CR819 EUI EUP HEUI COMMON RAIL DIESEL INJECTOR FUEL INJECTION PUMP TEST BENCH
(Standard configuration 11KW+380V 3 phase)

1. Machine dimension (L*W*H):178*115*156 cm
2. Packing dimension (L*W*H):185*120*170 cm

TECHNICAL PARAMETERS

1.Main motor speed:	0-4000 r / min can be adjustable
2.Motor power:	11KW/15KW/18.5KW/22KW optional
3.Fuel Injector open	12V, 80V, 150V Control accuracy:
4.Voltage Control range:	phase adjustment
5.Injector opening	0-1000HZ Control accuracy: 1HZ
6.Frequency Control:	0-65535us
7.Fuel injector hold time control:	0-1000 times
8.Delivery oil count control accuracy:	1 times
9.Fuel pressure control	0-2400bar
10.Control accuracy:	1bar
11.Electronic power:	380V /220V three phase ; 220V single phase
12.Product size:	178*115*156
13.Weight:	906kg(including cam box);690kg(excluding cam box)

PRODUCT DETAILS

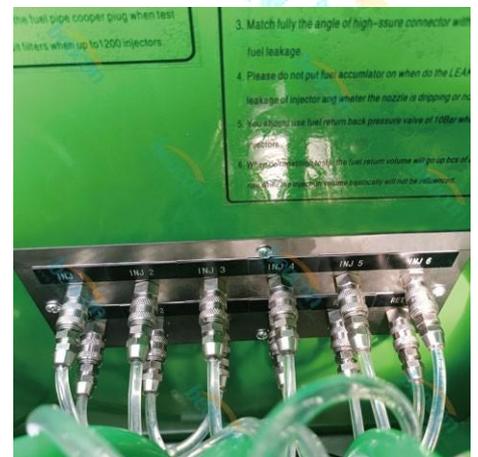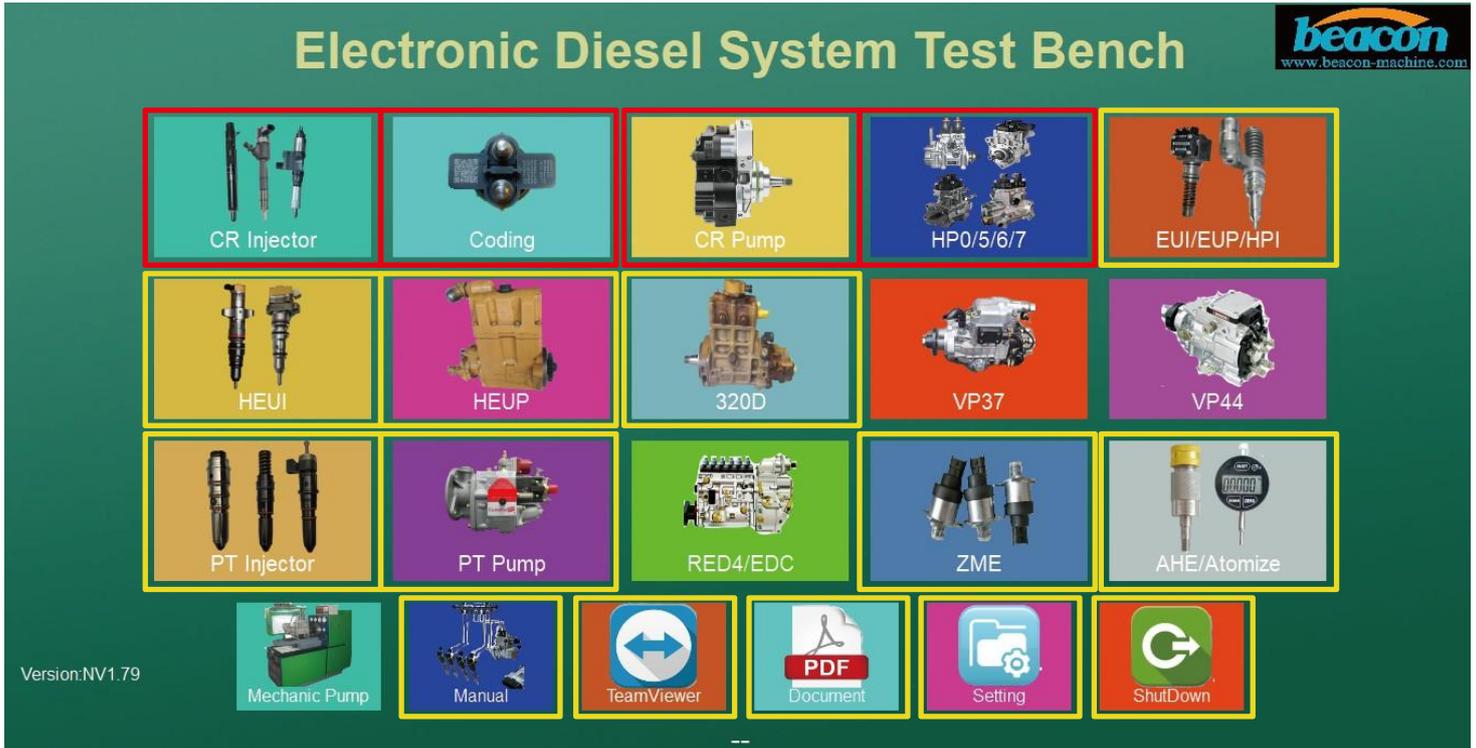|		
control Panel	Flow sensors	Frequency converter
Motor	Cooling fan	Distribution panel
Diesel tank	The electromagnetic valve	Wiring harness panel

DIESEL COMMON RAIL SYSTEM SOFTWARE PART

1. Main interface

☐ **Basic function**   ☐ **Optional function**

| 1.1 CR Injector | 1.8 320D | 1.15 AHE/Atomize |
1.2 Coding	1.9 VP37	1.16 Mechanic Pump
1.3 CR Pump	1.10 VP44	1.17 Manual
1.4 HP0/5/6/7	1.11 PT Injector	1.18 TeamViewel
1.5 EUI/EUP/HPI	1.12 PT Pump	1.19 Document
1.6 HEUI	1.13 RED4/EDC	1.20 Setting
1.7 HEUP	1.14 ZME	1.21 ShutDown

