

repairing the future...

PT2012.CRe

ALL-MAKES MECHANICAL & COMMON RAIL PUMP TEST BENCH

Today we all know that we need some equipment to test mechanical diesel pumps as well as common rail system pumps. Tomorrow will have different systems, Hydraulically Amplified Common Rail etc. Every passing year, we are receiving newer diesel injection systems with different requirements for repair and test.

Maktest has designed PT2012.CRe for testing both old and new systems with success...

Built-in Common Rail pump testing.

The most advanced feature for PT2012.CRe is the built-in Common Rail Pump testing capability. The test bench is designed to test common rail pumps, and is delivered with the rail block and necessary attachments.

With its new Dual Metering System, PT2012.CRe measures 2 cylinder's output at the same time. Therefore the measurement is completed within seconds with precision.



Traditional test bench
with features not very
traditional...



MAKTEST DIESEL
INJECTION TEST AND
REPAIR SOLUTIONS



PT2012.CRe is one of the well proven Mechanical Test Benches in the market. With its capability to test Common Rail Pumps, it sets a distance to its competitors and proves itself investment worthy.

Testing common rail pumps are becoming tough with each new generation of common rail systems. More precise pressure controls, precise metering along with very precise speed control is now required for testing new generation CR pumps.

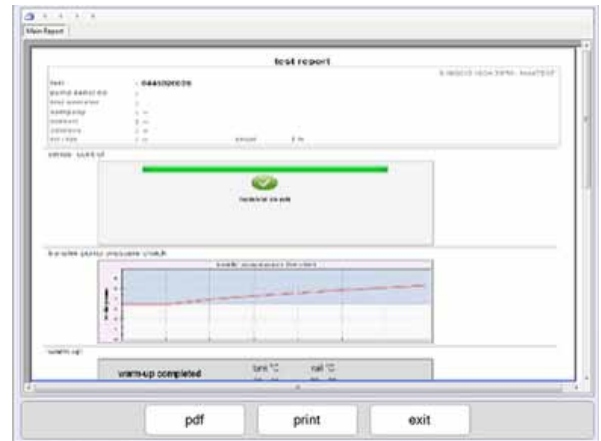
PT2012.CRe is designed to be able to test all types of CR Pumps, including:

- Caterpillar C4- C6
- Denso HP0
- Bosch CP2
- Bosch CP4
- Cummins

PT2012.CRe's has 2 metering sensors to measure 2 injector outputs at the same time. This feature helps PT2012.CRe to complete a test of a 6 cylinder inline pump in about 15 min. It is delivered with all necessary adapters to test: Bosch Inline and Rotary type pumps (except H, VP33, VP44) Delphi- Lucas Rotary and Inline Pumps (Except Dp200 series and similar semi electronic pumps) Denso (Except Semi Electronic Governor controlled TICs and alike) If the pumps' controller is obtained, the pumps are tested on PT2012.CRe.

When Testing Common Rail Pumps "Advanced Manuel Testing mode" allow the operator to control all CR pump actuators and design a completely unique test plan. This new feature therefore permits the users to design custom test steps to investigate various problems that can not be detected with standard test steps.

PT2012.CRe is shipped with standard accessories for testing: Bosch CP1-CP3 Delphi (1st Generation) Denso HP3



Test Report as PDF File



Easy Mounting of any CR Pump



SCV Valve Test Screen





Home Screen of PT2012.CRe Test Control Software

Electricity Requirement

380 V A.C. 3 phase 50-60 Hz (no neutral required).

220 V A.C. Single Phase for Computer
Current : 44 Amper
Power : 29 KVA

Air Supply

min 5 bar, min 10L/min, dry and oil free

High Pressure System

- HP Pump Motor : 15 kW. Speed Control between 50-3500 rpm.
- Max Pressure : 2200 bar
- Pressure Regulator : Bosch

Test Oil Supply System

- Tank : 50 L
- LP Supply Pump : 9 L/min, max 10 bar
- Heater : 2kW
- Cooling System : Air Cooled, 4 L/min $\Delta T = -5$ °C between 40- 50 °C
- Filter : 5 μ

