



[ous-tech.com](http://ous-tech.com)

# OUS

UNIVERSAL SOLUTIONS



**Diesel World (Pvt.) Ltd.**

DIESEL TEST BENCHES | ACCESSORIES | TOOLS

05.2023  
**CATALOGUE**

# UNIVERSAL SOLUTIONS

*We are working for universal solutions to get the job done in minimum steps*

# WELCOME TO THE WORLD OF PROFESSIONAL DIESEL EQUIPMENT



**Ahmet Sak**  
CEO

*As one of the most efficient options for converting energy into work, diesel engines were introduced to humanity at the beginning of the last century. At the beginning, access to power was the primary goal, then strength, economy, environmental awareness and compact structure criteria were met. As these goals were achieved one by one, new and complex fuel injection systems were developed.*

*As the technologies used in the systems became more complex, the repair possibilities began to decrease. Staying within the emission limits imposed by environmental protection laws was only possible by increasing the working pressures. Now, high pressure injection that can meet the desired conditions can only be achieved and managed with complex electronic hardware and software.*

*On the one hand, OEM suppliers no longer provide repair support for pumps and injectors that meet the new emission rules. We, on the other hand, develop products to maintain the functionality of businesses based on repair skills. We produce machines that will display the real structure*

*and problems of the injectors and pumps on which they are working, with reliable parameters. We minimize the experience requirement with an interface that offers ease of use in test and measurement processes. We offer multiple brand and product type testing opportunities from a single platform, providing access to maximum benefit. We increase production efficiency with effective methods, and offer convenience in purchasing with the cost advantages obtained. We contribute to the profitability and competition of our customers with the advantage of free updates. We maintain our environmental awareness while developing test parameters.*

*While doing all this, our basic philosophy is to maintain reliability. Long-term productivity of users is the basic philosophy of our systems. We develop excellence by giving importance to after-sales services for sustainability. We see the users of our devices as our teammates with whom we create common value in today's diesel world.*

## We love to be a part of your solutions in diesel workshop



OUS OTOMOTİV MAKİNA has been manufacturing test, diagnostic, repair, tools and equipment's for the developing diesel service world focusing on fast and speedy solutions since 2009 under "One Universal Solution" brand.

Our designs are based on over forty years of experience of ours' and our partners' on an international level diesel fuel equipment repairing. We aim to offer "Universal Solutions" for workshops with new designs and equipment's utilizing current and improving measurement calibration technologies in our diesel environment.

In our systems we aim to produce the fastest and easiest result-oriented solution among the current technology opportunities that optimizes the resources to be facilitated in a workshop like workforce, floor space, testing and assembly speed therefore creating efficiency. These are all offered to you for your test, repair and maintenance services. Therefore, we strive to support each service workshop to stay ahead in the competitive diesel repair environment.

Our DEVS team, that develops our products, has focused on designing our solutions with simple, understandable, easy-to-apply and learnable designs by following the latest designing technologies.

Our software network, which is offered to you on all our test platforms, is constantly updated and developed for our main idea of, "One Universal Solution".

These developments are not only for the operation of our products, but also include the wide network of manufacturing and part references of our equipment, which is renewed every day, and presents the diesel world to you in your hand, equipment and device.

That is why our tools are already adapted to different local markets and have a wide and most importantly an approved database of test parameters that are growing every day.

We offer our own unique tools and test equipment that allow to repair, test and maintain of the latest diesel fuel injection systems of all well-known manufacturers, using one universal work station. On the other hand, special adapters and test kits allow you to get also a narrow specialization in different areas, such as heavy duty application equipment, marine, on rail applications, mining, agriculture, power generation and so on.

Our development team has created our system in a way that our users get the job done in the easiest and most convenient way. Our solutions allow to create the modern Diesel Service according to personal customers' requirements with considerable savings on assets like finances, workshop area and the time for staff training.

All of our platforms continue to be the "One Universal Solution" with the latest technology for the modern diesel services.

# TABLE OF CONTENTS

## TEST BENCHES

Features .....	8
Onyx IP .....	10
Expert .....	12
Express .....	13
Exist .....	14
X-Code .....	15
Exam .....	16
Extra CR .....	17
X-Unit .....	18
Extra Full .....	19
Accessories Application List .....	20
CR Injector Adapters .....	28
X15 Cambox Euro 6 Set .....	30
X10 Cambox VW Set .....	30
PCU .....	30

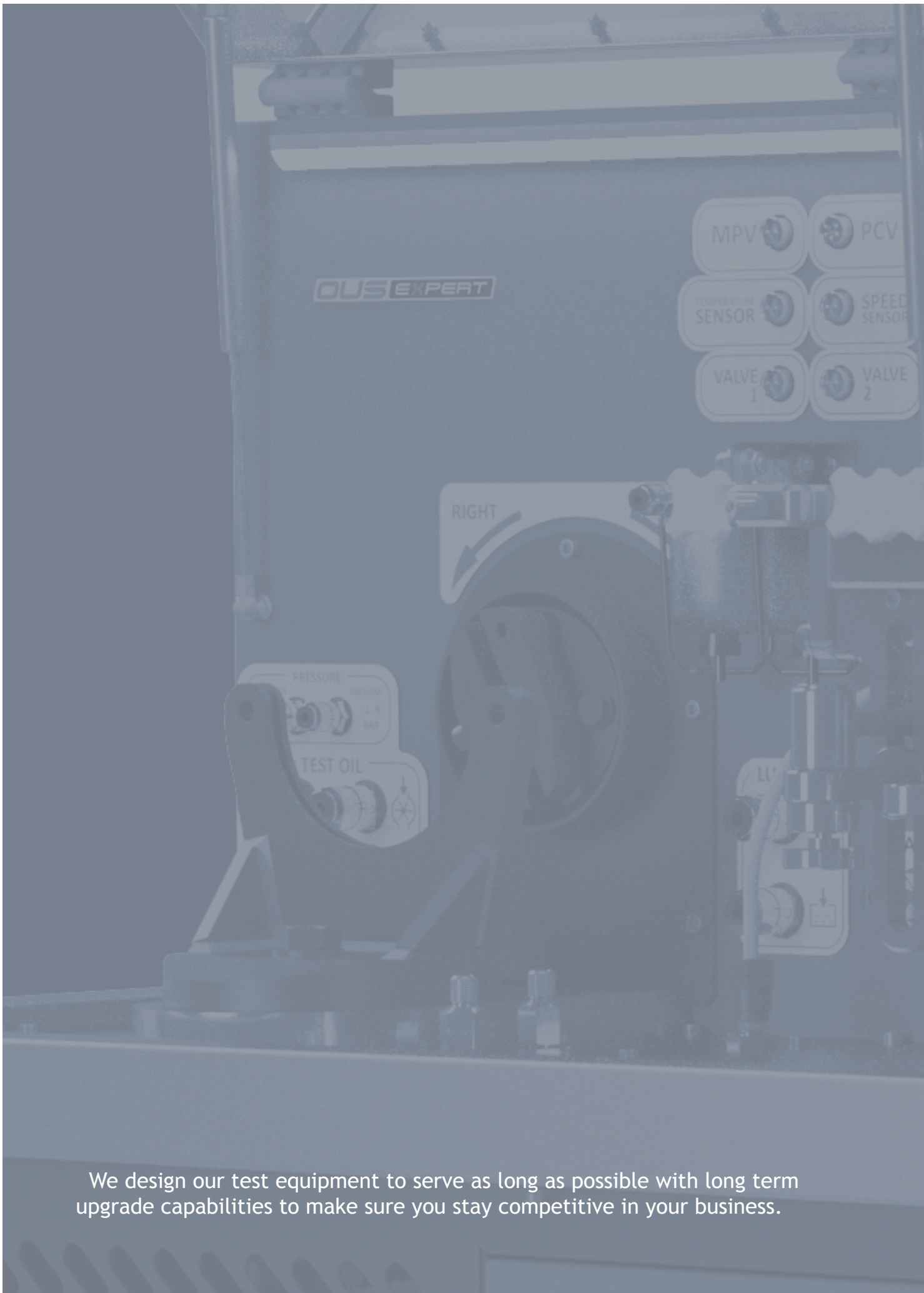
## ELECTRONIC EQUIPMENT

CRI/CRIN Special Set .....	32
Piezo Tester .....	34
Denso orifice Tester .....	35
BIP Tester .....	35
EPS Coding Set .....	36
Calibration Kit .....	36
PRE Tester .....	37
PRE Tester 2 .....	37

Zexel EDC Controller .....	38
PE/VE EDC Controller .....	38

## TOOLS

CR Injector Clamping Tool .....	40
CR pump Clamping Tool .....	41
UI/UP Clamping Tool .....	42
Inline Pumps Clamping Tool .....	43
Washing Tank .....	44
Socket Bit Set .....	44
CR Injector Hydraulic Remover .....	45
CP1/CP3 Tool Set .....	45
Nozzle Nut Injector Tools .....	46
Nozzle Nut UI Tools .....	47
EPS Pedestal .....	47
Workbench .....	48
Accessories Rack .....	49



We design our test equipment to serve as long as possible with long term upgrade capabilities to make sure you stay competitive in your business.

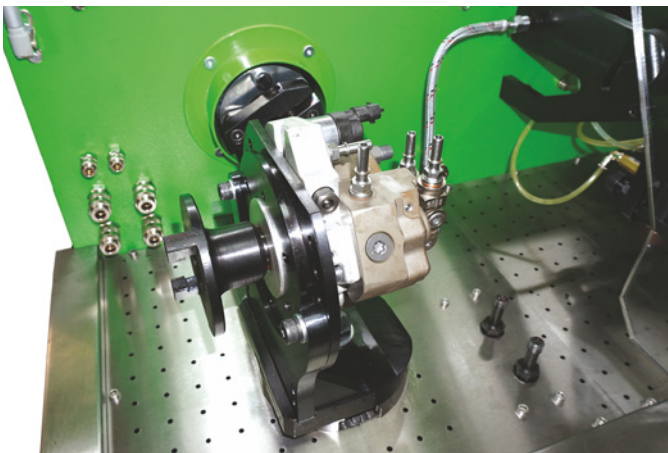
# TEST BENCHES



# FEATURES

## DESIGN

- Compact design of test benches
- Separate comfortable chambers for testing the pumps and injectors with lightweight protective cover
- Convenient and easy access to the tested pumps and injectors
- Pump flange holder rotates by 360° for easy assembly and disassembly of the couplings
- Adapter flange rotates to get optimal orientation of the CR pump



- Drawers for storage of Test bench accessories and special tools
- Pull-out shelf for a computer keyboard and mouse
- Air gun is located in the test chamber
- Retractable Test Oil tank for it easy filling, emptying and cleaning
- Separate tank (3 liters capacity) for dirty Test oil



- Two fuel supply pumps with total capacity of over 300 liters / hour for pumps testing