2. How many languages are there in the control system?

Software supports 15 languages, including Chinese, English, Spanish, Finnish, French, Italian, Korean, Polish, Portuguese, Russian, Simplified Chinese, Turkish, Bosnian, Araba, and Croatian.
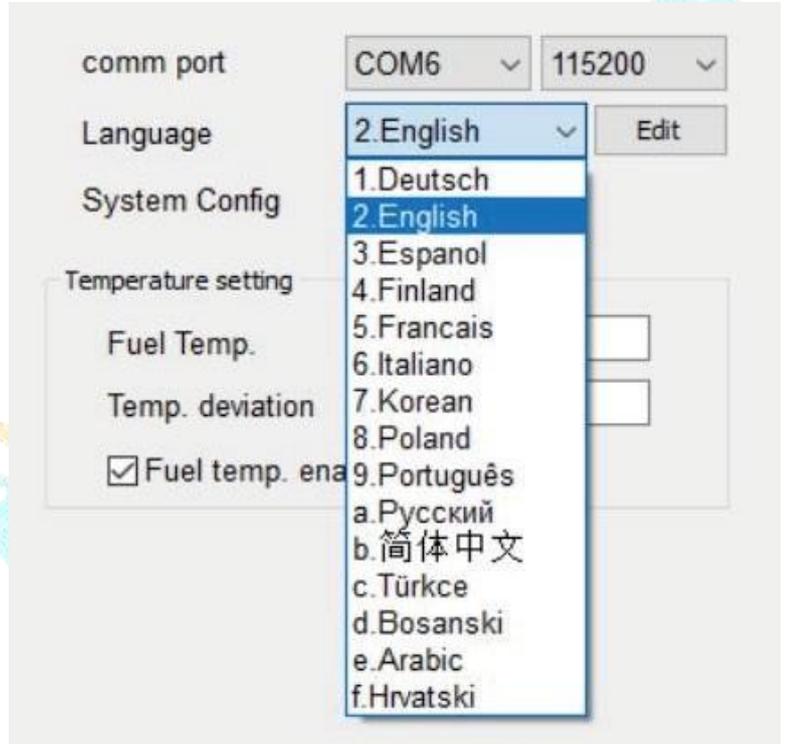
Note: Other main interface options and **customer LOGO can be customized.**
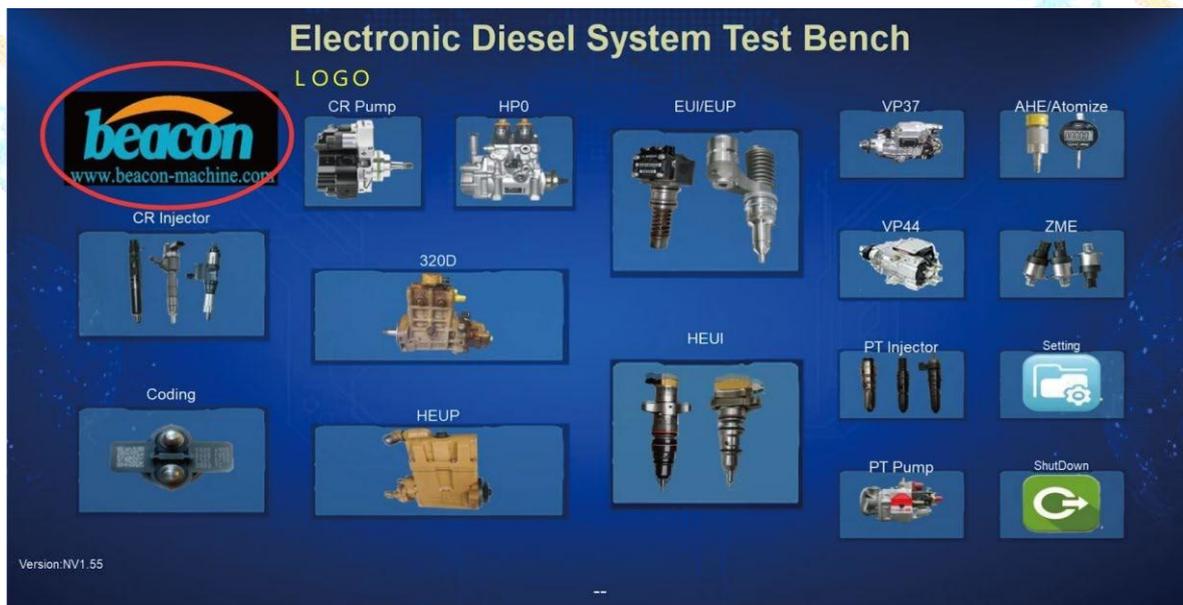
BASIC FUNCTION

1. **11KW 380V 3 phase**

2. **Common rail injector + piezoelectric injector**

3. **Common rail pump**

4. **Denso HP0 pump**

5. **Injector coding**

1.Common rail injectors test

(**The latest system has 7543 injectors data,** including Bosch **2493**, Denso **4287**, Siemens **171**, Delphi **449**, Carter **17**, Cummins **54**, MTU **19**)

2. Can print test report.

The logo of the test report can be changed or put yours

TEST REPORT

Servicer: Tester:
Tel: Fax:
Address:

Repairer: Customer:
Tel: Fax:
Address:

Date: 07.04.2023 17:46

Part Number: 0445010012   Maker: Bosch
Serial Number: SN

Step	P_rail (Mpa)	I_ZME (A)	Q_pump (L/H)	Q_Real (L/H)	Assess
Max Power	100.0	0.40	46.7±4.6	2.8	×
No Flow	100.0	1.60	1.0±1.0	0.8	√
Max Power	135.0	0.40	44.8±4.1	2.7	×

3. Piezo injector test
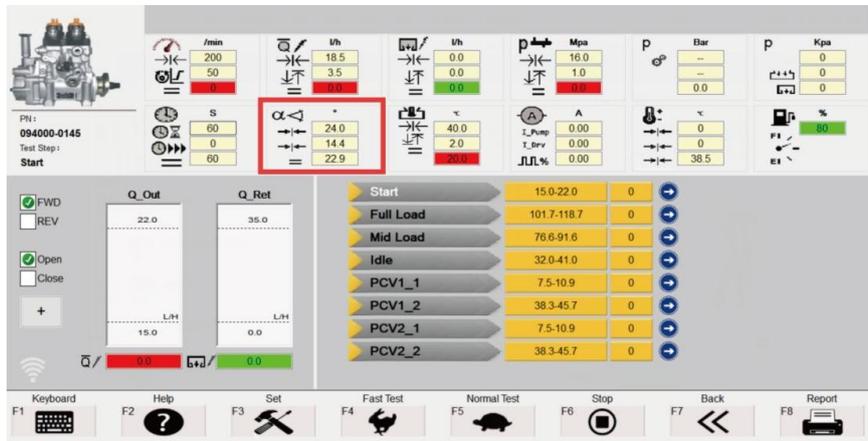
4. Common rail pump test

5. Denso HP0 pump test

6.Calibration code

(**4185** codes (Bosch **1174**, Denso **2375**, Siemens **160**, Delphi **438**, Cummins **28**)

Injector Coding

	Type-PN	Maker	Version
1	0060-0180-0280M	Denso	Manufactor
2	00SMS-TEST	Siemens	User
3	01U00412	Denso	Manufactor
4	023 09S17053..	Denso	Manufactor
5	023 09S17053..	Denso	Manufactor
6	02C2S40004	Siemens	User
7	03L130277B	Siemens	Manufactor
8	03L130277S	Siemens	Manufactor
9	03P130277	Delphi	User
10	03U01595-0221.	Denso	Manufactor
11	0445110002	Bosch	Manufactor
12	0445110003	Bosch	Manufactor
13	0445110004	Bosch	Manufactor
14	0445110005	Bosch	Manufactor
15	0445110006	Bosch	Manufactor
16	0445110007	Bosch	Manufactor
17	0445110008	Bosch	Manufactor

