



CATALOGUE

博特恩检测设备(苏州)有限公司

BOTEN TESTING EQUIPMENT (SUZHOU)CO., LTD

CATALOGUE
2024-2025



BOTEN TESTING EQUIPMENT (SUZHOU)CO., LTD

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ABOUT BOTEN



Boten Testing Equipment is dedicated to the R&D, manufacturing and trading of fuel EFI system Testing Equipment. BOTEN was officially established in 2015 and is located in Kunshan, China. Now BOTEN has developed into a high-tech enterprise with core scientific and technological strength and manufacturing capability. Common rail test bench and maintenance tools and other products benefit the industry, service range throughout many users at home and abroad, and strive to be the leader of the fuel system!

Our business credo is "sincere cooperation, mutual benefit and win-win", and it is our eternal goal to become a research and development and production enterprise with excellent products, high quality, reasonable price and good service, and to enter into foreign markets. We are dedicated to providing new and old customers with high quality products and the best technical support, and warmly welcome your visit, business negotiation and sincere cooperation!

COMPANY PROFILE



Technical Expertise

Years of Industry Experience to Give You Better Products



System Advantages

Independently Developed Injector Test Software Provides More Accurate Data



After-Sales Service

Provide Long-term Professional After-sales Technical Support



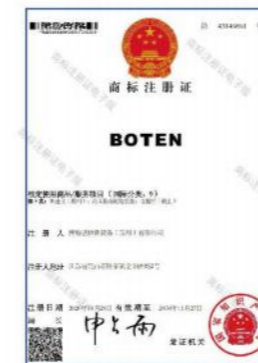
Convenient Transportation

Supporting Various Modes of Transportation Timely Delivery For your Satisfaction

BOTEN HISTORY

- 1997**
Set up a professional oil pump nozzle maintenance station.
- 2003**
Successfully joined the Bosch Diesel Service Station.
- 2008**
Started to develop a common rail injector test bench.
- 2010**
Successfully produced the first self-developed common rail test bench.
- 2015-10**
Boten Testing Equipment (Suzhou) Co., Ltd. was formally established.
- 2016**
There are more than 40 utility model patents and design patents.
- 2016-11**
Officially approved foreign trade import and export qualification.
- 2018**
Boten Testing Equipment has obtained a number of domestic and international testing and certification standards.
- 2020**
Reached cooperation with Cummins (Wuhan) Fuel System Co., Ltd.
- 2023**
The company moved to a new location.

