DIESEL EQUIPMENT

RABOTTI TEC100

TEC100 Test Bench is a versatile and high-performance diagnostic tool designed for comprehensive testing of common rail injectors and pumps across multiple brands, including Bosch, VDO/Continental, Delphi and Denso.It operates as an independent unit, eliminating the need for external dependencies while ensuring precise and reliable results.

The system enables complete diagnostics, allowing users to perform detailed tests on both injectors and pumps. It offers the flexibility to manually set adjustment parameters for pump tests and driving parameters for injector tests, ensuring customized evaluations. Test reports can be saved, printed, or emailed for documentation and analysis. Additionally, the bench supports online updates for injector and pump parameters via an internet connection, ensuring access to the latest technical specifications.
Key features include temperature monitoring (inlet/outlet pump temperatures) and pressure visualization (low-pressure inlet/outlet, internal pump pressure, and vacuum level during suction). The high-pressure system supports up to 2500 bar, making it suitable for rigorous testing.
The test bench supports automated test management, streamlining workflows, and can accommodate up to four injectors simultaneously for efficient batch testing.

Features

COMMON RAIL PUMPS: Priming, Leak Test, Efficiency, Suction (only for pumps with a transfer pump).
INJECTORS: Air Purge, Backflow, Injected flow under various operating conditions (custom tests per manufacturer) and coding.

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Technical data

FEATURE	VALUE
Dimensions	1680 × 660 × 1200 mm
Weight	500 kg
Power Supply	3-Phase + Neutral: 400V - 50/60 Hz
Drive Motor Power	11 kW
Drive motor control	3-Phase Inverter. Speed: 0–3500 rpm
Test oil tank capacity	32 L
Test oil density	0.825 kg/dm^3
Flush oil tank capacity	3 L
Measurement 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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