There are 4185 part numbers

Type-PN: Input PN

Maker: Bosch, Denso, Siemens, Delphi, Caterpillar, BYC, Cummins, LongBeng, Yu Chai, XinFeng, ChongQing, L'ORANGE

☐ Calibration injector

F1 Exit | F2 Keyboard | F3 Add | F4 Modify | F5 Delete | F6 Find | F7 Back | F8 Continue

- Bosch IQA / IMA / IS
- Denso 16/22/24/26/28/30/32QR
- Delphi I2C / I3C
- Siemens IIC
- Cummins XPI

Bosch 6 bit | Bosch 7 bit/ISA
Bosch 8 bit | Bosch 9 bit | Bosch 10 bit

Bosch IQA/IMA/ISA

Denso 16QR | Denso 22QR
Denso 24QR | Denso 26QR | Denso 30QR
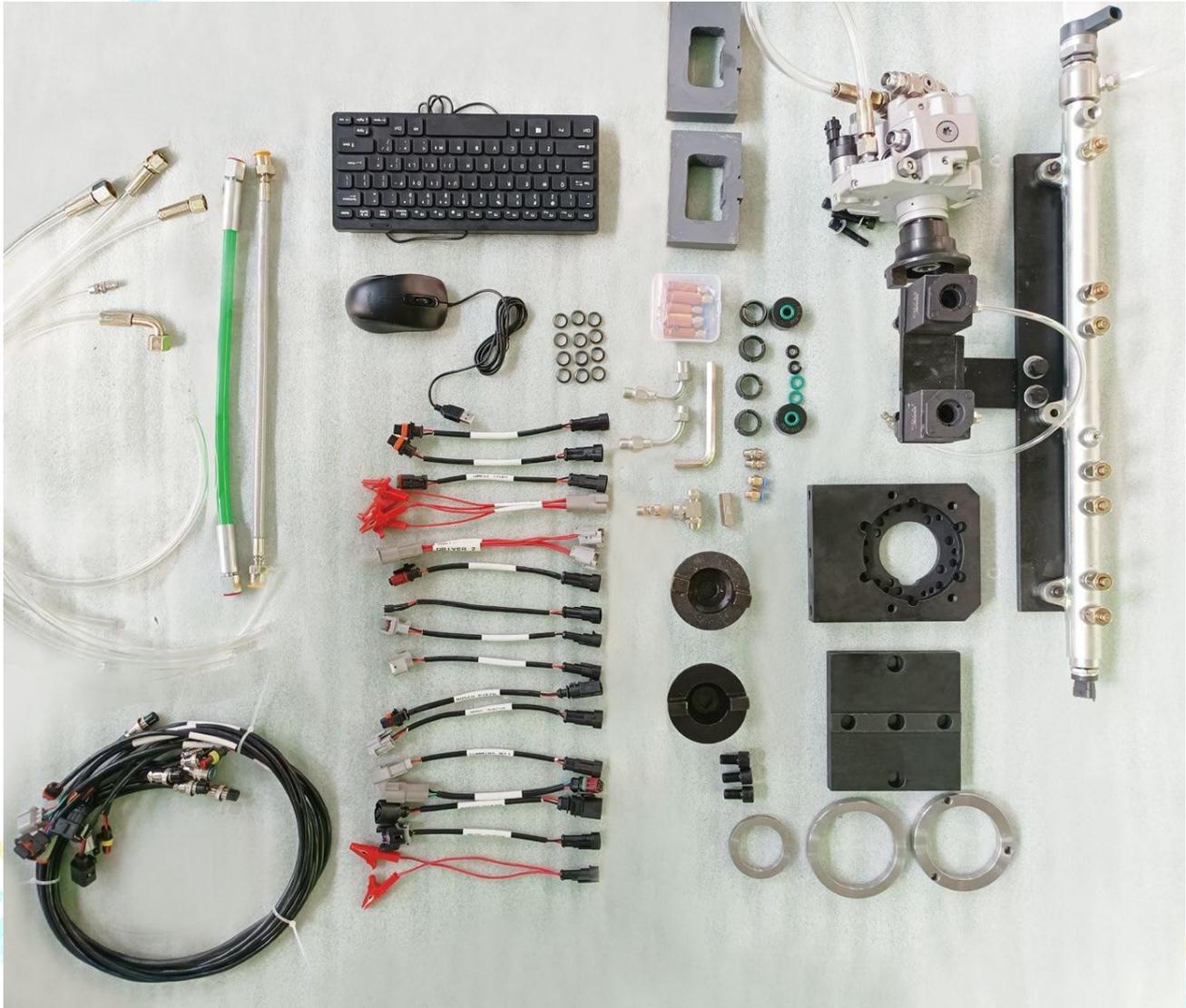
Denso 16/22/24/2628//30/32QR