CERTIFICATE



BOTEN CR1016 Multi-Functional Common Rail Test Bench



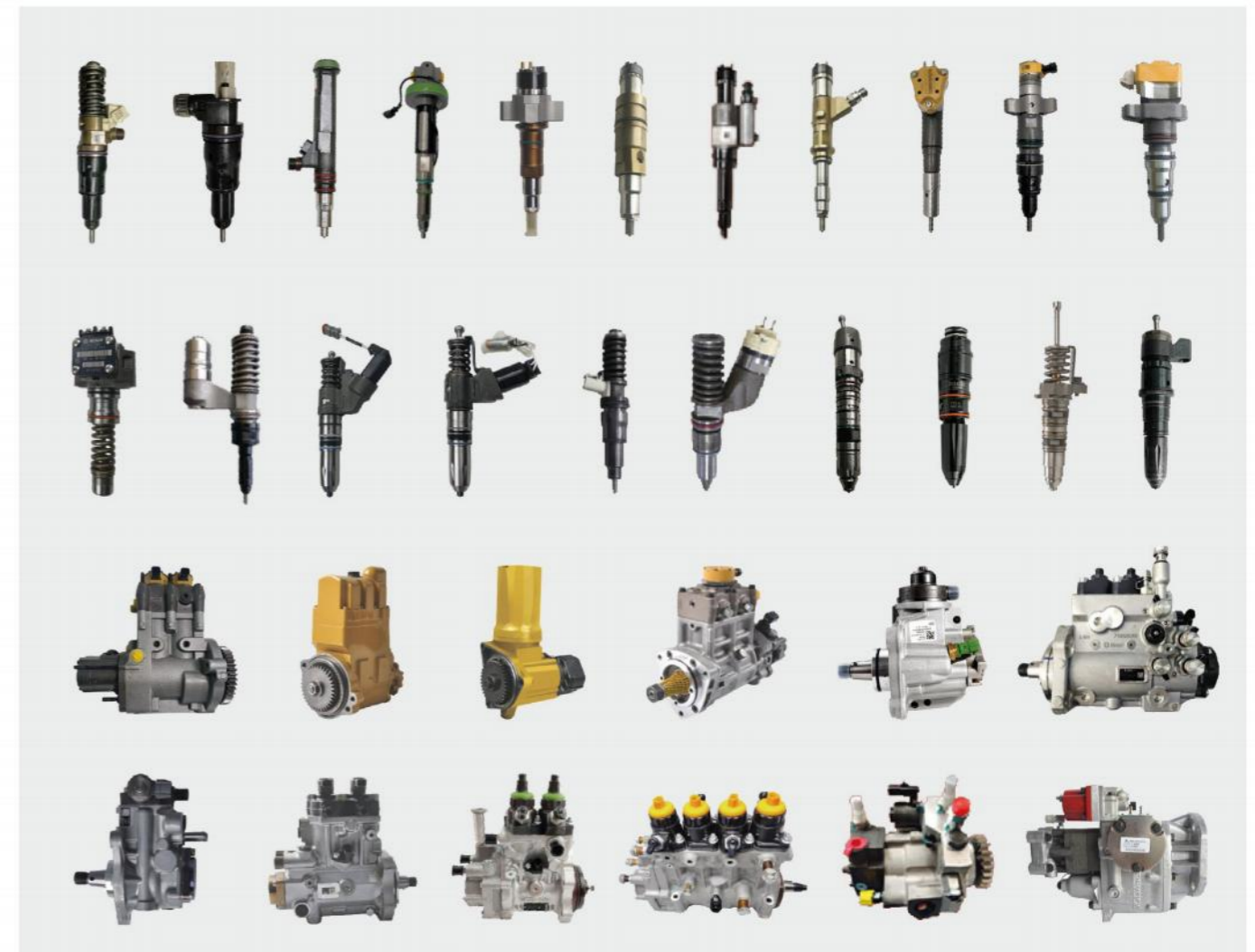
PARAMETER

MODEL	BOTEN CR1016		
COLOR	<input checked="" type="radio"/> RED	<input checked="" type="radio"/> GREEN	
NET DIMENSIONS	1990*1330*1890mm		
GROSS DIMENSIONS	2150*1450*2120mm		
NET WEIGHT	1500KG		
FREQUENCY	50Hz / 60Hz		
MOTOR POWER	<input checked="" type="radio"/> 30KW	<input type="radio"/> 22KW Servo	
VOLTAGE	380V AC		
TANK VOLUME	DIESEL: 35L	OIL: 12L	HEUI:25L
MAX RAIL PRESSURE	2700 Bar		
OIL TEMP CONTROL	40 ± 2°C		
CONTROL CIRCUIT VOLTAGE	DC 12V	DC 24V	
HEATER POWER	380V / 3kw		

