



**jaltest**  
**AGV**  
AGRICULTURAL VEHICLES

# INNOVATIONS 21.1

# SOFTWARE INNOVATIONS

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The new software version **Jaltest 21.1** once again offers more improvements and innovations that consolidate this tool as a benchmark in **multibrand diagnosis** for commercial, agricultural and OHW (Off-Highway) vehicles.

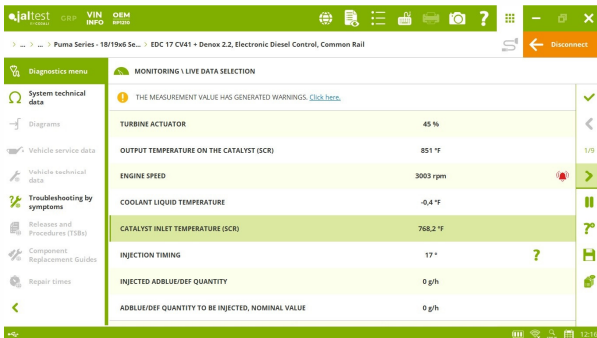
Furthermore, in this version, Jaltest includes the coverage of the **Jaltest Marine** project. Contact your distributor and acquire now the license that also allows you to diagnose vessels and jet skis with the same device and a single software.

Our **Jaltest University** division includes the entire Jaltest training offer, from courses traditionally taught on-site to online courses or webinars. Thus, we have adapted to the new needs for universal and quality training within the reach and at the disposal of any professional in the sector. First courses will be available soon.

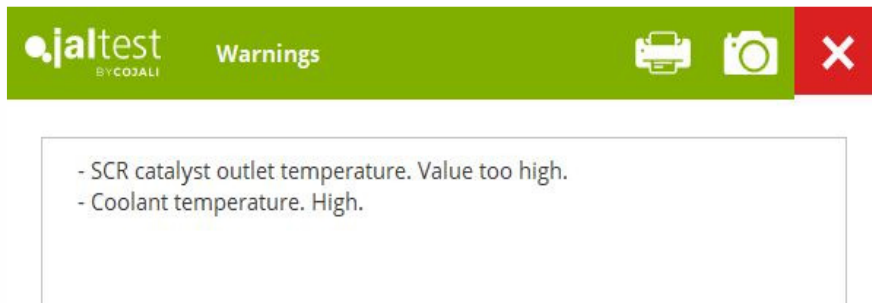


Next, the most relevant software innovations are shown.

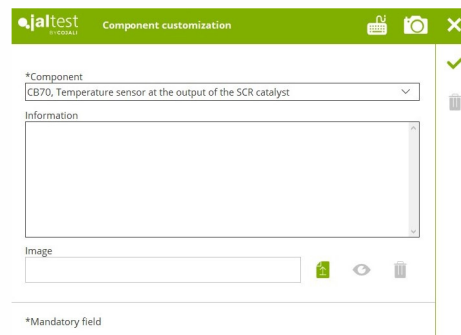
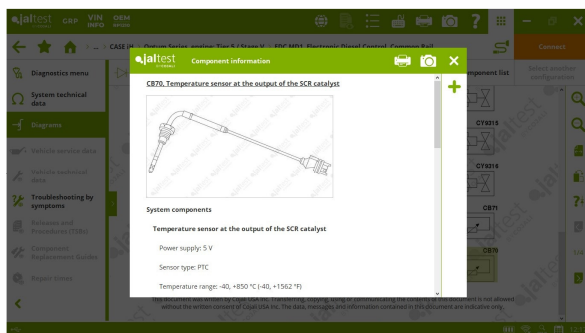
## Measurement warnings



In addition to the different display methods available in Jaltest; the possibility to display measurements in graph format, define measurement triggers (also in measurement groups from this 21.1 version) and have measurement warnings during the display of them, now it is also possible to display a summary of slow-dynamic measurement warnings.



