



BOTEN TESTING EQUIPMENT (SUZHOU)CO., LTD

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博特恩检测设备(苏州)有限公司

BOTEN TESTING EQUIPMENT (SUZHOU)CO., LTD

CATALOGUE

11.2023

企业简介

ABOUT BOTEN



用户至上·精诚合作·互利双赢
Customer first, sincere cooperation, mutual benefit and win-win

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!

企业优势

COMPANY ADVANTAGES



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

发展历程

DEVELOPMENT HISTORY

- 1997年**
 成立专业的油泵喷嘴维修站
 Set up a professional oil pump nozzle maintenance station.
- 2003年**
 成功加入博世柴油系统服务站
 Successfully joined the Bosch Diesel Service Station.
- 2008年**
 着手研发共轨喷油器测试试验台
 Started to develop a common rail injector test bench.
- 2010年**
 成功生产第一台自主研发的共轨实验台
 Successfully produced the first self-developed common rail test bench.
- 2015年10月**
 正式成立博特恩检测设备（苏州）有限公司
 Boten Testing Equipment (Suzhou) Co., Ltd. was formally established.
- 2016年起**
 实用新型专利与外观设计专利达到40余项
 There are more than 40 utility model patents and design patents.
- 2016年11月**
 正式获批对外贸易进出口资质
 Officially approved foreign trade import and export qualification.
- 2018年**
 博特恩检测设备获得多项国内与国际检测认证标准
 Boten's testing equipment has obtained a number of domestic and international testing and certification standards.
- 2020年**
 与康明斯（武汉）燃油系统有限公司达成合作
 Reached cooperation with Cummins (Wuhan) Fuel System Co., Ltd.
- 2023年**
 公司搬迁新址
 The company moved to a new location.

企业资质

PATENT CERTIFICATE



BOTEN CR1016 Multi-Functional Common Rail Test Bench



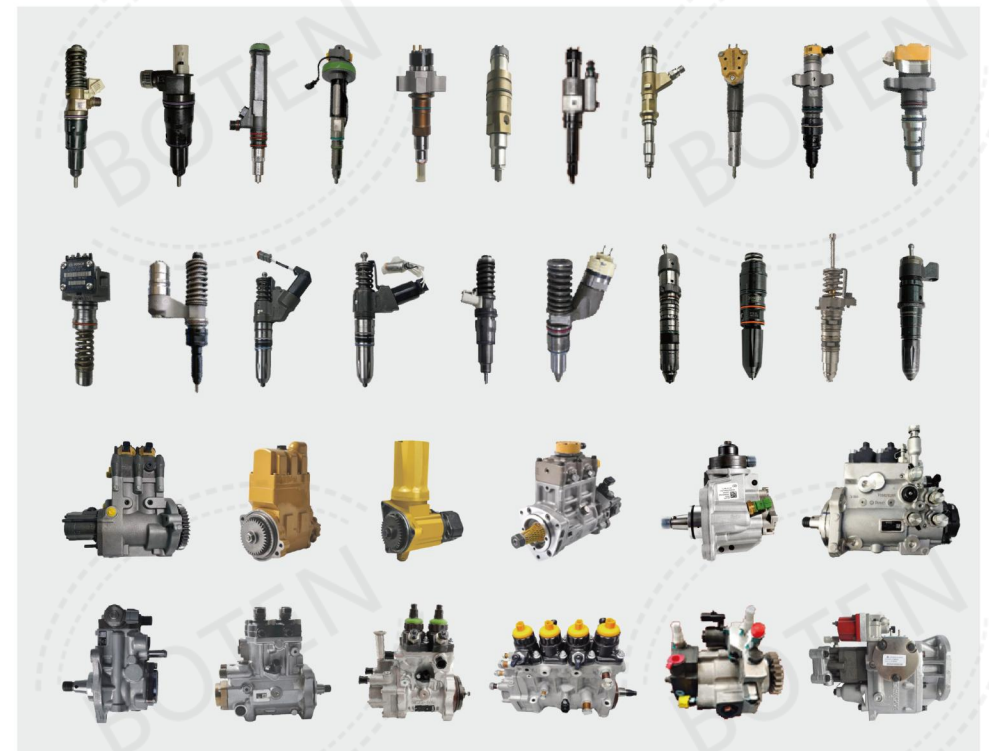
PARAMETER 设备技术参数

MODEL	BOTEN CR1016		
COLOR	● RED	● GREEN	
NET DIMENSIONS	1990*1330*1890mm		
GROSS DIMENSIONS	2150*1450*2160mm		
NET WEIGHT	1500KG		
FREQUENCY	50Hz / 60Hz		
MOTOR POWER	30KW		
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		