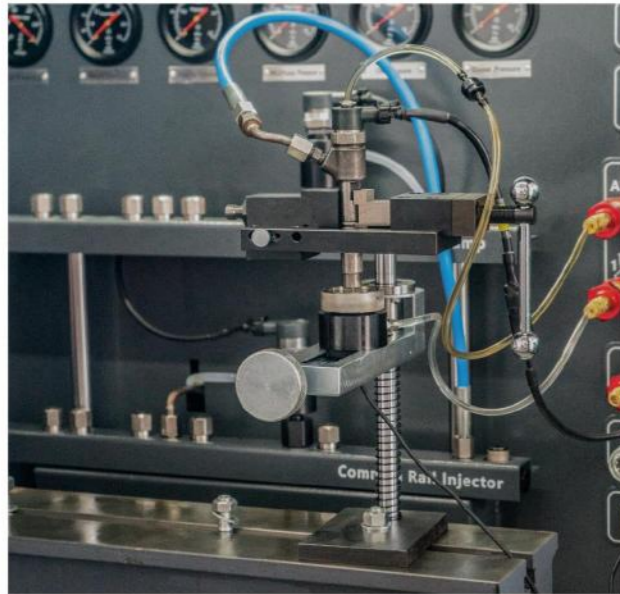
FEATURE

- ◆ BOTEN CR1016 can test CRI, CRP, EUI, EUP, HEUI Injector and Pump, etc.
- ◆ Hidden Pipes and Fast Clamping for HEUI Injector Test
- ◆ Simultaneous Test of Fuel Injection, Fuel Return, and Response Time
- ◆ Automatic Temperature Control System for Test Fluid
- ◆ Built-in 6 Motors and 6 Flow Sensors, Independent Driving System for CRI,EUI&EUP, HEUI
- ◆ AHE Dynamic Armature Stroke Test , MDP Test, NOP Test
- ◆ Coding for Bosch, Denso, Delphi, VDO, Cummins CRI, Fuel Correction Coding for CRI

TEST RANGE



TEST BENCH DETAILS



Common Rail Injector Fixture

Boten universal CR Injector fixture pioneered by Boten is widely applicable to various common injector services.



HEUI Injector Fixture

HEUI injector fixture adopts concealed pipe design, which makes the injector installation convenient and quick.



Cambox for EUI EUP

The optimized Boten Cambox structure provides user a more stable testing experience.



Common Rail Pump Mounts

Boten CR1016 includes some common CR Pump and HEUI mounts, and additional optional kits are available based users needs.

Above for reference only, some specific function will be optional.

REQUIRED CONFIGURATION

■ Cam Box & EUI EUP Adapter | Standard 10 Pcs*



■ HEUI Injector Adapter | Standard 2 Pcs



* Select adapters based on your actual needs

OPTIONAL FUNCTIONS *

BTK-1024

E3 Controller

Applied to:
Delphi E1/E3 Dual-Valve 4-Pin EUI
Bosch CRIN4.2 4-Pin CR Injector
Ford G2.8/G2.9 HEUI Injector
Cummins HPI Series EUI



BTK-1025

HPI Q60 X15 Test Kit

Applied to:
QSX15, QSK19, QSK23, QSK60
And HPI Series EUI
Working with E3 controller



