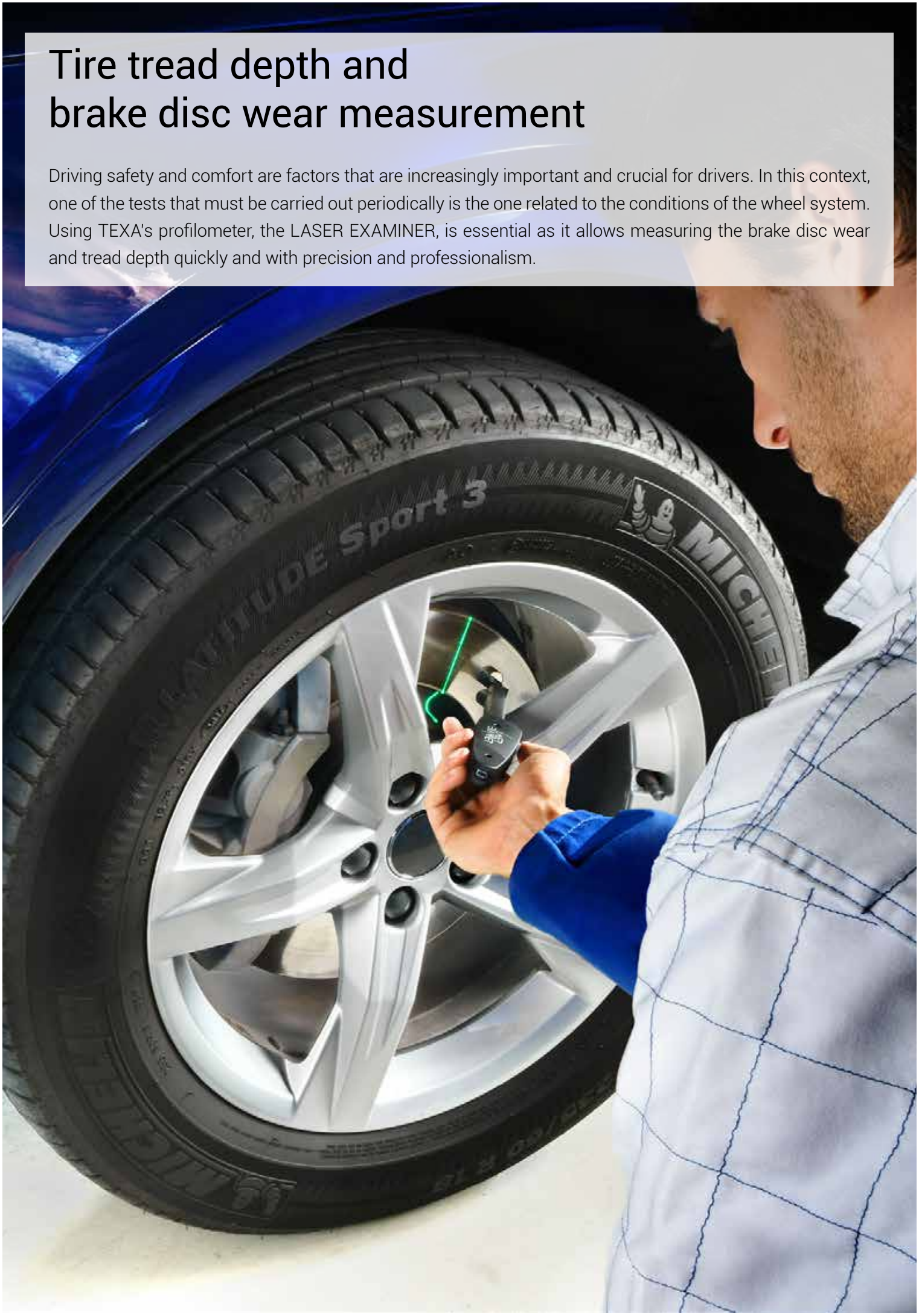
The CCS can also be used with a graduated mat and two supports to centre the axle on the wheels through laser levels (optional).

