

DIAGNOSTICS, TELEMATICS & TOOLS

# jaltest AGV

CATALOG



jaltest  
BY COJALI

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JALTEST. INDUSTRY-  
LEADING DIAGNOSTICS &  
TECHNICAL SOLUTIONS

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COJALI





# JALTEST AGV //

All-makes, all-systems diagnostics tool developed to support technicians in the repair and maintenance of the most advanced agricultural machinery and to modify settings and parameters in an easy and intuitive manner.

Jaltest is not limited to reading fault codes on vehicle systems, it also features bi-directional controls and guided troubleshooting.

Jaltest after-sales support is focused on delivering professional services to the workshop through:

1. Technical Assistance.
2. Training & e-Learning.
3. Specialized Customer Support.

# NEW LINK V9 //

## FASTER CONNECTION RATE (BAUD RATE).

Improved performance and communication with a speed increase in the data transfer and processing, both in VCI-PC and VCI-system.

## USB AND SUBD26 CONNECTOR PROTECTION (POKA YOKE MODEL).

Protection and integrity of the connectors that have a mistake-proofing design.

## ROBUST ELECTRONICS AND ENHANCED COMMUNICATION CAPABILITIES.

Greater connectivity, new supported communication protocols and extended multiplexor.

## IMPACT ABSORPTION.

Design with a rugged covering that protects against falls and scratches. As an IP40 certified product, when connected, the Jaltest V9 is water and dust resistant.

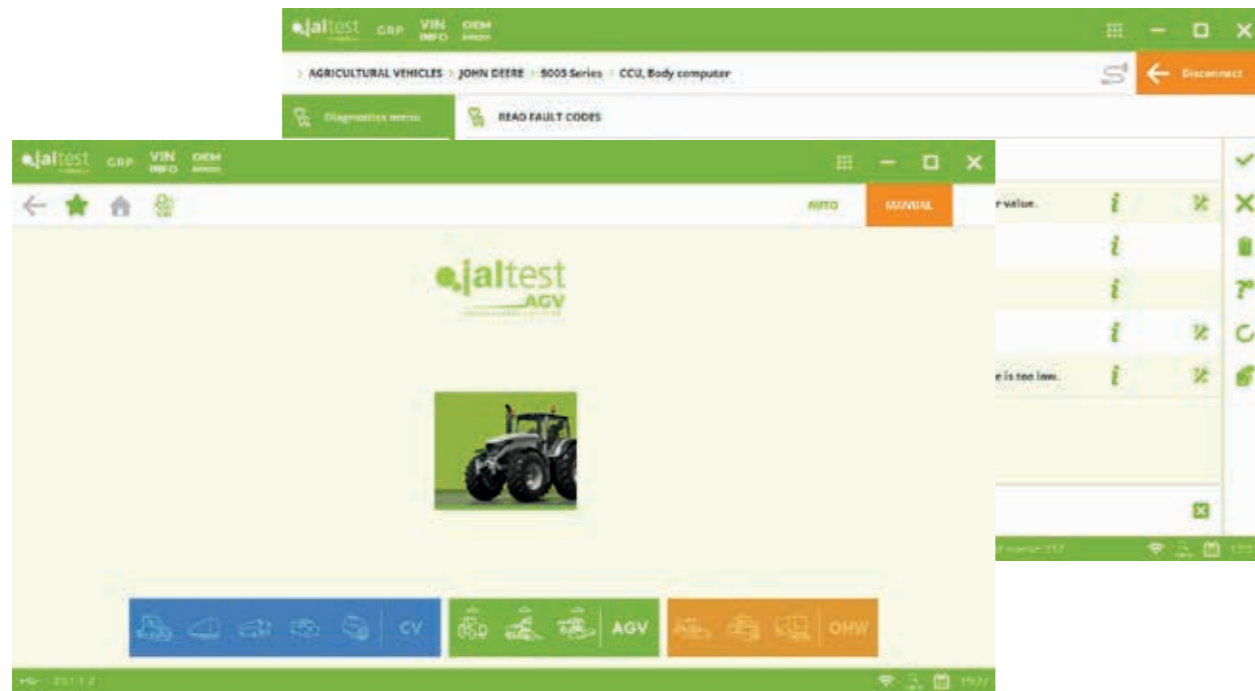
## COMPACT AND LIGHT.

Reduced weight, Jaltest V9 is 76% lighter than its predecessor. It offers the possibility of attaching a lanyard to facilitate the use of the device.



LIGHTER,  
FASTER,  
BETTER

# NEW GRAPHIC INTERFACE //



MORE VISUAL,  
MORE INTUITIVE

## FAST INSTALLATION AND HANDLING.

Optimized software to reduce the installation and update time, as well as a shorter response time.

## CUSTOMIZABLE.

Responsive design that adapts to all screen types and sizes. It enables the user to configure the shortcuts, customize the working area and define the visualization according to the user needs.

## EVERYTHING IN ONE SINGLE DISPLAY.

It offers the user all the information needed in one single display. It enables them to visualize the maximum number of functions, make a search, etc.

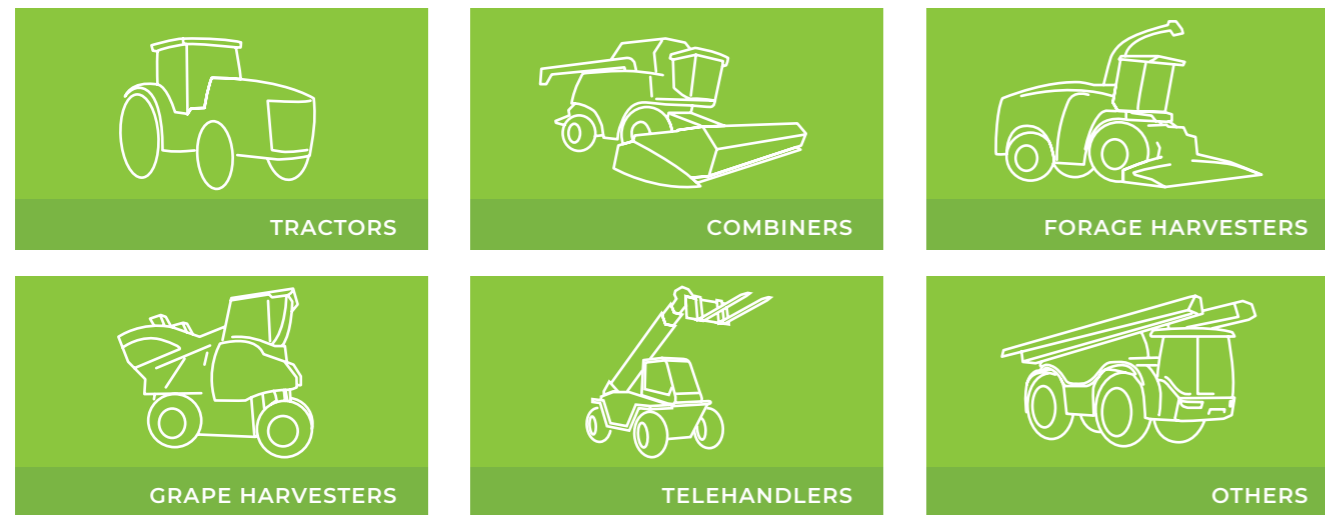
## ELEGANT DESIGN WITH BRIGHTER COLORS.