BTK-1026

Cummins PT Fuel Injector Test Kit



BTK-1027

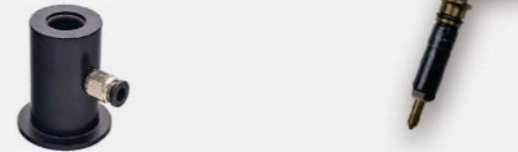
Cummins PT Fuel Pump Test Kit



CR INJECTOR TEST KIT *

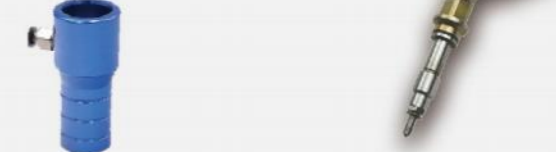
BTK-1016

CAT 320D (C4/C6) Injector Test Adapter



BTK-1017

Cummins XPI (FOTON) Injector Test Adapter



BTK-1018

Cummins XPI (DCEC) Injector Test Adapter



BTK-1019

Bosch CRIN4.2 4-Pin Injector Test Kit



BTK-1020

Delphi F2E 3+3 Injector Test Kit



BTK-1021

CAT C9.3 Injector Test Kit



BTK-1022

Cummins QSK19 Injector Test Kit



BTK-1023

MTU 4000.1/3/4 Injector Test Kit



BTC-0003/0004/0005

Quick Torque Wrench



BTC-0001/0002

Quick Hose Plug M12/M14



*Indicates that the product is optional

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FUEL PUMP TEST KIT *

BTK-1002

Fuel Pump Test Kit
Applied to:
CAT 336E C9.3



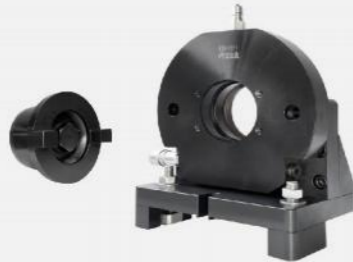
BTK-1003

Fuel Pump Test Kit
Applied to:
Cardinal



BTK-1004

Fuel Pump Test Kit
Applied to:
CB28



BTK-1005

Fuel Pump Test Kit
Applied to:
HP5 HP6



BTK-1006

Fuel Pump Test Kit
Applied to:
HP7 CCR CP5
CP4.2 CP2.2



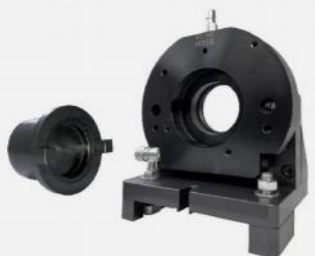
BTK-1009

Fuel Pump Test Kit
Applied to:
QSK19



BTK-1010

Fuel Pump Test Kit
Applied to:
Yangtze



BTK-1014

Fuel Pump Test Kit
Applied to:
Scania



*Indicates that the product is optional

FUEL PUMP TEST KIT *

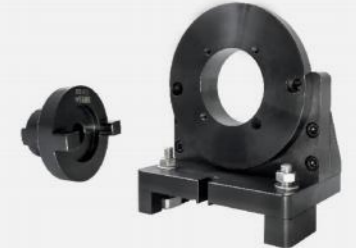
BTK-1015

Fuel Pump Test Kit
Applied to:
CAT 320D



BTK-1007

Fuel Pump Test Kit
Applied to:
Cummins M11



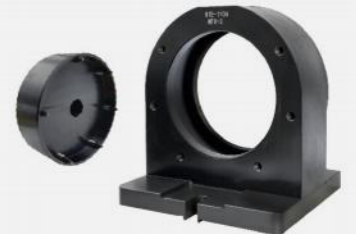
BTK-1008

Fuel Pump Test Kit
Applied to:
MTU-2000



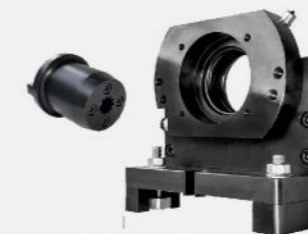
BTK-1011

Fuel Pump Test Kit
Applied to:
MTU-4000



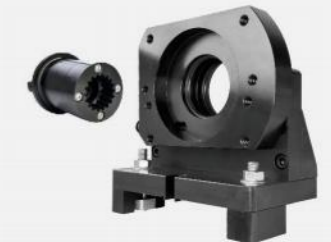
BTK-1012

Fuel Pump Test Kit
Applied to:
Liebherr11.2



BTK-1013

Fuel Pump Test Kit
Applied to:
Liebherr11.5



BTK-1001

Test Kit Flange Seat
Applied to:
Some of the
Fuel Pump Test kit above



BTK-1099

Coupling Removing Tool
Long Type / Short Type



*Indicates that the product is optional

BOTEN CR718 6 - Channel Common Rail Test Bench

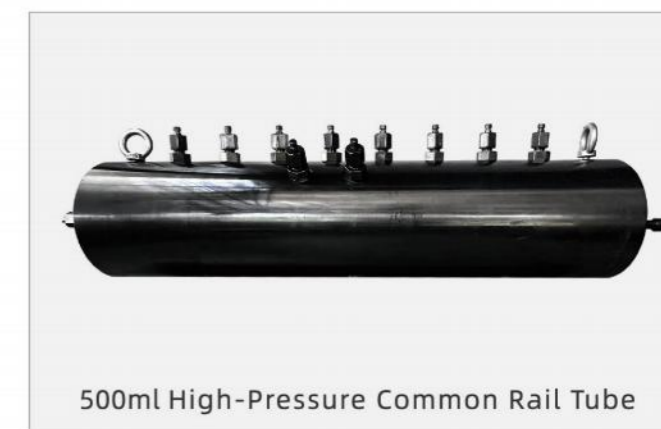


PARAMETER

MODEL	BOTEN CR718
COLOR	● GREEN
NET DIMENSIONS	1600*1190*1710mm
GROSS DIMENSIONS	1700*1290*1810mm
NET WEIGHT	700KG
FREQUENCY	50Hz / 60Hz
MOTOR POWER	5.5kw
VOLTAGE	380V AC
TANK VOLUME	35L
MAX RAIL PRESSURE	2400 Bar
OIL TEMP CONTROL	40 ± 2°C
HEATER POWER	380V / 3kw
NOISE LEVEL	<85dB