The manufacturing features of the Kit make it a solution that is extremely **easy to use, handy and easy to carry**, even for use outside of the workshop.

The CCS is perfect for those who cannot permanently dedicate an area of their workshop to the calibration of cameras: in fact, once the operations on one or several vehicles is complete, all the equipment can be disassembled and easily stored away.

Tire tread depth and brake disc wear measurement

Driving safety and comfort are factors that are increasingly important and crucial for drivers. In this context, one of the tests that must be carried out periodically is the one related to the conditions of the wheel system. Using TEXA's profilometer, the LASER EXAMINER, is essential as it allows measuring the brake disc wear and tread depth quickly and with precision and professionalism.



LASER EXAMINER

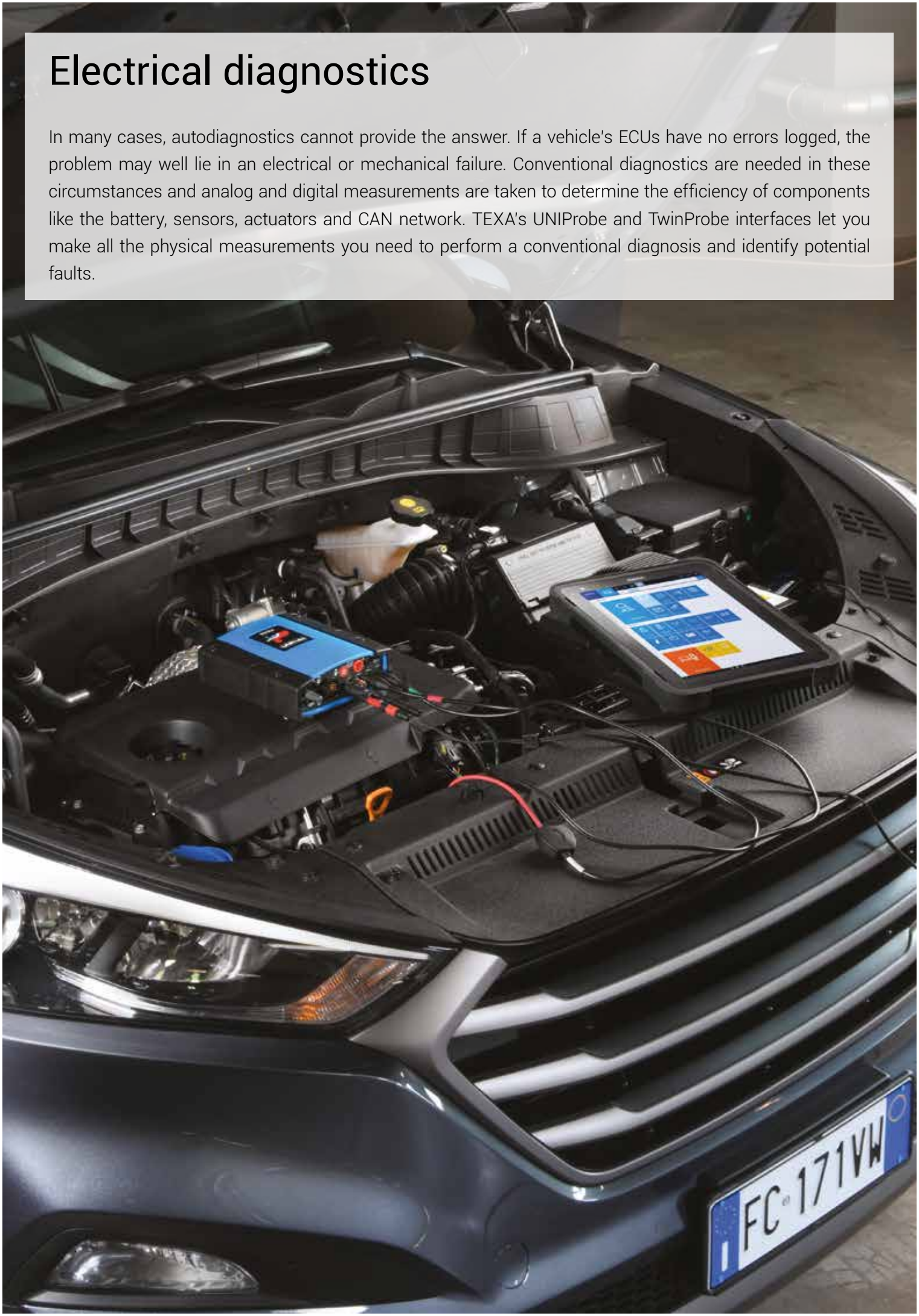
LASER EXAMINER is a practical, small-sized **laser caliper** that allows you to measure the vehicle **brake disc wear** with an accuracy of one-tenth of a mm, without having to remove the wheel. Other than this measurement, using a simple adapter you can also check the **tire tread wear**. LASER EXAMINER carries out both verifications quickly and easily; it allows you to provide customers with an accurate report on the "state of health" of their vehicle wheels, ensuring a professional assistance service and fostering customer loyalty.