Clean, minimalist and elegant design to favor the visualization of graphics, icons and colors.

## ALL-MAKES AND ALL-SYSTEMS COVERAGE

Jaltest AGV is the benchmark in the agricultural vehicle sector. It offers great advantages and many different actions to perform effective diagnosis in agricultural machinery.

Following the functionalities of the rest of Jaltest modules, this version is completed with a great coverage of brands, systems and technical information, as well as a wide range of cables to make a direct connection.

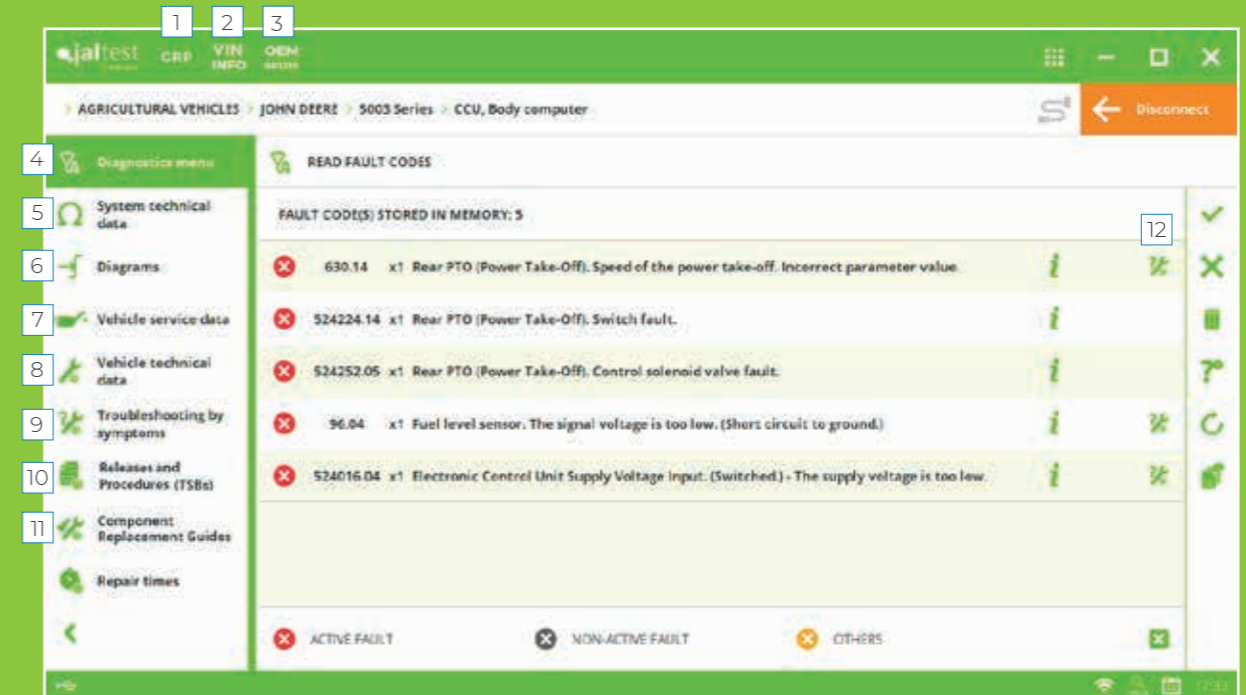


Jaltest's unparalleled Agricultural Equipment diagnostics kit features the industry's most extensive and detailed coverage. New functionalities, brands and models are added in scheduled software updates, every 4 months, utilising a flexible and market-oriented focus.

COVERAGE // UP TO 46 BRANDS				
CASE IH	CHALLENGER	JOHN DEERE	MAHINDRA	NEW HOLLAND
CATERPILLAR	DEUTZ - FAHR	KUBOTA	MASSEY FERGUSON	VERSATILE

## MORE THAN DIAGNOSTICS

With Jaltest, technicians will have access to a wide range of functionalities which will guide them through the equipment repair process:



This are some of the features that make Jaltest the Industry's Leading Diagnostics tool:

1. GRP (Garage Resource Planning). Shop and Customer/Vehicle Record Management.
2. VIN information.
3. RP1210 Protocol compliant software (OEM).
4. Diagnostics Menu.
5. System technical data.
6. Diagrams.
7. Vehicle service data
8. Vehicle technical data.
9. Troubleshooting guides by symptoms.
10. Releases and Procedures.
11. Component replacement guides.
12. Troubleshooting guides by fault codes.

# SOFTWARE //

## GUIDED DIAGNOSTICS

Jaltest provides the necessary information to repair agricultural equipment breakdowns in an easy and effective way:

1. Component technical data.
2. Wiring, system and fuse diagrams.
3. Machine service data for equipment inspections.
4. Equipment technical data.
5. Troubleshooting by symptoms of the most common failures on the equipment.
6. Releases and procedures with manufacturer information.

JALTEST GUIDES YOU WITH  
ADDITIONAL INFORMATION  
TO ASSIST IN THE REPAIR  
PROCESS

Freeze-Frame data.

Component information and location.

System wiring diagram.

Help and components of the fault code.

Troubleshooting by symptoms

Troubleshooting details.

Fault Code Troubleshooting.

