OFF-HIGHWAY SOLUTIONS

For Automotive Professionals
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THE WORLDWIDE DIAGNOSTICS SPECIALISTS

For twenty years now TEXA has been synonymous with automotive diagnostics all over world, with products covering electronic and electrical diagnostics, exhaust gas emissions control and vehicle air-conditioning diagnostics and recharging. TEXA has progressively developed an extraordinary worldwide network, with around 700 distributors operating in almost 100 countries.

COMPLETE AND MODULAR OFFERING
TEXA offers automotive technicians complete support during all stages of vehicle repairs: from analysis of fault symptoms, to identification of the right spare part. TEXA guarantees an unrivalled offering of tools and services that meet all customer requirements:

- **Autodiagnoses tools, on-board diagnostics, electrical diagnostics, emissions diagnostics, air-conditioning system diagnostics and maintenance.**
- **Operating software that’s always updated with vast databases of diagnostics, technical and service information.**
- **Specialist training through courses for automotive technicians and students of professional and technical training institutes.**
- **Customer service through call centers, online repair support and an extensive database of solutions.**

Just one display tool can be used to manage all types of diagnostics operations, on-board diagnostics, electrical diagnostics, emissions diagnostics and air-conditioning diagnostics. That’s not all: with the introduction of “Apps”, additional services can be made available for immediate access to exclusive functions, ensuring a unique vehicle servicing experience.
Diagnostics solutions
TEXA provides diagnostics solutions for five different sectors: CAR, TRUCK, BIKE, OFF-HIGHWAY (AGRI and CONSTRUCTION) and MARINE, and within each of these offers unrivalled coverage of makes and models, ranging from European to Asian and US vehicles, managed by a worldwide development team.

TEXA is the only company in the automotive business that has developed and continuously upgrades an autodiagnostics product suitable for both the AGRI and CONSTRUCTION sections. Software whose prime aim is not only to interact with the ECU to interpret faults and data or complete calibrations and settings, but also to offer useful support for technicians by providing a database that includes interactive wiring diagrams, system datasheets, detailed component datasheets and technical bulletins.

The IDC4 OFF-HIGHWAY software is constantly extended based on continuous feedback received from technician, who in order to provide autodiagnostics services require accurate and up-to-date technical documents, as well as specialist training.

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**A highly efficient professional partner, an essential workmate.**

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## IDC4 VEHICLE COVERAGE

### AGRICULTURAL VEHICLES

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<th>BUHLER VERSATILE</th>
<th>CASE IH</th>
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<th>DEUTS-FAHR</th>
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<th>ENERGREEN</th>
<th>FARESIN</th>
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<td>FRANZ KLEINE</td>
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<td>JCB</td>
<td>JOHN DEERE</td>
<td>KAMZ</td>
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<td>LAVERDA</td>
<td>LINDNER</td>
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<td>MANITOU</td>
<td>MASSEY FERGUSON</td>
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<td>RENAULT AGRICULTURE</td>
<td>ROPA</td>
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### CONSTRUCTION

<table>
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<tr>
<th>ASTRA</th>
<th>BELL</th>
<th>CASE</th>
<th>FIAT-HITACHI</th>
<th>FIAT-KOBECO</th>
<th>KOBELCO</th>
<th>KOMATSU</th>
<th>NEW HOLLAND</th>
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<tr>
<td>O&amp;K</td>
<td>PERLINI</td>
<td>PETTIBONE</td>
<td>TEREX</td>
<td>VOLVO</td>
<td>XTREME</td>
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### INDUSTRIAL ENGINES

<table>
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<tr>
<th>CUMMINS</th>
<th>DEUTZ</th>
<th>IVECO MOTORS (AIFO)</th>
<th>MERCEDES-BENZ</th>
<th>NEF</th>
<th>PERKINS</th>
<th>SCANIA</th>
<th>SISU</th>
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<tr>
<td>VOLVO PENTA</td>
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The App concept

Electronics are becoming increasingly common on modern vehicles, spreading to components that not so long ago were simply mechanical. This has created a situation in which new requirements arise due to diversification of the services offered by automotive technicians and the evolution of customer vehicle fleets.