LASER EXAMINER is a real added value for workshops and tire specialists, and at the same time it is an important contribution to the **safety of vehicles** on the road.

For an optimal check and management of the measurements on discs and tires, TEXA has developed a practical software program to be installed on AXONE Nemo or PC and to be used in combination with LASER EXAMINER. Thanks to a simple and intuitive graphic interface, an **objective test of the "wheel system"** can be completed in next to no time.

Electrical diagnostics

In many cases, autodiagnostics 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.

TwinProbe

The TwinProbe includes:

• **Oscilloscope:**
two independent analogue channels with inputs up to ± 200V, complete with SIV* function for interpreting measured signals.

• **Signal Generator:**
for simulating the pulses generated by sensors and the commands generated by control units and testing solenoid valves and other components.

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

KONFORT A/C RECHARGE STATIONS for R1234yf, R134a and R744 (CO_2)

The KONFORT 700 range includes 11 models with different specifications and operating modes, for servicing vehicle air conditioning systems containing R1234yf, R134 or CO_2.
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 KONFORT range features a total of 10 registered international patents. The components used all have exceptional characteristics and guarantee refrigerant recovery efficiency in excess of 95%. The neat design combines easy handling, sturdiness and safety to make all maintenance operations simple and easy.

Check with your TEXA Distributor the model and type of refrigerant recommended from each individual car marker listed.

THE KONFORT RANGE IS APPROVED BY:

AUDI	JAGUAR	MINI	SEAT
BENTLEY	KIA	MITSUBISHI	SKODA
BMW	LAMBORGHINI	NISSAN	SUBARU
BUGATTI	LAND ROVER	OPEL	SUZUKI
CHEVROLET	MAZDA	PORSCHE	TOYOTA
HYUNDAI	MERCEDES-BENZ	RENAULT	VOLKSWAGEN

A/C KONFORT for CO_2

744

The KONFORT 744 is designed and made to work with the latest A/C systems containing **CO_2**.

The service station is fully automatic and capable of completing the entire service procedure without input from the operator. It also achieves the **highest possible levels of precision.** In fact, the quality of its components and the accuracy of its design permit recharging to be completed to a maximum tolerance of only 10 grams (2 grams for oil).

Special attention has also been paid to the system for releasing CO_2 into the atmosphere. This takes place in a controlled manner to ensure the safety of the operator and of the system itself.

The KONFORT 744 also incorporates an accurate system for **measuring the concentration of CO_2** in the surrounding air, and suspends charging if this approaches a dangerous level.