FEATURE

- ◆ Built-in 12 Flow Sensors, Quick Clamping of Injectors, 6-Channel Triggered Simultaneously
- ◆ Simultaneous Test of Fuel Injection, Fuel Return, and Response Time
- ◆ Simultaneous Coding of Fuel Correction for 6-Channel Injector
- ◆ Fully Simulate Engine Operating Conditions and Manual Set of Control Curve Parameters
- ◆ Large-Capacity High-Pressure Common Rail Tube, Rapid and Stable Rail Pressure Building
- ◆ Solenoid Valve Resistance and Inductance Test, Piezo Crystal Unit Inductance Test
- ◆ Coding for Bosch, Denso, Delphi, VDO, Cummins CRI, Fuel Correction Coding for CRI



TEST RANGE



* On-demand customization of tooling fixtures

BOTEN CR518 EUI EUP Test Bench



PARAMETER

MODEL	BOTEN CR518	
COLOR	● GREEN	
NET DIMENSIONS	1465*830*1780mm	
GROSS DIMENSIONS	1565*930*1880mm	
NET WEIGHT	650KG	
FREQUENCY	50Hz / 60Hz	
MOTOR POWER	11kw	
VOLTAGE	380V AC	
TANK VOLUME	35L	
CONTROL CIRCUIT VOLTAGE	DC 12V	DC 24V
OIL TEMP CONTROL	40 ± 2°C	
HEATER POWER	380V / 3kw	
NOISE LEVEL	<85dB	

FEATURE

- ◆ BOTEN CR518 can test EUI, EUP, Cummins PT, QSk, HPI Injector with New Cambox etc.
- ◆ New Cambox is equipped with Load Sensor to test EUI
- ◆ Opening Pressure Test and Peak Injection Pressure Test for EUI EUP
- ◆ Solenoid Valve Response Time Test (T3) and Closing Time Test (T4) for EUI EUP
- ◆ Opening Time and Closing Time Test for E3 EUI SCV and NCV
- ◆ Classification Coding for EUP and Fuel Quantity Classification Coding for A-Series EUI
- ◆ Delphi E1 EUI 6-Digit Correction Coding and Delphi E3 EUI 9-Digit Correction Coding

CONFIGURATION

■ Cam Box & EUI EUP Adapter | Standard 10 Pcs*



*Indicates that the product is optional

BOTEN CR318S CRI & HEUI Test Bench



PARAMETER

MODEL	BOTEN CR318S	
COLOR	● GREEN	
NET DIMENSIONS	1410*810*1610mm	
GROSS DIMENSIONS	1500*1000*1800mm	
NET WEIGHT	500KG	
FREQUENCY	50Hz / 60Hz	
MOTOR POWER	4kw	
VOLTAGE	220V AC / 380V AC	
TANK VOLUME	OIL: 19L	HEUI:25L
MAX RAIL PRESSURE	2700 Bar	
OIL TEMP CONTROL	40 ± 2°C	
HEATER POWER	380V / 3kw	
NOISE LEVEL	<85dB	

FEATURE

- ◆ BOTEN CR318S can test High Pressure Common Rail Injectors and HEUI injectors etc.
- ◆ Simultaneous Test of Fuel Injection, Fuel Return, and Response Time
- ◆ Solenoid Valve Resistance Test, Piezo Injector Resistance and Capacitance Test
- ◆ Automatic Temperature Control System for Test Fluid
- ◆ AHE Dynamic Armature Stroke Test , Manual MDP Test and NOP Test
- ◆ Coding for Bosch, Denso, Delphi, VDO, Cummins CRI, Fuel Correction Coding for CRI