Delphi C2I/C3I

8SH7BWA

Bosch IMA-7

Denso 30QR | Delphi C3I

ACCESSORIES INCLUDED WITH STAND FUNCTIONS

OPTIONAL FUNCTION

1.Test EUI EUP

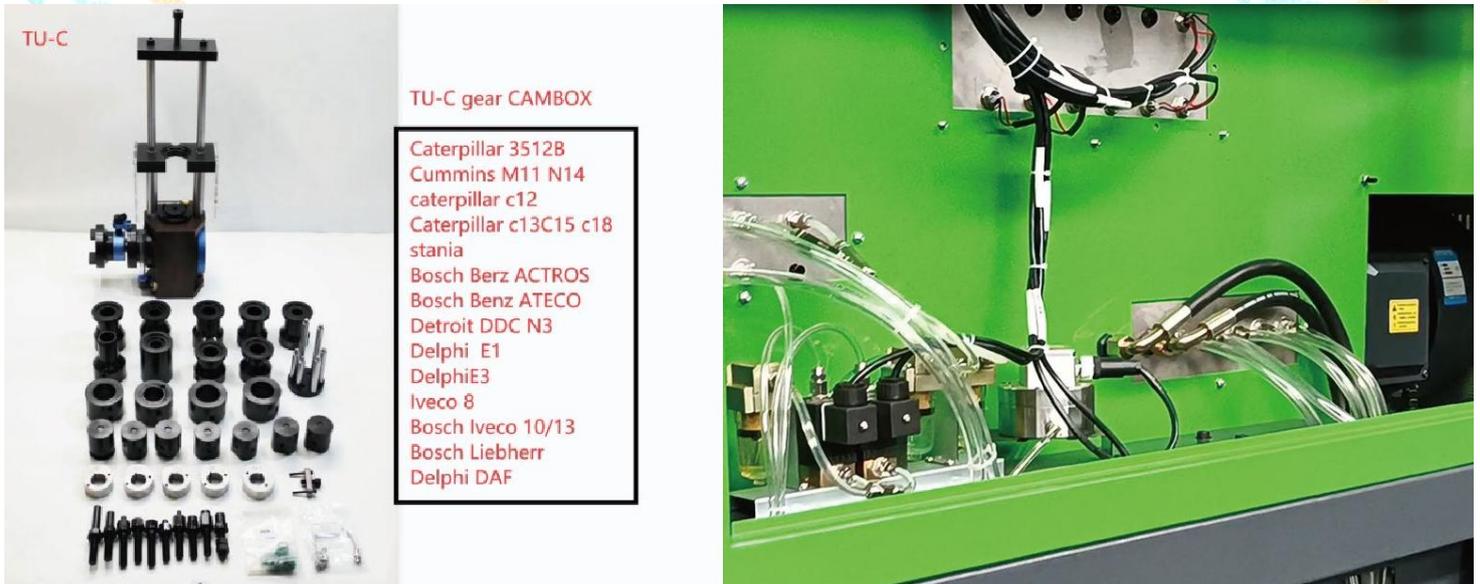### 1.1 Test EUI EUP with TU-A cam box

TU-A CAMBOX with 10 adapters

IVEC0 8
M11
CAT 3196 3176A 3176B
VOLVO A3 E1 E3
CAT3406 C13 C15
IVEC0 10/13 VOLVO D12A
D12C
Audi VW
DEUTZ EUP
Delphi EUP
WT EUP

1.2 Test EUI EUP with TU-B cam box

TU-B CAMBOX with 19 adapters

1Detroit EUI Series 60/50 N2
2 DetroitEUI Series 60 N3
3 Cummins EUI L10/M11 Celect LSM
4 CumminsEUI N14 Celect
5 Caterpillar EUI 3196/3176A/3176B
6 Caterpillar EUI 3176C/C10/C12
7 Detroit EUI DDC 92
8 Caterpillar EUI 3406E C15
9 Iveco/Volvo EUI Iveco Cursor 10/13
Iveco Stralis Volvo D12A/c FH12 EUI for
VOLVO 420-460
10 Scania EUI DC/DSC
11 Audi/VW EUI Seat/Skoda
12 Land Rover EUI
13 EUI
14 CAT MUI CAT3500
15 EUP 15 DDC /MTUS2000/
MecredesBenz/Actros/MBE4000
16 EUP MecredesBenz/OM900/MBE90/M
e r c e d e sAxor/Atego, Econic
17 Mack Renault/DAF/Deutz 2015
18 EUP Delphi
19 Deutz 1013

1.3 Test EUI EUP with TU-C cam box

TU-C

TU-C gear CAMBOX

Caterpillar 3512B
Cummins M11 N14
caterpillar c12
Caterpillar c13C15 c18
stania
Bosch Berz ACTROS
Bosch Benz ATECO
Detroit DDC N3
Delphi E1
DelphiE3
Iveco 8
Bosch Iveco 10/13
Bosch Liebherr
Delphi DAF

1.4 Test EUI EUP with TU-D cam box

TU-D

TU-D gear CAMBOX

Caterpillar 3512B
Cummins M11 N14
caterpillar c12
Caterpillar c13C15 c18
stania
Bosch Berz ACTROS
Bosch Benz ATECO
Detroit DDC N3
Delphi E1
DelphiE3
Iveco 8
Bosch Iveco 10/13
Bosch Liebherr
Delphi DAF
Cummins Q60
Cummins 15

1.5 Test EUI EUP with TU-E cam box

TU-E

TU-E gear CAMBOX
Caterpillar 3512B
Cummins M11 N14
caterpillar c12
Caterpillar c13C15 c18
stania
Bosch Berz ACTROS
Bosch Benz ATECO
Detroit DDC N3
Delphi E1
DelphiE3
Iveco 8
Bosch Iveco 10/13
Bosch Liebherr
Delphi DAF
Cummins Q60
Cummins 15
Bosch Nissan EUI
Bosch VW PD EUI
Bosch VM PDB EUI
Detroit DD60 N2
Siemens VW PPD Piezo

2.1.Test HEUI CAT C7 C9 3126B&3116

C7 C9 3126B&3116 Accessories

2.2 Test HEUI(6 types of adapters)

CAT C7/C9	CAT 3126A	CAT 3126B	CAT 3412E
NAVISTAR	ISUZU	FORD G2.8	FORD G2.9

2.1 CAT 3126A   2.4 ISUZU

2.2 CAT3412E   2.5 Ford G2.8& Ford 6.0

2.3 NAVISTAR   2.6 Ford G2.9

3. Test CAT 320D pump

	/min		l/h		l/h	p	Mpa	p	Bar	p	Kpa
	600		38.0		165.0		120.0		--		1585
	50		11.0		20.0		1.0		--		0
	0		0.0		0.0		0.0		0.0		0

Part Number: 324-0532
Test Step: **Max Power**

	S	U	V		℃	A	A		℃		%
	60		24.0		40.0	I_Pump	0.00		0		80
	0	Boost	0.0		2.0	I_Drv	0.00		0		
	60	R(Ω)	2.0		20.0	∏∏∏%	0.00		38.5		

FWD
REV

Q_Out	Q_Ret	Inductance			
49.0	185.0	600.0	Max Power	27.0-49.0	0 →
			No Flow	0.0-2.0	0 →
			Efficiency	24.1-42.1	0 →
			Start	51.0-77.0	0 →
L/H	L/H	µH			
27.0	145.0	100.0			
0.0	0.0	1585			

F1 Keyboard	F2 Help	F3 Set	F4 Fast Test	F5 Normal Test	F6 Stop	F7 Back	F8 Report

Need with this Accessories

4. Test CAT C7 C9 pump

Description

Type-PN

Maker

Bosch
Denso
Siemens
Delphi
Caterpillar
BYC
Cummins
LongBeng
Yu Chai
XinFeng
ChongQing
L'ORANGE

Data

There are 10 part numbers

	Type-PN	Maker	Type
1	186-3410	Caterpillar	HEU PUMP
2	204-4945	Caterpillar	HEU PUMP
3	254-4355	Caterpillar	HEU PUMP
4	254-4357	Caterpillar	HEU PUMP
5	319-0675	Caterpillar	HEU PUMP
6	319-0677	Caterpillar	HEU PUMP
7	319-0812	Caterpillar	HEU PUMP
8	476-8766	Caterpillar	HEU PUMP
9	HEU-Pump-L	Caterpillar	HEU PUMP
10	HEU-Pump-R	Caterpillar	HEU PUMP

F1 Exit	F2 Keyboard	F3 Add	F4 Modify	F5 Delete	F6 Find	F7 Back	F8 Continue

Need with this Accessories

5. Test 2 injectors at the same time

(2 injectors testing system + additionally add 1 flow sensor + 1 high-pressure oil pipe + 2 solenoid valves + 2 filter elements + 1 filter + 1 double injector clamp)

