

DIESEL EQUIPMENT

RABOTTI TEC100

The TEC100 test bench is a versatile, high-performance diagnostic tool designed for comprehensive testing of Common Rail injectors and pumps from various manufacturers, including Bosch, VDO/Continental, Delphi and Denso. It operates as a stand-alone unit, eliminating external dependencies and ensuring accurate, reliable results.

The system provides comprehensive diagnostics, enabling users to carry out detailed tests on both injectors and pumps. Pump adjustment parameters and injector control parameters can be set manually for tailored testing. Test reports can be saved, printed or emailed for documentation and analysis. The bench also supports online updates of injector and pump parameters via an internet connection, providing access to the latest technical specifications.

Key features include temperature monitoring (pump inlet/outlet temperature) and pressure display (low-pressure inlet/outlet pressure, internal pump pressure and suction vacuum). The high-pressure system supports up to 2500 bar, making it suitable for intensive testing. Automated test management streamlines the workflow, and up to four injectors can be tested simultaneously for efficient batch testing.

Testing capabilities

Common Rail pumps: low-speed, efficiency, suction and regulator tests.
Injectors: air bleeding, return flow, injected delivery under various operating conditions (manufacturer-specific tests) and coding.

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Technical data

FEATURES	VALUES
Dimensions	1680 × 660 × 1200 mm
Weight	500 kg
Mains voltage	Three-phase + neutral: 400 V – 50/60 Hz
Drive motor power	11 kW
Drive motor control	Three-phase inverter. Speed: 0–3500 rpm
Test oil tank capacity	32 L
Test oil density	0.825 kg/dm³
Measuring sensors	Injector flow meter: 0–4000 ml/min High-pressure sensor: 0–2500 bar Temperature: Pt100 (5–115 °C)
Feed pump	Power: 0.12 kW, flow rate: 4.8 L/min
Heater	2 kW
Test oil	Compliant with DIN ISO 4113

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