- Automatic regulation of the test oil supply pressure in the range of 0 ... 6 bar
- Automatic vacuum creation in the back leak channel during the coding of DELPHI injectors
- Separate cooling circuit of the Main Rail to extend the life of a Pressure Control Valves (PCV)



- User friendly Windows-based multilingual interface
- Detailed guideline of installation and testing procedures
- Full digital control over test bench functions
- Constant updates of database

## MEASUREMENT SYSTEMS

- Electronic measuring system to test injectors with a measuring range of 0.1 ... 360 mm<sup>3</sup> / stroke
- Flowmeter to test pumps with a measuring range 2 ... 500 l / h
- High pressure sensor with a range of 100 ... 2500 bar
- Digital test oil pressure sensors:
  - To measure the pressure / vacuum of test oil between the tank and CR pump with a range of -1..9 bar
  - To measure the Transfer pump pressure of CR pump with a range of 0..16 bar
  - To measure the pressure / vacuum of CR pump with a range of -1..9 bar

## PUMP TESTING FEATURES

Special unique detailed pump testing procedure that allows to easily find failed components:

1. Pump installation and filling procedure
2. Lapping process
3. Check for leaks and abnormal noise





4. Transfer pump test
5. Venturi valve test (for DELPHI pumps only)
6. Cranking mode
7. Pumping element test
8. Stepwise-increasing pressure test
9. Comparative performance test
10. Volume Control Valve test (for all type of MPV (ZME), IMV, VCV, SCV)
11. Pressure limiter test (for DELPHI & NEW CONTINENTAL pumps only)
12. Absolute performance test according to the original test parameters
13. Zero delivery test
14. Pressure Control Valve test (for BOSCH CP1S & OLD SIEMENS pumps only)

## INJECTOR TESTING FEATURES

- Easy and comfortable installation and fixing of CRI and CRIN injectors, PCVs and rails to the injectors holder with special adapters



- Only one universal nozzle adapter is suitable for all nozzle tip diameters and for all types of nozzle nuts

- Injector Holder is rotated from the vertical to the horizontal plane with ability to fix in any intermediate position for easy connection of HP pipes, back leak pipes and cables
- Built in response time sensor

## UNIT INJECTOR TESTING FEATURES

- Installation procedures for each type of unit injector and unit pump included in test plans
- Automatic testing process



- Real-time oscillograms of current and internal pressure
- Delphi coding for Volvo and DAF
- Internal pressure measurement for Delphi unit injectors with load cell
- Opening and closing response time measurements
- BIP measurement for Bosch unit injector and unit pump



TEST BENCHES

TD-9100-00



# UNIVERSAL TEST BENCH FOR COMMON RAIL SYSTEMS

## ONYX-IP



**SALES STARTS AT 1/12/2023**



### BASIC FEATURES

- Common rail pumps testing
- Common rail injectors testing
- Bosch electromagnetic injectors IMA coding
- Bosch piezo injectors ISA/IMA coding
- Denso electromagnetic and piezo injectors QR coding
- Siemens/Continental piezo injectors IIC coding
- NOP and MST measuring
- VCC control for CRI 2-18, 2-20.
- VCC and NCC time measurement for CRI 3-25, 3-27 injectors
- I-Art and rail pressure sensors testing
- 4-pin CRIN 4.2 injector testing
- Automatic cooling/heating system for test oil temperature control

### SPECIFICATION

Dimensions	1100 x 683 x 1530
Weight	480 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	11 kW, controlled by inverter
Max high pressure	2700 bar
Supply pressure	0 - 6 bar
Test oil tank	30 l
Lubrication oil tank	5 l (optional)

### OPTIONAL FEATURES

- PCV and RAIL testing
- Delphi C2i/C3i/C4i injectors coding function
- CRIN 4.2 injectors coding function
- Continental PCR5 injectors coding function
- SMART injectors coding function
- Delphi F2P, F2E coding function
- Lube oil system for heavy duty pumps

### INCLUDED ACCESSORIES

- TD-92PS-00 Set of pipes, flanges and couplings for common passenger CR pumps
- TD-92PC-00 Set of cables for CR pumps
- TD-93IS-00 Set of return pipes for CR injectors
- TD-93IC-00 Set of cables for CR injector

# INTRODUCING OUR REVOLUTIONARY NEW ONYX-SERIES PRODUCT



## IT BOASTING AN ARRAY OF IMPRESSIVE FEATURES:

- Enjoy a spacious **+25%** increase in **workspace size**, while simultaneously **reducing workshop space consumption by 23%** compared to the basic 7100 model.
- Experience a powerful **+46%** boost in **motor power**, enabling support for even the most demanding heavy-duty applications.
- Benefit from a substantial **+35%** increase in **working pressure** capacity.
- Direct pipeless injector connection to the rail with the unique injector fast holding system.
- **3X expanded range** of our next-generation **Injection Flow Measurement System (WRFM)**.
- The additional **Injector Backleak Pressure Controller (BLPC)**.
- Unified pump sets are seamlessly compatible with the main 7000-series.
- Built in sensed pumps testing controller (PCU).
- 2-channel simultaneous injector controller for 2-coil injectors, comes CRIN 4.2 coding-ready.
- Full injectors piezo charge profile control.
- Timings measurement system (Delphi SMART, Continental PCRs5 coding-ready)
- EUI/EUP built in support (Mini-cambox ready)
- Enhanced hydraulics filtering for all input connections.
- Rail filters featuring contamination control.
- Freon-free fast-responsive cooling system with constant filtering.
- Easy front access to the basic maintenance components.
- An adjustable monitor holder.
- Fully reworked software includes exciting new features, like additional pump testing automations, free subscription for the remote software and test plans updates, user test plans editor with fast sharing function between community members.

TD-7000-00



# UNIVERSAL TEST BENCH FOR COMMON RAIL SYSTEMS

## EXPERT



### BASIC FEATURES

- Common rail pumps testing
- Common rail injectors testing (up to 6 channels)
- Bosch electromagnetic injectors IMA coding
- Bosch piezo injectors ISA/IMA coding
- Denso electromagnetic and piezo injectors QR coding
- Siemens/Continental piezo injectors IIC coding
- NOP and MST measuring
- I-Art and rail pressure sensors testing
- 4-pin CRIN 4.2 injector testing
- Automatic cooling/heating system for test oil temperature control

### SPECIFICATION

Dimensions	1660 x 683 x 1455
Weight	480 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	7,5 kW, controlled by inverter
Max high pressure	2000 bar / 2500 bar (optional)
Supply pressure	0 - 6 bar
Test oil tank	42 l
Lubrication oil tank	5 l (optional)

### OPTIONAL FEATURES

- PCV and RAIL testing
- Pumps with angle control testing (DHP1.1, HP0, HP5..7, CAT, CP2, CP4E etc)
- Delphi C2i/C3i/C4i coding function
- VCC and NCC time measurement for CRI 3-25, 3-27 injectors
- Lube oil system for heavy duty pumps

### INCLUDED ACCESSORIES

- TD-7000-0xx Set of flanges and couplings for CR pumps
- TD-7000-1xx Set of cables for CR pumps
- TD-7000-2xx Set of pipes for CR injectors
- TD-7000-3xx Set of cables for CR injectors



TD-7100-00



# UNIVERSAL TEST BENCH FOR COMMON RAIL SYSTEMS

## EXPRESS



### BASIC FEATURES

- Common rail pumps testing
- Common rail injectors testing (1 channel)
- Bosch electromagnetic injectors IMA coding
- Bosch piezo injectors ISA/IMA coding
- Denso electromagnetic and piezo injectors QR coding
- Siemens/Continental piezo injectors IIC coding
- NOP and MST measuring
- I-Art and rail pressure sensors testing
- 4-pin CRIN 4.2 injector testing
- Automatic cooling/heating system for test oil temperature control

### OPTIONAL FEATURES

- PCV and RAIL testing
- Pumps with angle control testing (DHP1.1, HP0, HP5..7, CAT, CP2, CP4E etc)
- Delphi C2i/C3i/C4i coding function
- VCC and NCC time measurement for CRI 3-25, 3-27 injectors
- Lube oil system for heavy duty pumps

### SPECIFICATION

Dimensions	1350 x 683 x 1455
Weight	450 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	7,5 kW, controlled by inverter
Max high pressure	2000 bar / 2500 bar (optional)
Supply pressure	0 - 6 bar
Test oil tank	42 l
Lubrication oil tank	5 l (optional)

### INCLUDED ACCESSORIES

- TD-7000-0xx Set of flanges and couplings for CR pumps
- TD-7000-1xx Set of cables for CR pumps
- TD-7100-2xx Set of pipes for CR injectors
- TD-7100-3xx Set of cables for CR injectors



TEST BENCHES



## EXIST



### SPECIFICATION

Dimensions	980 x 683 x 1455
Weight	270 kg Net
Power supply	220V 50/60 Hz, 1 phases
Motor power	2,2 kW, controlled by inverter
Max high pressure	2000 bar / 2500 bar (optional)
Test oil tank	22 l

### INCLUDED ACCESSORIES

- TD-7100-2xx Set of pipes for CR injectors
- TD-7100-3xx Set of cables for CR injectors

### BASIC FEATURES

- Common rail injectors testing (1 channels)
- Delphi C2i/C3i/C4i coding
- Bosch electromagnetic injectors IMA coding
- Bosch piezo injectors ISA/IMA coding
- Denso electromagnetic and piezo injectors QR coding
- Siemens/Continental piezo injectors IIC coding
- NOP and MST measuring
- I-Art and rail pressure sensors testing
- 4-pin CRIN 4.2 injector testing
- Automatic cooling/heating system for test oil temperature control

### OPTIONAL FEATURES

- PCV and RAIL testing
- VCC and NCC time measurement for CRI 3-25, 3-27 injectors



TD-7700-00



# UNIVERSAL TEST BENCH FOR COMMON RAIL INJECTORS

## X-CODE



### BASIC FEATURES

- Common rail injectors testing (4 channels)
- Delphi C2i/C3i/C4i coding
- Bosch electromagnetic injectors IMA coding
- Bosch piezo injectors ISA/IMA coding
- Denso electromagnetic and piezo injectors QR coding
- Siemens/Continental piezo injectors IIC coding
- NOP and MST measuring
- I-Art and rail pressure sensors testing
- 4-pin CRIN 4.2 injector testing
- Automatic cooling/heating system for test oil temperature control

### OPTIONAL FEATURES

- PCV and RAIL testing
- VCC and NCC time measurement for CRI 3-25, 3-27 injectors

### SPECIFICATION

Dimensions	1350 x 683 x 1455
Weight	305 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	3,7 kW, controlled by inverter
Max high pressure	2500 bar
Test oil tank	42 l

### INCLUDED ACCESSORIES

- 4x TD-7100-2xx Set of pipes for CR injectors
- 4x TD-7100-3xx Set of cables for CR injectors





## EXAM



### BASIC FEATURES

- Common rail pumps testing
- Rail pressure sensors testing
- Automatic cooling/heating system for test oil temperature control

