



*Let's keep  
in touch*

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reach! Find us on*



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# ALIAUTO

## TEST BENCHES & DATA ACQUISITIONS

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We have delivered a large number of test benches to international manufacturers.

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 **ALIAUTO**

*equipped with*  
 **NEXTERBOX**  
Innovative Link



”  
IMAGINE THERE ARE NO LIMITS...  
*What is your dream?*

## WELCOME TO ALIAUTO, TEST BENCHES AND INNOVATIVE TESTING SOLUTIONS IN HYDRAULICS

### OVERVIEW

We are a dynamic company at the forefront in the **design and manufacturing of functional test benches and high-tech hydraulic systems**. We design and supply high added-value functional and hydraulic testing systems, based on our customers' needs. Clarity, effectiveness, planning and control of processes are fundamental qualities of our way of working. We always search for growth opportunity for us and our customers in every experience we make. We firmly believe that this is what we must do in order to make Aliauto a benchmark in testing.

### OUR MISSION

Our goal is to improve the quality of our products on the market and encourage the dissemination of the culture of testing by providing test benches. Using top quality industrial test benches, our main mission is to stimulate the market with durable and safe products.

### OUR VISION

We offer tailored test benches to meet our customers needs and provide them with high-tech features, quality content, precision, and reliability, by relying on our skills and experience acquired with the activity and the inextinguishable drive for improvement.

### OUR STRATEGY

A clear and precise vision guided our creation: to become one of the leading companies in the assembly of industrial test benches on an international scale. Our business strategy is based on **three main pebbles; innovation, development and internationalisation**.

*Let's Get Started* →

## OUR STORY

### 2010

Aliauto was founded in Modena, under the name of *Oilsolution*. Originally operating in the marketing of components and in the design of hydraulic system. Within a few years, the company was specialising in the **Design of Test Benches**.

### 2011-2018

In 2011 Aliauto started making part of the Spanish Multinational Group Almacen de Industria y Automacion (ALIAUTO SA), becoming the Aliauto Italian branch.

### 2015

Aliauto created its own system named Nexterbox, a communication and management network installed inside Aliauto's test benches.



### 2018-2022

After having acquired important shares of the Italian Market, Aliauto expended and began to make itself know internationally.

### 2019

Aliauto outsets a new market approach, revolutionizing its commercial strategy also by carrying out a rebranding.

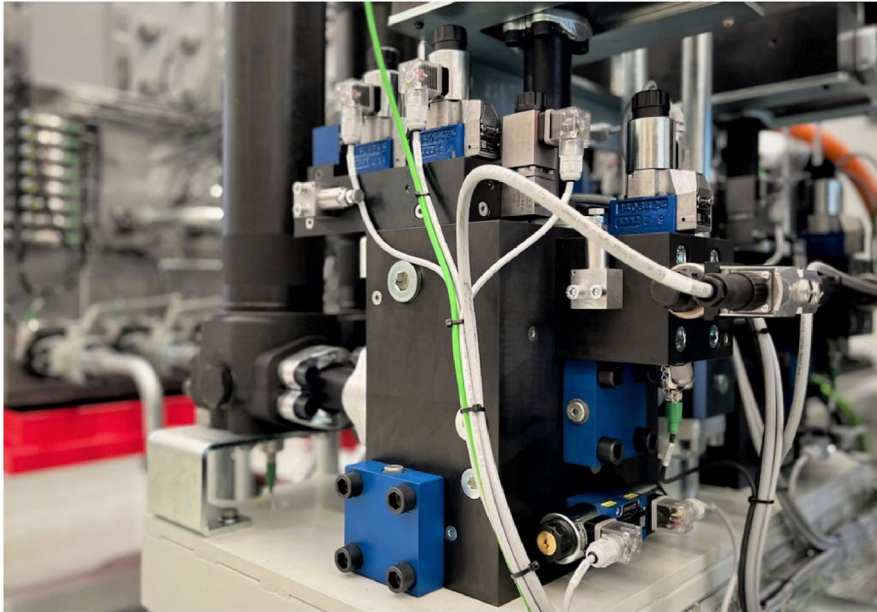
### 2023

Aliauto enters the Chinese market by making a deal with an important Chinese system integrator. Thanks to this collaboration, Aliauto has become a significant player in the international market for the design and manufacture of industrial test benches.