## Customization of component information

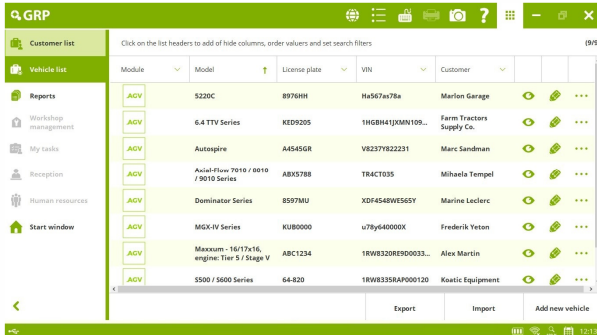


## Others

- Dynamic helps depending on the measurement value in an action.
- Help in the selection of the wiring diagram configuration.
- Fault list order. The present faults are shown first.

# GRP

## Export/Import vehicle list



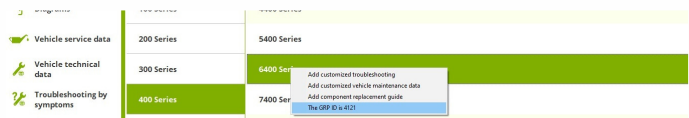
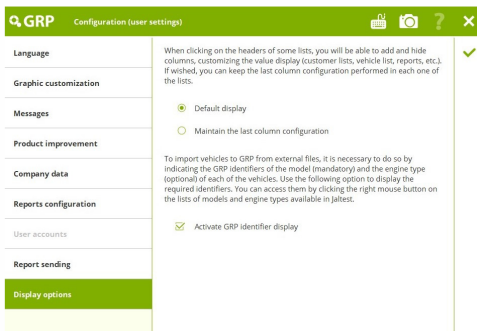
It is possible to export/import the vehicle list through Excel or CSV files quickly and easily. This allows the user to share the vehicles created in Jaltest with others from other platform or ERP of their company, and vice versa.

To import vehicles, an empty template with a defined format or with the data of the vehicles that the list has can be generated. In this way, some data could also be modified. It is important not to modify the header value or column position of the table.

Vehicle Code	Identifier	License Plate	VIN	Number/ Name
1	12554	ABC1234	00568XS75468	Max Mustermann
2	12938	B597RJ	002568J5891	Marion Garage
3	12655	ABXC789	54700968053	Frederik Yeton
4	12580	NH1234	989507RS4768	Pierre McCormick
5	12857	KUB0000	00568XS75472	Marine Leclerc
6	12998	B978RH	7812564P9472	Mihaela Tempel
7	13015	A445GR	00888XS75474	Alex Martin

The “Model identifier” and, optionally, the “Engine type identifier” must also be completed in the template. This operation is important. The model identifier will allow you

to relate the vehicle from the list with a model from Jaltest. This is the only way to enjoy all advantages of being able to create GRP vehicles such as, for example, the advantage of associating diagnostic reports. The identifier is obtained by clicking on the right button of the mouse on model/engine type in Jaltest if it has been configured previously.



## Others

- Possibility of associating several vehicles to a customer at once.
- Improvement in the GRP lists including more columns and filters.
- App customization by user.

The vehicle record, vehicle types, brands, customized measurements, graphic configuration, language, measurement units, etc. will be displayed depending on the user who has registered in the application.

# BRANDS AND MODELS

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In this version the following new brands in agricultural vehicles have been included: **AGCO, BRANSON, GLIOLI, GLEANER, HAGIE, ITALMIX, LUCAS G, MATRIX, PELLENC, ROGATOR, SITREX-AGM, SPRA-COUCPE, TATOMA, TECNOMA, TERRAGATOR, TYM** and **ZOOMLION**. Some of the new models in Jaltest are listed below.

## CASE IH

Farmlift Series [2019-...], engine: Final Tier 4/Stage IV

Optum Series, engine: Tier 5/Stage V

Puma Series - 18/19x6 Semi Power Shift (Armrest), engine: Tier 5/Stage V

Trident Series

Vestrum Series - CVT, engine: Tier 5/Stage V

## CHALLENGER

MT 500E Series, engine: Final Tier 4/Stage IV

TG 845

600B Series, engine: Tier 3/Stage III

8303

## CLAAS

Dominator Series

Avero Series

## FARESIN

Classic Series

HLS Series

Leader PF Series

VPS Series

VPSE Series

## GREGOIRE

GM7.4

GX8.4

G140 SW

## JOHN DEERE

9010 Series  
47XX Series  
5003 E Series

## KRONE

Big X Series, engine: Final Tier 4/Stage IV

## KUBOTA

M5UN Series  
M90 Series  
MGX-IV Series

## MANITOU

MT 6000 Series  
MT 10000 Series  
MTA 8000 Series  
MTA 12000 Series

## MASSEY FERGUSON

500 Series  
4600 Series  
9300 Series

## NEW HOLLAND

T7 Series - 18/19x6 Range Command (Armrest), engine: Tier 5/Stage V  
CR Series (LATAM)  
TS6 Series (Elite), engine: Tier 3/Stage III  
Boomer D Compact