As a consequence, automotive technicians need to carry out a much vaster range of procedures, making it harder to choose the best diagnostics tools and subscription services for their workshop.

To meet these new requirements, TEXA not only provides traditional subscriptions and upgrade options, but also an innovative diagnostic “App” concept, inspired by the world of consumer electronics.

From the IDC4 main menu, customers can now access the TEXA APP, offering a list of Apps available: functions that are not available for the customer’s profile are identified by a darker icon.

To order any of these Apps, customers can simply click the icon, opening a simple and user-friendly procedure to order the App from the reseller and install it on their tool.
As well as functions available on payment, free applications will also be provided, either by TEXA directly or its partners. TEXA has introduced this new concept as a way of offering automotive technicians the possibility to develop a modular tool that reflects their professional development, implementing new functions and upgrades at any time.

Apps available starting from the next IDC4 software versions (for AXONE 4 and for PC) and IDC4 POCKET.
Unbeatable autodiagnostics

Autodiagnostics are the heart of the system, the main function required by technicians for efficient servicing. It is also the area where TEXA has focused its extensive know-how.

The TEXA IDC4 autodiagnostics environment provides direct access to individual functions, such as reading parameters and system status, reading errors, activation of individual components to check operation, and setting and calibration functions.

**ERROR** screen listing the faults/malfunctions saved in the ECU, with a detailed description of each one.

**PARAMETER/STATUS** screen showing the inputs and outputs managed by the ECU, displayed in numeric format and on graphs.

**SETTINGS** screen, offering the possibility to run the calibration, initialisation and programming functions required by the system, thus completing any repairs.

**ACTIVATIONS** screen, with functions for testing the components.
## Total coverage, extraordinary functions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Body computer</td>
<td>Errors</td>
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<tr>
<td>Cabin control</td>
<td>Parameter</td>
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<tr>
<td>Steering wheel electronics</td>
<td>Status</td>
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<tr>
<td>Search for installed systems</td>
<td>Settings</td>
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<tr>
<td>Diesel injection</td>
<td>Activations</td>
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<tr>
<td>Instruments</td>
<td>iTEXASupport</td>
</tr>
<tr>
<td>Air conditioner</td>
<td>Wiring diagrams</td>
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<tr>
<td>ABS</td>
<td>Mechanical data</td>
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<td>Assale Sospeso</td>
<td>Recording of the diagnosis session (Rec &amp; Play)</td>
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<tr>
<td>EBS</td>
<td>Self-diagnosis help</td>
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<tr>
<td>Parking brake</td>
<td>Tools and utility programs</td>
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<tr>
<td>Front hydraulic lift</td>
<td>Printouts</td>
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<tr>
<td>Brake power support</td>
<td>Database and log of customers/works</td>
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<tr>
<td>Traction control</td>
<td>Spare parts management</td>
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<tr>
<td>and many other...</td>
<td>and many other...</td>
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iTExASupport
This function can be used to send a service request by simply entering the type of vehicle and the system being serviced, then describing the specific problem that cannot be solved. The TEXA call center will immediately deal with the request and provide a response to solve the problem in the shortest possible time.
Exclusive functions to AXONE 4 and IDC4 PREMIUM

Exclusive to AXONE 4, the software comes with important new features that provide concrete support for the everyday work of automotive technicians. IDC4 PREMIUM has updated and very user-friendly graphics, with the menu divided into four scrolling screens for direct access (Diagnostics, Data, Measurements, Settings).

Using the “Remote Assistance” function, when needed TEXA personnel can establish a remote connection to the tool and see exactly what is happening with the customer’s vehicle.