**TROUBLESHOOTING**  
Low voltage or short circuit to a lower voltage.  
Possible error causes:  
On electrical circuits, the electric current circulates through conducting wires (cables). The electrical circuits are closed, and whenever a circuit has been incorrectly closed, something called "short circuit" takes place. For instance, when two wires with no insulation make contact with each other, the circuit is being closed by that contact and a short circuit is taking place.  
If a bare wire which has a voltage level makes contact with another wire which is at a lower voltage level, it is said that it has a short circuit to a lower voltage.

## BEST-IN-CLASS REPAIR GUIDES, ONE CLICK AWAY

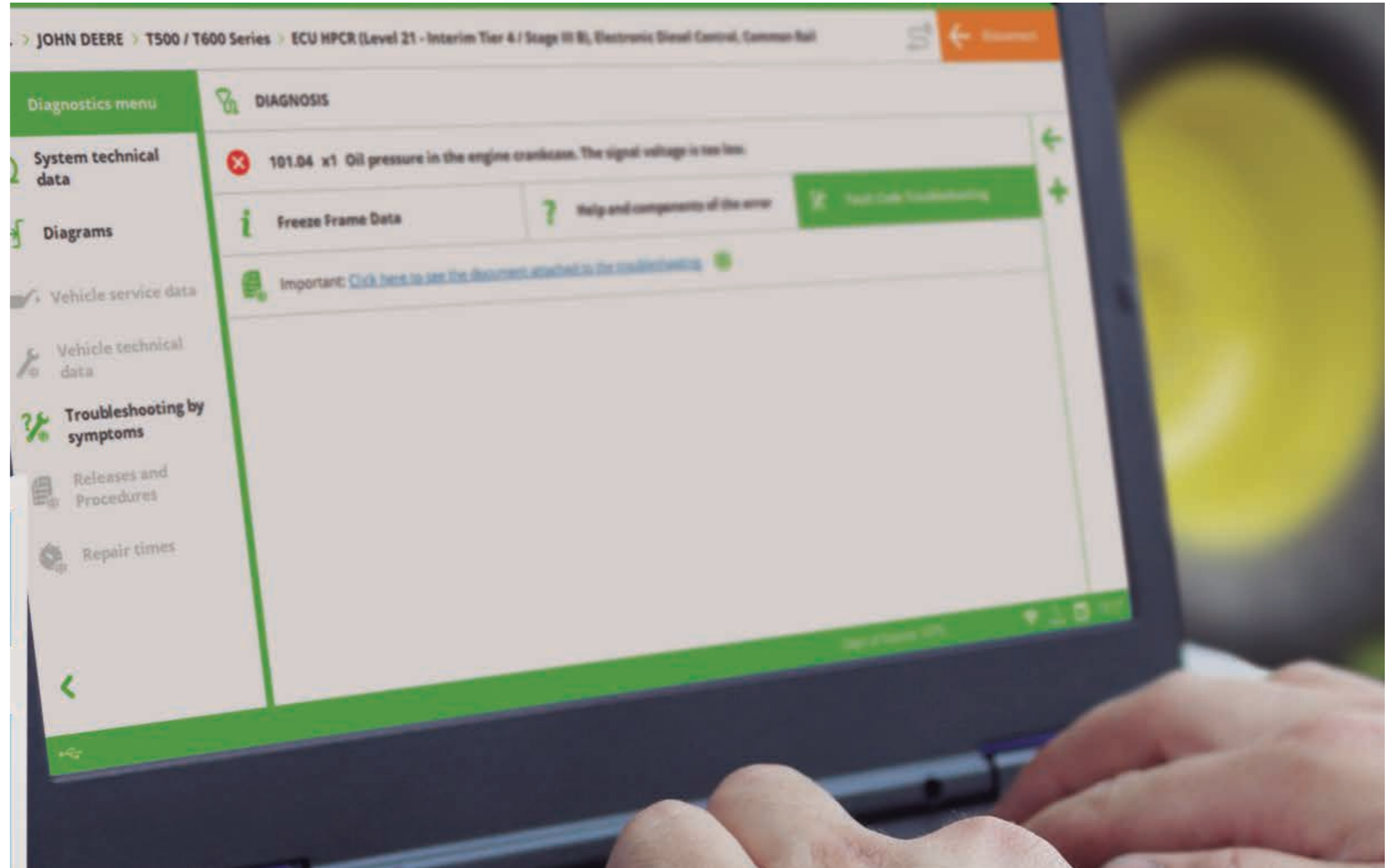
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### JALTEST INFO

Detailed technical information including images, pictograms, graphics, diagrams and pictures for every vehicle to be diagnosed. This information will help to identify the fault code, the part, the location, etc. In this complete module we can find:

1. Diagnostics (troubleshooting by fault code).
  2. System Technical Data.
  3. Diagrams.
  4. Vehicle Technical Data.
  5. Vehicle Service Data.
  6. Troubleshooting by symptoms (diagnostics).
  7. Releases and Procedures.
  8. Manual Diagnostics.
- 

JALTEST INFO, A TOP OF THE LINE RESOURCE INTEGRATED DIRECTLY IN THE TOOL





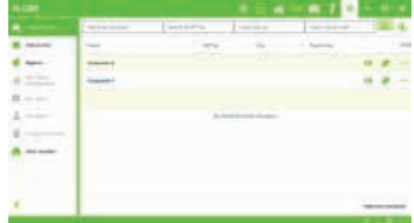
# JALTEST DELIVERS RESULTS, AS SOON AS THE VEHICLE ENTERS THE SHOP

## JALTEST GRP

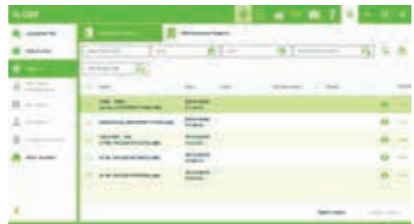
GRP is an optimized shop management solution. Share customer information, vehicle data and diagnostic reports, work order management, labor times and access to Jaltest Telematics Solutions.

**GRP BASIC.**

- Client list.
- Reports (diagnostics & maintenance).