### OPTIONAL FEATURES

- PCV and RAIL testing
- Pumps with angle control testing (DHP1.1, HP0, HP5..7, CAT, CP2, CP4E etc)
- Lube oil system for heavy duty pumps

### INCLUDED ACCESSORIES

- TD-7000-0xx Set of flanges and couplings for CR pumps
- TD-7000-1xx Set of cables for CR pumps

### SPECIFICATION

Dimensions	1350 x 683 x 1455
Weight	430 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	7,5 kW, controlled by inverter
Max high pressure	2000 bar / 2500 bar (optional)
Supply pressure	0 - 6 bar
Test oil tank	42 l
Lubrication oil tank	5 l (optional)







### EXTRA

#### BASIC FEATURES

- Common rail pumps testing
- Rail pressure sensors testing
- Automatic cooling/heating system for test oil temperature control
- Lube oil system for heavy duty pumps

#### SPECIFICATION

Dimensions	1060 x 1635 x 1708
Weight	680 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	15 kW, controlled by inverter
Max high pressure	2000 bar / 2500 bar (optional)
Supply pressure	0 - 6 bar
Test oil tank	42 l
Lubrication oil tank	8 l



#### OPTIONAL FEATURES

- Pumps with angle control testing (DHP1.1, HP0, HP5..7, CAT, CP2, CP4E etc)
- PCV and RAIL testing



#### INCLUDED ACCESSORIES

- TD-7500-0xx Set of flanges and couplings for CR pumps
- TD-7500-1xx Set of cables for CR pumps



EXTRA X-UNIT



BASIC FEATURES

- Unit injectors testing
- Unit pumps testing
- Timing and internal pressure measurement for Delphi UI/UP
- Volvo E1, E3, Deere, DAF Euro 5 PLD and SMART Coding
- BIP measurement for Bosch UI/UP
- Siemens piezo UI testing
- Automatic cooling/heating system for test oil temperature control

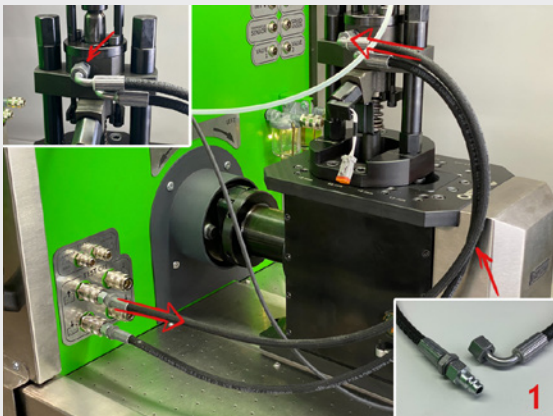
OPTIONAL FEATURES

- Simple Volvo and DAF F2E, F2P Euro 6 Unit Pumps testing
- Scania HPI Unit injectors and control valves testing

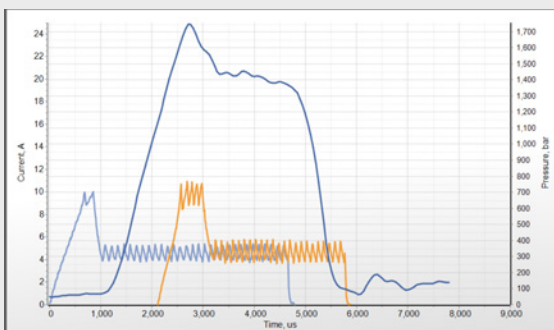
SPECIFICATION

Dimensions	1060 x 1635 x 1708
Weight	740 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	15 kW, controlled by inverter
Supply pressure	0 - 6 bar
Test oil tank	42 l

All mounting instructions are embedded in testplans.



Master receiving real-time oscillograms of current profiles and internal pressure of unit injectors and pumps during the tests. All measurements performing automatically.



INCLUDED ACCESSORIES

- **PL-7600-OXX** Cam box with set of adapters for all types of Bosch and Delphi EUIs and EUPs up to Euro 5

TD-7500-FULL

EXTRA FULL



## UNIVERSAL TEST BENCH FOR UNIT INJECTORS, UNIT PUMPS AND CR PUMPS



### BASIC FEATURES

- Common rail pumps testing
- Unit injectors testing
- Unit pumps testing
- Timing and internal pressure measurement for Delphi UI/UP
- Volvo E1, E3, Deere, DAF Euro 5 PLD and SMART Coding
- BIP measurement for Bosch UI/UP
- Siemens piezo UI testing
- Rail pressure sensors testing
- Automatic cooling/heating system for test oil temperature control
- Lube oil system for heavy duty pumps

### OPTIONAL FEATURES

- PCV and RAIL testing
- Complete Volvo and DAF F2E, F2P Euro 6 Unit Pumps testing
- Scania HPI Unit injectors and control valves testing
- Pumps with angle control testing (DHP1.1, HP0, HP5..7, CAT, CP2, CP4E etc)

### SPECIFICATION

Dimensions	1060 x 1635 x 1708
Weight	680 kg Net
Power supply	380V 50/60 Hz, 3 phases 220V 50/60 Hz, 3 phases (optional)
Motor power	15 kW, controlled by inverter
Max high pressure	2000 bar / 2500 bar (optional)
Supply pressure	0 - 6 bar
Test oil tank	42 l
Lubrication oil tank	8 l

### INCLUDED ACCESSORIES

- **TD-7500-0xx** Set of flanges and couplings for CR pumps
- **TD-7500-1xx** Set of cables for CR pumps
- **PL-7600-0XX** Cam box with set of adapters for all types of Bosch and Delphi EUIs and EUPs up to Euro 5
- Lift trolley for Cam Box



TEST BENCHES

# ACCESSORIES APPLICATION LIST

TD-7000-00  
TD-7100-00

EXPERT  
EXPRESS

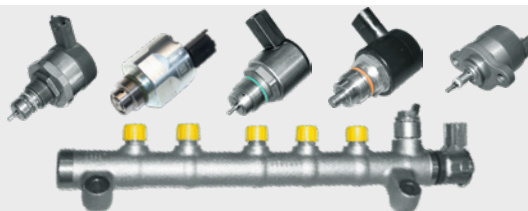
## COMMON APPLICATION

### LUBRICATION OIL SYSTEM

TD-7000-OIL

#### PCV Valves & RAILS

Adapter set for Bosch, Continental & Delphi PCVs.  
Rail holder with caps and pressure sensor cables.



TD-7000-PCV

#### OLDHAM COUPLINGS KIT

Coupling with inserts for Bosch CP1K, CP3.2, CP4.1, Siemens, Continental, Delphi DFP3, Denso HP3 pumps with splined shaft.



TD-7000-OLDHAM

#### RENAULT K9K

Flanges and additional coupling for Bosch CP4.1, Delphi DFP1, DFP3, Siemens & Continental K9K pumps with side mounting.



TD-7000-K9K

#### PUMP CONTROL UNIT *(page 30)*

TD-7000-PCU

#### MASTER PUMP SET 2000 BAR

TD-7000-MPS20

#### MASTER PUMP SET 2500 BAR

TD-7000-MPS25

#### 2500 BAR UPGRADE *(only in preorder as the PLUS model)*

TD-7000-2500

#### ASSECCORIES RACK *(page 49)*

TD-7000-RACK

## CR INJECTORS

#### ADAPTERS for CRIN INJECTORS *(page 28)*

TD-7000-CRIN

#### DELPHI C2i/C3i/C4i CODING

TD-7000-C3i

#### SIEMENS/CONTINENTAL ADVANCED HOLDERS KIT



TD-7000-CONTI

#### SPECIFIC INJECTOR CABLES

TD-7000-INJ

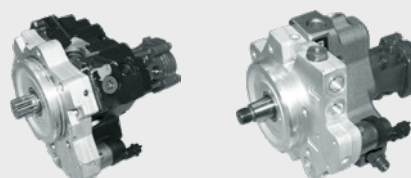
## BOSCH CR PUMPS

#### BOSCH CP2M2 RENAULT PREMIUM PUMPS *(TD-7000/7500-OIL, TD-7000-PCU req.)*



TD-7000-CP2

#### BOSCH CP3.4 MAN PUMPS *(TD-7000-OIL req.)*



TD-7000-CP3.4

TD-7200-00	TD-7300-00	TD-7700-00	TD-7500-CRP	TD-7500-UNIT	TD-7500-FULL
------------	------------	------------	-------------	--------------	--------------

EXAM	EXIST	X-CODE	EXTRA	X-UNIT	EXTRA FULL
------	-------	--------	-------	--------	------------

TD-7000-OIL	-	-	included	-	included
-------------	---	---	----------	---	----------

TD-7200-PCV	TD-7300-PCV	TD-7700-PCV	TD-7500-PCV	-	TD-7500-PCV
-------------	-------------	-------------	-------------	---	-------------

TD-7000-OLDHAM	-	-	TD-7500-OLDHAM	-	TD-7500-OLDHAM
----------------	---	---	----------------	---	----------------

TD-7000-K9K	-	-	TD-7500-K9K	-	TD-7500-K9K
-------------	---	---	-------------	---	-------------

TD-7000-PCU	-	-	TD-7000-PCU	-	TD-7000-PCU
-------------	---	---	-------------	---	-------------

-	-	-	-	-	-
---	---	---	---	---	---

TD-7200-2500	TD-7300-2500	-	TD-7500-2500	-	TD-7500-2500
--------------	--------------	---	--------------	---	--------------

TD-7000-RACK	TD-7000-RACK	TD-7000-RACK	TD-7000-RACK	-	TD-7000-RACK
--------------	--------------	--------------	--------------	---	--------------

