



Unveiling the Future with STREICHER Vacuum Crawler

STREICHER VACUUM CRAWLER VC70

2024 IPLOCA Health & Safety Award



Findings and Solution



In many of our work areas related to pipeline construction, we often **encounter existing and operational infrastructures such as electricity, telecommunications, water, oil, and gas pipelines.**

Whether we are working on existing lines or laying new ones, **the risk of an accident is always present.**

It is **crucial to precisely identify, mark, and expose these lines in advance.**

Any damage to a pipe, whether **from a leak or damage**, could lead to **a catastrophic accident, health issues, or environmental damage.** Additionally, **damage to cables or pipelines in residential areas, industrial facilities, or even hospitals** often results in interruptions to essential services such as electricity or gas for surrounding areas.

In certain scenarios, it may be **impracticable or impossible to use a conventional suction excavator** for civil engineering work, especially for specific pipeline installations.

Vacuum excavators are bulky, difficult to transport, and come with significant costs.



Therefore, there is a high demand for a **smaller, more agile machine to meet these requirements.**

Find **solutions, implement, and apply them in practice.**

STREICHER VC70

- Performance: 55.4 kW (75 PS)
- Transport weight: 2.6 t
- Dimensions (3.30 x 1.26 x 1.95 m)





Achievements

Highest Safety, Efficiency, and Cost-Effectiveness in Operation



STREICHER VC70

- ✔ Ambient temperature: -20 to +40°C
- ✔ Vacuuming **different type of soils:** non-binding soils such as **earth, sand, gravel and stones.** removal of various soil materials, as well as **mud and water.**
- ✔ Applicable for various purposes, to quickly **uncover tree roots, plants and interred line conduits** without damaging them, as well as for **cleaning industrial plants** and **sewage systems.**

Safety Features of the VC70 Vacuum Crawler



The VC70 vacuum crawler prioritizes safety with its **integrated tilt sensor with warning function**, which

- ✔ monitors and controls the crawler's orientation and stability across diverse surfaces.
- ✔ Operators receive **timely visual and acoustic alerts**,
- ✔ providing **early warnings** of steep sloped terrains and
- ✔ Ensuring enhanced **safety and peace of mind during operations.**



Achievements

Remote-Controlled Operation for Enhanced Safety

- ✔ The VC70 is **operated via a radio remote control**.
Its suction operation can be intuitively controlled via a **radio remote**, allowing for infinitely variable vacuum power performance at your convenience.
- ✔ Because of the radio remote control **an optimal field of vision is ensured** → the **risk of accidents is reduced**.

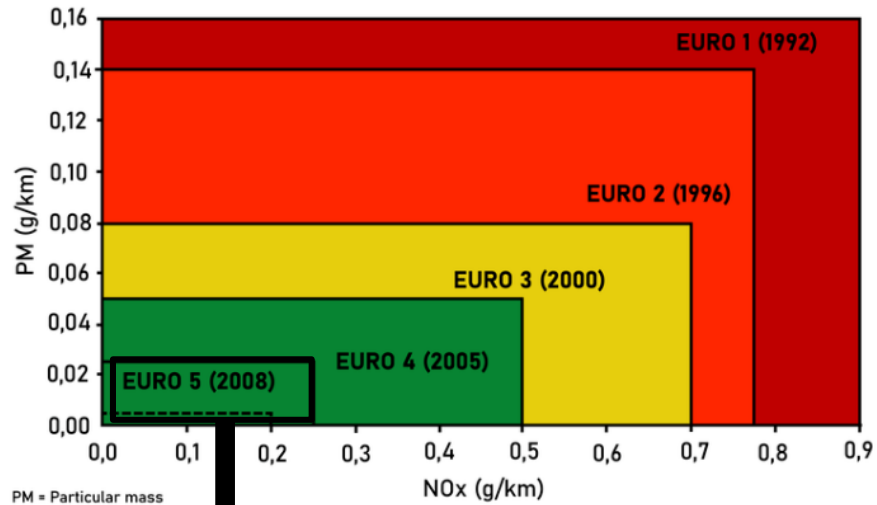


Enhanced Operability, safety and Efficiency: VC70's Adjustable Suction Power and Gear Options

- ✔ A choice between two gears allows the unit's operative maneuverability to be optimally adjusted to its running terrain.
- ✔ An **automatic vacuuming function** provides a more efficient operability for excavation activities compared to manual excavation.
- ✔ With the **continuously adjustable suction power**, suction operation can be intuitively **controlled via the radio remote control**.
- ✔ Furthermore, the **driving operation can be optimally adapted to the application by choosing between two gears**.

Additional Benefits and Long term planning

VC70's Lightweight Design and EU Stage 5 Compliance



STREICHER VC70

- ✓ Exhaust emission level: EU Stage 5 → **Reduced Emissions**
- ✓ The VC70 can be transported on a conventional trailer due to **its low transportation weight**.

Advanced Sustainability: Fully Electric Propulsion System and Enhanced Suction Hose Design

- ✓ The development of a fully electric drive system → reducing emissions and embracing innovative solutions.
- ✓ Further adjustments to the suction hose