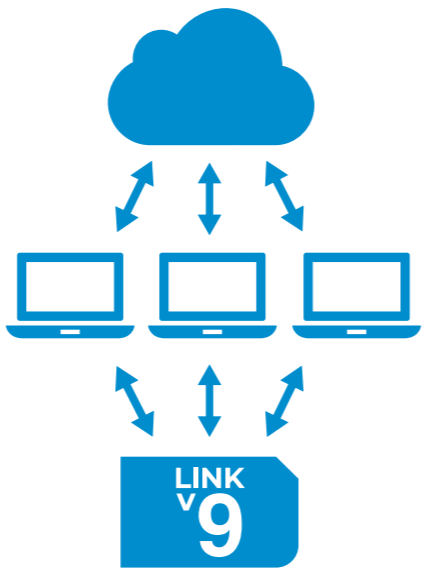
**CLIENT LIST.**



**REPORTS.**

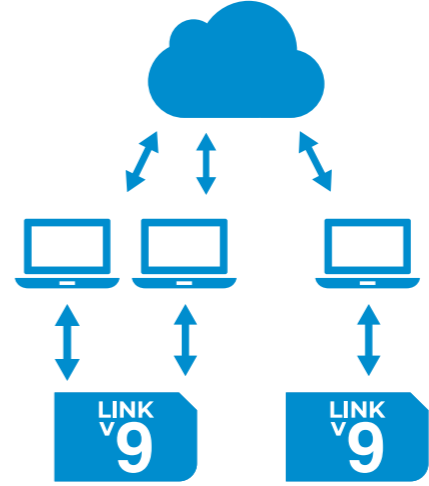
**GRP SYNCHRO.**

- GRP Basic.
- User accounts control (10 maximum).
- Data synchronization between multiple PCs (same Jaltest interface).
- Information back-up.
- Human Resources.



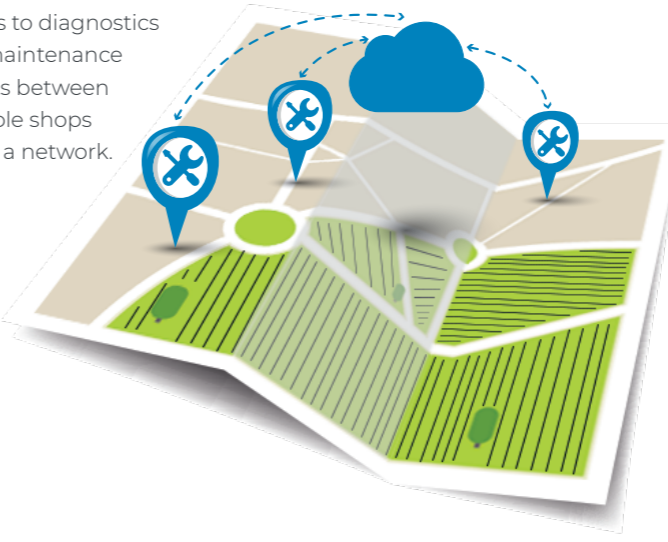
**GRP ENTERPRISE.**

- GRP Synchro.
- Shop Management Module.
- Reception Module.
- My Tasks Module.
- Jaltest Telematics Module.
- Data synchronization between PCs (same company).
- Work order reports.
- User accounts control (unlimited).



**GRP NETWORK.**

- Access to diagnostics and maintenance reports between multiple shops inside a network.



# GRP MODULES DESCRIPTION:

**CLIENT LIST.**  
Management of customers for a shop or a network of shops.

**REPORTS.**  
Management and consultation of all reports generated by Jaltest: diagnostics, maintenance, work order or shop time.

**SHOP MANAGEMENT.**

- Work orders.
- Task.
- Shop time reports.

**MY TASK.**  
Each user can manage the assigned tasks easily by this menu.

**RECEPTION.**

- Reception forms.
- Work orders management.

**HUMAN RESOURCES.**  
Intended for the management of the shop's staff.

**JALTEST TELEMATICS.**  
Link between the fleet, shop and truck driver. It allows the user to receive notifications and alarms sent by the fleet manager.

**1. INTERACTIVE WIRING DIAGRAMS.**

While navigating over the wiring diagrams, the components are outlined and the technical information, including relevant documents, technical data, comments and location, can be directly accessed.

**2. SYSTEM OPERATING DIAGRAM.**

Understanding how systems work can be a complex task. Jaltest provides the pneumatic, electrical and fuel schematics with their corresponding technical values, images, locations and much more to speed up the technician's work.

**3. SYSTEM DISPLAY.**

Real-time live data display on vehicle schematics. It enables a fast assessment of the functioning of the system.

**4. VIRTUAL INSTRUMENTS / GRAPHS.**

Visual aid for the technician to check values and understand the current status of any system available in the vehicle.

**5. SYSTEM SCAN.**

This function allows the user to auto-detect the available systems in the selected model. During the Auto-detection, fault code reading of every available system takes place including their identification data. Later, every fault code can be cleared.

**6. FLEET CUSTOMIZATION.**

This function will allow you to customize your fleet, create new brands that are specific to your market by choosing the systems included in the vehicle, and add connectors, its location, images and comments.

**7. DIAGNOSTICS BY VIN NUMBER.**

Once the customers and vehicles portfolio has been created, the access by VIN number is fast and easy.

**8. SHORTCUT TO SPECIAL FUNCTIONS.**

Optimize repair times at the shop with direct access to relevant repair processes.

**9. TECHNICAL DATA AND PROCEDURES.**

The experience of Cojali's Technical Assistance team has allowed the classification of the most relevant technical data of the vehicle.

## JALTEST EXPERT MODE

Jaltest EXPERT MODE offers advanced diagnostic possibilities for the shop. With EXPERT MODE, the technician is able to carry out actions that require modifying parameters on different ECUs:

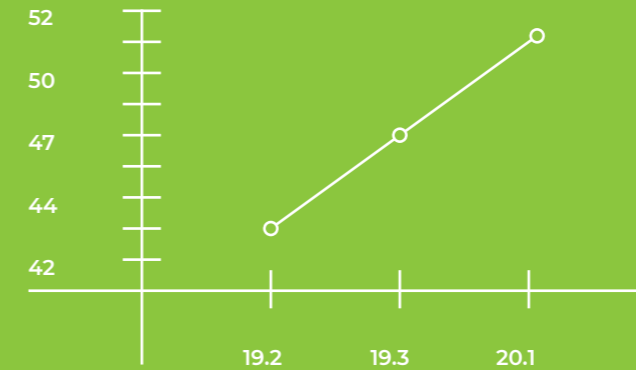
1. Calibrations of sensors and actuators (VGT actuator, EGR valve, transmission systems, rear lift, etc).
2. Setting of the systems operation parameters (injector coding, spool valves number programming, etc).
3. Configuration of the vehicle maintenance services.
4. Verification of systems functionalities.
5. Replacement of diesel particulate filter.
6. DPF regeneration.
7. More...



