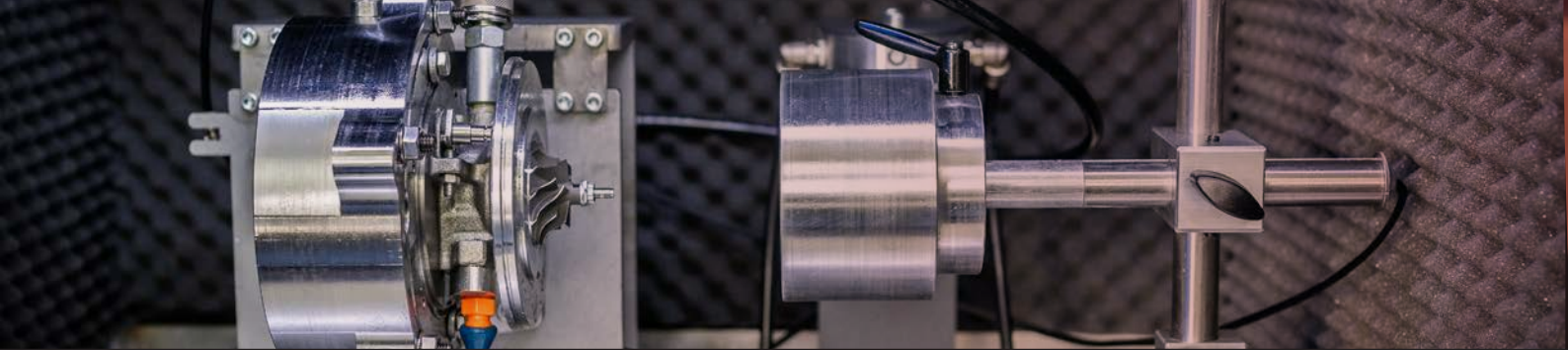


Technical Information

TCW **NG**





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INTRODUCTION

Productivity, increased accuracy and connectivity define the next generation of TurboClinic equipment.

The TC Workbench NG (TCW NG) is once again at the forefront of the innovation in turbo repair. This equipment is a complete repair workshop and is now even more accurate and efficient. It includes autocalibration at startup, Standard Mode and Precision Mode, remote monitoring of the equipment and greater integration with the TurboClinic 4.0 Platform. These features join the pre-existing turbocharger balancing function, the adjustment of the geometry, measurement of the efficiency of the compressor wheel, test of the cartridges for oil leaks and the test and programming of electronic actuators.

In a market in constant evolution and growth, TCW NG responds to the needs of each business with its new modules and updates available at the distance of a click, through Platform TurboClinic 4.0.



FEATURES

- \\ Balancing of the turbochargers from light vehicles;
- \\ Measures the efficiency of the compressor wheel;
- \\ Adjusts the balancing speed test automatically, depending on the diameter of the compressor wheel;
- \\ Test speeds up to 300.000 RPM;
- \\ Accuracy of 0,005G;
- \\ Polar graph with precise cutting angle indication;
- \\ Oil temperature automatically controlled;
- \\ Oil tank: 7 liters;
- \\ Test cartridges for leaks;
- \\ Variable nozzles adjustment from light vehicles;
- \\ Tests and programs electronic actuators from light vehicles;
- \\ Test wastegate valves (vacuum/pressure/electronic);
- \\ VNT Autocalibration;
- \\ Automatic Adjustment of Turbochargers with Programable Electronic Actuator;*
- \\ Optimized Value for Best Efficiency*;
- \\ Simplified Vacuum Adjustment;*
- \\ Pneumatic Actuator with Position Sensor;*
- \\ New compressor wheel lockout system;
- \\ Equipped with 2 adjustable touchscreens, allowing two users simultaneously;
- \\ Higher precision (2 independent working modes: Standard Mode and Precision Mode);
- \\ Greater integration with the TurboClinic 4.0 platform (remote monitoring and update of the equipment);
- \\ Pay-per-use options;
- \\ Generate reports;
- \\ RJ45 LAN connection;