## STEYR

CVT IMPULS Series, engine: Tier 5/Stage V  
Terrus Series - CVT, engine: Tier 5/Stage V  
Profi 4115-6145 -16/17x16, engine: Tier 5/Stage V  
Kompakt Series - Ecotech  
Expert CVT Series, engine: Tier 5/Stage V

# DIAGNOSIS AND SYSTEMS

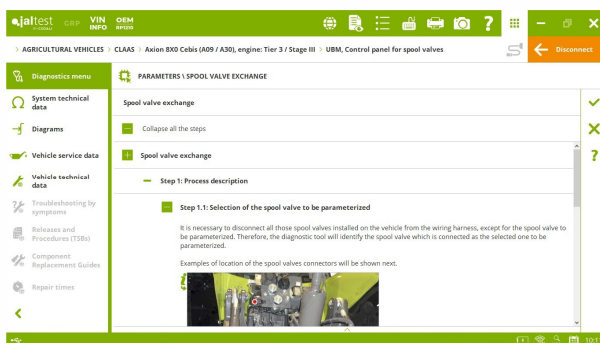
Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

## CASE IH

- ⊕ **EFH** front hitch control system.
- ⊕ **ADIC** instrument cluster.
- ⊕ **EDC** hydraulic lift.
- ⊕ **REHR** spool valves.

**DX/R1** transmission, parameters such as the 1-4 clutch filling time configuration, armrest configuration and the shuttle memory option configuration.

## CLAAS



- ⊕ **GDM** transmission.

Control panel for **UBM** spool valves, configuration parameters of the vehicle and the spool valve number.

## DEUTZ-FAHR

**Power Shift** transmission, clutch pedal calibration.

## FENDT

- ⊕ **EOL** vehicle configuration system for **Tier 2** engines.

New functionalities of the **EOL 7** vehicle configuration system in **FENDT 800** models with **Interim** and **Final Tier 4** engines.

## JOHN DEERE

Inducement mode reset in **ECU Level 23, 32, 33** and **34** systems in John Deere **Interim** and **Final Tier 4** engines.

## KUBOTA

- ⊕ **NAC** GPS automatic driving system.
- ⊕ **SWP, SWBOX** and **DPSC** instrument clusters.
- ⊕ **TECU** tractor ISOBUS control system.
- ⊕ **MAIN** central computer for **MGX** models.
- ⊕ **VCU1** central computer for **M4/M5** and **L1/L2** models.
- ⊕ **CEU** central computer.
- ⊕ **eTCV** trailer braking system.
- ⊕ **SUS** suspension system for **MGX** models.
- ⊕ **FAS** suspension system.

**TCU-PST** transmission, range module calibration.

**VCU2** central computer, automatic control function of the clutch through the brake pedal and control potentiometer calibration of the maximum engine revolutions.