A/C KONFORT for **R1234yf**

707R

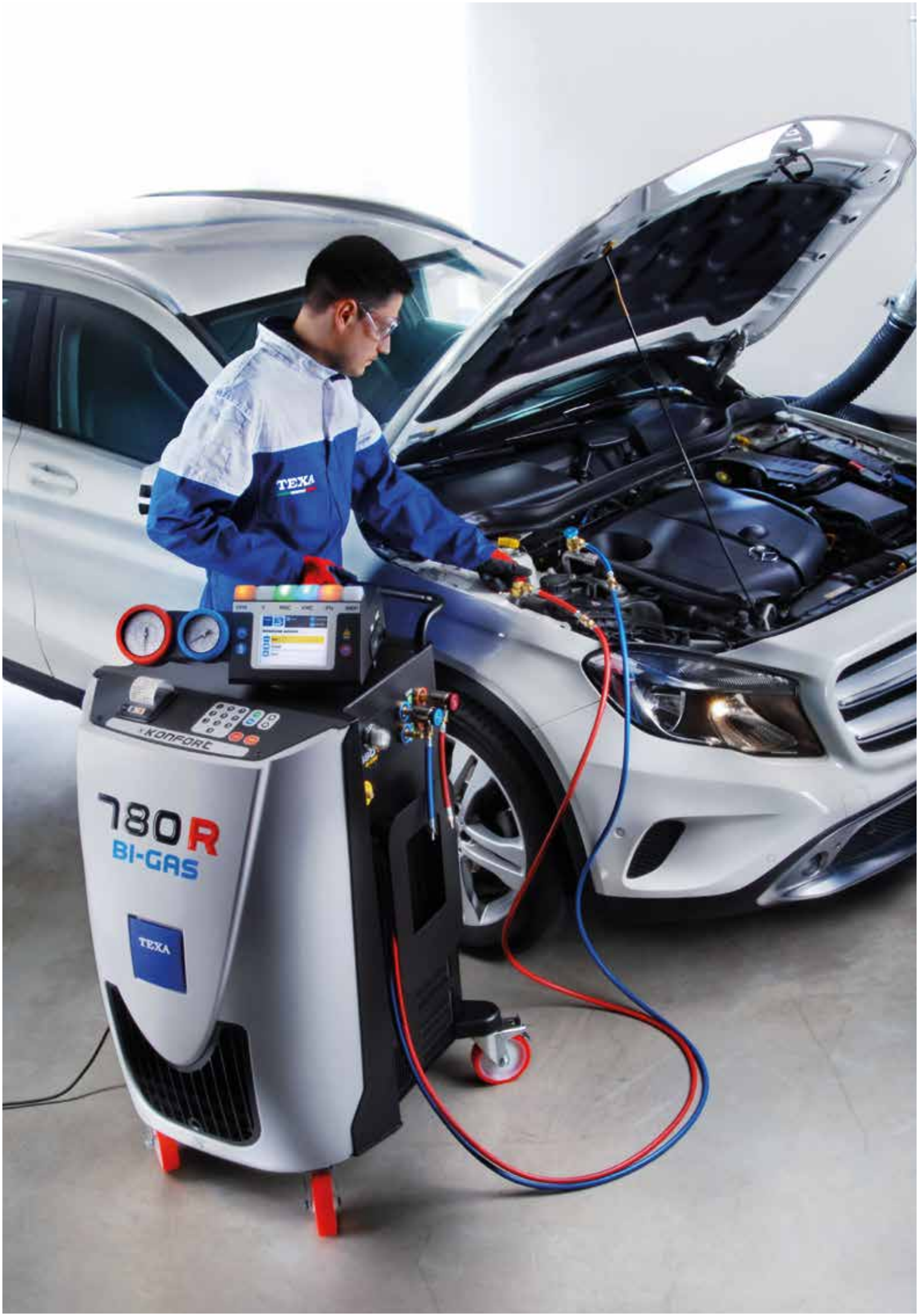
This new A/C recharge station works with R1234yf refrigerant. Essential and simple to operate, it nevertheless incorporates all the latest design solutions. It is fully automatic and guarantees excellent efficiency and safety.

