



TECMAN

The Rabotti complete solution for manual single injector testing



Thanks to the decennial experience on the "TEC" product line **Rabotti** has developed a new bench for the single injector testing and calibration with manual operation and reading by graduates.

The bench is available in three versions:

- Injectors cleaning.
- Injectors testing and cleaning.
- Testing and cleaning with spray visualization.

The **Injector Cleaning** version can carry out the injection and the relevant delivery measurement. The measurement lasts for 60 sec with a 100 ms injection rate. The injector control impulse timing can be set between 500 and 2500 us, while the testing pressure can be set between 800 and 1600 bar.

The **Injector Testing and Cleaning** version can carry out a more precise measuring control and can extend the values range by setting them according to impulse timing and pressure. Impulse timing can be set between 160 and 2500 us, while pressure can be set between 100 and 1800 bar. The test is carried out by counting the number of injections; this number is prefixed to 1000 and cannot be modified. The injection rate is 60 ms to give a direct graduate reading in cc/min. It is furthermore foreseen to set a sequency of 5 tests, each of them with programmable impulse and pressure timing. The sequency is memorized even when the machine is switched off.

The Testing and Cleaning with Spray Visualization version can carry out the tests as per the above version with a further possibility of the spraying test which takes place through the specific transparent cylinder. One injection per sec is carried on with impulse and pressure programmable timing. The injector spraying shape can then be observed. The transparent cylinder is fitted with a LED lighting system.

The test bench manages and displays the following alarms devices:

- emergency, active till the restart botton is again pressed;
- oil low level in the reservoir;
- oil filter obstructed (replace the filter cartridge);
- open pannel;
- all alarm devices stop the ongoing tests and block the motor, the emergency devices deactivate all LED lighting as well.

The ongoing tests, injection and thermoregulation are interrupted and the motor is blocked. The interceptor remains locked. In emergency all outputs are switched off. When the emergency is over all relays, like injectors and graduates lamp for ex., are reactivated.

The alarm page on display shows all active alarms. With active alarms, including the emergency, it is still possible to select the injector type, to set up the wished test, to set up the tests sequency and carry out the calibration.

Allarm page

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| D | O | O | R | | O | P | E | N | | | | | | | | | | | |
| D | I | R | T | Y | | F | I | L | T | E | R | | | | | | | | |

In case the pressure is over 1900 bar, 4 horizontal dots are displayed.

EASY AND NICELY DESIGNED CONTROL PANNEL



Introduction Page

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| | | | | T | | | E | | C | | M | | A | | N | | | | | |
| | | C | L | E | A | N | | T | E | S | T | | S | P | R | A | Y | | | |
| S | W | | 1 | . | 0 | | | | | | | | P | A | R | | 0 | . | 0 | |

Main Page

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| P | R | E | S | S | . | [| b | a | r |] | | | | | | 1 | 0 | 0 | 0 |
| S | T | R | O | K | E | S | | | | | | | | | | 1 | 0 | 0 | 0 |
| M | O | T | O | R | | O | F | F | T | 1 | | I | N | J | . | O | F | F | |

Line 1 shows the type of selected injector

Line 2 shows the pressure read by the RDS sensor

Line 3 shows the number of remaining deliveries

Line 4 shows the operating conditions of driving motor and injection.