*Let's build your test stand!*

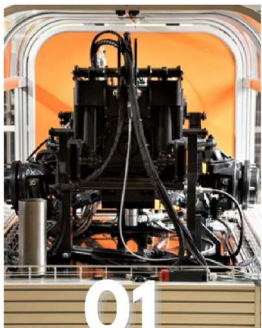
*... stay tuned for 2024*





## OUR SOLUTIONS

We design and produce functional test benches, test rigs, production lines, test rooms for research and development which allow to test, assemble and develop the hydraulic units used in the main industrial sectors: transmissions, automotive and operating machines. Thanks to a careful control in the manufacturing processes and to the use of high quality components, we guarantee maximum reliability, precision and durability. Our high technology test stands and test rooms are able to carry out testing procedures, prototype innovation, endurance, production, end-of-line and validation of the product to be tested efficiently and reliably, providing customized solutions. Our test benches are fully customizable and studied and designed after a careful evaluation of customers' needs. That is why each bench is unique.



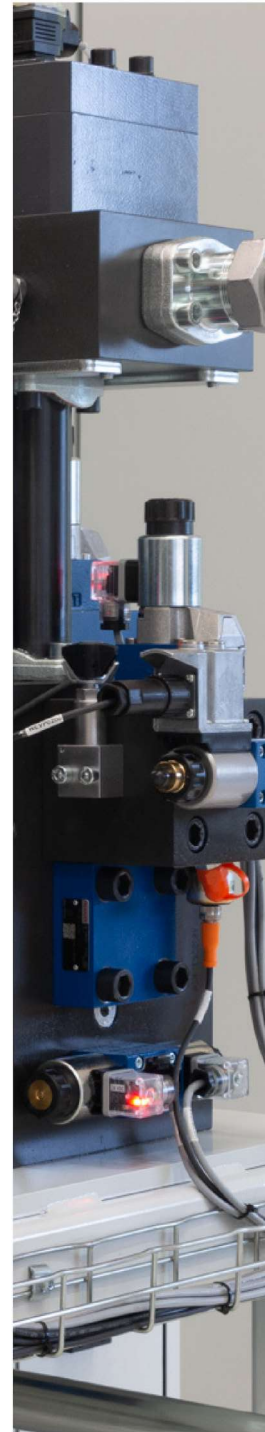
**01**  
TESTING  
MACHINES



**02**  
AUXILIARY  
EQUIPMENT



**03**  
CONTROL  
SYSTEMS










## OUR THREE STEPS

### DESIGN

Aliauto has been operating for years in the field of mechanical design, development of special automatic and semiautomatic machines, production and assembly lines and industrial plants. Aliauto's technical staff is very experienced and able to provide solutions to the most demanding requests. The wide range of services proposed is always at the forefront and in line with the current market.

Our services:

-  Study of production processes
-  Layout of industrial plants
-  Design of production lines
-  Study of project aims
-  Feasibility analysis
-  Design of self-propelled machines
-  Prototypes manufacturing
-  2D and 3D design
-  Project coordination
-  Process certification
-  EC certification
-  Documents and manuals

### ENGINEERING

We offer our expertise in hydraulics to our customers. We design and supply high added-value functional and hydraulic testing systems, based on our customers' needs. Haven't seen yet the test stand you're looking for? Just because it doesn't exist doesn't mean it's not possible. We are well versed in realizing the most innovative and demanding individual concepts. *Aliauto makes It Possible!*

### MANUFACTURE

Aliauto carefully and directly takes care of the assembly of each of its Test Benches and Equipments, guaranteeing the highest quality standards, while ensuring at the same time an unparalleled attention to all details, all this allows us to combine in each machine built by us very high performance, safety and ease of use. All the Test Benches and Equipments designed and produced by Aliauto are subjected to a complete functional test before delivery in the presence of the customer. Aliauto considers training to be very important, for both practical and safety reasons as the customer must be familiar with our machines from day one; a training course is always provided during the installation of the machine, supporting and training the customer in its use from the first moment.