*Function access requires internet connection and valid subscription

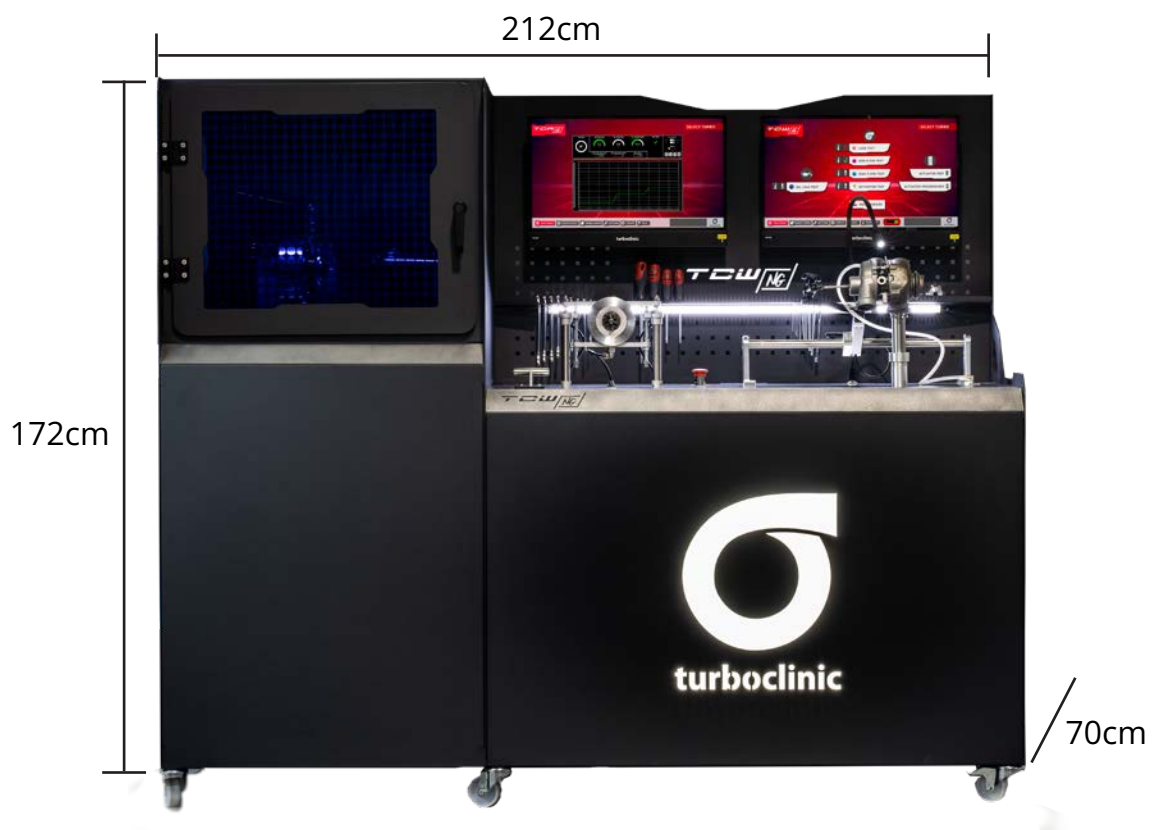


DIMENSIONS

\\ Length: 212cm

\\ Width: 70cm

\\ Height: 172cm





TECHNICAL REQUIREMENTS

- \\ Compressed Air Network (between 8 and 10 bar);
- \\ 300 liters compressed air tank (minimum) linked directly to the machine by 1" hose (maximum distance recommended - 2m);
- \\ Power Supply 230V (50/60Hz) -1500W;
- \\ RJ45 LAN Connection - Internet - to get the latest updates and remote support;
- \\ Air Filter – to prevent the impurities in the air network from interfere with the TC Workbench NG pneumatic systems;
- \\ Oil Lubricator – to help maintain the valves clean and lubricated;
- \\ Recommended Oil - 5W30 (the equipment requires the use of a thin oil);
- \\ Turboclinic recommends the use of a UPS (uninterruptible power supply 2500VA).