The Data menu contains useful information for accessing vehicle technical data and locating components. One special application, the “Manufacturer Link”, is particularly useful as it allows direct access to all the technical information provided by manufacturers relating to the vehicle’s original equipment.
NAVIGATOR TXT

NAVIGATOR TXT is a powerful multibrand diagnostics and autodiagnostics tool that connects directly to the vehicle’s diagnostic socket, and communicates via Bluetooth with the AXONE 4 display units, or alternatively with a Windows PC. Wireless connectivity means users can carry out diagnostics testing while being free to move around the vehicle and workshop.

NAVIGATOR TXT can perform all common autodiagnostics tests, including: read and clear errors, display engineering parameters and activation status, set and configure oil change, service and airbag indicator light reset, ECU configuration, keys and remote controls. NAVIGATOR TXT is compatible with the PASS-THRU protocol*, which allows any workshop to connect to each manufacturer's central server and download software packages or official technical information. The PASS-THRU function can be used whenever needing to update the software on one or more electronic control units, in the event of malfunctions.

* Go to www.texa.com/passthru to verify compatibility and the functions made available by individual vehicle makers.
AXONE 4 is a tool designed especially to solve all problems that may occur both inside and outside the workshop. It can withstand knocks, falls, mud and dust, and is compliant with military standard MIL STD 810F. AXONE 4 communicates with all TEXA diagnostic interfaces via Bluetooth. It can connect to the workshop’s network over a Wi-Fi link to download the latest database updates, or use a smartphone to connect to the internet if you are away from the workshop. AXONE 4 also has a remote assistance function to allow TEXA’s experts to connect remotely and see exactly what is happening with the customer’s vehicle. The DUAL CONTROL function also allows simultaneous connection to two different interfaces, so that you can run autodiagnostics on one component while monitoring the signal of another on the oscilloscope, for example.
TwinProbe is the TEXA tool for acquiring the analogue and digital measurements needed for all conventional diagnostic testing. It comes at a lower price than UNIProbe, its “big brother”, however both share in common outstanding practicality and precision for all automotive service operations. It communicates with all TEXA display units or a Windows PC, either via a USB connection or over a Bluetooth wireless link. The tool can be managed by the IDC4 operating software, or MSS (Measurement System Software) when used on a PC.

TwinProbe includes:
• Oscilloscope: two independent analogue channels, with inputs up to ± 200V, complete with SIV function for interpreting the measured signal.
• Signal generator: for simulating the pulses generated by sensors and the commands generated by control units and for testing solenoid valves, for example.
• Ammeter: for measuring electric current intensity. A BICOR clamp-on ammeter is needed to allow TwinProbe to run these tests.
UNIProbe is a device for acquiring the analogue and digital measurements needed for all conventional diagnostic testing. It communicates with all TEXA display units or a Windows PC, either via a USB connection or over a Bluetooth wireless link. An internal lithium battery guarantees excellent autonomy. The tool can be managed by the IDC4 operating software, or MSS (Measurement System Software) when used on a PC.

Incorporates six different tools in the one unit:
- Oscilloscope: four independent analogue channels, complete with SIV function for interpreting the measured signal.
- Battery Probe: for testing the battery, as well as analysing and checking the entire starting and charging system.
- TNET: for 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 for testing solenoid valves, for example.
- Multimeter: for voltage, resistance and current measurements (using a clamp-on ammeter).
- Pressure tester: for checking fuel supply and turbocharger pressure on all vehicles.
KONFORT 760R is the ideal solution for carrying out maintenance work and refrigerant recharging on all vehicles. This highly-automated workstation - recommended by the world's leading vehicle makers - implements advanced technology and features a total of eight registered international patents.

The operating software installed reflects the strictest SAE standards in terms of precision and accuracy. Using a vast array of sensors, KONFORT 760R can manage refrigerant identification and recharging operations with unprecedented precision. An advanced active matrix colour TFT display monitors progress of automatic operations using pictures, graphs and datasheets: any possible faults are signalled with detailed error messages. The removable memory (SD card) means the device can communicate with a stand-alone Windows PC, so as to update the database of makes and models, check and certify all maintenance operations performed, and upgrade the software when necessary.