6. Test 4 injectors at the same time

(4 injector test system + 3 additional flow sensors + 3 high-pressure oil pipes + 6 solenoid valves + 6 filter elements + 3 filters + 1 four-injector fixture)
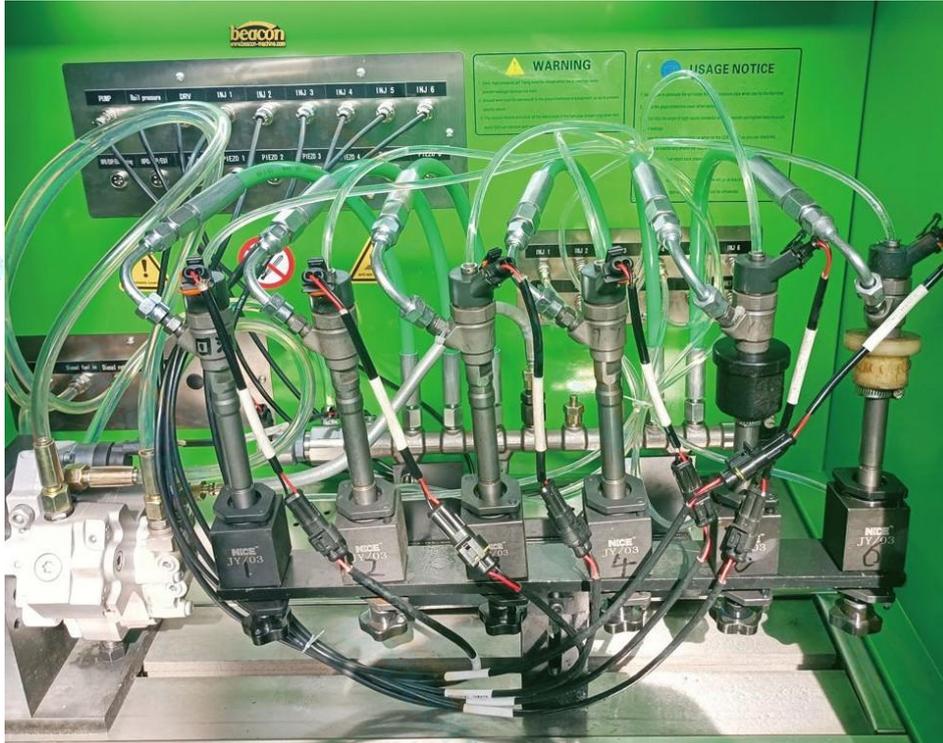
Need with this Accessories

7. Test 6 injectors at the same time

(6 injector test system + 5 additional flow sensors + 5 high-pressure oil pipes + 10 solenoid valves + 10 filter elements + 5 filters + 1 six-injector fixture)

8. Test CP4 pump

Need with this Accessories

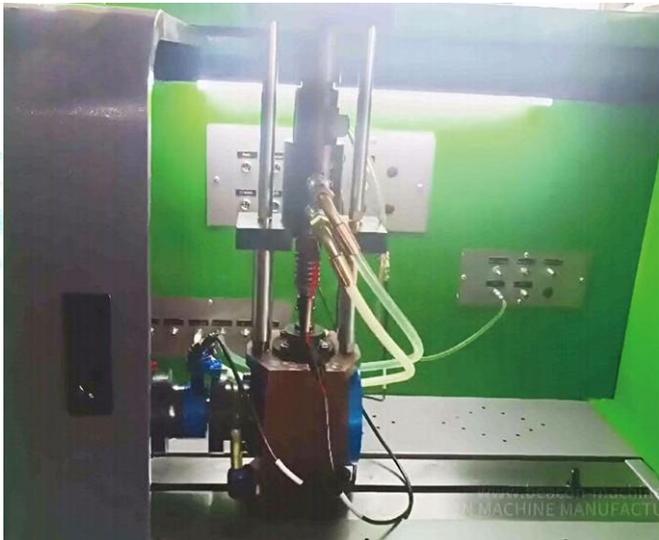# 9. Test Cummins PT injector (This function must be equipped with TU-C/D/E cam box)

Need with this Accessories

10. Test Cummins PT Pump

		/min			l/h			l/h
		200			750.0			0.0
		50			750.0			0.0
		0			0.0			0.0

Part Number
FC9039-3655648
Test Step
MANUAL

	S		V		°C
	60		24.0		40.0
	0	Boost	0.0		2.0
	60	R (Ω)	0.0		20.0

- ✅ FWD
- ☐ REV

Q_Out

1500.0

L/H

0.0

Q̄ 0.0

MANUAL 0.0-1500.0 0

	Graphics		Help		Set		Fast Test		Normal Test		
F1		F2		F3		F4		F5		F6	
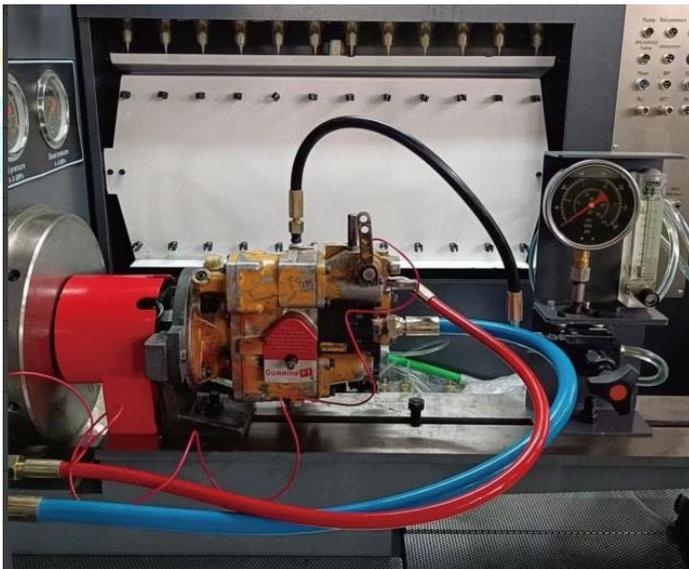
Need with this Accessories

