

SAME Frutteto with independent front axle suspension

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SAME offers the Frutteto family with an innovative front axle suspension system with independently sprung wheels. This is a technological solution normally seen only on higher horsepower tractors, which SAME has now brought to its specialised tractors for fruit orchards and vineyards.

Every aspect of SAME Frutteto tractors is geared for maximum driver comfort: the geometry of the independent front suspension system optimises performance and driveability both in poor terrain conditions and when driving at high speeds, and drastically reduces the vibration experienced by the driver.

Highly innovative technological solutions have been used. Two hydraulic cylinders, a system allowing the suspension arms to pivot independently on the front suspension carrier, a speed sensor, a steering sensor and three nitrogen accumulator tanks all contribute to maximised driver comfort and vehicle stability whether working in the field or driving at speed on the road.

A sophisticated electronic control system constantly keeps the suspension ideally levelled, independently of the load on the front axle, to make use of the full travel of the shock absorbers in all situations. The suspension levelling system is activated automatically at speeds above 3 km/h, while the suspension may be locked manually by the driver if needed from an electrohydraulic control in the cab.

This system offers the same essential characteristics such as maximum lateral angle and ground clearance as the rigid axle version.

The suspension system features an “anti-dive” function, which improves braking safety as it prevents the front axle from diving, causing the centre of gravity of the tractor to shift suddenly.

The suspension system also has an “anti-roll” function, which automatically adjusts the stiffness of the system in relation to steering angle and speed, to improve stability and grip both in the field and on the road.

The new independent front suspension geometry of SAME Frutteto tractors is the most effective solution available today for maximising grip and stability, significantly improving both safety and comfort.

Source: Same Deutz-Fahr Deutschland GmbH