-	TD-7000-CRIN	TD-7000-CRIN	-	-	-
---	--------------	--------------	---	---	---

-	included	included	-	-	-
---	----------	----------	---	---	---

-	TD-7000-CONTI	TD-7000-CONTI	-	-	-
---	---------------	---------------	---	---	---

-	TD-7000-INJ	TD-7000-INJ	-	-	-
---	-------------	-------------	---	---	---

TD-7000-CP2	-	-	TD-7000-CP2	-	TD-7000-CP2
-------------	---	---	-------------	---	-------------

TD-7000-CP3.4	-	-	TD-7000-CP3.4	-	TD-7000-CP3.4
---------------	---	---	---------------	---	---------------

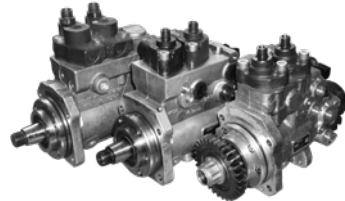
# ACCESSORIES APPLICATION LIST

TD-7000-00  
TD-7100-00

EXPERT  
EXPRESS

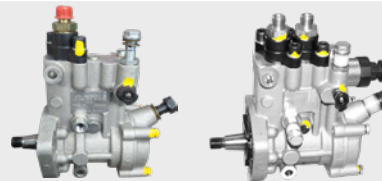
## BOSCH CR PUMPS

**BOSCH CPN5S2/140-CPN5S2/340 PUMPS**  
Accessories set for 140 and 340-series pumps  
*(TD-7000/7500-OIL req.)*



TD-7000-CPN5

**CHINA BOSCH CB 18, CB 08 PUMPS**  
*(TD-7000/7500-OIL, TD-7000-OLDHAM req.)*



TD-7000-CB18

**CHINA BOSCH CB 28 PUMPS**  
*(TD-7000-OIL req.)*



TD-7000-CB28

**BOSCH CP4E PUMPS**  
*(TD-7000-PCU req.)*



TD-7000-CP4E

## DENSO CR PUMPS

**DENSO HP0 PUMPS**  
*(TD-7000/7500-OIL and TD-7000-PCU req.)*



TD-7000-HP0

**DENSO HP2 PUMPS**



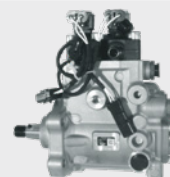
TD-7000-HP2

**DENSO HP5 PUMPS**  
*(TD-7000-PCU req.)*



TD-7000-HP5

**DENSO HP6 PUMPS**  
*(TD-7000-PCU req.)*



TD-7000-HP6

**DENSO HP7 PUMPS**  
*(TD-7000-PCU req.)*



TD-7000-HP7

TD-7200-00	TD-7300-00	TD-7700-00	TD-7500-CRP	TD-7500-UNIT	TD-7500-FULL
------------	------------	------------	-------------	--------------	--------------

EXAM	EXIST	X-CODE	EXTRA	X-UNIT	EXTRA FULL
------	-------	--------	-------	--------	------------

TD-7000-CPN5	-	-	-	-	-
TD-7000-CB18	-	-	TD-7000-CB18	-	TD-7000-CB18
TD-7000-CB28	-	-	TD-7000-CB28	-	TD-7000-CB28
TD-7000-CP4E	-	-	TD-7000-CP4E	-	TD-7000-CP4E
TD-7000-HP0	-	-	TD-7000-HP0	-	TD-7000-HP0
TD-7000-HP2	-	-	TD-7000-HP2	-	TD-7000-HP2
TD-7000-HP5	-	-	TD-7000-HP5	-	TD-7000-HP5
TD-7000-HP6	-	-	TD-7000-HP6	-	TD-7000-HP6
TD-7000-HP7	-	-	TD-7000-HP7	-	TD-7000-HP7

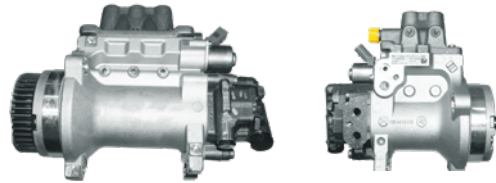
# ACCESSORIES APPLICATION LIST

TD-7000-00  
TD-7100-00

EXPERT  
EXPRESS

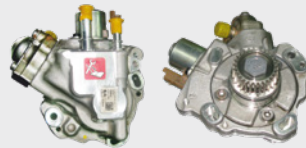
## DELPHI CR PUMPS

DELPHI DFP5/DFP8 PUMPS  
*(TD-7000/7500-OIL req.)*



TD-7000-DFP8

DELPHI DFP6 PUMPS



TD-7000-DFP6

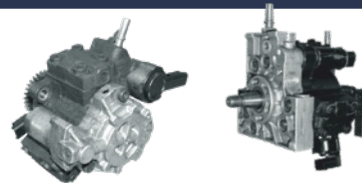
DELPHI DFP1 SSANGYONG REXTON  
without front bearing



TD-7000-REXTON

## CONTINENTAL / SIEMENS CR PUMPS

LAND ROVER V6/V8 PUMPS



TD-7000-ROVER

FORD F-250, F-350, F-450, F-550 Super Duty  
PUMPS



TD-7500-F250

CONTINENTAL DHP 1.1 PUMP  
*(TD-7000-PCU req.)*



TD-7000-DHP1.1

## CATERPILLAR CR PUMP

CATERPILLAR CR PUMP  
*(TD-7000-PCU req.)*



TD-7500-CAT

## ULTRA HEAVY DUTY CR PUMPS

BOSCH CP9V4 PUMPS





TD-7200-00	TD-7300-00	TD-7700-00	TD-7500-CRP	TD-7500-UNIT	TD-7500-FULL
------------	------------	------------	-------------	--------------	--------------

EXAM	EXIST	X-CODE	EXTRA	X-UNIT	EXTRA FULL
------	-------	--------	-------	--------	------------



TD-7000-DFP8	-	-	TD-7000-DFP8	-	TD-7000-DFP8
--------------	---	---	--------------	---	--------------

TD-7000-DFP6	-	-	TD-7000-DFP6	-	TD-7000-DFP6
--------------	---	---	--------------	---	--------------

TD-7000-REXTON	-	-	TD-7000-REXTON	-	TD-7000-REXTON
----------------	---	---	----------------	---	----------------



TD-7000-ROVER	-	-	TD-7000-ROVER	-	
---------------	---	---	---------------	---	--

TD-7500-F250	-	-	TD-7500-F250	-	
--------------	---	---	--------------	---	--

TD-7000-DHP1.1	-	-	TD-7000-DHP1.1	-	TD-7000-DHP1.1
----------------	---	---	----------------	---	----------------



TD-7500-CAT	-	-	TD-7500-CAT	-	TD-7500-CAT
-------------	---	---	-------------	---	-------------



-	-	-	TD-7500-CP9V4	-	TD-7500-CP9V4
---	---	---	---------------	---	---------------

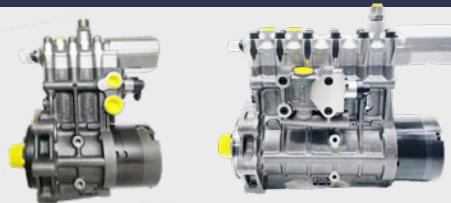
# ACCESSORIES APPLICATION LIST

TD-7000-00  
TD-7100-00

EXPERT  
EXPRESS

## ULTRA HEAVY DUTY CR PUMPS

BOSCH CP9L2-CP9L5 CR PUMPS



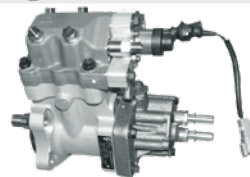
BOSCH CPN5S2/140-CPN5S2/490 PUMPS



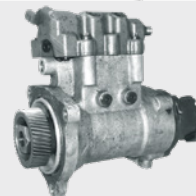
BOSCH CP2, CPN2S4 PUMPS



CUMMINS CR PUMPS



SCANIA/CUMMINS XPI PUMPS



YZTA CR PUMPS



## UNITED KITS - The MOST POPULAR CR TRUCK PUMPS

BOSCH CP2M2, CP3.4, CPN5, DENSO HP0, CUMMINS PUMPS

TD-7000-UNITED

UNIT INJECTORS & UNIT PUMPS (EUI/EUP)

X-UNIT OPTIONAL KITS

X15 EURO 6 CAMBOX KIT *(TD-7000-PCU req.) (page 30)*

PL-70C1-00

X10 VW CAMBOX KIT *(TD-7000-PCU req.) (page 30)*

PL-70C2-00

## RETROFITS (FOR UPDATING OLD TEST BENCHES)

SECOND CHANNEL AND PRESSURE SENSOR CHECK RETROFITTING KIT

TD-70RF-42

TD-7200-00	TD-7300-00	TD-7700-00	TD-7500-CRP	TD-7500-UNIT	TD-7500-FULL
------------	------------	------------	-------------	--------------	--------------

EXAM	EXIST	X-CODE	EXTRA	X-UNIT	EXTRA FULL
------	-------	--------	-------	--------	------------

-	-	-	TD-7500-CP9L	-	TD-7500-CP9L
-	-	-	TD-7500-CPN5	-	TD-7500-CPN5
-	-	-	TD-7500-CP2	-	TD-7500-CP2
-	-	-	TD-7500-CUMMINS	-	TD-7500-CUMMINS
-	-	-	TD-7500-S-XPI	-	TD-7500-S-XPI
-	-	-	TD-7500-YZTA	-	TD-7500-YZTA
TD-7000-UNITED	-	-	TD-7500-UNITED	-	TD-7500-UNITED
-	-	-	-	TD-7600-OPT	TD-7600-OPT
PL-70C1-00	-	-	PL-70C1-00	-	-
-	-	-	PL-70C2-00	-	-
-	TD-70RF-42	-	-	-	-

# CR INJECTOR ADAPTERS



▶ **AL0120-006** 

Adapter for MB, MITSUBISHI FUSO  
0 445 120 006, 058, 109, 464, 466, 467..  
Plate 26 mm

▶ **AL0120-007** 

Adapter for IVECO, CASE, MAN, DAF,  
NEW HOLLAND, CUMMINS, DONGFENG,  
VW, FORD CARGO, TATA  
0 445 120 007, 018, 028, 032, 046, 054, 057..

▶ **AL0120-019** 

Adapter for RENAULT PREMIUM,  
DONGFENG, MAZ, LiaZ, MZKT, URAL, YAMZ  
0 445 120 003, 004, 009, 010, 014, 015, 019,  
020, 084, 085, 106, 142, 232, 309,310..

▶ **AL0120-025** 

Adapter for FORD CARGO  
0 445 120 025, 116, 135, 168, 405, 406, 500

▶ **AL0120-044** 

Adapter for MAN, LIEBHERR, KOEL  
0 445 120 044, 024, 053, 055, 056, 068,  
154, 196, 203, 442, 534

▶ **AL0120-045** 


Adapter for MAN, CNHTC  
0 445 120 026, 031, 045, 098, 099, 105,  
147, 148, 162, 186, 368, 441, 484, 491, 578..

▶ **AL0120-063** 

Adapter for MASSEY FERGUSON, VALTRA,  
AGCO, FENDT, SISU  
0 445 120 063, 340

▶ **AL0120-066** 

Adapter for VOLVO PENTA & CE, DEUTZ  
0 445 120 066, 067, 470  
Plate 15 mm

▶ **AL0120-074** 

Adapter for RENAULT, VOLVO, DEUTZ,  
FAW, FENDT, YUCHAI, FOTON, WEICHAI,  
CAMC, SDEC, TAFE  
0 445 120 064, 074, 117, 136, 137, 138, 160..

▶ **AL0120-078** 

Adapter for FAW, XICHA, WUXI SIDA  
0 445 120 078, 124, 247, 262, 263, 323, 378,  
393, 395, 396, 458

▶ **AL0120-086** 

Adapter for HOWO, FOTON, JAC, WEICHAI,  
SHAANXI  
0 445 120 086, 087, 088, 127, 166, 265,  
266, 389, 391, 412, 462, 474, 524, 526, 527..