11. Test Cummins HPI Q60 X15 injector (This function must be equipped with TU-C/D/E cam box)
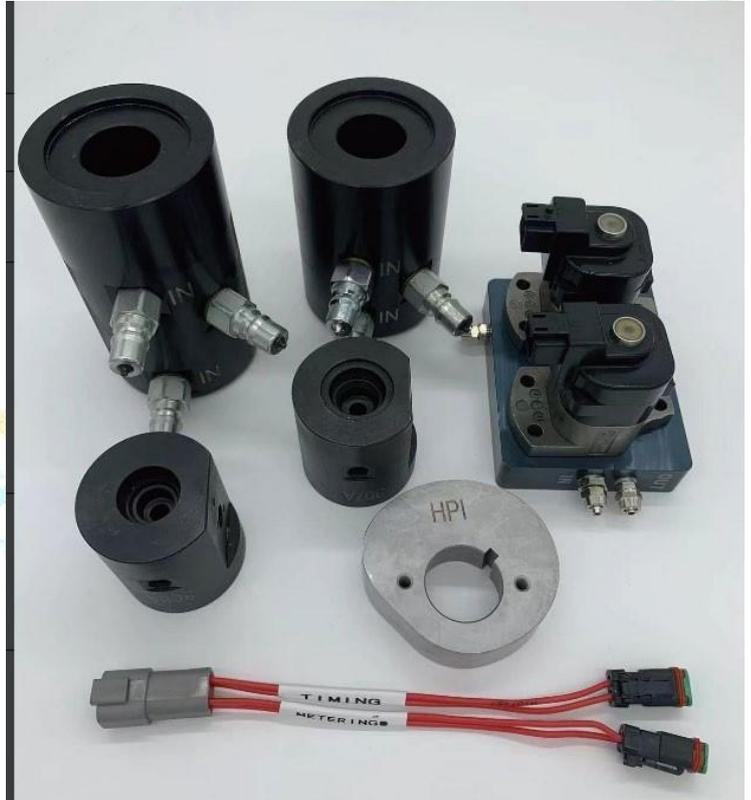
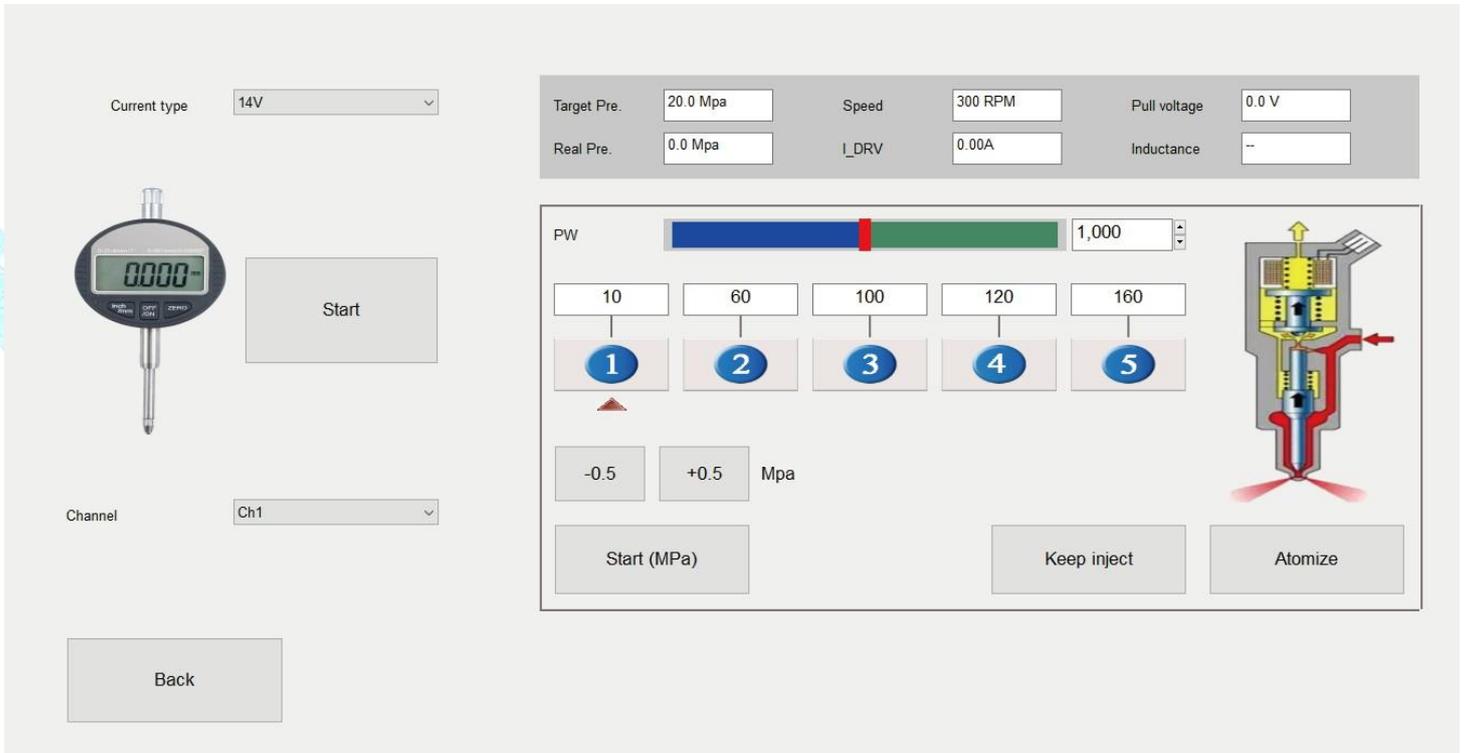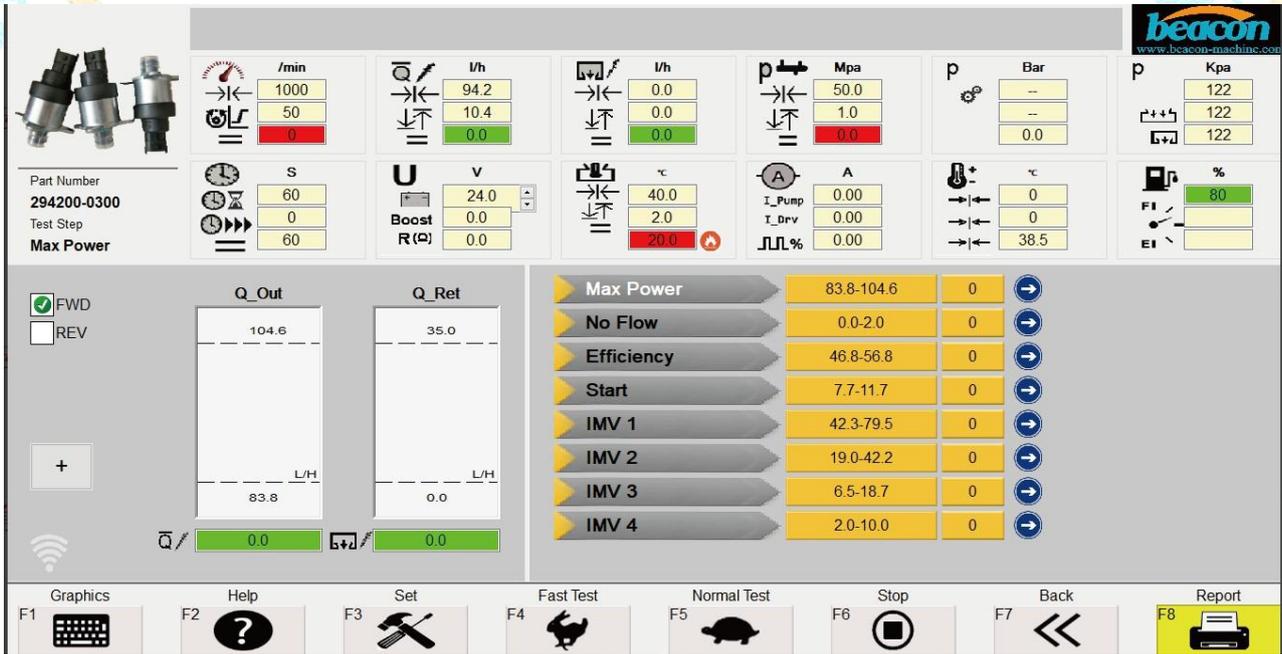## Need with this Accessories

