



## ABOUT MAKTEST

Maktest, founded in 1981, has 42 years of experience and more than 5,000 working test benches worldwide. The production facility, located in Izmir, Turkey, manufactures benches and equipment capable of testing:

### **Mechanical, Common Rail,**

**EUI, HEUI and Universal & Common Rail** Pump and injectors for diesel engines used in a variety of applications including land vehicles, marine vessels and stationary locations.

**Delivery Lead Time:** 4-6 Weeks

**Offer Validity:** 4 Weeks

**Payment Terms:**

50% on order and 50% before shipping.

100% in advance (stock products are delivered immediately)

**Terms of Shipment:** Ex-works

In cases where transport is requested, a quotation will be provided. Loading for transport costs confirmed in the proforma invoice is covered by Maktest.



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# Catalog of Products

İZMİR KEMALPAŞA ORGANİZE MAH. 522 SOK. No:8 P.K: 35730 İZMİR - TÜRKİYE

sales@maktest.com.tr

+ 90 544 349 40 20



## CR Testing

### COMMON RAIL INJECTOR TEST BENCH TK1026

[Download Brochure](#)



The TK1026.04, the fourth version of the TK1026 family, goes beyond a standard test bench with its cutting-edge electronic drive system and numerous upgraded features. Designed to meet the latest demands in injector testing, TK1026.04 offers users enhanced control and versatility.

**Machine Dimensions**  
Width: 930 mm Depth: 650 mm  
Height: 1690 mm Weight: 270 kg

**Packing Dimensions:**  
Width: 1090 mm Depth: 860 mm  
Height: 1890 mm Weight: 360kg

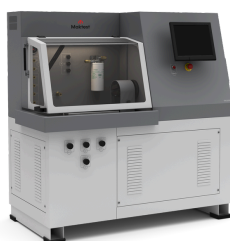
**Packaging:**  
Wooden Box / Not Stackable  
USA: Our packaging is made from sterilizable wood. Our pallets are metal. It doesn't attract insects because it's made of plywood.

Shipping cost is not included in the price.

## CR Testing

### COMMON RAIL PUMP TEST BENCH TK1035

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With each new generation of common rail systems, testing CR pumps becomes increasingly challenging. The TK1035 is engineered to test all types of CR pumps, including Denso HPO and Bosch CP2 models, offering advanced features like temperature control and fuel metering. It meets the latest requirements for precise pressure control, accurate fuel metering, and exact speed control needed for next-generation CR pump testing.

**Machine Dimensions:**  
Width: 1580 mm Depth: 840 mm  
Height: 1570 mm Weight: 670 kg

**Packing Dimensions:**  
Width: 1880 mm Depth: 1000 mm  
Height: 1770 mm Weight: 800 kg

**Packaging:**  
Wooden Box / Not Stackable  
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## HEUI Testing

### HYDRAULIC ELECTRONIC INJECTOR TESTER TK2024

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The TK2024's new design provides a faster, more efficient approach to injector testing with a hydraulic system capable of delivering 300 Bar test oil pressure at up to 4 L/min. With automatic high-pressure settings and new control applications, testing is uninterrupted, requiring no operator presence. Utilizing ISO4113 standard test oil ensures precise HEUI injector testing, while the PD flowmeter's rapid response and 0.3 mm<sup>3</sup> resolution enhance accuracy and repeatability, making the TK2024 one of the most precise test benches available.

**Machine Dimensions**  
Width: 930 mm Depth: 650 mm  
Height: 1690 mm Weight: 270 kg

**Packing Dimensions:**  
Width: 1090 mm Depth: 860 mm  
Height: 1890 mm Weight: 360 kg

**Packaging:**  
Wooden Box / Not Stackable  
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INJECTESTER HEUI EFM (INCL-KO1391 ADAPTOR)

## EUI & EUP Testing

### ELECTRONIC UNIT INJECTOR AND UNIT PUMP TEST BENCH UTS1004

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#### Advanced Test Bench for Electronic Unit Injectors and Pumps

The UTS1004 is the only test equipment specifically designed for precision testing of QSK HPI injectors with advanced timing control. It supports a wide range of applications, including Caterpillar, Cummins, Bosch, Delphi, and Continental injectors. With its patented cam box design and solenoid response time measurement, UTS1004 offers accurate and efficient testing under near-engine conditions. The user-friendly interface and continuously updated software provide a seamless experience for testing and repairing electronic unit injectors and pumps.