Not included

MAINTENANCE

- \\ Check the condition of the oil
- \\ Change oil and filter at least once a year
- \\ Lubricator - maintain oil in lubricator - Recommended oil - ISO VG32

Not included



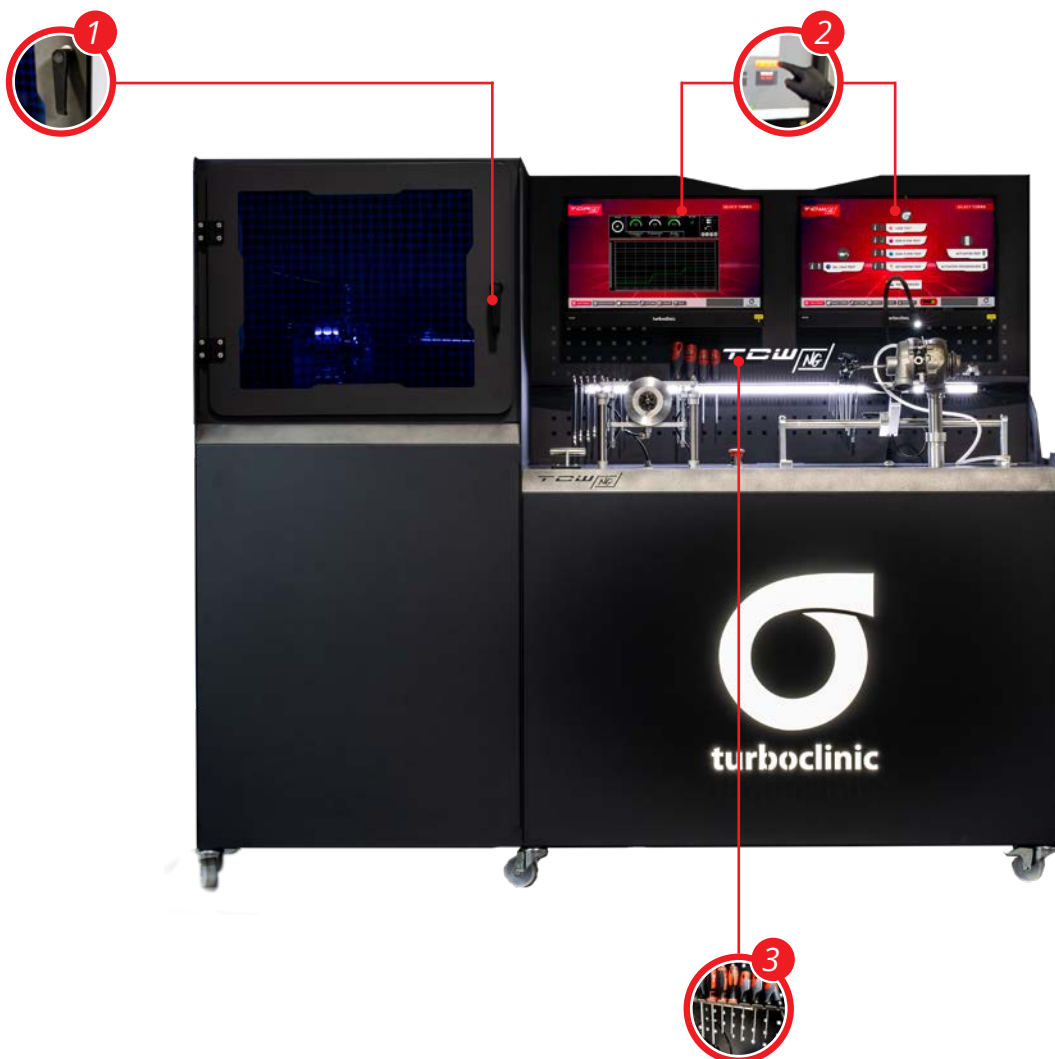
DIAGRAM

TC Workbench NG \ Front

1\ Door Lock

TC Workbench NG \ TOP

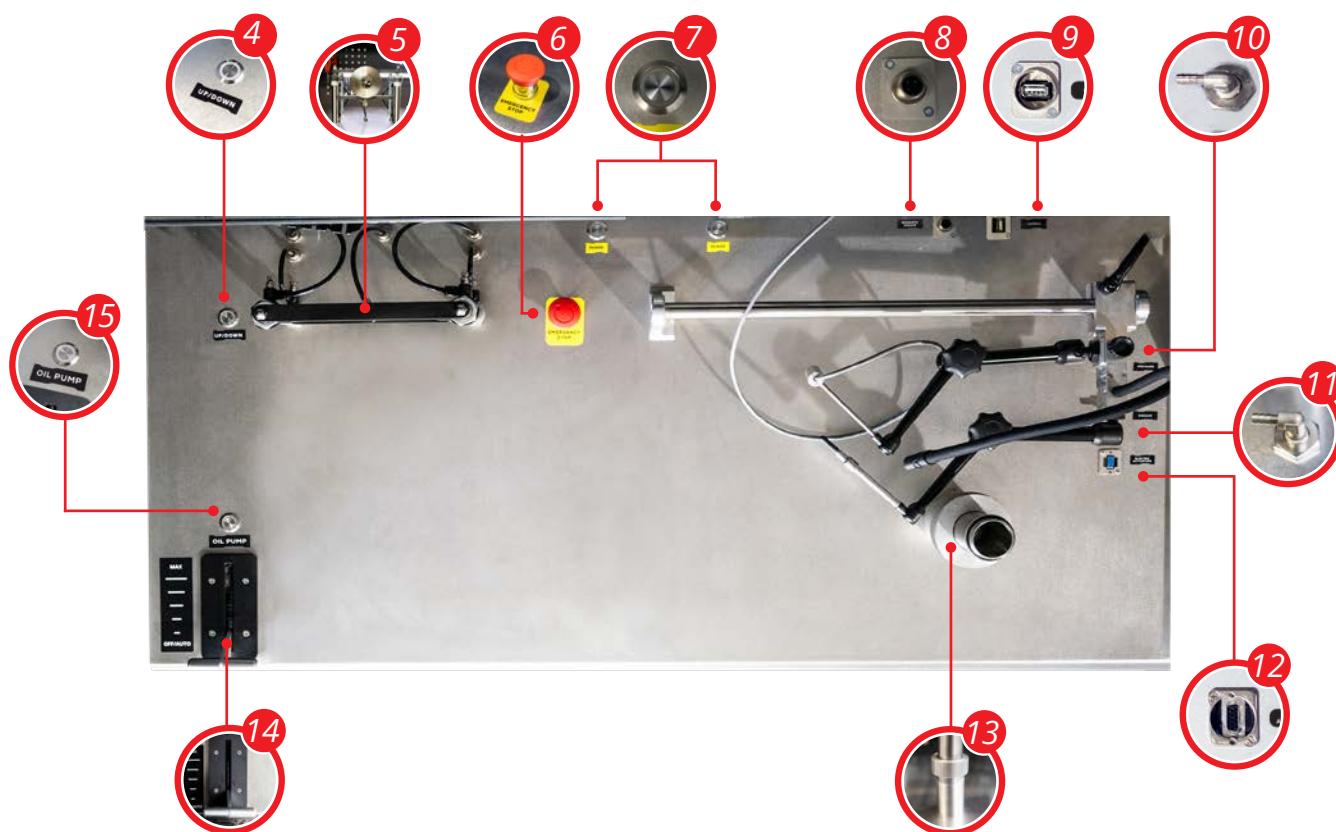
2\ 2 Touch Screens 21.5"
3\ Area for tools' hanging