12. AHE injector dynamic stroke (with Bosch 110, 120 stroke measuring tool + dial indicator)
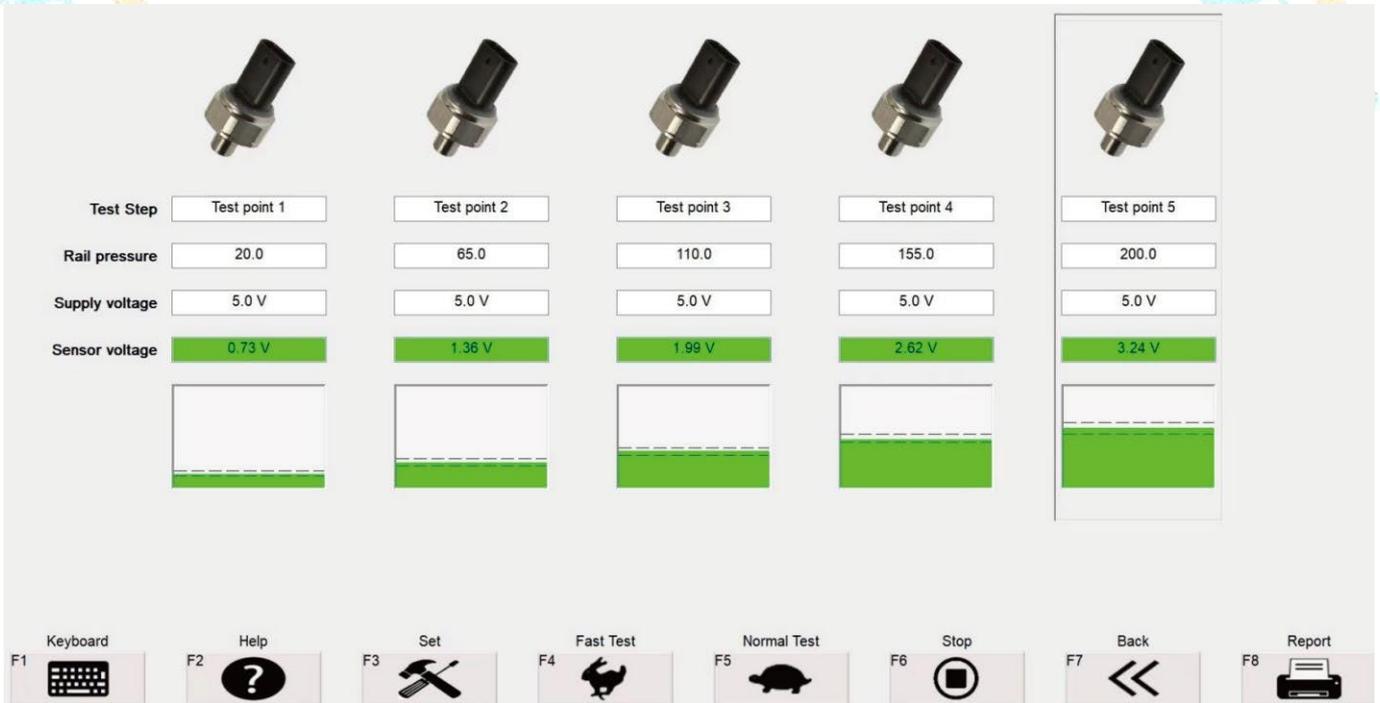
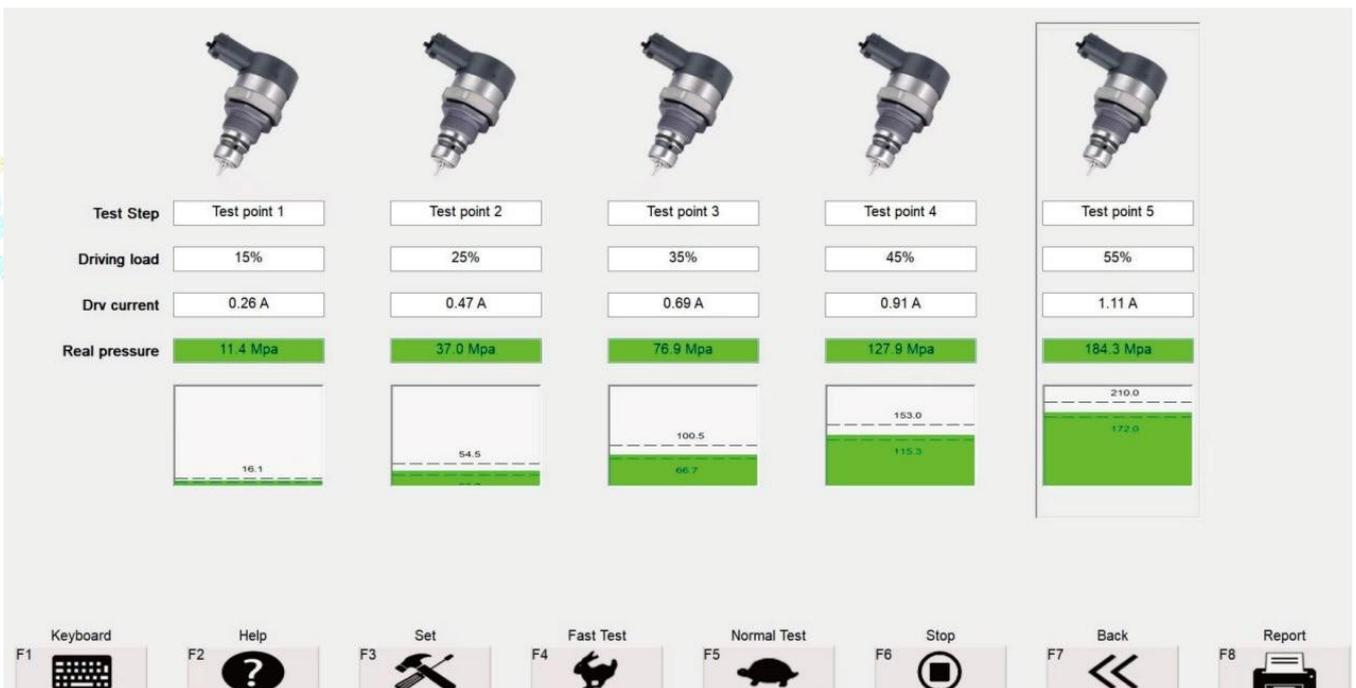# 13. Test ZME

