

Engine 9800



The new 9800 engine is available for all the models of the Ergit Series 100. This latest generation engine in accordance with the Phase 3A legislation has 16 valves and 4 turbo cylinders. It reaches a power of 87 hp with a displacement of 3300cc. The engine has counter rotating balance weights, injection system and EGR with electronic control. There are many advantages to this new engine which offers the best performance of the series: greater torque and greater specific power despite having historically lower fuel consumption and noise levels.



FINAL CHECK: THE TEST FOR THE PERFECT TRACTOR

Technology geared towards final quality

The final test management system for all Antonio Carraro tractors is a complex system that interfaces the hardware of the test bench with four independent rollers with the software for the supervision control management system. The test bench has four pairs of independent rollers suitable for all types of tyres. Two pairs out of the four are in a fixed position (rear) whilst the other two pairs of rollers vary automatically their position due to the "rolling shutter" between the tractor's wheelbase and the tester. The range passes from a minimum of 1000mm to a maximum of 2900mm so as to include all the Antonio Carraro wheelbases. Safety is provided for by the automatic mobile bulkheads with rollers in neutral for longitudinal containment (front and rear) and fixed conical rollers, also in neutral, positioned both internally and externally to the bench for lateral containment.

The principle controls carried out inside the roller test bench are as follows:

- Test for the correct insertion of the gears and ranges
- Test for maximum speed measured on each wheel
- Test for traction disengagement
- Differential test – rear block
- Differential test – front block



- Reversibility
- Test for the engagement of gears and ranges with reversibility
- Test for maximum speed, measured on each wheel with and without reversibility
- Brake efficiency test
- Correct working of parking brake
- Gear box noise test
- Hydraulic hold test

The test bench with independent rollers is inside a 50 metre square soundproofed cab with a ventilation system of an air capacity of more than 12,000 mc/h which allows the constant recycling of air along with an aspiration device for exhaust fumes with a capacity superior to 600 mc/h which permits the aspiration of exhaust fumes even at maximum speed. Further safety is provided by an exhaust fume and

fire reading system provided by detectors of carbon monoxide and diesel fumes that activate an alarm and open the entry and exit doors automatically should any anomaly be revealed.

The supervision system (Software) is essentially the computerised management of all the control stations in the assembly process, not only those related to the test bench but also those from the first control position on the assembly line. The management of the check-lists that are dedicated to each single Antonio Carraro tractor model and get up to 100 lines of controls, are set at each test position via PDA with which the testers confirm the controls carried out or insert the data relative to the control parameters or simply automatically record the control values that the test bench has collated. Each single control criteria is mandatory for successive steps. All the information is managed and contained within the intranet portal so that it can be consulted at any time by simply typing in the tractor's number plate.