▶ **AL0120-157** 

Adapter for IVECO, CASE, NEW HOLLAND,  
FIAT, HEULIEZ  
0 445 120 092, 157, 279, 282  
Plate 26 mm

▶ **AL0120-178** 

Adapter for HOWO, FOTON, ASHOK,  
LEYLAND, YAMZ, MAZ, GAZ  
0 445 120 178, 233, 235, 449, 460, 472

▶ **AL0120-218** 

Adapter for MAN, VOLVO, LIEBHERR,  
MTU, NAVISTAR, FORD CARGO, AGRALE,  
NEOPLAN, DAEWOO, KING LONG, YUCHAI  
0 445 120 030, 061, 040, 041, 083, 218, 219..

▶ **AL0120-236** 

Adapter for CASE, NEW HOLLAND,  
CUMMINS, FORD CARGO, VW  
0 445 120 029, 035, 037, 038, 070, 094, 097,  
112, 115, 120, 121, 122, 125, 236, 237, 240..

▶ **AL0120-366** 

Adapter for CAT, PERKINS, YUCHAI,  
SFH PT  
0 445 120 347, 348, 360, 361, 366, 371, 372,  
382, 399, 400, 402, 403, 414, 417, 482, 498..

▶ **AL0120-MTU** 

Adapter for MTU  
F 00B L0J 005, 011, 012,  
F 00B J00 015, 057  
F 00B J10 008, 009, 012

▶ **AL0124-036** 

Adapter for IVECO, CASE, NEW HOLLAND,  
FPT  
0 445 124 014, 015, 027, 030, 035, 036, 037

▶ **AL9500-121** 

Adapter for Denso KOMATSU  
095000-056#, -080#, -121#, -607#  
Plate 20 mm

▶ **AL9500-541** 

Adapter for Denso JOHN DEERE  
095000-054#, -055#, -515#, -516#, -756#,  
-082#, -083#

TEST BENCHES

## ▶ AL9500-545

Adapter for Denso MITSUBISHI FUSO  
095000-545#  
Plate 20 mm



## ▶ AL9500-622

Adapter for Denso DONGFENG, XICHA, FAW  
095000-622#



## ▶ AL9500-648

Adapter for Denso JOHN DEERE  
095000-648#, -647#, -649#, -505#,  
RE516540, RE507860, RE519730



## ▶ AL9500-873

Adapter for Denso SHANGHAI  
095000-873#, D28-001-906+B



## ▶ AL29505-040

Adapter for Denso CAT, PERKINS  
3707282, 295050-040#, T4-09982, 20R-2478  
Plate 16 mm



## ▶ AL29505-169

Adapter for Denso VOLVO EICHER  
295050-112#, 295050-135#, 295050-169#,  
ID309781, 21896868, 21896867



## ▶ AL29505-714

Adapter for Denso HYUNDAI  
095000-714#, 295700-0220, 33800-5200#  
Plate 16 mm



## ▶ AL-TT-884

Adapter for Delphi TATA  
28338840



## ▶ AL-CAT-A743

Adapter for CAT PERKINS  
2897500, 2572500, 2664434, 2768280,  
2820480, 2939580, 3211080, 2645A743..  
Plate 14 mm



## ▶ AL-F2E

Adapter set for Delphi F2E VOLVO Euro VI  
22282198, 22282199, 22187569, 22301418,  
85013800, 85013801



## ▶ AL-FORD-F150

Adapter for Siemens FORD F-150/550  
1875072C91



## ▶ AL-L'ORANGE

Adapter set for L'ORANGE  
VTO-6166W48B



## ▶ AL-MB-OM471

Adapter set for Bosch MB ACTROS, SETRA,  
MITSUBISHI FUSO, NISSAN 4-pin CRIN 4.2  
0 445 120 104, 194, 195, 207, 270, 271, 283..  
Plate 30 mm



## ▶ AL-MB-OM946

Adapter for Delphi MB ATEGO Euro VI  
BEBJ1C00101, BEBJ1C01001, A9360702187..  
Plate 32 mm



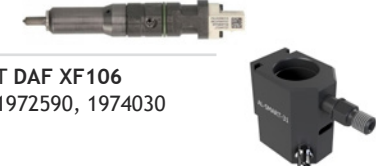
## ▶ AL-SCANIA

Adapter for SCANIA XPI  
2872405, 2031836, 2057401, 2086663,  
50782009, 0575176, 0575177, 0984301..



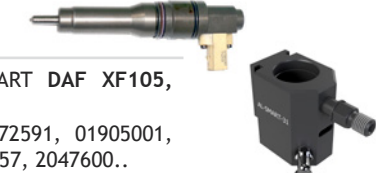
## ▶ AL-SMART-28

Adapter for Delphi SMART DAF XF106  
BEBJ1D01101, 1925658, 1972590, 1974030



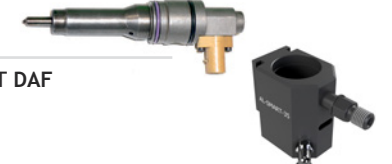
## ▶ AL-SMART-31

Adapter for Delphi SMART DAF XF105,  
XF106  
1725282, 1820820, 1972591, 01905001,  
01905002, 1846419, 1925657, 2047600..



## ▶ AL-SMART-35

Adapter for Delphi SMART DAF  
163584



## ▶ AL-SMART-30

Adapter for Delphi SMART DAF CF75  
BEBJ1A01101, 1667208, 1744859, 1826007



## ▶ ALK05-194

Adapter for IVECO, CASE,  
NEW HOLLAND  
Y 431 K05 194



## ▶ AL0120-MIRL

Mini-Rail for cargo applications. Designed  
for additional high pressure deviation  
compensation. Can be used together with  
flexible pipes from basic set.



## ▶ AL0120-M

MAIN INJECTOR HOLDER  
For plates of adapters.



TD-70C1-00



## X17 CAM BOX EURO 6 SET



Require **TD-7000-PCU** controller to operate EUI/EUP

### BASIC FEATURES

- Pump section of Volvo F2E unit injectors testing
- DAF F2P unit pumps testing
- Easy installation at Exam, Express or Expert test benches

### INCLUDED ACCESSORIES

- **TD-70C1-02** DELPHI F2P DAF test kit
- **TD-70C1-03** DELPHI F2E VOLVO test kit
- All necessary cables and pipes

TD-70C2-00



## X10 CAM BOX VW SET



Require **TD-7000-PCU** controller to operate EUI/EUP

### BASIC FEATURES

- Old and new-type of Bosch 720-series VW unit injectors testing
- Easy installation Express or Expert test benches

### INCLUDED ACCESSORIES

- **TD-70C2-02** BOSCH 720-Series VW test kit 1
- **TD-70C2-03** BOSCH 720-Series VW test kit 2
- All necessary cables and pipes

TD-7000-PCU



## PUMP CONTROL UNIT

Special controller for operating modern CR pumps that require synchronous control of valves according to the camshaft position:

- Bosch CP2, CP4E pumps
- Denso HP0, HP5, HP6, HP7 pumps
- Continental DHP1.1 pump
- Caterpillar pump
- Bosch and Delphi EUI/EUPs



# ELECTRONIC EQUIPMENT

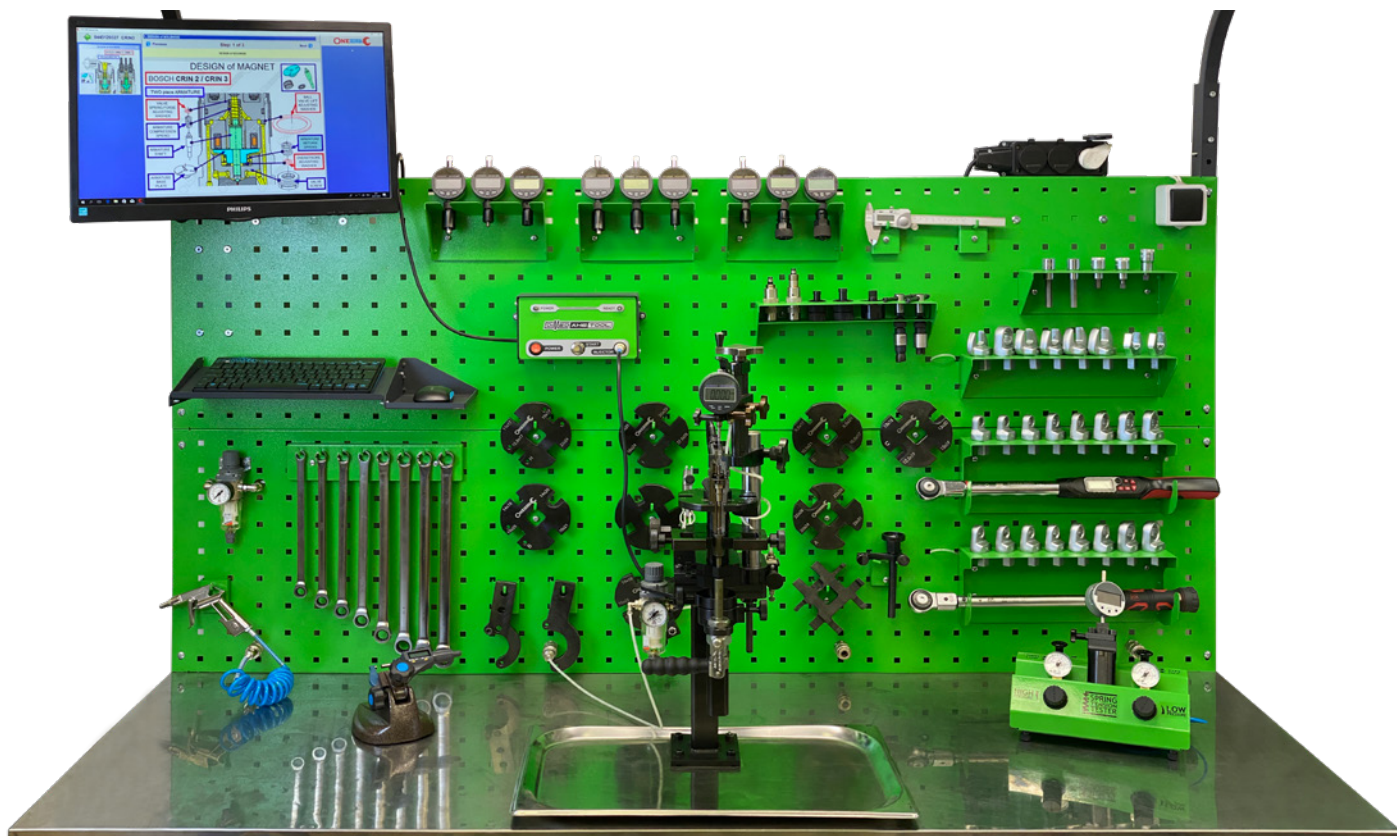




# CRI/CRIN SPECIAL SET

Special set for assembly and measuring of electromagnetic coil type CR injectors.

Allows the user to organize repairing workspace in short time. Include most of necessary tools and software that helps entry level masters to receive basic skills without additional training.