Compared to the competition, this recharge station stands out for its advanced features: the **filter dryer** that lets you perform appox 300 system services; **scales locking system**; alphanumeric keyboard; 4 castors; and a **maintenance log with data on all services completed**.

770S

TEXA developed the KONFORT 770S to meet the **rigorous specifications of German vehicle manufacturers**. This model works only with the new **R1234yf refrigerant**. It has been homologated by **TÜV Rheinland**, the leading international certification body.

The 770S is equipped as standard with a **Refrigerant Identifier Kit**, an exceptional device capable of recognising what type of gas is contained in an A/C system.


TEXA
KONFORT
780R
BI-GAS
TEXA

A/C KONFORTfor **R1234yf and/or R134a**

712R

KONFORT 712R is TEXA's new mid-range A/C charging station which boasts the typical technical features of the top-range models such as the **automatic maintenance service management** and the **measuring of the amount of oil recovered with the electronic scale**. The KONFORT 712R can be purchased in the **R134a** or **R1234yf** version with the option to change the configuration.

Other distinctive features of the KONFORT 712R compared to the other models in its category, is the **possibility to install the Refrigerant Identifier Kit** and to use it in combination with REC+, the innovative device patented by TEXA for the recovery of contaminated refrigerants from the vehicle A/C systems.

KONFORT 712R is the ideal solution because with a **limited investment** the mechanic can have a station with exclusive features and top class performance, ensuring customers a **high level of service** over time.

NEW 2019

720R

This model can service all car, commercial, truck and off highway A/C systems but comes at a highly competitive price. It features **automatic refrigerant recovery** and recycling and oil drain functions. Oil and UV tracer volumes are monitored by an automatic system, leaving you to perform only a few simple manual operations. The 720R can be delivered preconfigured for the old R134a or the new R1234yf refrigerant.

760R and 760R BUS

The 760R incorporates TEXA's most advanced technology: it is equipped with **hermetically sealed oil/UV bottles**, a fully automatic maintenance management system, scale locking device and **automatic** verification of correct refrigerant weight. The KONFORT 760R can be pre-configured for use with either R134a or R1234yf. One of the most interesting optionals for this model is the Refrigerant Identifier Kit.

The 760R is also available as the 760R BUS, for use with larger vehicle A/C systems.

780R

This amazing recharge station is the top of the KONFORT Series and offers technicians the ultimate in performance and in the number of jobs it can handle. The KONFORT 780R **can work with both 134a and 1234yf refrigerants**, switching from one type to the other in next to no time thanks to two separate tanks and a sophisticated flushing system that effectively and **safely cleans out all the pipes**. When equipped with the Refrigerant Identifier Kit, this is the best recharge station on the market today and offers workshops the ultimate in performance.

See the catalogue for the KONFORT 700 SERIES for details of all available accessories.

A/C KONFORT for **R134a**

705R and 705R OFF ROAD

The KONFORT 705R is the "entry level" recharge station for air conditioning systems using with **R134a refrigerant**. Though easy to use and **attractively priced**, the KONFORT 705R can handle all common refrigerant recovery and recharging operations. It is the ideal solution for workshops that need to offer their customers impeccable service while **keeping a close eye on operating costs**.

This model is also available in an OFF ROAD version with larger rear wheels and a metal bar for improved stability and easier use **on rough surfaces**.

710R

Though it is the entry level model, the 710R offers all the key functions of the KONFORT 700 Series, including automatic leak detection, electronic refrigerant weighing, automatic timed oil and UV tracer injection, and high efficiency refrigerant recovery.

APP KONFORT

The KONFORT range models 720R, 760R, 760R BUS, 770S and 780R BI-GAS can interface with Android and iOS mobile devices thanks to a dedicated APP.