KONFORT 760R can be fitted with the refrigerant identifier kit, to prevent contamination between different types of gas and detect the presence of counterfeit refrigerants inside the vehicle’s air-conditioning system.

OPTIONAL
Flushing Kit, VDC Kit, Climate efficiency kit, Bluetooth module, WASY II module.
TEXAEDU OFF-HIGHWAY

Work on the electronic systems that manage modern vehicles not only requires knowledge of the underlying principles, but also in-depth and specialist training. This is why alongside its vast range of products, TEXA also offers automotive technicians specific training through a network of Training Centres located at its sales outlets throughout Italy. The TEXAEDU training program is divided into modules, so that each workshop can choose the specific course that best suits its needs. The possibility to use diagnostics tools in the classroom and in specially-equipped areas to run practical tests both directly on vehicles and using electronic simulators, ensures seamless integration between the theoretical and practical sessions, as well as faster and more effective learning.

D1A - AGRICULTURAL VEHICLE DIAGNOSTICS TECHNIQUES
DURATION: 8h
Diagnostics methods and procedures applied to the main electronic systems on agricultural vehicles, interpretation of errors, parameters and status relating to the CAN network, transmission, fuel management and lift. Configuration and calibration procedures for the transmission, engine and rear lift.
Practical examples on vehicles: Same, John Deere, Fendt.

D4 - OSCILLOSCOPE DIAGNOSTICS TECHNIQUES
DURATION: 8h
Illustration of the functions available on the oscilloscope and how to read analogue and digital signals, such as peak-to-peak, frequency, PWM and T-NET mode for CAN Bus lines. The course mainly involves practical sessions, with case studies such as: analysis of earth and power supply potential, checking DFM signal from alternators, analysis of lambda signals, digital air mass meter, RPM and phase sensor synchronicity. The final part of the course examines some useful notions for checking digital signals on CAN Bus networks, thanks to the easy-to-use T-NET tool.

G1 - FUNDAMENTALS OF AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS
DURATION: 8h
Techniques for measuring and checking vehicle electrical and electronic systems. Analysis of electrical and electronic components and the logical structure of the main circuits. Checks and measurements with in-depth theoretical and practical information on using the oscilloscope and the autodiagnostics program. Interpretation of component symbols on wiring diagrams used in the IDC4 operating environment. Introduction to digital systems and CAN Bus lines.

Check course availability in your country.
TEXA was established in 1992 in Italy at Monastier di Treviso, and today is a European leader in the design and production of multibrand diagnostics tools, exhaust gas analysers and air-conditioning maintenance stations. TEXA has operations virtually all over the world, through an extensive distribution network, while in Spain, France, Great Britain, Germany, the United States, Poland, Russia and Japan, it markets its products directly through its own branches.

TEXA now employs some 450 people around the world, including around 100 engineers and specialists working in Research and Development. TEXA has also received extensive international recognition over the years: the company won the prestigious Frost & Sullivan award in 2006 and 2007, received the GIPA (Groupement Inter Professionnel de l’Automobile) prize in 2009 for the TEXAEDU program, and in the same year won a gold medal at the Grands Prix Internationaux de l’Innovation Automobile in Paris. In 2010 it won the Innovation award at Automechanika Frankfurt, and in 2011 the “Galeria de Innovacion” prize at Motortec in Madrid.

In 2011, the President of the Italian Republic Giorgio Napolitano presented founder and CEO Bruno Vianello with the national award for Italy’s most innovative company. All TEXA tools are designed, engineered and built in Italy, using modern automated production lines, a guarantee of maximum precision. TEXA focuses careful attention to product quality, and has obtained certification in accordance with the strict ISO TS 16949 requirements for suppliers of original equipment to the automotive industry.