## INCLUDED TOOLS:

### ► TD-1000-CR

Common rail injector clamping device



### ► TD-3002-CR

The measuring console with pneumatic damping



### ► TD-30SW-00

CRI-CRIN software with key



### ► TD-30SM-00

Control Unit "AHE Tester"



ELECTRONIC EQUIPMENT



## ▶ TD-30SA-00

The set of measuring adapters with digital gauges for Bosch injectors



## ▶ TD-30RS-00

Set of ring spanners



## ▶ TD-0943/TD-0944

Control valves removers



## ▶ TD-0016

Denso CR injector valve remover



## ▶ TD-30ST-00

Spring tension tester



## ▶ TD-30RA-00

Set of wrench tools



## ▶ TD-30CV-00

Set of bits for control valves



## ▶ TD-30UL-00

Long wrench set



## ▶ TD-30DC-00

Digital caliper & micrometer



## ▶ TD-30TW-00

The angle digital and mechanical torque wrenches



## ▶ TD-30IT-00

Set of open ended insert tools



## ▶ TD-0948/TD-0949

Fiber insert tools



## ▶ TD-0028

Denso armature stroke tool



We strongly recommend to use it together with the workbench **TD-0101-WB** for achieve maximum ergonomics at the workplace.

This set not include PC. You can connect it to the testbench or any Windows PC/Laptop.



# PIEZO TESTER



A set of tools for comprehensive electrical and mechanical testing of all types of piezo injectors. Detection of faulty/worn out piezo actuators.

This set allows you to make full electrical/mechanical diagnostic of any piezo actuator.

## BASIC FEATURES

- PC-controlled tester with multilingual software, friendly interface, graphic measurement representation and report saving
- Wireless micrometer for precise stroke measurement
- Additional holding plates for Siemens/Continental injectors
- Tools for tightening Siemens injectors
- Tools for measuring actuator stroke
- Precise tuning of Continental actuator piston clearance during assemble procedure
- Direct measurement of piezo actuator stroke for all Continental and Bosch piezo injectors
- Measuring capacitance of piezo actuators
- Measuring internal resistance of piezo actuators
- Making high voltage insulation test

## SPECIFICATION

Dimensions	300x180x180 mm
Weight	7 kg Netto
Power supply	220V 50/60 Hz, 1 phase
Air supply pressure	6-8 bar
Internal pressure regulator	5 bar
Capacitance metering range	0.5...5 uF
High voltage for insulation test	400 V
Internal resistance meter	0 ... 2 MOhm
Stroke measure	wireless gauge with 1 mkm resolution

ELECTRONIC EQUIPMENT

## INCLUDED ACCESSORIES

- Piezo tester
- Digital wireless gauge
- Windows-compatible software
- Cables for injectors connection
- Pipes for connection of the tester and injectors
- Additional plates for TD-1000-CR clamping device
- S25, S27 tools for tightening Siemens injectors
- Siemens valve removing tool
- Bosch/Siemens stroke measuring adapter

Stroke measuring procedure shows physical conditions of piezo stack.

Electrical testing procedures of capacitance measuring an internal resistance measuring between pins and body are fully automatic. Results saving to the archive and can be printed in any time.



# DENSO ORIFICE TESTER



## SPECIFICATION

Dimensions	229x125x180 mm
Weight	2,5 kg Net
Power supply	220V 50/60 Hz, 1 phase
Air supply pressure	6-8 bar

Orifice tester helps to select suitable plates by comparing them with the original one.

G2 and G3 Denso orifice plates have similar design. Each plate have two orifices that have specified dimensions for each part number of injector.

It use air instead of test oil for testing so this process is clean and fast.



# BIP TESTER



## SPECIFICATION

Dimensions	229x125x180 mm
Weight	2,5 kg Net
Power supply	220V 50/60 Hz, 1 phase
High voltage for insulation test	400 V

## BASIC FEATURES

Special universal tool to support the process of adjusting and monitoring the working clearances and spring stiffness in the solenoid valves of unit injectors and unit pumps.

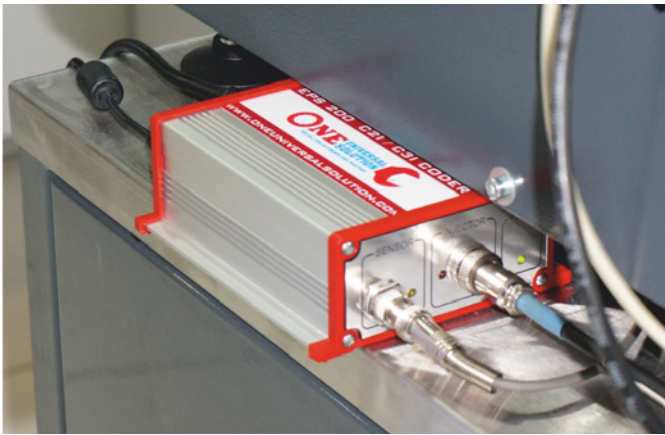
It provides electrical BIP measurements and allow you to adjust valve clearance and determine the degree of wear of parts without installing them on a test bench.

The tester has a complete set of cables required for any application.

- Touch screen with user friendly interface and graphic measurement representation
- Database of Bosch, Delphi unit injectors and unit pumps
- User test plans editor
- Engineering mode
- Short-circuited or broken coil detection
- High voltage insulation test



# EPS CODING SET



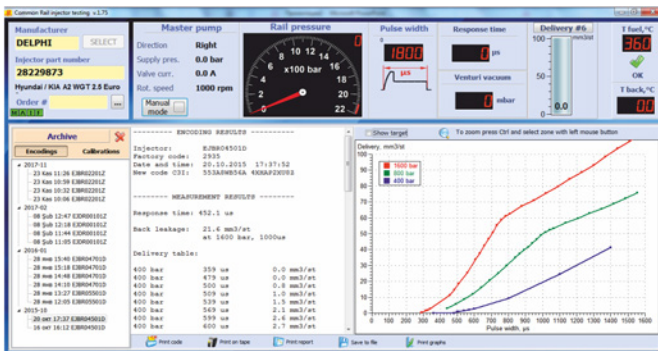
A set of tools for coding Delphi C2i, C3i and C4i injectors on Bosch EPS-200/205 test benches.

It allows you to perform same coding procedure as on our test benches. All functions of the EPS test bench are controlled automatically via the software.

We strongly recommend to use it together with the pedestal **TD-0101-EPS205** for achieve maximum ergonomics and additional cooling for the test bench.

## INCLUDED ACCESSORIES

- Coder
- Special software
- Single-channel injector holder
- Response time sensor
- Cables for Delphi injector



ELECTRONIC EQUIPMENT

# CALIBRATION KIT



Special set for test benches maintenance. Allows to check all measurement units.

## BASIC FEATURES

- High pressure sensors check up to 2200 bar
- Low pressure sensors check up to 25 bar
- Temperature sensors check
- Flow measurement control through the digital flow meter or glass beaker.

## INCLUDED ACCESSORIES

- Calibration tool
- High-precision pressure sensors (with metrology certificates on special order)
- High-precision flow meter (with metrology certificates on special order)
- All necessary cables

TD-3000-PRE



## PRE TESTER



A device for preliminary testing of injectors.

### BASIC FEATURES

- Pulse generator for electromagnetic and piezo injectors
- Current and pulse length adjustment
- Manual and/or automatic pressure-controlled activation

TD-30PR-00



## PRE TESTER 2



The next-generation device facilitates fast and fully automated preliminary testing of injectors.

It is specifically designed to replace the traditional hand pump's mechanical gauge.

Suitable for all applications:

- CR injectors
- Unit injectors & unit pumps
- Traditional injectors

### BASIC FEATURES

- Determination of the nozzle opening pressure
- Leak test (static leakage of the injector)
- Automatic detection of short circuits, coil breaks, low capacity for piezo, and short to the body
- Built in pressure sensor
- An automatic mode for generating pulses based on threshold pressure
- Automatic detection of the injector connection
- Automatic detection of the type of connected injector - piezo or electromagnetic
- Automatic detection of the polarity of the piezo injector
- The ability to update software online via PC software using Bluetooth or USB connection
- Information displayed on a 3.2" color screen, with control provided by an encoder
- The ability to print reports via software on a PC

### INCLUDED ACCESSORIES

- Tester with power adapter
- PC Software
- CR Injector cables set
- Hand pump (optional)



# ZEXEL EDC CONTROLLER



A device for diagnosing distribution type high-pressure fuel pumps of vehicles equipped with an inductive or resistive sensor.

## BASIC FEATURES

- Control of the control lever position
- Display of the throttle position sensor voltage
- Display of the fuel temperature
- Display of the control & timing solenoid coil current
- Smooth adjustment of the lead angle
- Starting the engine on a car with installed pump
- Work on a PC through the USB or Wi-Fi interface
- Plotting the control lever position graphs



# PE/VE EDC CONTROLLER



A device for diagnosing in-line fuel pumps of the PE type, in-line fuel pumps of the Yaroslavl Motor Factory (YZ) and distribution fuel pumps of the VE type, equipped with an inductive or resistive sensor.

## BASIC FEATURES

- Control of the control lever position
- Display of the throttle position sensor voltage
- Display of VE type pump fuel temperature
- Display of the control & timing solenoid coil current
- Smooth adjustment of the VE type pump lead angle
- Timing rail control for PE type pumps
- Starting the engine on a vehicle with VE type pump
- Express testing of the control lever for YZ type pumps
- Setting the position of the electromagnet on the YZ type Pump cover
- Work on a PC through the USB or Wi-Fi interface

# TOOLS





# CR INJECTORS CLAMPING TOOL



Original design that become a standard all around the world.

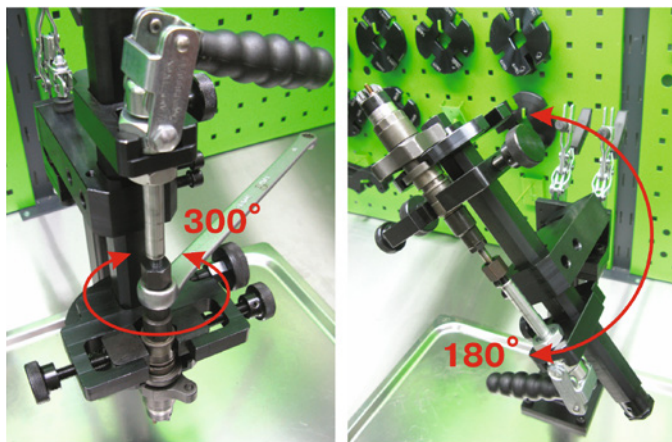
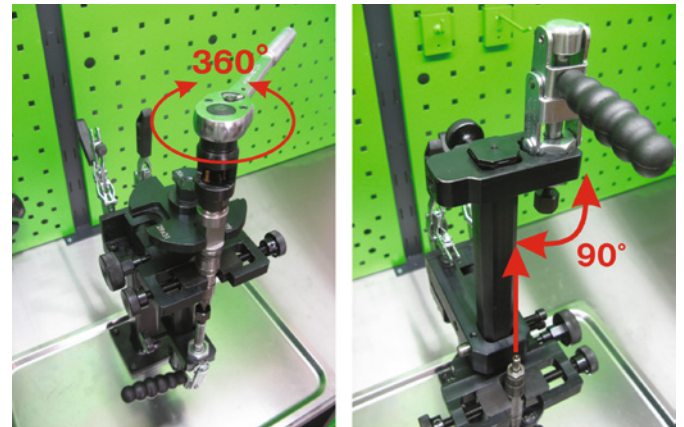
Master can perform all necessary operations & measurements at single device.