DIAGRAM

TC Workbench NG \ Front - bench top

- 4\ Pneumatic Oil Leak Tester Holder Up / Down button
- 5\ Pneumatic Oil Leak Tester
- 6\ Emergency Stop button
- 7\ Power Buttons (ON/OFF) (Balancing side and VNT side)
- 8\ Magnetic Sensor connection for pneumatic actuators
- 9\ Camera's USB connection for pneumatic actuators
- 10\ Connection for pressure actuators
- 11\ Connection for vacuum actuators
- 12\ Connection for electronic actuators
- 13\ Turbo support base
- 14\ Balancing Air Control Valve
- 15\ Oil Pump Button





DIAGRAM

TC Workbench NG \\ Right side

16\ Air Inlet (Coupling DN7.4 european profile) - Lubricated Air (to adjust the geometry) - it is mandatory to connect the air supply to an external oil lubricator and an air filter*

* Not included

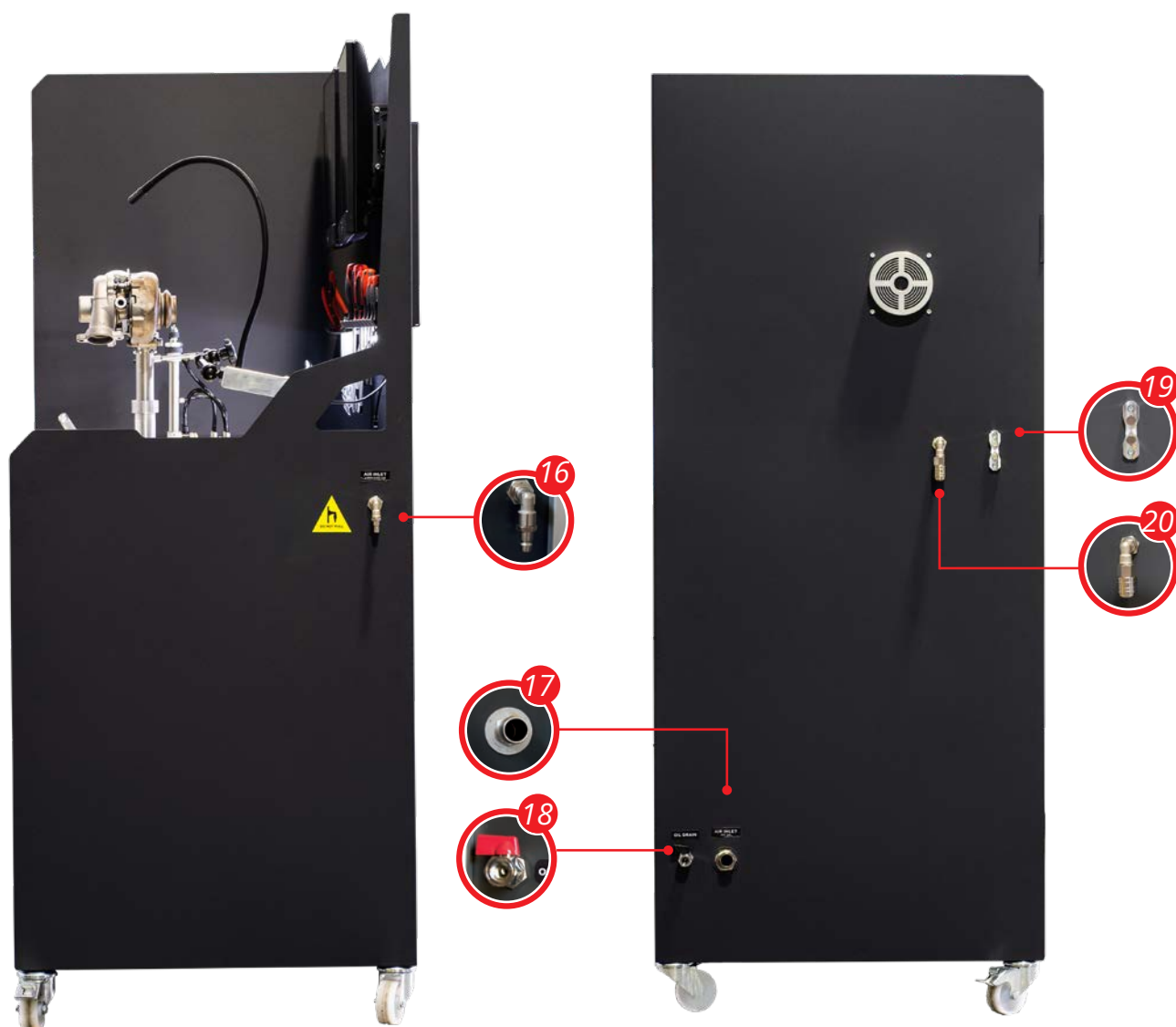
TC Workbench NG \\ Left side

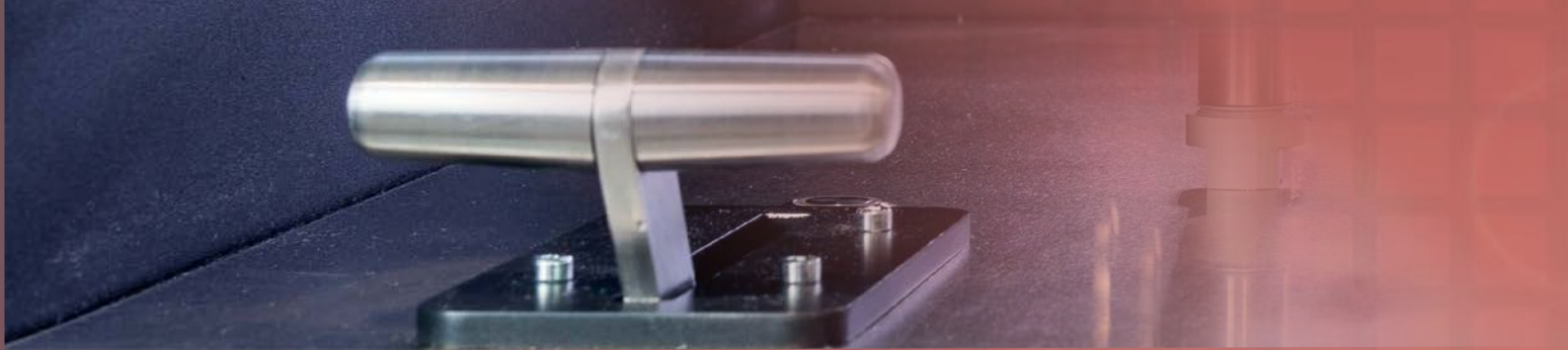
17\ Air Inlet (1") - Dry Air (to balance the cartridge)