FUNCTIONS 设备功能特点

- ◆ 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 设备测试范围



BOTEN CR918S Multi-Functional Common Rail Test Bench



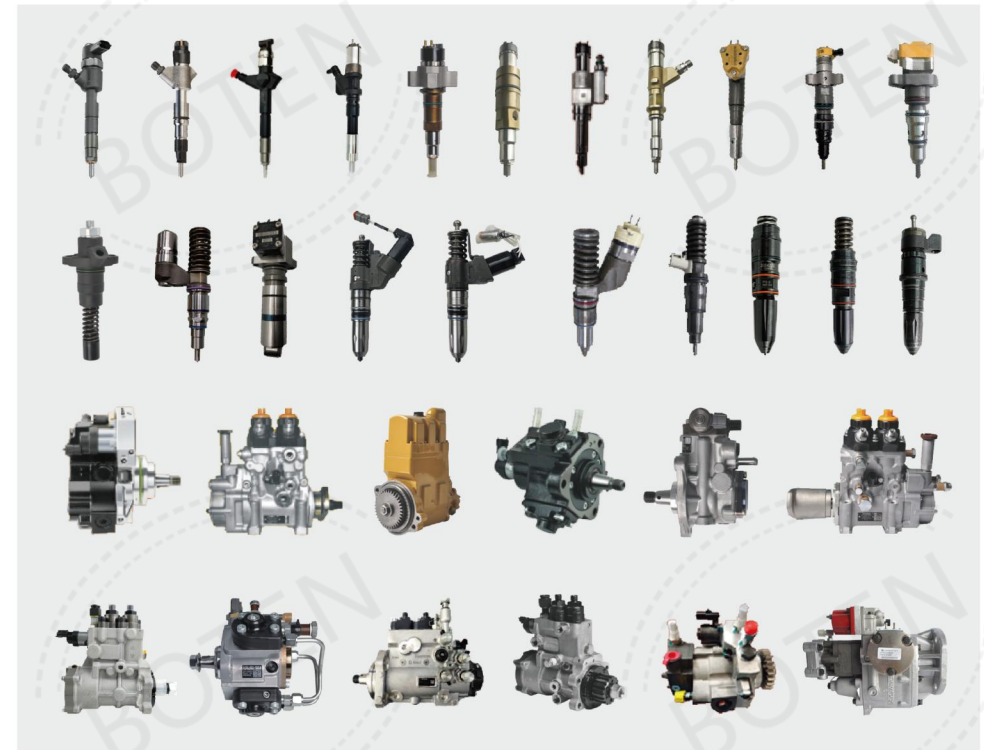
PARAMETER 设备技术参数

MODEL	BOTEN CR918S		
COLOR	● GREEN		
NET DIMENSIONS	2360*1280*1890mm		
GROSS DIMENSIONS	2440*1450*2100mm		
NET WEIGHT	1400KG		
FREQUENCY	50Hz / 60Hz		
MOTOR POWER	22KW		
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		

FUNCTIONS 设备功能特点

- ◆ BOTEN CR918S 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 设备测试范围



CONFIGURATION 配置说明

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

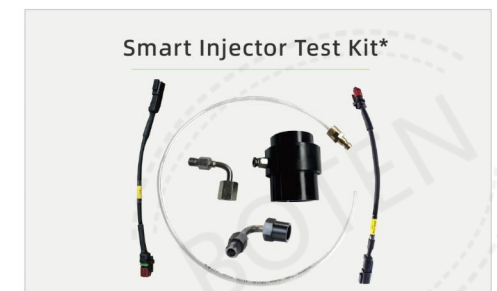


■ HEUI Injector Adapter | Standard 2 Pcs



*Indicates that the product is optional

CONFIGURATION 配置说明



*Indicates that the product is optional

BOTEN CR518 EUI EUP Test Bench



PARAMETER 设备技术参数

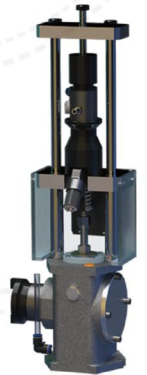
MODEL	BOTEN CR518	
COLOR	● GREEN	
NET DIMENSIONS	1465*830*1780mm	
GROSS DIMENSIONS	1700*1000*1980mm	
NET WEIGHT	650KG	
FREQUENCY	50Hz / 60Hz	
MOTOR POWER	11kw	
VOLTAGE	380V AC	
TANK VOLUME	35L	
CONTROL CIRCUIT VOLTAGE	DC 12V	DC 24V
OIL TEMP CONTROL	40 ± 2°C	
HEATER POWER	380V / 3kw	
NOISE LEVEL	<85dB	