14. Delphi E3 double pulse control system

15. Test MTU L'ORANGE Injector

16. Test Rail pressure sensor

Test Step	Test point 1	Test point 2	Test point 3	Test point 4	Test point 5
Rail pressure	20.0	65.0	110.0	155.0	200.0
Supply voltage	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V
Sensor voltage	0.73 V	1.36 V	1.99 V	2.62 V	3.24 V

17. Test DRV/HPV

Test Step	Test point 1	Test point 2	Test point 3	Test point 4	Test point 5
Driving load	15%	25%	35%	45%	55%
Drv current	0.26 A	0.47 A	0.69 A	0.91 A	1.11 A
Real pressure	11.4 Mpa	37.0 Mpa	76.9 Mpa	127.9 Mpa	184.3 Mpa

18. Test Solenoid valve

Quick response valve

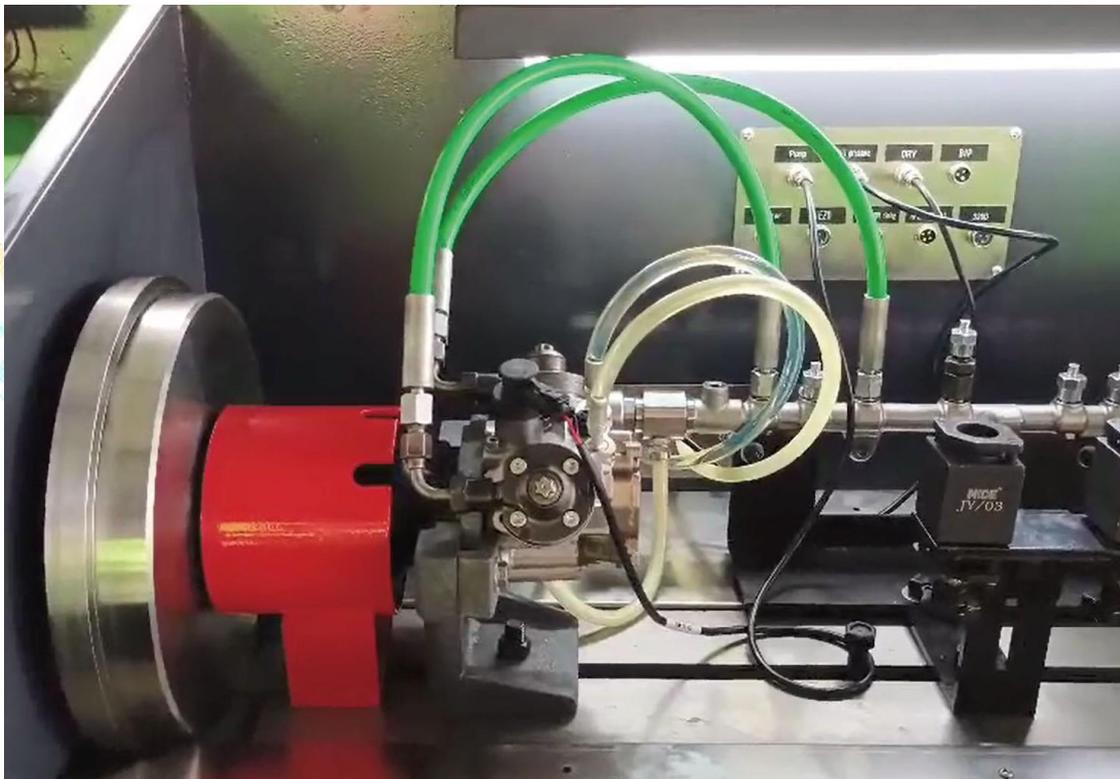# 19. Test Bosch 4 pins injector

Injector system

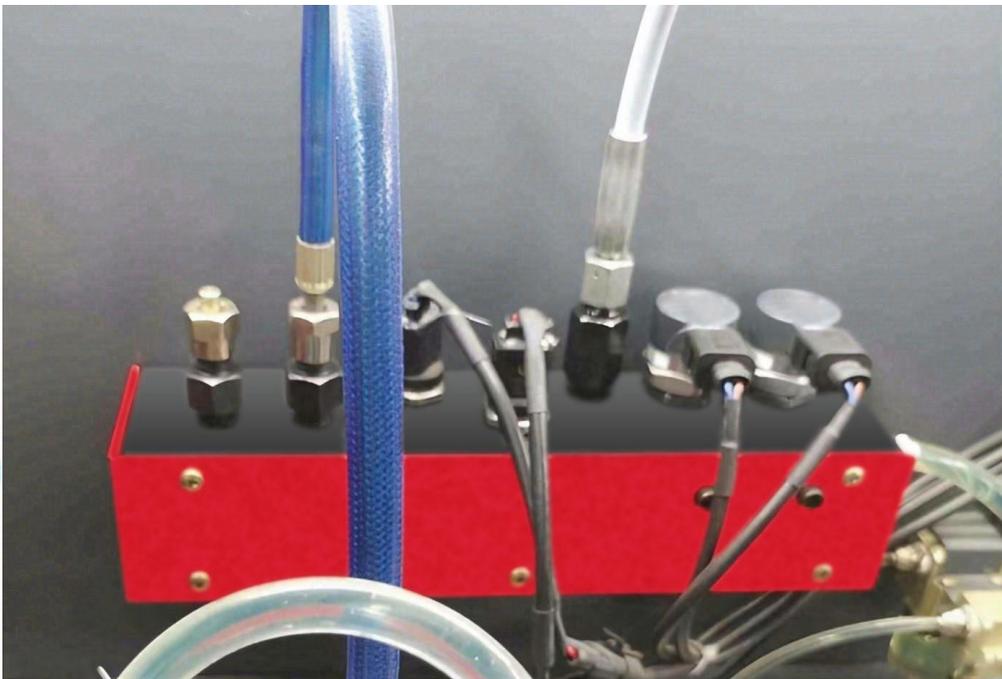## 20. Test XPI injector

Add this accessories

21. Replace with Bosch CP4 pump to reach 2800 bar

22. Test DENSO HP5 Pump accessories

23. Actualice 2 DRV+ 2 sensors

24. Air conditioning forced cooling

CR819 PACKING FOR DELIVERY
PLYWOOD CASE PACKAGING

Finished product

Wrapping machine

Plywood case packaging

Shipping

DELIVERY TIME
WARRANTY PERIOD

1. Machine delivery time

3-4 weeks

2. Warranty period

2.1 One-year warranty + lifetime technical support.

2.2 If non-human damage occurs within one year, accessories will be replaced free of charge.

2.3 If there is any man-made damage, the accessories will be replaced at the ex-factory price.