Lube Oil Supply System

- Tank : 10 L
- Lube Oil Pump : 9 L/min, max 10 bar
- Filter : 100 μ mesh

Instrumentation

- HP Sensor : Bosch 2200 bar (on the rail) 1 bar Resolution, 1% Accuracy.
- Flow Sensor : Gear Type; 0-4000 mm³/rev, 1 mm³/rev Resolution, 1% Accuracy.
- LP Supply Pressure : 0-10 bar, 0.1 bar Resolution, 0,1% Accuracy
- LP Return Pressure : 0-10 bar, 0.1 bar Resolution, 0,1% Accuracy
- Lube Oil Pressure : 0-15 bar, analogue, 7% Accuracy
- Temperature : 15-120 °C, 0.1°C Resolution, 1% Accuracy

Computer

- All-In-One
- Processor Dual Core 1.86 Ghz or X5 28350 1.44 Ghz RAM 2GB
- HD : SSD 64 GB
- Monitor 15" Touch Screen /Wide
- OS : Windows 10



Dimensions

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

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

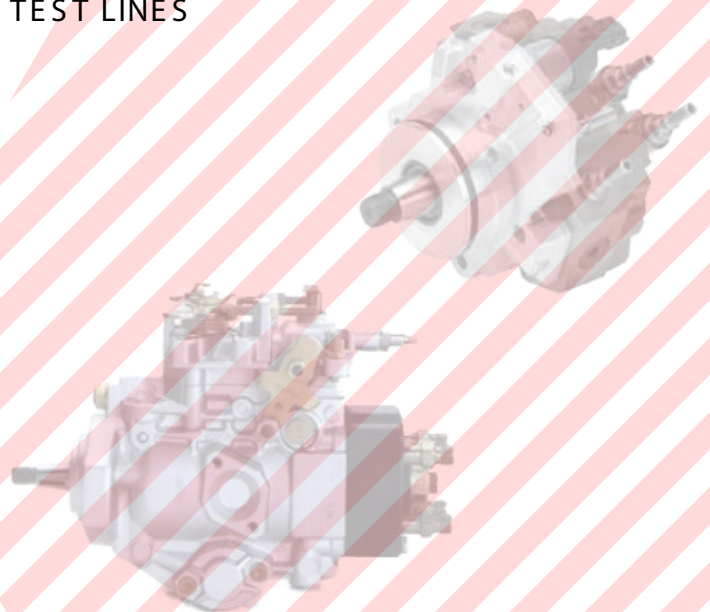


Optional Accessories and Tools Recommended

- KO1475 Clean Bench for Electronic Injector Repair, Including Injector Clamp and Ultrasonic Cleaner
- KO1560 Torque Wrench Digital
- DE1382 Ultrasonic Cleaning Tank
- KO1558 Hydraulic swieving arm for dissamble

Delivered Accessories With This Product

- AP1689 CP2 BOSCH CP3 PUMP SCV CABLE
- AP1693 HP3 SCV VALVE CABLE
- AP1694 CP1-SIEMENS-DELPHI PUMP CABLE
- AP1731 CP1 MERCEDES CABLE
- AA1194 COUPLING 17mm DIA
- AA1193 COUPLING DPS (DOG DRIVE)
- AA1257 COUPLING PULLER FOR DIA 96
- AA1379 COUPLING PULLER FOR DIA 110
- KO1528 DIGITAL RACK MEASUREMENT DEVICE
- AA1698 COUPLING Ø22-LONG
- AA3070 LONG COUPLING 25mm DIA
- AA3071 LONG COUPLING 30mm DIA
- AA1976 COUPLING 35mm DIA
- AA1473 COUPLING SPANNER
- KO1356 DENSO FLANGE ADAPTOR COMPLETE
- KO1467 SIEMENS PUMP COUPLING COMPLETE
- KO1353 BOSCH CP1 PUMP COUPLING COMPLETE
- ADAPTER and FLANGES FOR INLIDE and ROTARY PUMPS
- 12 PCS. TEST INSECTORS and 3 SETS TEST LINES



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For more detailed information, contact your Maktest Inc. distributor or visit



MAKTEST DIESEL
INJECTION TEST AND
REPAIR SOLUTIONS

Continuous development is taking place. Maktest reserves the right to alter the design &/or specification without prior notice.
@Maktest 2020 / PT2012.CRe Pump Test Stand