## HOW WE WORK

### 01 STUDY

Thanks to many years of experience in the field of testing, our expert team can assist the customer in defining technical requirements as well as coordinate, when necessary, the development of a technical specification.

### 02 OFFER

According to the customers' needs and specifications, Aliauto analyses the request and develops a technical-economic proposal. A standard test bench or a customized solution can be provided as part of the offer.

### 03 DESIGN

Each part of our test bench is designed in detail by our technical departments, including hydraulics, mechanicals, pneumatics, electrical systems, as well as software.

### 04 BUILD

All systems and equipment are assembled by our highly specialized team. As a final stage of the Aliauto production cycle, a detailed testing phase is conducted to ensure the feasibility and operation of the specifications to the project.

### 05 TESTING

During the testing phase for acceptance, the customer is invited to attend: the pivotal stage for obtaining approval for shipping. During testing, the visiting customer's staff are adequately trained on the use and maintenance of the machine.

### 06 INSTALL

The majority of our machines are "plug & play" and don't require staff presence for installation, making start-up very simple and fast. When needed, Aliauto's technical staff can perform installation, reboot, and training activities at the customer's facility.

### 07 NEEDS

Technical staff from Aliauto can install, reboot, and train customers when needed. Additionally, Aliauto provides on-site and remote training services, which can be tailored to the customer's needs, as part of the testing phase at our sites.

### 08 SERVICE

In addition to our warranty program, our after-sales department provides support to customers both during and after the warranty period. In order to resolve any new issue, a team of experts is available to provide the best support.



## 7 REASONS TO BUILD YOUR TEST STAND WITH US

### 01 PHILOSOPHY

Our solutions are always oriented to customer needs.

### 02 EXPERIENCE

Our experience and passion are always at the service of our solutions.

### 03 QUALITY

Our attention to detail is at the core of our solutions.

### 04 CREATIVITY

Our originality is the soul of our solutions.

### 05 INNOVATION

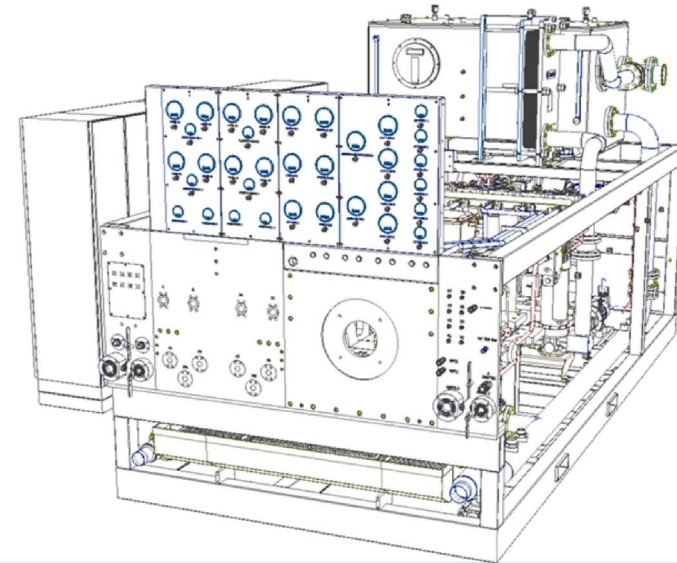
Our curiosity is always the heart for our cutting-edge solutions.

### 06 MADE IN ITALY

...Italy is not only good food and good wine.

### 07 TRUST

Aliauto's culture is based on long-term thinking and relationships based on authenticity.



# OUR TEST BENCHES

## WHAT WE TEST?

Aliauto designs test benches to perform different types of tests on a wide range of hydraulic components. We are experienced suppliers of end-of-line testing systems and machines dedicated to endurance and laboratory tests. We satisfy the most demanding requirements by creating test benches for hydraulics capable of handling very high powers, equipped with energy recovery systems or components that require communication via field bus, such as CANbus.