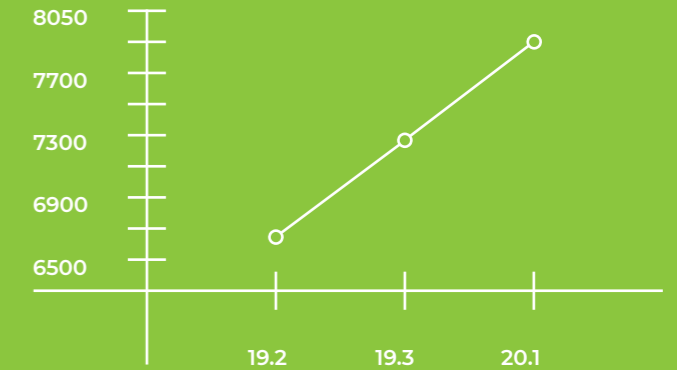
## CONSTANT INNOVATION

New equipment, models and systems are being developed constantly. This is why Jaltest AGV releases three software updates every year, offering your business industry-leading diagnostics solutions.

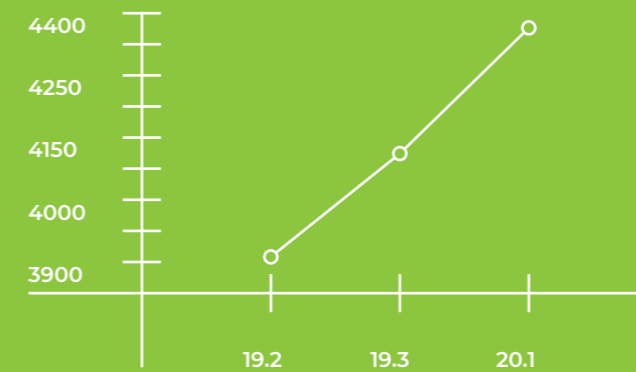
BRANDS



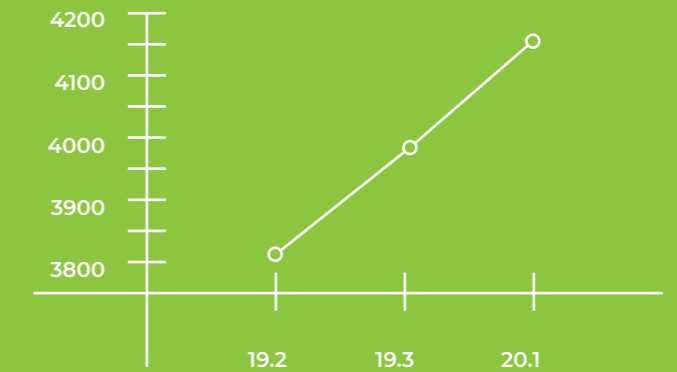
SYSTEMS



TECHNICAL INFO



DIAGRAMS



THREE ANNUAL  
SOFTWARE UPDATES

# COVERAGE //

## AGRICULTURAL EQUIPMENT

Jaltest is placed as a benchmark in this market by launching an application with great advantages and possibilities for an effective diagnostics on agricultural vehicles. Following the functions from the other Jaltest modules, Jaltest completes this version with a great coverage for brands, systems and technical information, as well as with a wide range of cables for direct connection.

## JALTEST KITS ARE CLASSIFIED BY SECTOR AND COVERAGE



THIS COMPREHENSIVE COVERAGE MAKES THIS KIT THE MOST POWERFUL DIAGNOSTICS UNIT ON THE MARKET

1. COVERAGE FOR TRACTORS, COMBINES, FORAGE & GRAPE HARVESTERS, TELEHANDLERS AND MORE.
2. ALL COMMUNICATION PROTOCOLS ARE SUPPORTED.
3. INTUITIVE AND EASY TO USE SOFTWARE INTERFACE.
4. AUTOMATIC DETECTION OF SYSTEMS AND FAULT CODES.
5. TROUBLESHOOTING BY SYMPTOMS AND FAULT CODES HELP.
6. INTEGRATED TECHNICAL INFORMATION, WIRING DIAGRAMS, TECHNICAL DOCUMENTS...
7. SCHEDULED UPDATES AND LATEST DEVELOPMENT IMPLEMENTATIONS.
8. CALL-CENTER FOR TECHNICAL AND CUSTOMER SUPPORT.
9. TRAINING & E-LEARNING.
10. GRP - GARAGE RESOURCE PLANNING.
11. CUSTOMIZE MACHINES BY SELECTING SYSTEMS.



# HARDWARE //

All Jaltest products have been designed to meet the demands and needs of the workshop mechanics and the most demanding road assistance needs. They are designed and built to face any extreme work or weather conditions.

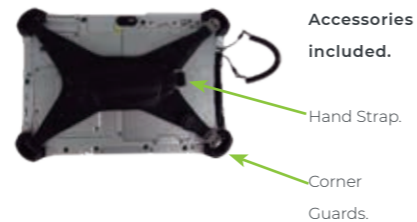
## JALTEST RUGGED PC.

- Windows 10 Pro.
- Exclusive design that improves resistance.
- MIL-STD 810G category certification.
- Liquidresistant keyboard/ touchpad.



## JALTEST RUGGED PAD.

- 10" Rugged Tablet with Windows 10 Pro.
- Daylight-readable Display with Gloved Multi Touch + waterproof digitizer pen.
- User-replaceable Battery and Optional Long-Life Battery.



## JALTEST HARDWARE SOLUTIONS.

The tool's heartbeat, programmed to convey information with all communication protocols in a quick and efficient way.

### LINK V9



### CABLES



## JALTEST ACCESSORIES.

Additional equipment offered to the shop in order to perform their daily tasks in an easier and more comfortable way.