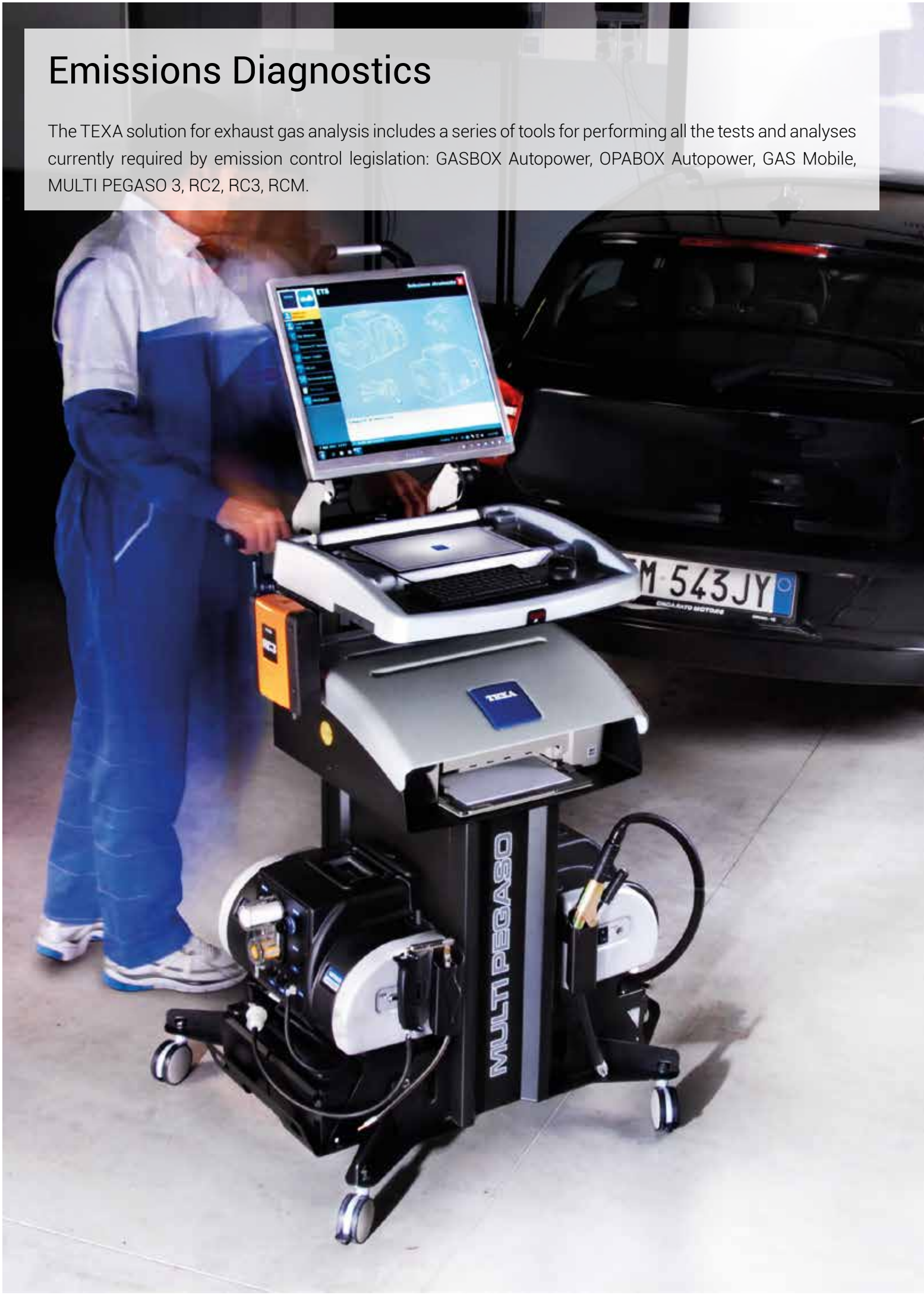
This APP allows technicians to **follow** the vehicle A/C **system service procedures** in progress also remotely, directly from the **smartphone**. Furthermore, the new APP allows you to manage the performed maintenance services easily, even when the station is turned off.