TEST RANGE



HEUI Injector Adapter | Standard 2 Pcs



*Indicates that the product is optional

BOTEN CR318C Common Rail Test Bench



PARAMETER

MODEL	BOTEN CR318C
COLOR	● GREEN
NET DIMENSIONS	1280*820*1600mm
GROSS DIMENSIONS	1400*1000*1800mm
NET WEIGHT	480KG
FREQUENCY	50Hz / 60Hz
MOTOR POWER	4kw
VOLTAGE	220V AC / 380V AC
TANK VOLUME	19L
MAX RAIL PRESSURE	2700 Bar
OIL TEMP CONTROL	40 ± 2°C
HEATER POWER	380V / 3kw
NOISE LEVEL	<85dB

FEATURE

- ◆ BOTEN CR318C can test Common Rail injectors from Bosch, Denso, Delphi, VDO, Cummins etc.
- ◆ Simultaneous Test of Fuel Injection, Fuel Return, and Response Time
- ◆ Solenoid Valve Resistance Test, Piezo Injector Resistance and Capacitance Test
- ◆ Automatic Temperature Control System for Test Fluid
- ◆ AHE Dynamic Armature Stroke Test , Manual MDP Test and NOP Test
- ◆ Coding for Bosch, Denso, Delphi, VDO, Cummins CRI, Fuel Correction Coding for CRI

TEST RANGE



BOTEN CR318H HEUI Test Bench



PARAMETER

MODEL	BOTEN CR318H
COLOR	● YELLOW
NET DIMENSIONS	1280*820*1600mm
GROSS DIMENSIONS	1400*1000*1800mm
NET WEIGHT	450KG
FREQUENCY	50Hz / 60Hz
MOTOR POWER	2.2kw
VOLTAGE	220V AC / 380V AC
TANK VOLUME	30L
MAX RAIL PRESSURE	250 Bar
OIL TEMP CONTROL	40 ± 2°C
HEATER POWER	380V / 3kw
NOISE LEVEL	<85dB

FEATURE

- ◆ Quick Tooling Fixture for CAT HEUI Injector Test etc.
- ◆ Simultaneous Test of Fuel Injection, Fuel Return, and Response Time
- ◆ Automatic Temperature Control System for Test Fluid
- ◆ Manual Setting of Test Conditions

CONFIGURATION

■ HEUI Injector Adapter | Standard 2 Pcs



*Indicates that the product is optional

BOTEN BT618 Mechanical Test Bench

A B P VE PUMP RED4 VP37 TICS
GENERATOR ELECTRONICALLY
CONTROLLED SPEED CONTROL PUMP



FEATURE

- ◆ Sealing Test for Fuel Pump
- ◆ Distribution Pump Solenoid Valve Performance Test, Delivery Pump Performance Test
- ◆ Pressure Compensator Performance Examination, Dispensing Pump Internal Pressure Test
- ◆ Check Fuel Pump Delivery and Supply Capacity, and Measure the Advance Angle
- ◆ Measurement of Fuel Supply to Each Cylinder at Different Speeds and Static Supply Time
- ◆ Mechanical Governor Performance Check, Pneumatic Governor Performance Check

PARAMETER

MODEL	BOTEN BT618		
COLOR	● GREEN		
NET DIMENSIONS	2200*1280*1900mm		
NET WEIGHT	900KG		
FREQUENCY	50Hz / 60Hz		
MOTOR POWER	● 22KW	○ 11KW	○ 11KW Servo
VOLTAGE	380V AC		
TANK VOLUME	DIESEL: 35L	OIL: 19L	
MAXIMUM SPEED	3500R/Min		

OPTIONAL FUNCTIONS *

Cambox EUI EUP Test Combining Kit



Components:

Cambox with 10 EUI EUP Adapters
E3 Controller for Injector Trigger
PC installed with Boten Test Software

Features:

Manual Speed Adjusting
Manual Readings Entering
Measuring Cup Showing Delivery
Easy Connection Clamping Guidance
Remote Trouble Shootings

HEUI Injector Test Combining Kit



Components:

HEUI Fixture with 2 Adapters
CAT HEUI Supply Pump
Electronic Pulse Controller

Features:

HEUI Injector Quick Clamping
Measuring Cup Showing Delivery
Manual Pulse Width Setting
Manual Trigger Frequency Setting
External High Pressure Diesel Supply

*Indicates that the product is optional

TOOL



Work Bench

Size: 1750*750*1850mm Table Height: 800 mm

Features: Delicate plate material, multi-layer storage, thicker material, more stable structure, small footprint, large operating space. More items can be placed in the storage area. High quality steel is selected, which is harder and more stable.