## BASIC FEATURES

- Reliable fixing of injector:  
Axial clamp fixing & Radial vice fixing
- 300° of free working space around of nozzle nut
- Vertical shaft rotates on 180°
- 360° of free working space around of solenoid
- Axis slide assembly turns on 90° for easy nozzle needle lift measurement
- Nozzle needle lift measurement
- Ball valve lift measurement
- Magnetic gap measurement
- Removable Rod of Vertical Shaft for measuring the dynamic lift of Ball Valve

## SUPPORTED INJECTOR TYPES

- BOSCH CRI & CRIN injectors
- DENSO CR injectors for cars & trucks
- DELPHI CR & SMART injectors
- SIEMENS, CONTINENTAL VDO injectors
- Traditional injectors
- 2-spring injectors
- Stepped injectors
- Injectors with needle motion sensor



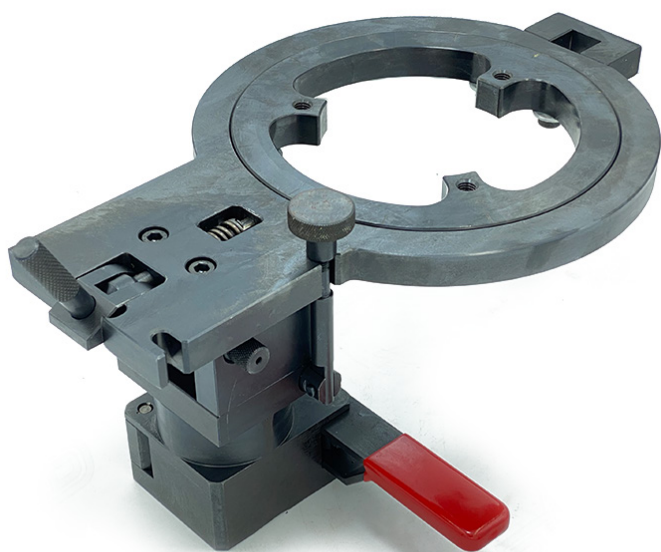
## INCLUDED ACCESSORIES







# CR PUMPS CLAMPING TOOL



Original design that become a standard all around the world.

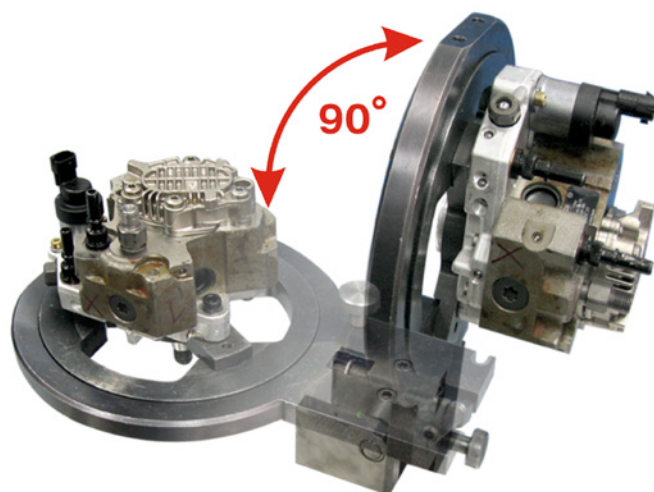
Master can perform all necessary operations at single device. It supplied with wide range of adapter plates.

## BASIC FEATURES

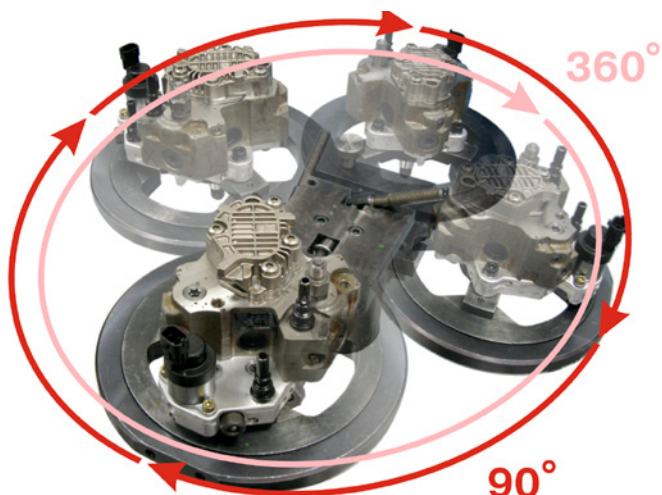
- Central Flange rotates with further fixation in every 30°.
- Adapter Plate could be fixed both in horizontal and vertical directions.
- CR Pump Clamping Device rotates around its vertical axis.
- Special design of Central Flange for easily unscrewing the bolts of the pump housing.
- Main CR Pump Adapter Plate equipped with Pressure Screw for plunger covers.

## SUPPORTED PUMP TYPES

- BOSCH CP1S, CP1K, CP1H, CP2, CP3.2, CP3.3, CP3.4, CP4.1, CP4.2 CR Pumps
- DENSO HP0, HP2, HP3, HP4, HP5, HP6, HP7 CR Pumps
- DELPHI DFP1, DFP3, DFP5 CR Pumps
- SIEMENS, CONTINENTAL CR Pumps
- CUMMINS CR Pumps and CAPS Injection Pumps
- DENSO - V-3, V-3 ROM, V-4, V-5, V-5 Pilot Pumps
- BOSCH, DENSO, ZEXEL, DOOWON, MICO - VE Pumps
- BOSCH, ZEXEL - VP 30, VP 44 Pumps
- DELPHI, LUCAS DPA, DPC, DPCN, DPS, EPIC, DP 210, DP 310 Pumps



## INCLUDED ACCESSORIES





# UI/UP CLAMPING TOOL



Original design that become a standard all around the world.

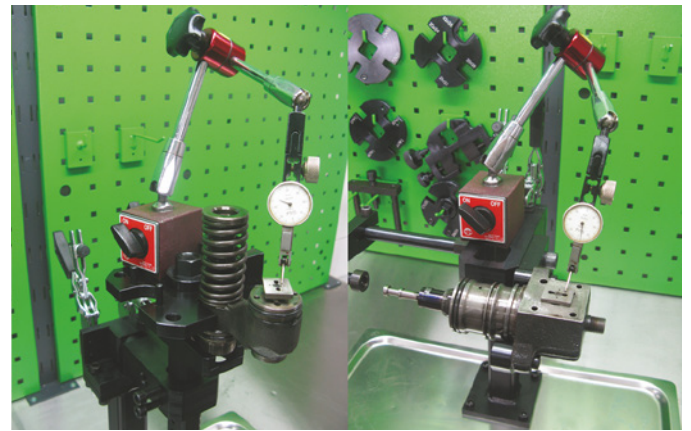
Master can perform all necessary operations & measurements at single device.

## BASIC FEATURES

- Quick and easy conversion of clamp from common rail injectors set up to unit system set up.
- Our clamp lets you do your work on unit injectors and unit pumps in any required position.
- Magnetic gap measurement
- Control valve lift measurement

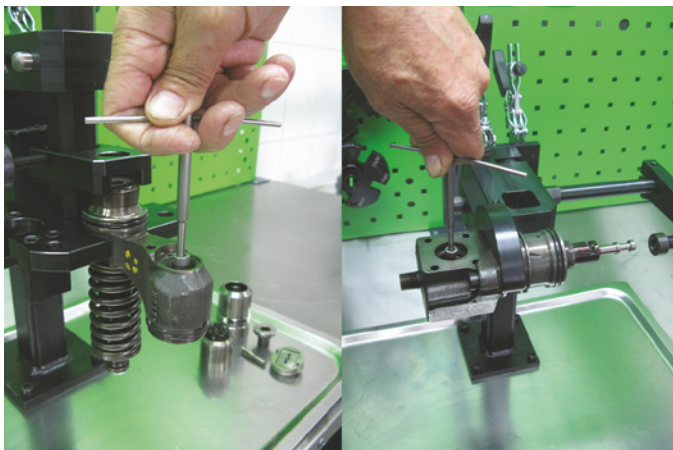
## SUPPORTED INJECTOR TYPES

- BOSCH, DELPHI, CATERPILLAR Unit Injectors for Trucks
- BOSCH, SIEMENS, CONTINENTAL Unit Injectors for Cars
- BOSCH, DELPHI Unit Pumps for Trucks



## INCLUDED ACCESSORIES

### ▶ TD-0020-US



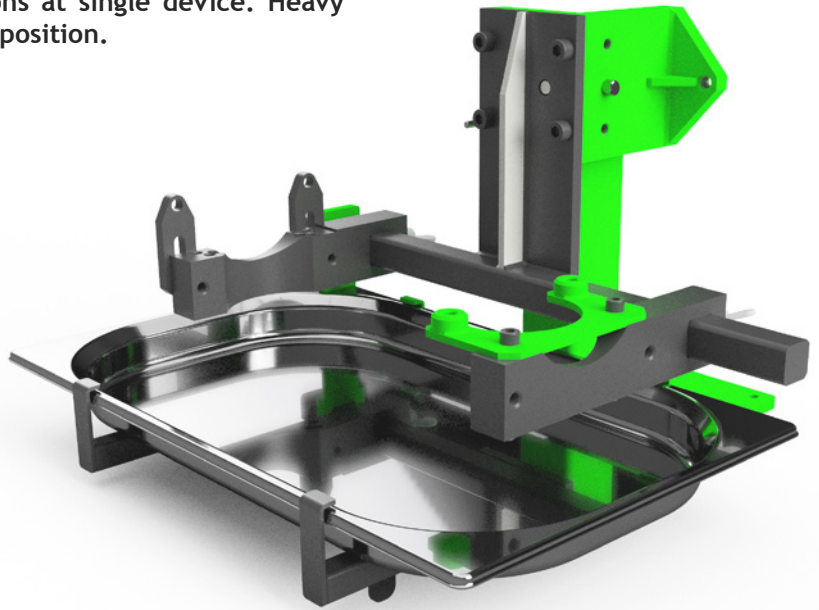


# INLINE PUMPS CLAMPING TOOL

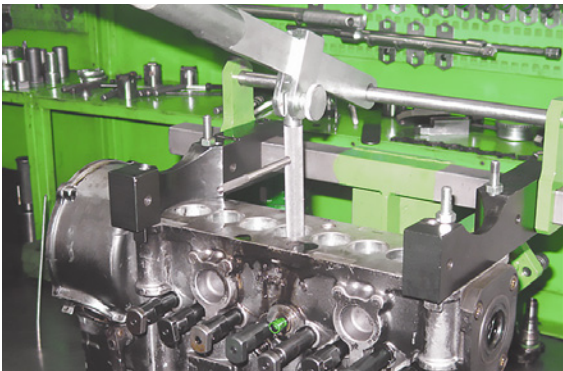
Master can perform all necessary operations at single device. Heavy pums can be easily rotatet to the any working position.

