



TK1035

COMMON RAIL PUMP TEST BENCH

PRECISION CONTROL

Proven Results

User Profile

- Common Rail fuel injection pump repair and reconditioning workshops
- Diesel service centers testing multiple CR pump families (Bosch / Denso / Delphi / Siemens VDO / Cummins, etc.)
- Technical teams needing advanced manual control for diagnostics and custom test routines
- High-throughput workshops seeking repeatable results with stable pressure, temperature, and flow control

Supported Pump Families (Examples)

- Denso HP0 / HP3 / HP4 / HP5
- Bosch CP1 / CP2 / CP3 / CP4
- Cummins CR
- Siemens VDO
- Delphi (1st generation)
- Additional pump types supported via optional accessory packages



TK1035

Complete Automatic Testing

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

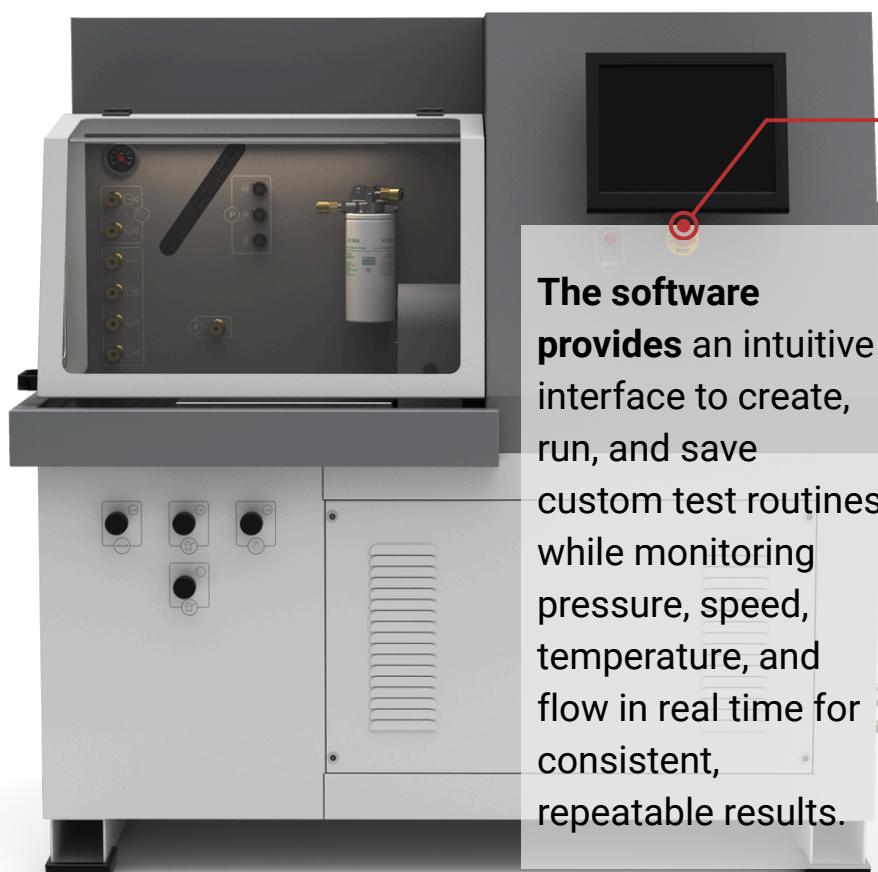


Simple Mounting Fixtures

- 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.



TK1035

Electrical & Pneumatic Requirements

Power supply: 380 V AC, 3-phase, 50–60 Hz (neutral not required)

PC supply: 220 V AC, single-phase

Current: 44 A

Power: 29 kVA

Compressed air: min. 5 bar, min. 10 L/min, dry and oil-free

High-Pressure (HP) System

HP pump motor: 15 kW

Speed control range: 50–3500 rpm

Max pressure: 2200 bar

Pressure regulator: Bosch

Test Oil Supply System

Tank capacity: 50 L

Low-pressure supply pump: 9 L/min, max. 10 bar

Heater: 2 kW

Cooling: air-cooled, 4 L/min; ΔT approx. -5 °C (within 40–50 °C range)

Filtration: 5 μ

Lube Oil Supply System

Tank capacity: 10 L

Lube oil pump: 9 L/min, max. 10 bar

Filter: 100 μ mesh

Sensors & Measurement

HP sensor: 2200 bar (on rail), 1 bar resolution, $\pm 1\%$ accuracy

Flow sensor: gear type, 0–4000 mm³/rev, 1 mm³/rev resolution, $\pm 1\%$ accuracy

LP supply pressure: 0–10 bar, 0.1 bar resolution, $\pm 0.1\%$ accuracy

LP return pressure: 0–10 bar, 0.1 bar resolution, $\pm 0.1\%$ accuracy

Lube oil pressure: 0–15 bar, analog, $\pm 7\%$ accuracy

Temperature: 15–120 °C, 0.1 °C resolution, $\pm 1\%$ accuracy

Machine dimensions (WxDxH):

1580 x 840 x 1570 mm

Net weight: 670 kg

Package dimensions (WxDxH):

1880 x 1000 x 1770 mm

Package weight: 800 kg



User Training



Spare parts



2 years warranty



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