High Precision Armature Lift Measuring Tool

Test Range: Solenoid valve inductance , Oil control valve stroke , Residual Air , Solenoid valve spring force, Nozzle spring force, Needle valve stroke, Injector opening pressure, Oil slide valve spool runout stroke, Dynamic armature stroke , Nozzle spring force, Needle valve stroke



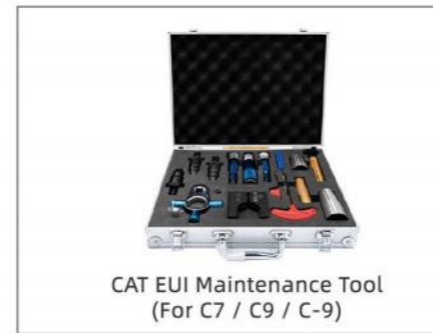
Electronic Pulse Controller

Test Range: Piezo Trigger, Piezo AHE Function, Electromagnetic Trigger, Electromagnetic Trigger AHE Function, ZME Resistance Measurement, ZNME current drive mode, ZME common rail pump, actuator pump duty cycle drive mode Error code



High Definition Microscope

Features: one-piece design, durable and easy to operate, high precision measurement, widely used to meet the needs of various industries.- Adoption of high brightness cold light source Brightness can



CAT EUI Maintenance Tool (For C7 / C9 / C-9)



CAT EUI Maintenance Tool (For C12 / C13 / C15 / C18)



Delphi EUI Maintenance Tool (For E1 / E3)



Bosch EUI Maintenance Tool (For Sacnia / Volvo)



Cummins EUI Maintenance Tool (For QSK60 X15)



Cummins IMV Valve Maintenance Tool (For M11 / N14)



EUI/EUP Valve Repair Tool (For Bosch EUI / EUP)



High Pressure Common Rail Disassemble Tool (38Pcs)



High Pressure Common Rail Disassemble Tool (22Pcs)



Cummins EUI Maintenance Tool



Oil&Water-proof Thickness Gauge



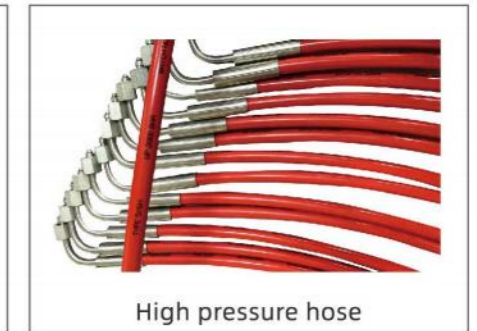
Special Fixture B



Nozzle Calibrator



Multi-functional dismantling rack



High pressure hose



AUTOMATION PROJECT





Common Rail Injector 6-Channel Performance Test Bench
(Fully-Automatic)



Common Rail Pump Run-in Test Bench



Common Rail Injector 4-Channel
Run-in Test Bench

PRODUCT SCOPE

- ▶ Common Rail Injector/Pump Assembly Line
- ▶ Automatic Gasket Measuring and Sorting Machine
- ▶ Valve Set/Nozzle Flow Test Bench
- ▶ Common Rail Injector 6-Channel Test Bench
- ▶ High-speed Solenoid Valve Comprehensive Performance Test Bench
- ▶ Armature Stroke/Response Time Test Bench
- ▶ Ultra-High Pressure Deburring and Cleaning Machine
- ▶ Ultra-Precision Grinder Automatic Machine
- ▶ Common Rail Injector/Common Rail Pump Running-In Test Bench



Common Rail Injector 6-Channel Test Bench
(Semi-Automatic)



Common Rail Pipe Performance Test Bench