

repairing the future...

TK 1035

ALL-MAKES COMMON RAIL PUMP TEST BENCH

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

TK1035 is designed to be able to test all types of CR Pumps, including:

- Denso HP0, HP3, HP4, HP5
- Bosch CP1, CP2, CP3, CP4
- Cummins CR
- Siemens VDO
- Delphi Generation 1 & Generation 2



MAKTEST DIESEL
INJECTION TEST AND
REPAIR SOLUTIONS

World's new all
makes CR pumps test
bench.



TK1035's capabilities to control temperature and measure flow and industry's shortest testing time, makes it the only standalone testing equipment for 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.

TK1035 is shipped with standard accessories for testing:

- Bosch CP1-CP3
- Delphi (1st Generation)
- Denso HP3

Please check the accessory packages for testing all other Common Rail Pumps.

FEATURES

Complete Automatic Testing

TK1035 completes the test in about 12 min. The results are shown with easy to understand graphics.

Simple Mounting Fixtures

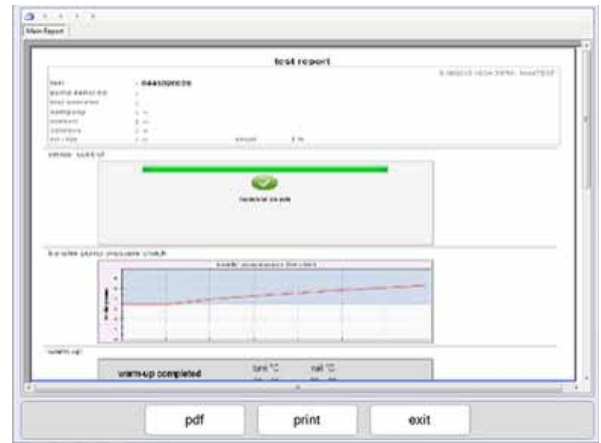
TK1035 uses the standard pump mounting features for mounting common rail pumps, making life easy to understand.

Testing All Makes CR Pumps

TK1035 has what it takes to test all makes CR pumps. The control electronics is designed to run various SCV, PCV, ZME, IMV Valves according to their OEM standards.

Maximum Pressure

Pressure can be set and maintained up to 2200 bar.



Test Report as PDF File



Easy Mounting of any CR Pump



SCV Valve Test Result





Home Screen of TK1035 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



TK1035 CR.s

Dimensions

Machine Dimensions:
Width: 1580 mm
Depth: 840 mm
Height: 1570 mm
Weight: 670 kg

Packing Dimensions:
Width: 1880 mm
Depth: 1000 mm
Height: 1770 mm
Weight: 800 kg

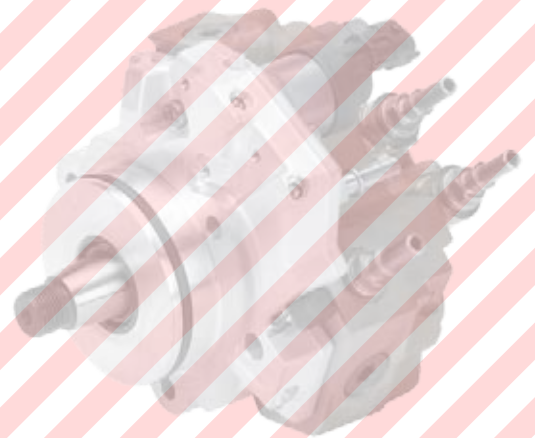


Optional Accessories and Tools Recommended

- 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

- BR1156 Pump Pressure Hose
- BR1127 Pumttester CR Pump Supply Hose
- AP1694 CP1-Siemens-Delphi Pump Cable
- AP1689 CP2 Bosch CP3 Pump SCV Cable
- AP1693 HP3 Denso SCV Cable
- AP1731 CP1 Mercedes-Benz Pres. Set Valve Cable
- AP1742 Standard Valve Cable
- AA1195 Coupling 19mm Dia
- MO1174 Delphi SCV Valve Plug
- MO1175 Denso SCV Valve Plug
- MO1177 Siemens Valve Plug
- MO1178 CP3 SCV Valve Plug
- MO1112 Common Rail CP1 Pump Plug Assamble
- K01356 Denso Flange Adaptor Complete
- AA3203 9 Hose Flange
- KO1467 Siemens Pump Coupling Complete
- KO1353 Bosch CP1 Pump Coupling Complete
- KO1347.s Bosch CP2-Denso HP0 CR Pump Test Kit with Simulator



	4535 City Point Drive Ft Worth TX 76180 Ph: 817-485-6422 Fax: 817-485-6404 www.usdiesel.com
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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 / TK1035.CRs CR Pump Test Stand