### WORKSTATION



### HARDCASE



# SERVICES //

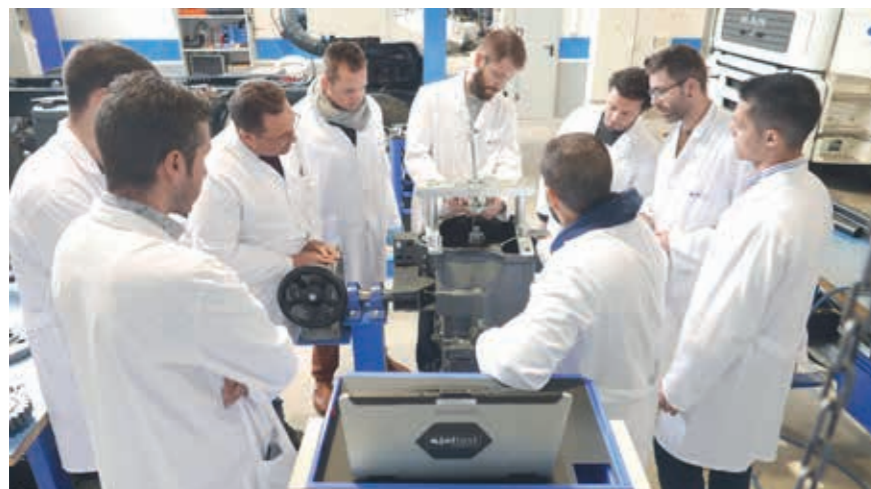
## TURN YOUR SHOP INTO A TECHNOLOGICAL CENTER













### TRAINING

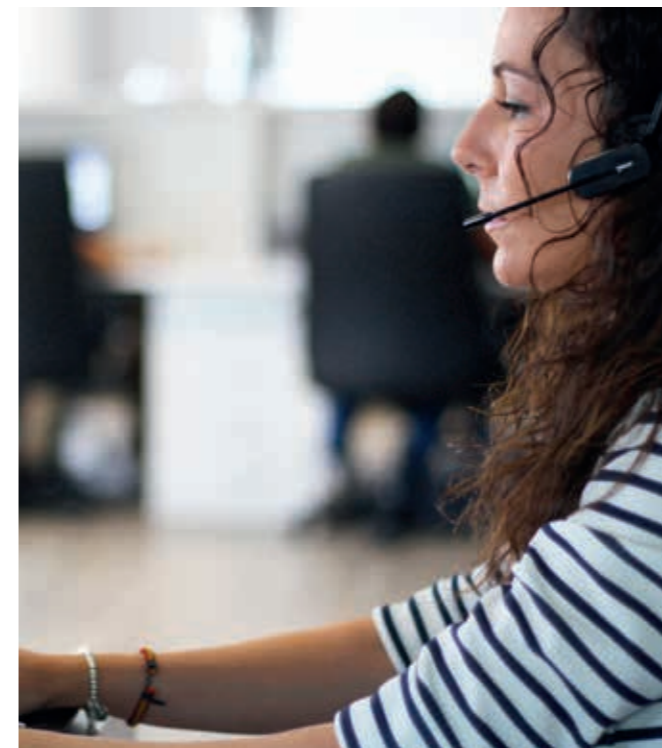
To perform diagnostics, repair or maintenance tasks, today's technicians do not only require mechanical knowledge. In today's world, new vehicles have increased the electronic features and demand constant training and always being up to date if you want to carry out the repair.

For this reason, Cojali has created an exhaustive training plan, comprising both theory and practice. This training plan is multilingual and it may be taught in Cojali's training classrooms or in any other location. Moreover, it has been designed with an e-learning format to follow the course on-line from any place.

### COURSES



-  **DIAGNOSTICS**
-  **ELECTRICS**
-  **PNEUMATICS**
-  **ENGINE MANAGEMENT**
-  **GEARBOX**
-  **COMFORT SYSTEMS**
-  **BRANDS**
-  **TRAILER**
-  **LIGHT COMMERCIAL**
-  **AGRICULTURAL**
-  **JALTEST SPECIALIST**
-  **SYSTEM SPECIFIC**



## TECHNICAL ASSISTANCE


This kind of support is essential to solve certain vehicle breakdowns. Technological developments require the technician to update their knowledge regularly. Cojali offers a specialized support based on the experience of our top mechanics and the development of technical information for agricultural vehicle systems.

Jaltest customers worldwide continue to trust with our specialized technical assistance service; this service includes the possibility of remote assistance connections to solve our customers' doubts, immediately.


## CUSTOMER SUPPORT

A human team will be at your service to offer all the information about Jaltest you may need.


1. Software Update and Innovations.
2. Update release calendar information.
3. Device license management.
4. New products, hardware and software.
5. Special offers and promotions.
6. Invoices and purchase orders.
7. Shipping management.



**DIAGNOSIS CENTER**





# COJALI //

Cojali is a Spanish multinational company and a leading manufacturer of cooling systems, braking systems, electronic components, multibrand diagnostics and telematics for commercial vehicles, agricultural equipment, construction machinery and marine vessels.

Established in 1991, Cojali focuses on research, development and innovation for commercial vehicles in the aftermarket, offering high quality products just as the OEM.



## COJALI PRODUCTS

### COOLING SYSTEMS.

Cojali is a leading manufacturer of fans and viscous fan clutches for all types of commercial, agricultural equipment and off-highway machinery. Our catalog offers a wide range of brands in the European, Asian and North American markets.



### AIR BRAKE SYSTEMS.

Cojali manufactures one of the widest ranges of braking systems for commercial and agricultural applications, among which we can find mechanic, pneumatic and electronic systems, such as clutch servos, actuators and other types of valves.



### ELECTRONIC & ELECTRICAL COMPONENTS.

A constant growth within our R+D+i Department allows Cojali to keep investing in the development of this type of product, where electronics covers a large part of the spare part for commercial vehicles and agricultural equipment.



### RECONDITIONED PRODUCTS.

Reconditioning of elements with electronic control, subject to strict quality controls. It is a complex and thorough process, since all the part components that might be worn are replaced by new ones, in addition to the renewal of the electronic part and the subsequent reprogramming or parameter setting, depending on each case.





## JALTEST ISOBUS CONTROL

Jaltest ISOBUS CONTROL offers connectivity solutions between implement and tractor for all types of implements. This solution introduces the digitalization of agricultural production processes, in order to manage the resources efficiently and enable the precision agriculture to be more accessible and easier to implement.