**Machine Dimensions**  
Width: 1200 mm Depth: 800 mm  
Height: 1830 mm Weight: 590 kg

**Packing Dimensions:**  
Width: 1390 mm Depth: 1080 mm  
Height: 1970 mm Weight: 700 kg

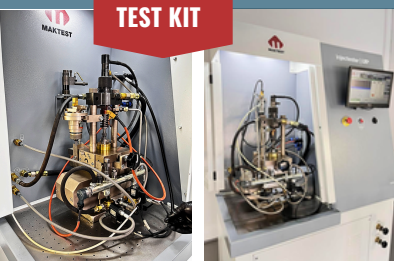
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## DELPHI F2 TEST KIT

### KO2039 / UTS1004

[Download Brochure](#)



Delphi Euro-6 F2e Series Pumping & Non-pumping Injector Test Kit. Ko2039 has a high-pressure rail that can control pressure up to 2200 bar.



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## CR & Mechanical Testing

### MECHANICAL & COMMON RAIL PUMP TEST BENCH PT2012 CRe

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The test bench you need to test both diesel pumps and common rail pumps

Including:  
Caterpillar C4- C6  
Denso HPO  
Bosch CP2  
Bosch CP4  
Cummins

Machine Dimensions:  
Width: 1915 mm Depth: 980 mm  
Height: 1800 mm Weight: 1004 kg

Packing Dimensions:  
Width: 2100 mm Depth: 1140 mm  
Height: 1970 mm Weight: 1154 kg

**Packaging:**  
Wooden Box / Not Stackable  
USA: Our packaging is made from sterilizable wood. Our pallets are metal. It doesn't attract insects because it's made of plywood.

Shipping cost is not included in the price.

## CR Testing & Mechanical

### UNIVERSAL MECHANICAL PUMP TEST BENCH PT2012 B

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Powerful Drive System PT2012 B has a Special design 20 HP AC motor providing high torque at low speed.

The standard flywheel has a moment of inertia of 1.0 kgm<sup>2</sup>.

Machine Dimensions  
Width: 2150 mm Depth: 1080 mm  
Height: 1080 mm Weight: 980 kg

Packing Dimensions:  
Width: 1915 mm Depth: 980 mm  
Height: 1800 mm Weight: 850 kg

**Packaging:**  
Wooden Box / Not Stackable  
USA: Our packaging is made from sterilizable wood. Our pallets are metal. It doesn't attract insects because it's made of plywood.

Shipping cost is not included in the price.

## CR Testing & Mechanical

### INJECTOR CR MANUAL TK1022

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The TK1022 Injectester CR Manual is a versatile, manually operated tester ideal for pre-testing common rail injectors. Capable of testing multiple injector types –including common rail, double-stage (dual spring), and mechanical injectors. The TK1022 provides precise monitoring of opening pressures for both springs in dual-stage injectors via on-screen selection. Designed for efficiency, the TK1026 Injectester further enhances testing by performing return and spray tests before full CR injector diagnostics.

Machine Dimensions:  
Width : 410 mm Depth : 690 mm  
Height : 1450 mm Weight : 65 kg

Packing Dimensions:  
Width : 450 mm Depth : 780 mm  
Height : 1030 mm Weight : 77 kg

**Packaging:**  
Wooden Box / Not Stackable  
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## CR Testing

### HEAVY DUTY COMMON RAIL INJECTOR TEST BENCH TK1029

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The TK1029 Injectester CRH is designed to test high-pressure, high-volume injectors with a measurement capacity of up to 2000 mm<sup>3</sup>/stroke. Equipped with an advanced measurement and cooling system, it efficiently tests heavy-duty injectors used in powerful MTU 4000 and 2000 series engines (12, 16, and 20 cylinders) with L'orange and Bosch injectors. Additionally, the TK1029 is versatile, making it suitable for testing injectors in passenger cars, light commercial vehicles, and trucks.