## LANDINI

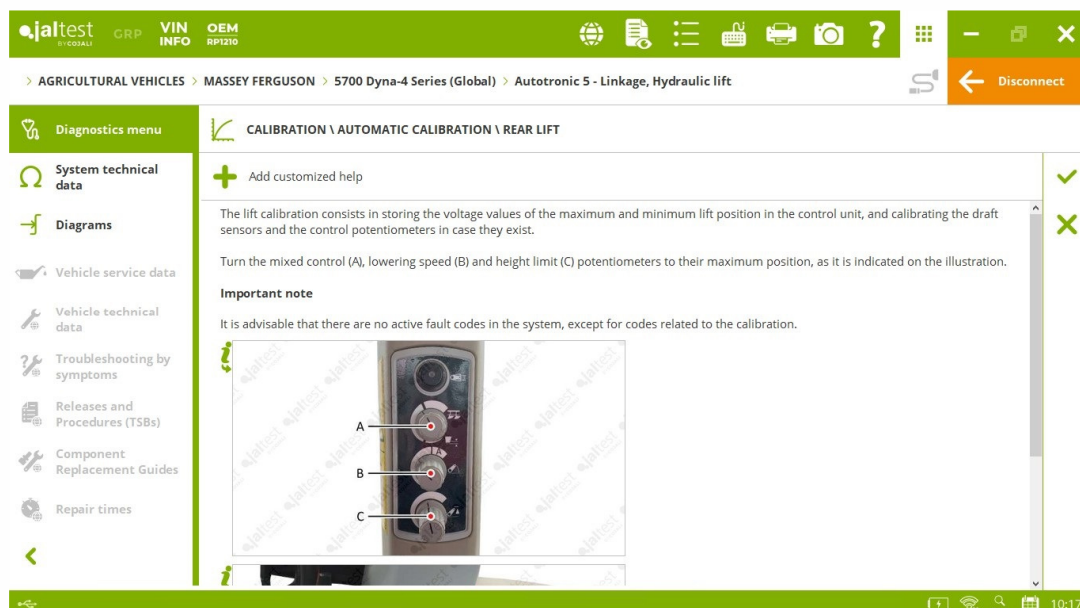
- ⊕ **Rexroth** remote hydraulic controller system.
- ⊕ **ATC** climate control.
- ⊕ **CAT4** cabin module.

## MASSEY FERGUSON

- ⊕ **LLM** electronic stability program and instrument cluster.

**DCC** instrument cluster, parameter modification.

**Autotronic 5 - Linkage** hydraulic lift, rear lift calibration and control potentiometer calibration.





## McCORMICK

**TRANS (Sauer Danfoss)**, transmission, power take-off calibration.

## NEW HOLLAND

- ⊕ **RPTO** rear power take-off.
- ⊕ **EDC** hydraulic lift.
- ⊕ **REHR** spool valves.

**4WD** differential lock, steering angle sensor calibration.

## STEYR

- ⊕ **EFH** front hitch control system.
- ⊕ **ADIC** instrument cluster.
- ⊕ **EDC** hydraulic lift.

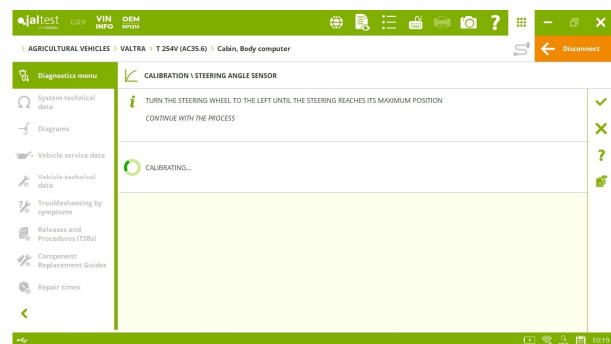
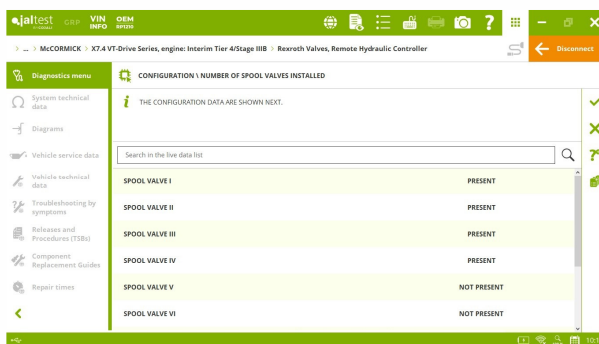
**DX/RI** transmission, parameters such as the 1-4 clutch filling time configuration, armrest configuration and the shuttle memory option configuration.

## VALTRA

- ⊕ **Sonceboz** spool valves.
- ⊕ **Cabin** central computer.

**ICL** instrument cluster, parameter modification.

**EHR** hydraulic lift, rear lift calibration and control potentiometer calibration.



# ENGINE CONTROL SYSTEM AND EXHAUST GAS AFTERTREATMENT SYSTEM

## CATERPILLAR

Models with **C-13** and **C-15** engines communicating on SAE J1939, exchange and injector coding functionalities.