**GEAR PUMPS & MOTORS**



**PISTON PUMPS & MOTORS**



**VANE PUMPS & MOTORS**



**ORBITAL MOTORS**



**WHEEL MOTORS**



**HYDROSTATIC TRANSMISSIONS**



**CYLINDERS STANDARD & ISO**



**SERVO / CETOP VALVES**



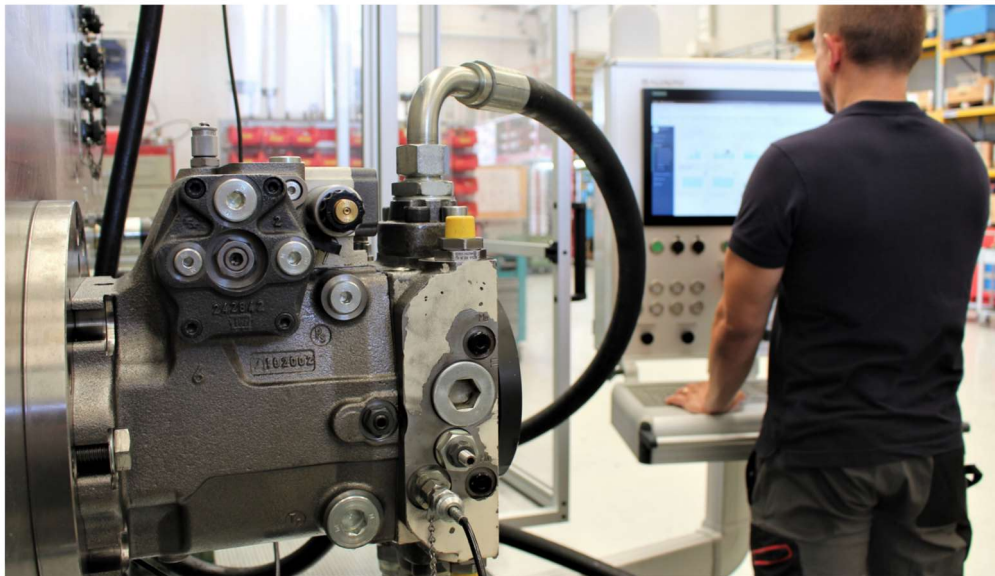
**HYDRAULIC DISTRIBUTORS**



**HYDRAULIC MANIFOLDS**

*All test benches and systems produced by Aliauto are equipped with*

**NEXTERBOX**



# NEXTERBOX

NEW

The NEXTERBOX system is a communication and management network installed inside Aliauto's Test Benches. It is composed by a motherboard with communication card (Ethernet, Can Bus, RS485 and USB). The system can manage until eight expansion modules and encoder cards. NEXTERBOX can manage or generate the following signals: 0-32V / + - 10V / 0-20 mA / IO-link. The system has a customizable web user interface, easy and intuitive to use. That can manage multiple accesses at multiple levels through operator identification.

## NEXTERBOX

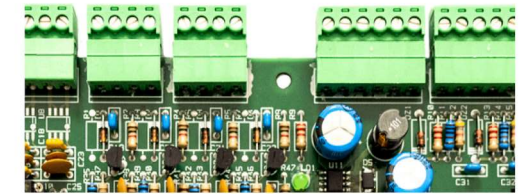
All test benches and systems produced by Aliauto are equipped with NEXTERBOX. NEXTERBOX a brand of Aliauto Italia S.r.l. © 2021

*Innovative Link*

### CONNECTIVITY



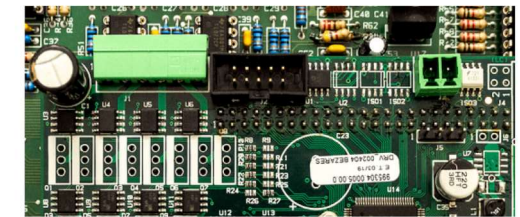
Thanks to the use of a web interface, NEXTERBOX allows simultaneous access by multiple users, always with different devices. The system also can manage different levels of use based on different levels of authorizations, always tracked and recorded.



