



DRYset™

Dry Suction Excavation Technology



The DRYset™

Dry suction excavation should be used whenever critical services (water networks, telecommunications, power or gas lines) are present in the ground to eliminate potential damage caused to those services. The use of DRYset™ greatly improves site safety.

Also, excavated material can be reinstated within the same hole, thus removing transport and disposal costs of waste, while recycling site spoil sustainably.

DRYset™'s powerful suction capabilities also make it ideal for spill cleanup and cleaning of a wide range of utility services including drains, pits and railway lines.

The DRYset™ technology uses turbines to generate an extremely high airflow: 42,000 m³/hour, equivalent to five and up to eleven times the airflow of combination hydro trucks. The equipment is mounted on a four-axle truck, together with a side tipping debris tank, filters and a hydraulically operated, radio controlled suction hose carrier, making it the most advanced excavation machine available to date in Australia.

A unique hydrostatic drive enables the vehicle to be remote controlled, increasing productivity, efficiency and safety for operators.

Technical specifications

Cab and chassis

- > Mercedes Benz Actros 3244, 8x4
- > Wheel base 4500
- > NMV transmission for the fan
- > NMV transmission for the hydraulic system

Vacuum

- > High performance twin fan for underground construction work and material removal applications:
 $V_{max} = 42,000 \text{ m}^3/\text{h}$, $P_{max} = 40,000 \text{ Pa}$, shaft power 240kW

Suction arm

- > Fully hydraulically operated suction hose carrier (radio controlled)
- > Various extensions for easy reach excavation and other accessories.

Other features

- > Hydraulic travel system with sensors
- > 8m³ side tilting debris container
- > Highly efficient air circulation and separation system
- > Fine filter with automatic cleaning system by compressed air
- > Special air exhaust silencer

How does it work?

1. The turbines generate an extremely powerful air flow.
2. The soil/waste/spoil is vacuumed by the suction hose controlled by the operator using the radio remote control.
3. The material is collected inside the debris container.
4. The air flows through special fine filters for decontamination. Filters have an automatic cleaning system using compressed air, ensuring that filtration is always efficient.
5. Once the job is completed, the debris container is emptied by side tipping.

Applications

- > Civil works excavation
- > Trenching
- > Cleaning of drains
- > Emergency response
- > Environmental spills response
- > Road services & cleaning
- > Services locating and proving



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