Models with **C-4.4/C-6.6** engines, EGR valve activation, inlet and outlet valve check, etc.

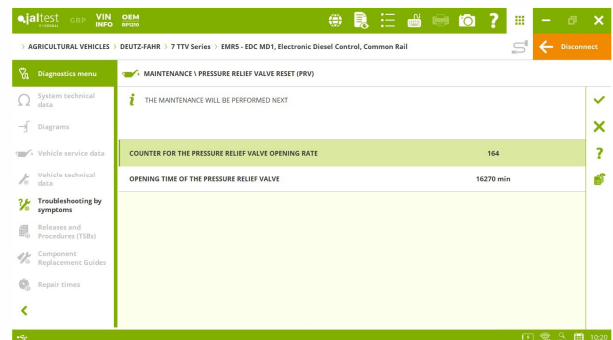
Models with **C-9.3** engine, fuel system check.

**SCR/DEF** exhaust gas aftertreatment system, AdBlue/DEF system heater check.

## DEUTZ

**EMR4 - EDC 17 CV52** engine control system, AdBlue/DEF fluid quality test and End-Of-Line test, maintenances such as the reset of the ZFL correction values of the injectors and thermal conditioning/desulfurization procedure.

**EMR5 - EDC MD1** engine control system, PRV pressure relief valve reset.



## IVECO-FPT

CASE iH, NEW HOLLAND, STEYR, etc. brands.

**EDC MD1** engine control system, SCR catalytic converter regeneration.

**EDC 17 CV41 + Denox 2.2** engine control system, replacement of the AdBlue/DEF metering valve, the SCR catalytic converter, and the NOx sensors before and after the SCR catalytic converter.

**EDC 7 UC31** engine control system, startup counter reset.

## MAN

**EDC 17 CV52** engine control system.

## PERKINS

ISEKI, LANDINI, LINDNER, URSUS, WEIDERMANN, etc. brands.

**404D/404E** engine control system, EGR system reset.

**1204E/1206E** and **1204F/1206F** engine control system, EGR valve activation, inlet and outlet valve check, etc.

## SISU / AGCO Power

CHALLENGER, DEUTZ-FAHR, FENDT, JCB, LAVERDA, VALTRA, etc. brands.

**EEM4S5-MD1** engine control system, system data, activations, checks and injector coding.

## YANMAR

**EDC Bosch** engine control system for Yanmar engines, operation data such as the engine load profile, activations, checks and parameters.

## VM

**SCR/DEF** exhaust gas treatment system, cooling control valve activation and the AdBlue/DEF system heater activation.

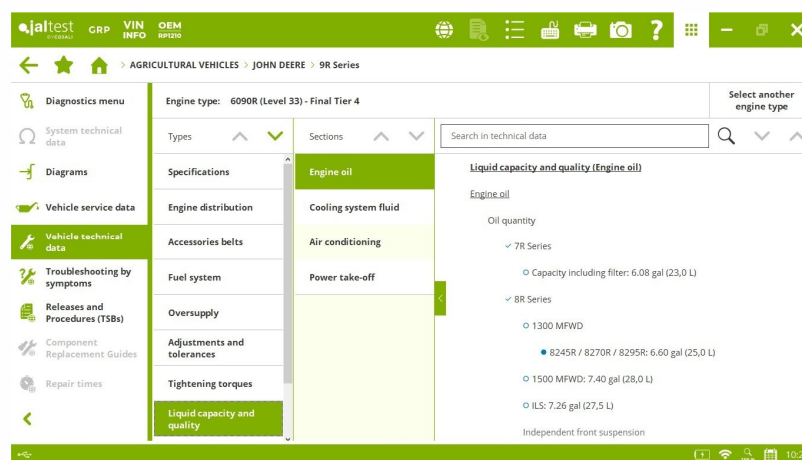
The screenshot shows the 'PARAMETERS \ INJECTOR CODING \ MODIFY PARAMETERS' screen. It features a left-hand navigation menu with options like 'System technical data', 'Diagrams', and 'Vehicle service data'. The main area contains a table for configuring injector codes for four cylinders. A message at the top prompts the user to 'INTRODUCE THE NEW VALUE OF THE CONFIGURATION PARAMETER'.