### APPLICATION



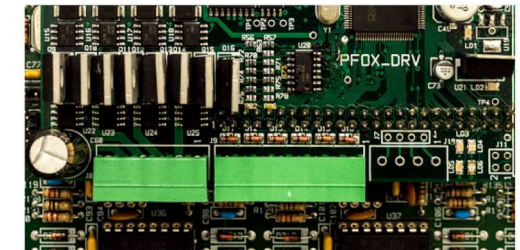
The main application of the NEXTERBOX system is on Aliauto's test benches: for service, end line for products validation and endurance. However, its installation is possible in any machine with automation and monitoring managed by plc and dedicated software.



### SOFTWARE



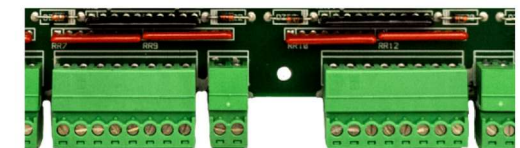
The software is designed for the application on Test Benches and Automatic Machines. Its main features are: ease of use, its possibility of customization and its flexibility, based on the needs of the machines on which it is installed.



### HARDWARE



The hardware of NEXTERBOX is designed and developed by Aliauto. It can be considered as the heart of the whole NEXTERBOX system. Making this system incomparable, in its kind, for flexibility and possibility of use.