18\ Oil drain

19\ Support for pneumatic precision tool

20\ Air Outlet

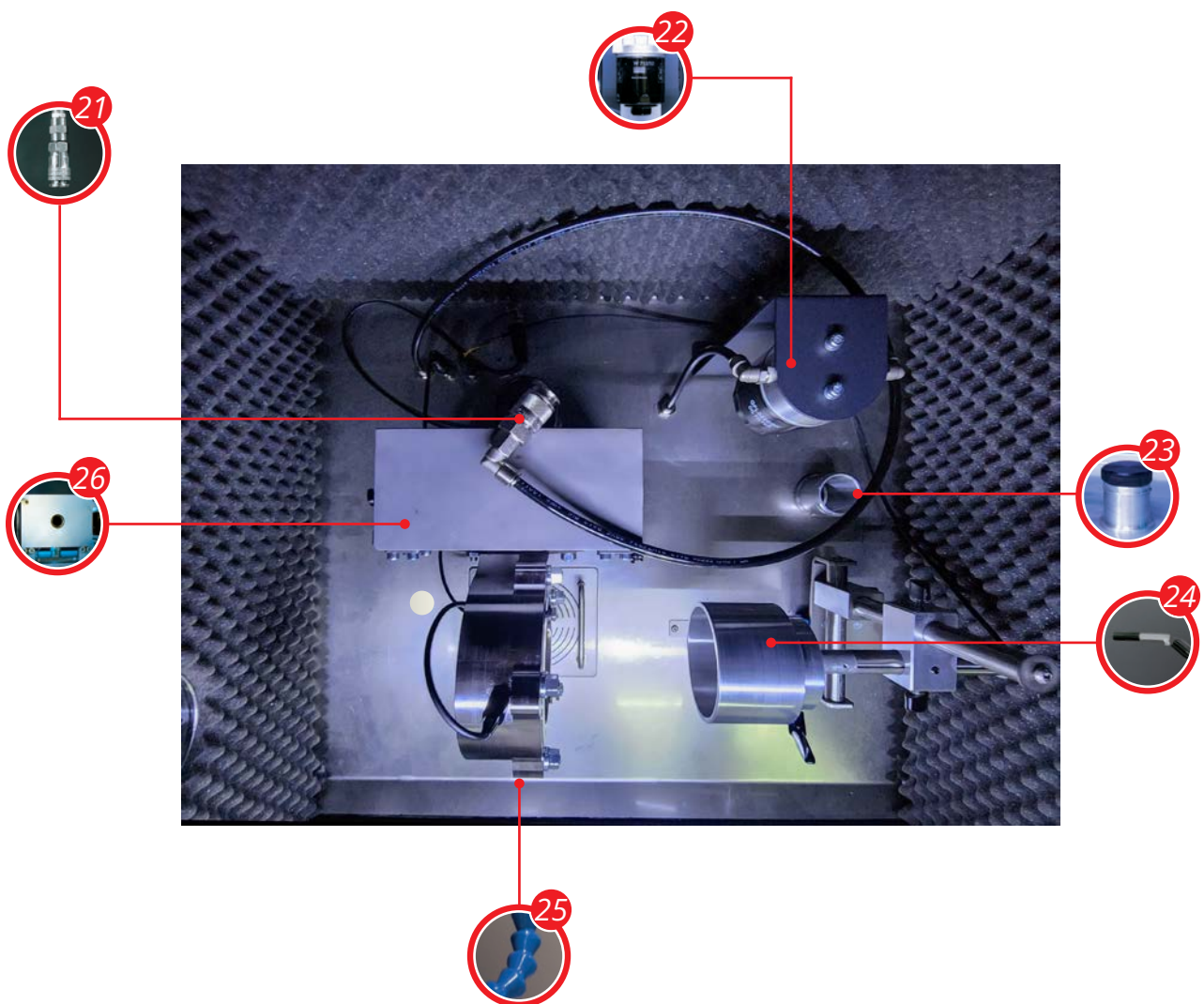




DIAGRAM

TC Workbench NG \ TCA Interior

- 21\ Oil Supply
- 22\ Oil Filter
- 23\ Air input for Compressor Wheel Efficiency Test
- 24\ Rotation Sensor
- 25\ Oil Return
- 26\ Turbo support base