Refrigerant Identifier

The innovative Refrigerant Identifier, developed by TEXA, is the only kit of its kind currently made in Europe. It comes as standard equipment on the KONFORT 770S and as is available as an option on all other versions (except the 705R, 705R OFF ROAD, 710R and 720R). Protected by three registered international patents, the kit **guarantees the purity of R134a and R1234yf refrigerants**, stops technicians performing operations that might prove hazardous and prevents the dangerous mixing of different refrigerant types.

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_2, O_2, 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 Autopower and the RC2 and RC3 engine speed and temperature gauges.

RC3, RC2 and RCM

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. 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).

The RCM is an exclusive motor vehicle rev counter from TEXA that uses an innovative directional antenna to measure engine speed with great accuracy. The RCM is ideal for use with fully faired motorcycles on which it is not possible to use an inductive clamp.

Technical Training

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.

D9C: Diagnosis and calibration of driver assistance systems - ADAS

This course allows knowing the technical features and the operating modes of the advanced driver assistance systems such as RADAR, LIDAR, camera, infrared camera, ultrasound sensors. It provides information on the operating principles of the following systems: Park Assist, Lane Departure Warning, Adaptive Cruise Control, Forward Collision Warning, Adaptive High Beam Control, Pedestrian Detector, Blind Spot Detection, Park Assist, Night Vision, Drowsiness Detection System. Furthermore, during the course, a practical simulation of static and dynamic calibration will be performed using self-diagnostic and technical tools, to let participants carry out diagnostic and troubleshooting procedures and learn how to interpret the IDC5 software pages on errors, parameters, statuses, activations and adjustments.

D11C: Procedure for installing and configuring the instrumentation for the PASS-THRU diagnosis

The aim of the course is to put its participants in the conditions to follow the subsequent courses successfully. The trainer will transfer to the participants the basic concepts for using the PC and configuring it with the settings required in order to access the manufacturer websites.
The course D11C is an essential prerequisite in order to access the following editions which are specific for each manufacturer.

D11.1C: Diagnostic techniques with the PASS-THRU function on FORD-CITROEN-PEUGEOT

Learn the procedures to access the websites of the FORD, CITROEN and PEUGEOT manufacturers to consult the information needed for repairing and servicing their vehicles: the ordinary and extraordinary maintenance registrations forms, wiring diagrams, explanation of the fault codes, mechanical repair manuals.
During the practical tests on the vehicles available, the participant will learn how to use the PASS-THRU software programs provided by the manufacturers for reprogramming, coding control units based on the manufacturer's requirements.

ST1C: Safety in hybrid and electric vehicles

This course leads to qualification to perform electrical work. It imparts both theoretical knowledge and practical skills. Basic safety legislation; the risks associated with electrical current; basic first aid procedures; safety on vehicles with high voltage systems; the use of special tools; personal protection equipment; battery disconnection procedures (removal of service plugs); maintenance and making safe of hybrid vehicles; precautions and methods for recovering electric and hybrid vehicles from the roadside. Methods for maintaining and making safe the most common electric and hybrid vehicles currently in circulation.

G16C: Maintenance and diagnostic techniques of the new A/C systems with the R1234yf and R744 gases

Learn the key points of the European legislation and the technical proprieties of the new R1234yf and R744 refrigerants. Know how to service cooling systems with the R1234yf and R744 gases and learn the requirements for the storage and the procedures for recharging and servicing in complete safety.
Know how to carry out the recovery, recycling and recharging procedures correctly with the R1234yf and R744 gases through two examples on a Toyota Prius and Mercedes Benz.

S8C: Diagnosis and maintenance of 0B5 S-TRONIC dual-clutch gearboxes

Be able to perform a perfect electronic and mechanic maintenance on the 0B5 gearbox.
While removing and reassembling the gearbox, the participant will learn the electronic diagnostic procedures for the single components in order to evaluate how to act in case of a fault in the gearbox for a proper inspection. Learn how to safely carry out the procedures related to removing and reassembling the gearbox, checking, replacing and discharging the transmission fluid.