# OUR PORTFOLIO

## PISTON PUMPS & MOTORS



**37 KW**

Single stage LH/RH 0-2800 RPM

**SERIE:** TOTAL

**WORK PRESSION:** 420 BAR

**MAX FLOW:** 250 L/MIN



**55 KW**

Single stage LH/RH 0-2800 RPM

**SERIE:** SMART

**WORK PRESSION:** 420 BAR

**MAX FLOW:** 250 L/MIN



**90 KW**

Double stage LH/RH 0-2800 RPM

**SERIE:** SMART

**WORK PRESSION:** 450 BAR

**MAX FLOW:** 250 L/MIN



**120 KW**

Double stage LH/RH 0-2800 RPM

**SERIE:** TOTAL

**WORK PRESSION:** 420 BAR

**MAX FLOW:** 250 L/MIN



**132 KW**

Double stage LH/RH 0-2800 RPM

**SERIE:** SMART

**WORK PRESSION:** 450 BAR

**MAX FLOW:** 250 L/MIN



**160 KW**

Double stage LH/RH 0-2800 RPM

**SERIE:** TOTAL

**WORK PRESSION:** 420 BAR

**MAX FLOW:** 600 L/MIN



**200 KW**

Triple stage LH/RH 0-2800 RPM

**SERIE:** TOTAL

**WORK PRESSION:** 450 BAR

**MAX FLOW:** 600 L/MIN



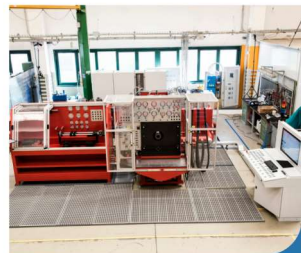
**250 KW**

Triple stage LH/RH 0-2800 RPM

**SERIE:** TOTAL

**WORK PRESSION:** 450 BAR

**MAX FLOW:** 700 L/MIN



**355 KW**

Quadruple stage LH/RH 0-2800 RPM

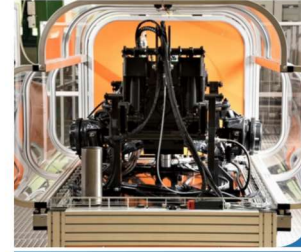
**SERIE:** TOTAL

**WORK PRESSION:** 450 BAR

**MAX FLOW:** 1500 L/MIN

# OUR PORTFOLIO

## OTHER HYDRAULIC COMPONENTS



**TRANSMISSIONS**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 420 BAR

**POWER:** 37 KW



**CYLINDERS STD**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 1000 BAR

**POWER:** 37 KW



**CYLINDERS ISO**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 700 BAR

**POWER:** 37 KW



**VALVES**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 420 BAR

**POWER:** 15 KW



**GEAR PUMPS**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 280 BAR

**POWER:** 55 KW



**DISTRIBUTORS**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 420 BAR

**POWER:** 75 KW



**MINI POWER PACKS**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 280 BAR

**POWER:** 22 KW



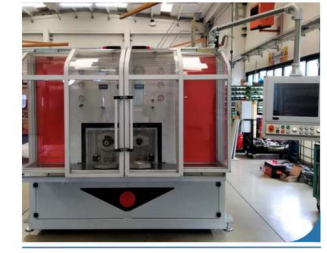
**VANE PUMPS/MOTORS**

Automatic Test Bench

**SERIE:** AUTOMATIC

**WORK PRESSION:** 420 BAR

**POWER:** 160 KW



**ORBITAL MOTORS**

Automatic Test Bench

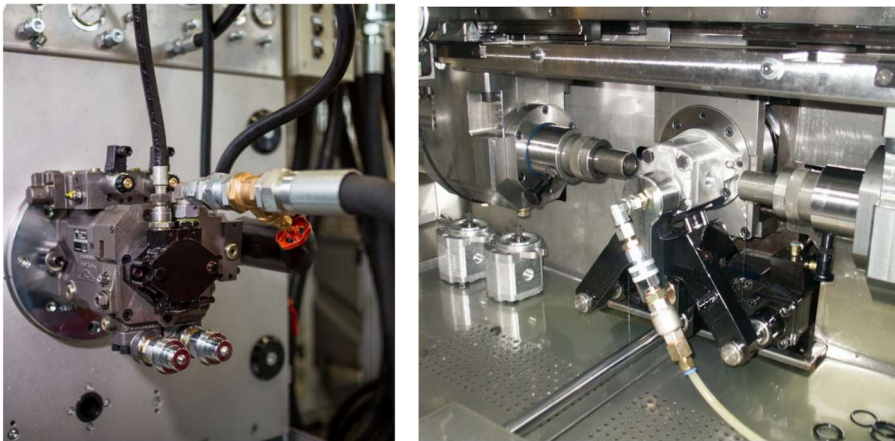
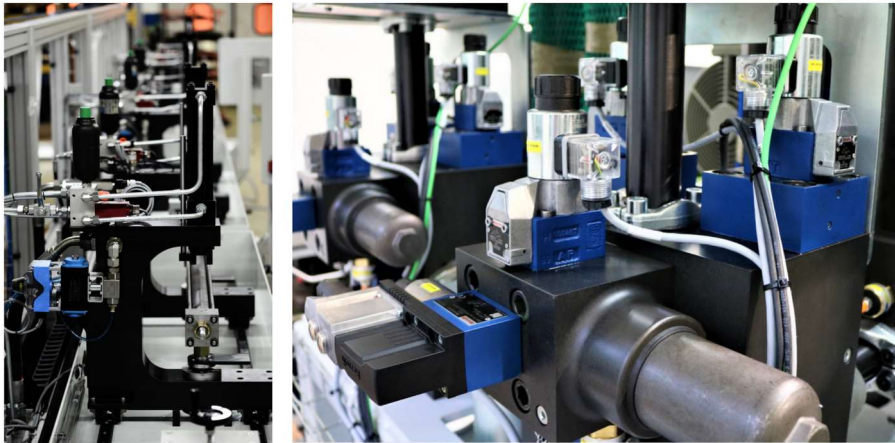
**SERIE:** AUTOMATIC

**WORK PRESSION:** 550 BAR

**POWER:** 37 KW

# OUR DETAILS

With our test benches for hydraulic pumps and motors it is possible to test different components. Since 2010 we have delivered a large number of test benches for hydraulic pumps and motors intended for numerous international manufacturers.



# OUR SUCCESS CASES

We are able to manufacture totally functional single or double station test rigs that can test up to four stage pumps simultaneously. Moreover, they can be integrated with our total test system which can control valves, steerings, valve blocks and hydraulic cylinders.