## BASIC FEATURES

- Strong fixation of inline pumps in any working position
- Equipped with spring compression tool for tappet removing
- Suitable for saddle type pumps with flat radius and flange-mounting type pumps
- Suitable for a-type pumps with cover plates of plunger chamber
- Equipped with removable stainless steel container to collect the dirty oil

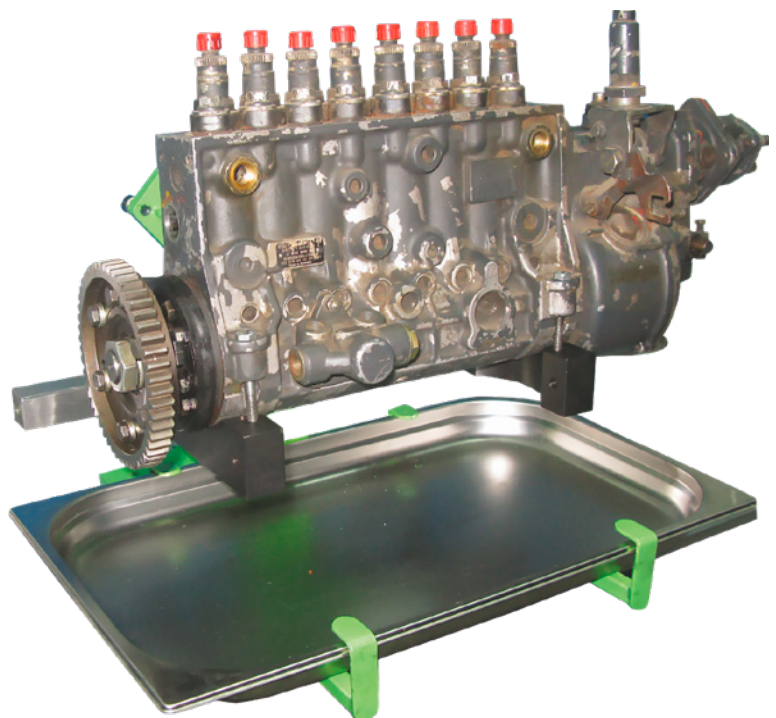


TOOLS



## SUPPORTED PUMP TYPES

- BOSCH Inline Pumps M-, A-, MW-, P-, H-Types
- DENSO Inline Pumps PE-P, NE (EP-11), NB (EP-9), NF (EP-20), A-Types



TD-0400-00



## WASH TANK



Washing tank for cleaning spare parts of injectors and pumps from storage compound and dust before assembly, for grinding of adjusting washers, etc.

It is require only air connection so it is completely safe in use. Test oil from tank under working area coming to the air pump through the 2 micron filter. Flow can be easily controlled by the pressure regulator.

### SPECIFICATION

Dimensions	340x550x275 mm
Weight	7 kg Net
Input air pressure	3-10 bar
Filter cleaning degree	2 um

TD-0036-BIT



## SOCKET BIT SET



The set of 36 pcs 1/2" DR socket bits for CR pumps.

### INCLUDED ACCESSORIES

- Torx IP plus bit sockets 100 mm: TP20, TP25, TP27, TP30, TP40, TP45, TP50, TP55
- Star bit sockets 100 mm: T20, T25, T27, T30, T40, T45, T50, T55.
- E sockets: 08E, 10E, 11E, 12E, 14E, 16E
- Torx plus bit sockets 55 mm: TP52
- Ribe bit sockets 55 mm: MP09
- Hex bit sockets 100 mm: H04, H05, H06, H07, H08, H10
- Ratchet handle
- Extension bar
- Impact driver

TD-0012-NW



## CR INJECTOR HYDRAULIC REMOVER



Helps to remove stuck injectors from the engine. Have unified connections for different heat units.

### SPECIFICATION

Dimensions	280x200x150
Weight	8 kg Net
Air supply pressure	8-10 bar

TD-1700-1XX



## CP1, CP3 TOOL SET

Complete tool set that include 31+ component for bushings, sleeves, filters and fitting removing and installation of Bosch CP1, CP3 pumps.

### SPECIFICATION

Box dimensions	390x300x120 mm
Weight	5 kg Net



▶ TD-015-STP

CRIN injectors universal adapters



▶ TD-10NT-XP

Scania XPI injectors Tool Set



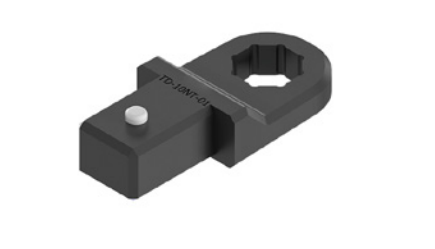
▶ TD-10NT-N42

Bosch CRIN 4.2 injectors Tool Set



▶ TD-10NT-01

Nozzle nut tool S15, 8 edges



▶ TD-10NT-05

Nozzle nut tool for Bosch piezo S15.5, 7 edges



▶ TD-30PT-023

Continental CR valve remover



▶ TD-10NT-02

Nozzle nut tool S16, 8 edges



▶ TD-10NT-06

Nozzle nut tool for Denso S14, 6 edges



▶ TD-0017-CP3

Bosch CP3 pump tappet lifters (for old type)



▶ TD-10NT-03

Nozzle nut tool S17.5, 8 edges



▶ TD-10NT-07

Nozzle nut round tool for Bosch D17



▶ TD-0017-CP3n

Bosch CP3 pump tappet lifters (for new type)



▶ TD-10NT-04

Nozzle nut tool for Continental S16, 9 edges



▶ TD-10NT-08

Nozzle nut tool for Cummins S15, 12 edge



## ▶ TD-11D5-00

Delphi E1, E3, DAF PLD & SMART tool set



## ▶ TD-11D6-00

Delphi DAF Euro 6 PLD tool set



## ▶ TD-11CT-00

CAT UI nozzle nut tool set



## ▶ TD-11VW-01

Special tool for VW UI Siemens Piezo actuators



## ▶ TD-11NA-00

Adapter set for Delphi A3, E1, E3, SMART, Bosch Scania & Iveco UI nozzles



## TD-0101-EPS205

# EPS PEDESTAL



Convenient pedestal for EPS-200/205 test benches.

### BASIC FEATURES

- Stainless top surface with collector for dirty oil
- Drawer for keyboard and mouse
- Drawer for additional storage
- External monitor holder

### OPTIONAL FEATURES

- Built in cooling system with thermostat and circulation pump

### SPECIFICATION

Dimensions	640x860x1590 mm
Weight	110/130 kg Net





# WORKBENCH

TOOLS



Specially designed workbench convenient for operation with injectors and pumps.

## BASIC FEATURES

- Stainless steel working surface
- Top drawers for tools and shims storage
- Each cabinet drawer can contain 9 stainless containers for disassembled injectors or other parts
- Have predefined holes for holding clamping devices
- Can be easily disassembled for transportation
- Can be connected to each other in any configuration

## SPECIFICATION

Dimensions	1800(2335)x640x2095 mm
Weight	225 kg Net
Wall holding perforation step	50x50 mm (10x10 mm holes)



## OPTIONAL FEATURES

- 2-cabinets assembly
- Universal hooks set
- Holders set for CRI-CRIN Special Set
- 4-ports Pneumatics set with pressure regulator and filter
- Sockets and lighting set
- Stainless containers







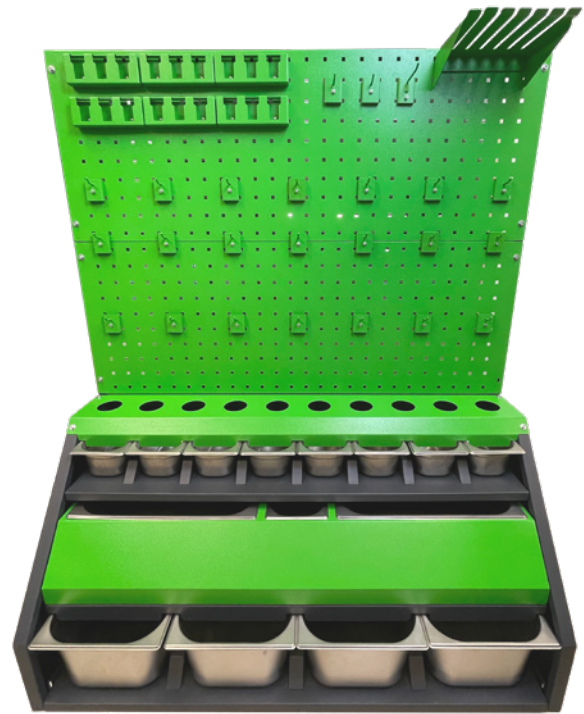
## ACCESSORIES RACK

Convenient storage rack for test bench accessories.

Highly recommended to use it with our pump test benches. It reduce time of preparation pumps for tests.

### BASIC FEATURES

- Universal hooks set
- Holders for PCV and CRIN adapters
- Holders for cables
- Special place for couplings
- 8X small stainless steel containers for adapters and small parts
- 4x big stainless steel containers for pumps
- Movable shelf with stainless steel containers for pipes, cables, etc
- Can be easily disassembled for transportation



TOOLS



### SPECIFICATION

Dimensions	1380x560x1700 mm
Weight	145 kg Net
Wall holding perforation step	50x50 mm (10x10 mm holes)







Headquarters, main  
production facilities

Istanbul , Turkey

IMES San.Sitesi, E Blok 501 Sok.  
No:16, Y.Dudullu, 34775

+90 (216) 415 49 66

info@ous.com.tr


www. ous-tech.com



## LOCAL DISTRIBUTORS

### UAE

**EURODIESEL SERVICES LLC, Dubai**  
WH 90, R239-1 Wasl Properties  
First Al Khail St. Dubai, UAE

+971-4-527-6666 /  +971 4 527 6777  
info@eurodieselservices.net  
www.eurodieselservices.net

### INDIA

**DIESEL WORLD, Gujarat**  
Plot # 9-10, N.H. No-8, Near Haripura  
Patia, Opp Kataria Automobiles,  
Umbhel Kamrej, Surat, Gujarat, India

+91 9586488811  
tushar@diesel-world.net  
www.diesel-world.net



© 2022 OUS LLC

This document has been carefully checked. However, Company does not assume any liability for errors or inaccuracies. Published specifications are subject to change without notice. Company does not guarantee the availability of all published products. Latest publications and a complete disclaimer can be downloaded from the Company website. All trademarks recognized.