Parameter Name	Current Value	Input Field	Action
INJECTOR CODE, CYLINDER 1	B1HNOXACAA	<input type="text" value="B1HNOXACAA"/>	✓
INJECTOR CODE, CYLINDER 2	8IAMMFAAIA	<input type="text" value="8IAMMFAAIA"/>	✗
INJECTOR CODE, CYLINDER 3	5IAKMF81A	<input type="text" value="5IAKMF81A"/>	?
INJECTOR CODE, CYLINDER 4	81H2VFABAA	<input type="text" value="81H2VFABAA"/>	📄

# TECHNICAL INFORMATION

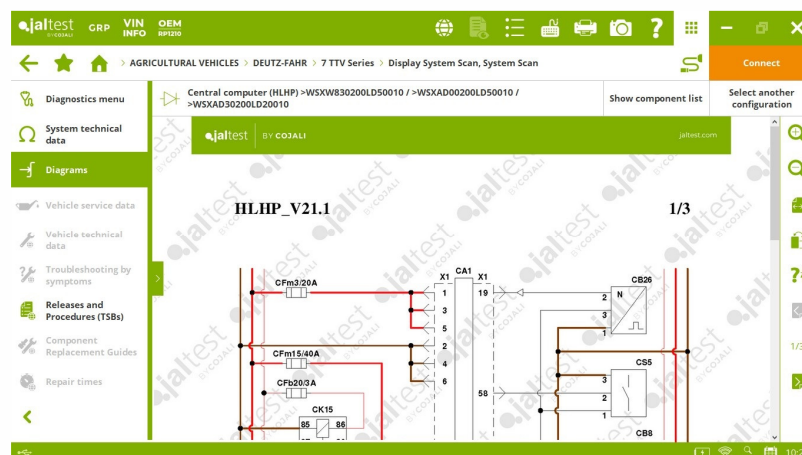
## Technical and maintenance data of the vehicle

Engine technical data in **CASE IH, CLAAS, DEUTZ-FAHR, FENDT, HÜRLIMANN, JOHN DEERE, KUBOTA, LAMBORGHINI, NEW HOLLAND, SAME, STEYR** and **STORTI**.



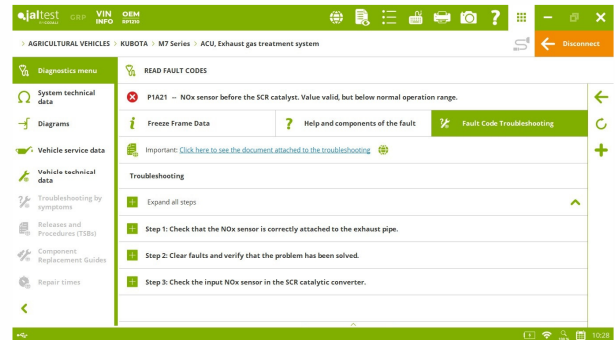
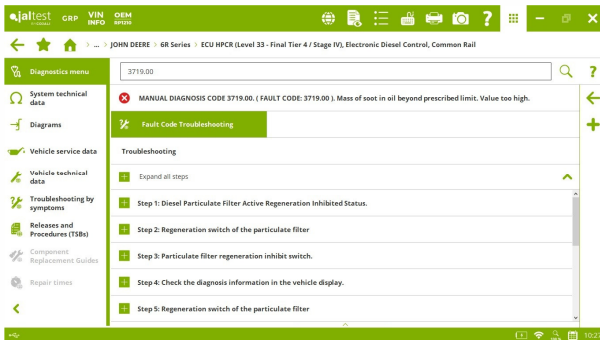
## Wiring diagrams and technical information

Wiring diagrams and technical information updated on systems of brands such as **CASE IH, DEUTZ-FAHR, FARESIN, FENDT, HÜRLIMAN, JOHN DEERE, KUBOTA, LAMBORGHINI, LANDINI, MASSEY FERGUSON, McCORMICK, NEW HOLLAND, SAME, STEYR** and **VALTRA**.



# Troubleshooting guides and procedures

Troubleshooting guides and procedures in **CLAAS, HAGIE, JOHN DEERE, KUBOTA, KUHN, MANITOU, MAZZOTI, MTS-SANDEI, PELLENC, SITREX-AGM, etc.**



# System Display

System Display in the most important systems of numerous brands.