FUNCTIONS 设备功能特点

- ◆ 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 配置说明

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



*Indicates that the product is optional

BOTEN CR718 6 - Channel Common Rail Test Bench



PARAMETER 设备技术参数

MODEL	BOTEN CR718
COLOR	● GREEN
NET DIMENSIONS	1600*1190*1710mm
GROSS DIMENSIONS	1700*1220*1920mm
NET WEIGHT	750KG
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

FUNCTIONS 设备功能特点

- ◆ 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 设备测试范围



* On-demand customization of tooling fixtures

BOTEN CR318S CRI & HEUI Test Bench



PARAMETER 设备技术参数

MODEL	BOTEN CR318S	
COLOR	● GREEN	
NET DIMENSIONS	1410*810*1610mm	
GROSS DIMENSIONS	1500*1000*1700mm	
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	

FUNCTIONS 设备功能特点

- ◆ 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 设备测试范围



HEUI Injector Adapter | Standard 2 Pcs



*Indicates that the product is optional

BOTEN CR318C Common Rail Test Bench



PARAMETER 设备技术参数

MODEL	BOTEN CR318C
COLOR	● GREEN
NET DIMENSIONS	1280*820*1600mm
GROSS DIMENSIONS	1400*1000*1770mm
NET WEIGHT	400KG
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

FUNCTIONS 设备功能特点

- ◆ 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 设备测试范围



BOTEN CR318H HEUI Test Bench



PARAMETER 设备技术参数

MODEL	BOTEN CR318H
COLOR	● YELLOW
NET DIMENSIONS	1255*780*1570mm
GROSS DIMENSIONS	1400*1000*1800mm
NET WEIGHT	400KG
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

FUNCTIONS 设备功能特点

- ◆ 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 可选配置

HEUI Injector Adapter | Standard 2 Pcs



*Indicates that the product is optional

BOTEN CR318A Common Rail Test Bench



PARAMETER 设备技术参数

MODEL	BOTEN CR318A
COLOR	● GREEN
NET DIMENSIONS	1450*900*1600mm
GROSS DIMENSIONS	1550*1050*1770mm
NET WEIGHT	400KG
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

FUNCTIONS 设备功能特点

- ◆ 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 设备测试范围



BOTEN BT618 Mechanical Test Bench

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



FUNCTIONS 设备功能特点

- ◆ 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 设备技术参数

MODEL	BOTEN BT618	
COLOR	● GREEN	
NET DIMENSIONS	2200*850*1850mm	
NET WEIGHT	900KG	
FREQUENCY	50Hz / 60Hz	
MOTOR POWER	11KW / 22KW	
VOLTAGE	380V AC	
TANK VOLUME	DIESEL: 35L	OIL: 19L
MAXIMUM SPEED	3500R/Min	

TOOL 常用工具



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



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 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 C12 / C13 / C15 / C18)



Cummins EUI Maintenance Tool
(For QSK60 X15)



Bosch EUI Maintenance Tool
(For Saccia / Volvo)



Delphi EUI Maintenance Tool
(For E1 / E3)



Cummins IMV Valve Maintenance Tool
(For M11 / N14)



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



High Pressure Common Rail
Disassemble Tool



High Pressure Common Rail
Disassemble Tool



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



Cummins EUI Maintenance Tool



Futian Cummins Dongfeng
Cummins Tool



Special Fixture B



CVOK Micrometer



Multi-functional dismantling rack



Marble bracket



HP5 HP6 Test Kit



HP7 Test Kit



M11 Test Kit



MTU-1 Test Kit



MTU-2 Test Kit



QSK19 Test Kit



Yangtz Test Kit



Liebherr 1 Test Kit



Liebherr 2 Test Kit



Scannia Test Kit



CAT 336E Test Kit



Cardinal Test Kit



CB28 Test Kit



Coupling Disassembly Tool



Flange Seat