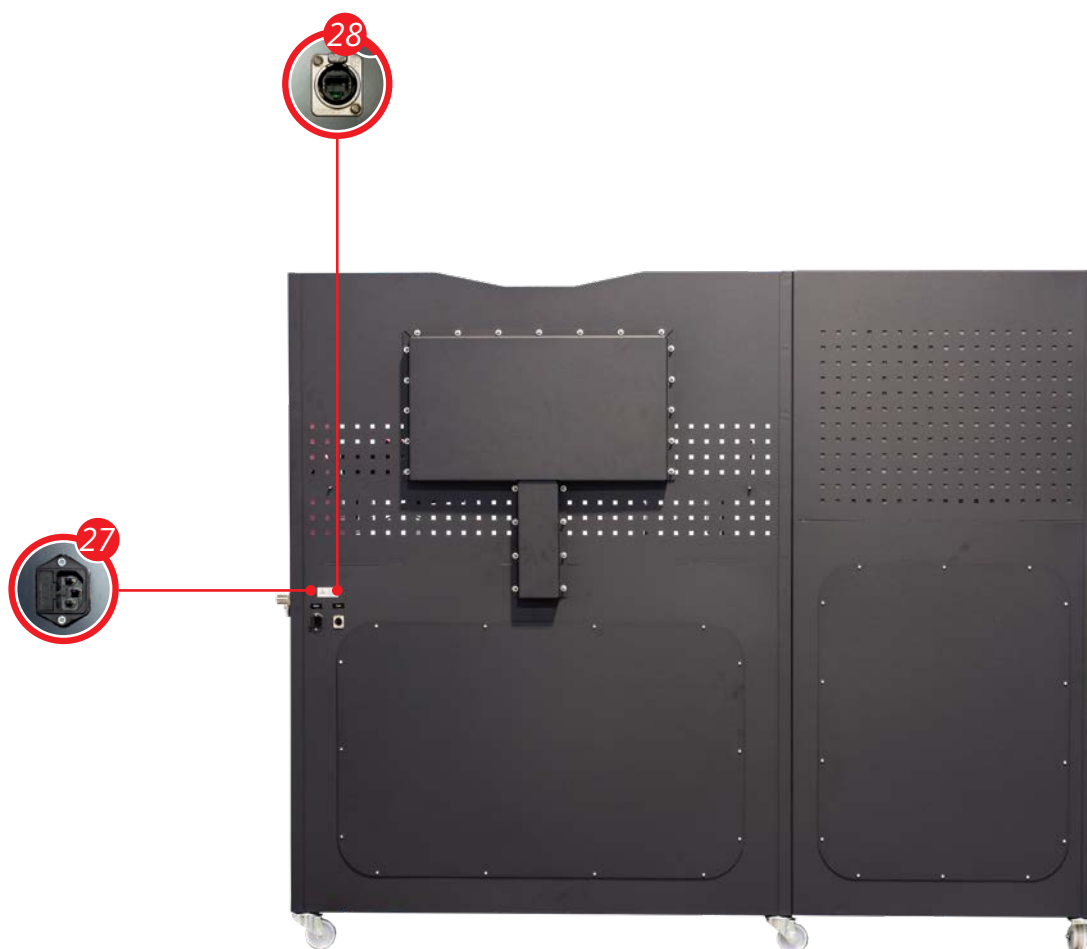
DIAGRAM

TC Workbench NG \ Back

27\ Main power supply 230V- 50/60Hz

28\ Internet Connection* (RJ45 LAN plug)

* Not included





TC WORKBENCH NG FUNCTIONS

TCA Test from light vehicles

- \\ Balancing of Turbochargers
- \\ Measurement of the Efficiency of the Compressor Wheel
- \\ Print Report

VNT Test from light vehicles

- \\ Leak Test
- \\ Minimum Flow
- \\ Maximum Flow
- \\ Pneumatic Oil Leak Tester
- \\ Test Electronic Wastegates
- \\ Print Report
- \\ Test and programme light vehicle actuators
- \\ Test N75 Valve
- \\ Test PVF Sensor
- \\ Automatic Adjustment of Turbochargers with Electronic Actuator*
- \\ Simplified Vacuum Adjustment*
- \\ Pneumatic Actuator with Position Sensor*
- \\ Optimized Value for Best Efficiency*

*Function access requires internet connection and valid subscription.

AVAILABLE EXTRAS

VNT Extras

- \\ Test Electronic Wastegates
- \\ Program Electronic Actuators from Heavy Vehicles' Turbochargers
- \\ Test Electronic Actuators from Heavy Vehicles' Turbochargers
- \\ Additional Cables for Electric Actuators
- \\ Additional Turbo Mounting Plates

TCA Extras

- \\ Adapters for the TurboClinic universal base

| Balancing Nozzles



| Balancing Plates



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REV. 1.0 / 2024