S9C: Diagnosis and maintenance of the TCT

Be able to perform a perfect electronic and mechanic maintenance on the TCT dual-clutch gearbox. While removing and reassembling the gearbox, the participant will learn the electronic diagnostic procedures for the single components in order to evaluate how to act in case of a fault in the gearbox for a proper inspection. Learn how to safely carry out the procedures related to removing and reassembling the gearbox, checking, replacing and discharging the transmission fluid.

Available starting from November 2019

D3.5C: Diagnosis, resetting and configuration techniques. Vol. 4

Learn the architecture and operating strategies of various latest-generation electronic systems, how to diagnose and calibrate them, and when to use the different configurations required by the manufacturer. In particular: diagnosis on Peugeot BlueHDI EURO 6 engines, Volvo with the Power Pulse system and i-ART injectors; procedures for resetting active suspensions on BMW, Land Rover, Audi models after working on then on a lift; calibration of the CFC319 automated manual transmission on FIAT 500C, Abarth, 500.

D8C: Diagnostic techniques for body shops

Provide body shop mechanics with the competences needed in order to work on the electronic systems installed on modern vehicles, to becomes multipurpose vehicle repair centres. Learn the different types of airbags and the operating principle pf the control unit and sensors, the peculiarities and diagnosis of the systems. Analyse the features of the new lighting systems such as Xenon headlights, LED and full-LED, adaptive headlights and the diagnostic and reset procedures. Learn the vehicle energy management systems and the deactivation and reset procedures. Be able to carry out the reset procedures on the ADAS Advanced Driver Assistance Systems and the static and dynamic calibration.

D12C: Checking the actuators and sensors with the self-diagnosis and the oscilloscope on the modern Euro 6 engines

Check the operation of the electric and electronic components on modern Euro 6 engines using the self-diagnosis. Learn how to analyse the parameters and their reference values, combining the use of the diagnosis with the use of the oscilloscope and multimeter. Be able to analyse the cases of fault on Euro 6 engines. Technical tests on Euro 6 vehicles with diagnostic and measuring tools.

D3HYB: Diagnosis and safety of the new hybrid and electric systems

Learn the features of the hybrid and electric vehicles by solving practical cases of faults related to the batteries, inverter and electric engines. Know how to analyse the state of health of the battery and inverter module using the instrumentation. Locate and start the Service Plug deactivation procedure in order to proceed safely.

Verify the availability of courses in your own country.

Note

Note

TEXA

TEXA was founded in 1992 in Italy and is today among the world leaders in the design and production of multi-brand diagnostic and tele-diagnostic tools, exhaust gas analysers and air conditioning service stations. TEXA is worldwide with an extensive distribution network; through its subsidiaries, it sells in Brazil, France, Germany, Japan, Great Britain, Poland, Russia, Spain and the United States. Currently there are more than 700 TEXA employees in the world, among which 150 engineers and specialists dedicated to Research and Development. Over the years, TEXA has received many awards and international recognitions, among which the Automechanika Frankfurt Innovation Award (2010 and 2014), the National Innovation Award as the most innovative company in Italy, received by the then President of the Republic Giorgio Napolitano (2011), the Irish Automotive Innovation Award (2014), and the Golden Wrench award in Moscow (2015 and 2017). In 2015, the Mit Technology Review awarded TEXA among the ten most "disruptive" companies in Italy. In 2016, TEXA received the Frost & Sullivan award for "European Commercial Vehicle Diagnostics Customer Value Leadership". All TEXA tools are designed, engineered and built in Italy on modern, automated production lines that guarantee the utmost precision. TEXA pays particular attention to the quality of its products, and obtained the strict certification ISO TS 16949 specially written for original equipment suppliers to the automotive industry.

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To check out the extensive coverage of TEXA products, go to: **www.texa.com/coverage**

To check on IDC5 compatibility and minimum system requirements, go to: **www.texa.com/system**

WARNING

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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 - info.it@texa.com

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