Machine Dimensions  
Width: 930 mm Depth: 650 mm  
Height: 1690 mm Weight: 270 kg

Packing Dimensions:  
Width: 1090 mm Depth: 860 mm  
Height: 1890 mm Weight: 360kg

**Packaging:**  
Wooden Box / Not Stackable  
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### REPAIR SOLUTIONS

#### COMPUTER-AIDED ASSEMBLY SYSTEM KO4000



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The KO4000 Computer-Aided Assembly System eliminates the trial-and-error process in injector assembly, offering users a fast and accurate assembly experience. With its precision measuring unit and specialized software, it guides the user step-by-step through each action and calculates the required adjustment shim thickness. These features reduce the risk of errors during assembly and enhance reliability in repair processes.

#### Machine Dimensions

Width: 1500 mm Depth: 820 mm  
Height: 1330 mm Weight: 200 kg

#### Packing Dimensions:

Width: 1700 mm Depth: 900 mm  
Height: 1930 mm Weight: 260 kgg

#### Packaging:

Wooden Box / Not Stackable

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### REPAIR SOLUTIONS

#### COMPUTER-AIDED REPAIR SYSTEM A4000



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The A4000 Computer Aided Repair System is designed to streamline injector assembly by eliminating trial-and-error methods. Its precision measuring mechanism operates hands-free, reducing human-related measurement errors.



The system's software guides users through each step of the repair and assembly process, calculating the exact adjustment shim thickness required. This ensures accurate assembly and enhances the reliability of injector repairs.

#### Packing Dimensions:

Width: 800 mm Depth: 620 mm Height:  
1160 mm Weight: 45 kgr

#### Packaging:

Wooden Box / Not Stackable

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Shipping cost is not included in the price.

### REPAIR SOLUTIONS

#### ADJUSTMENT SHIM GROUPING CENTER SM4000



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The shims taken off the injectors usually will not be used in the same injector after some parts are replaced. Those shims you have collected are now easy to group with ranges varying between 2 to 10  $\mu$ .



SM4000 Adjustment Shim Grouping Center is designed for measuring shim thickness and grouping them into containers to use directly in the assembly of the injectors.

The sliding measuring seat allows measuring with precision, at the same time, fast operation.

#### Packing Dimensions:

Width: 800 mm Depth: 620 mm Height:  
1160 mm Weight: 45 kgr

#### Packaging:

Wooden Box / Not Stackable

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Shipping cost is not included in the price.

#### BOSCH-TYPE CONTROL VALVE TESTER KO1815



In the repair of common rail injectors, it is extremely important to ensure that each component, especially the control valve, is in proper condition before assembly. The control valve is one of the parts for which it is nearly impossible to determine acceptability or predict failure during flow testing simply by inspecting the surface condition with magnifiers or advanced cameras.

#### BOSCH TYPE CONTROL VALVE LAPPING UNIT KO1816



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Control valve lapping is a repair method not recommended by OEMs due to complex compensation calculations. The Maktest KO4000 CARS system effectively recalculates all critical dimensions after lapping, reducing the risk of failure in the flow test. The KO1816 Bosch Type Control Valve Lapping Unit provides a practical and efficient repair solution for Bosch control valves.



#### Packing Dimensions:

Width: 340 mm Depth: 280 mm  
Height: 560 mm Weight: 17,2 kg

#### Packaging:

Wooden Box / Not Stackable

USA: Our packaging is made from sterilizable wood. Our pallets are metal. It doesn't attract insects because it's made of plywood.

Shipping cost is not included in the price.