Based on ISOBUS technology (ISO 11783), this solution has the following as its main objectives:

1. To ensure complete compatibility between tractor and implement regardless of the manufacturer.
2. Automation of agricultural processes.
3. Optimization of time, resources and machines.
4. Maximizing of agricultural production and cost reduction.
5. Acquisition of efficient data to aid in the decision-making process and in future season planning.
6. Real-time control of farming and agricultural machines.

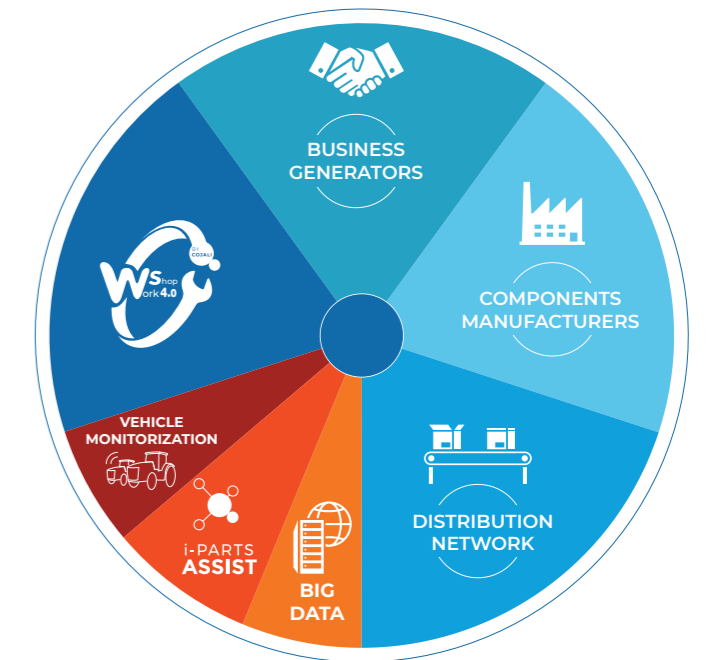
Jaltest ISOBUS CONTROL is a flexible and functional solution, which helps to achieve the maximum performance of agricultural machinery, to successfully and comfortably manage a productive and efficient business adapted to new technologies.



## WORKSHOP 4.0

A set of solutions and services that connects shops, fleets and spare parts supplier in order to perform predictive maintenance and a professional, fast and efficient repair through Jaltest diagnostic tools, Telematics and Cloud Diagnostics, and latest generation components for commercial vehicles.

Workshop 4.0. is distinguished by offering Training services, Vehicle Fix support, Consulting and Support for the installation and reprogramming of components (i-Parts ASSIST).





## JALTEST TELEMATICS AGV

### TELEMATICS, CLOUD DIAGNOSTICS AND MACHINERY MANAGEMENT. A SOLUTION FOR EVERYTHING

From Jaltest Telematics, we develop ad-hoc projects for OEMs and companies of Agricultural sector that require customized solutions adapted to their particular needs.

Our solutions, among other values, allow our customers, through the adapted projects, to:

1. Know the essential information of both the machine and the task executed.
2. Perform diagnosis and measurement reading of machinery remotely in real time.
3. Design, plan and control the agricultural seasons.
4. Perform comprehensive agronomic management of the agro-holding.



#### € COST CONTROL:

It is possible to assess the economic impact that the customer supports, derived from the investment in fuel, raw material, breakdown time, inactivity, etc.

#### ↗ INCREASE IN EFFICIENCY:

Having complete data, directly from the tractor and the implement in real time, makes the solutions of our customers, the ideal tool to detect trends and performance levels, being able to take actions in order to increase the efficiency of the machinery.

#### 📣 COMPREHENSIVE CAMPAIGN PLANNING:

Ad-hoc projects will allow us, among others, to group tasks by seasons according to their activity, with the creation of crop plans with different tasks, machinery, products, plots, beyond the needs that the project explicitly requires.

📄 · Based on other projects, we develop solutions so that the task management can be planned: Control of data generated by the task controller, including performance data, task management and prescription maps.

👤 · Workers control: Management of tasks according to their status (completed, in progress, stopped and planned), thus allowing a better planning and control of the tasks to be performed and the workers.

🏠 · Management of machinery and material: Control of machinery, including complements and materials in order to get a better task management, allowing to associate them to the different tasks and control the availability of each of them at all times.

🗺️ · Management of customers, plots and fields: These projects allow us, among others, to add different customers and associate them with their respective plots or farms, by defining their limits in an interactive map and storing them quickly and easily in future tasks.

#### 🕒 MINIMIZING REPAIR TIMES:

Through our diagnosis cloud solutions, our customers have access to the workshop module. This does not only allow breakdowns to be predicted, but also to solve them quickly thanks to the proactive maintenance. In this way, the workshop is able to make a remote diagnosis of the machinery and, thus, detect the breakdown at the exact moment. In this way, it is possible to efficiently prepare the part or the required repair tool, producing savings in the farm trip and having the machine in optimal conditions for the farm trip.

# OEM. SOLUTIONS by cojali

Cojali is not only a manufacturer for the independent after-market, but also an OEM-level solution provider.

Thanks to a vast experience in the manufacturing of high-quality products, industry-leading and independent multibrand diagnostics and new technologies for fleet management, Cojali is a sure bet to provide solutions for leading vehicle and system manufacturers.

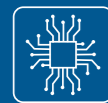
## TAILORED HARDWARE & SOFTWARE SOLUTIONS FOR MANUFACTURERS



DIAGNOSTICS



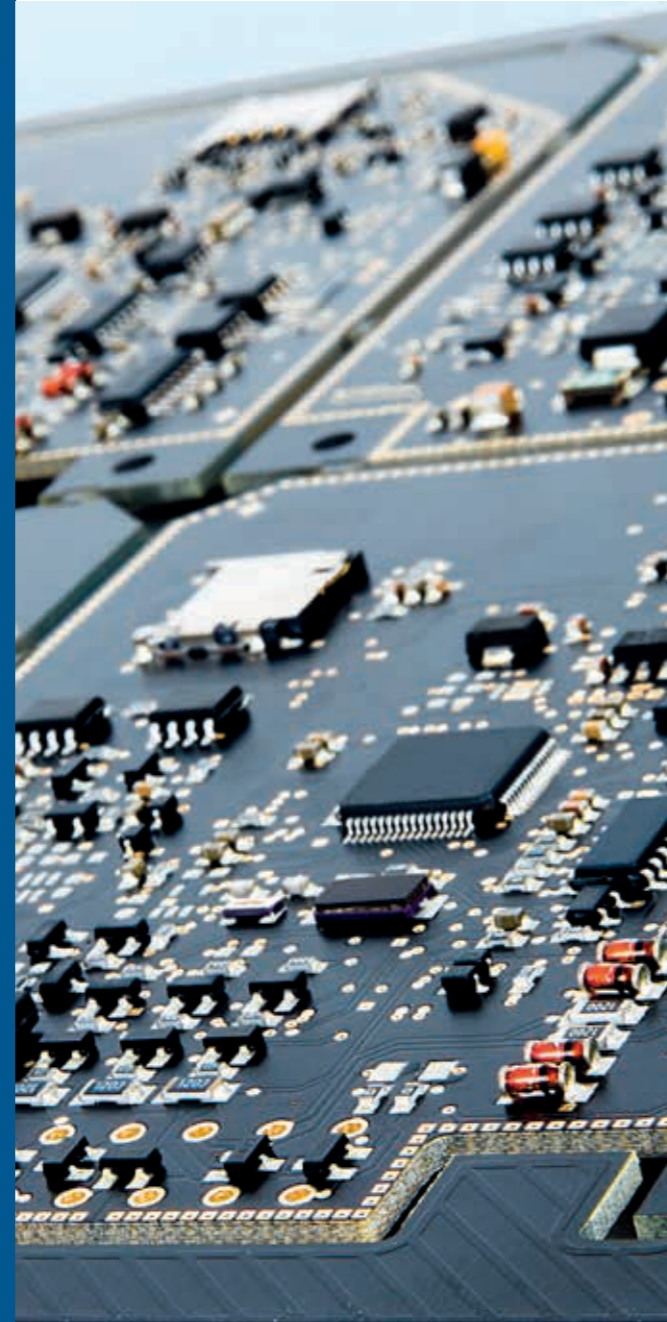
TELEMATICS



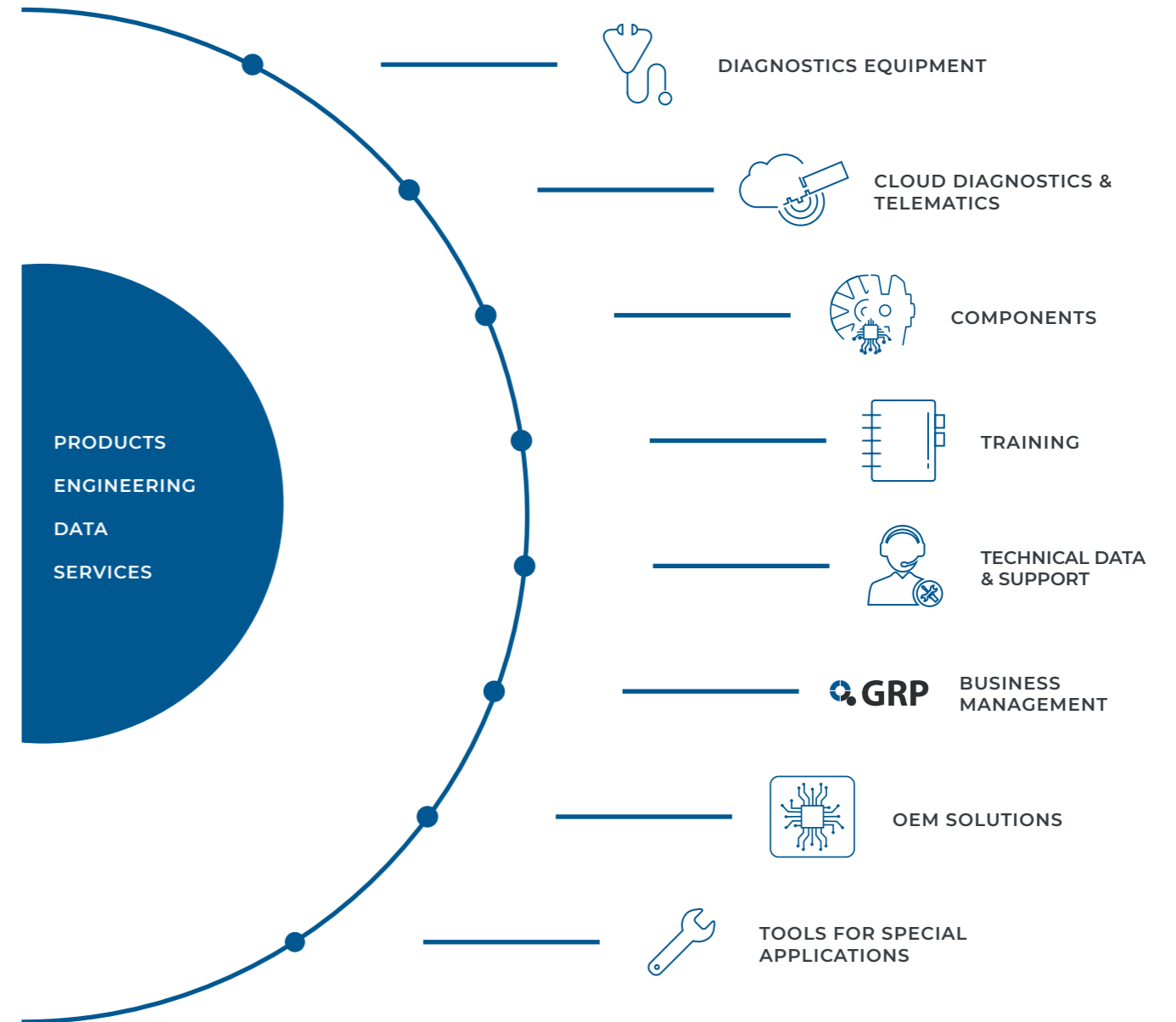
ELECTRONICS



COMPONENTS



## COJALI. WE MEET ALL YOUR BUSINESS NEEDS





#### NORTH AMERICA

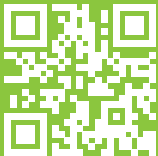
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Local distributor

