

**GROUND EXCAVATION,
THE SAFE WAY**

Safe ✓ Excavation Ltd — *Vacuum Excavation* —



www.safeexcavation.co.uk



About Us.

All of our vacuum excavation machines are available 24 hours a day, 7 days a week and are operated by fully trained and competent drivers holding current safety and construction site certification.

Based in Kent, we are a company with 25 years experience in Excavation and Construction. Having run our own fleet of heavy plant machinery and road sweepers for many years, we became extremely in-tune with our customers needs within the construction, rail and demolition industry.

With the demand for Vacuum Excavation growing, a range of vacuum excavators were purchased with twin and triple fan systems offering spoil capacities between 8m³ to 12m³.

Available to hire 24 hours a day, 7 days a week, 365 days a year, we also provide fully trained and certified operators to hire alongside the excavator.

ABOUT OUR SERVICE

Vacuum or Suction excavation is a safer and more efficient way of excavating around underground services using high pressure air or water to loosen the soil and immediately vacuum it away.



VALUE

With Safe Excavation, you will always receive good value. By hiring one of our machines, you will excavate the safe way as well as saving the cost of labour



QUALITY

We continue to deliver the very best customer service by ensuring that our machines are regularly checked, serviced, and cleaned to provide maximum uptime, reliability and availability for our array of clients.



SERVICE

Last minute booking? Extra time needed? Our team prides themselves on delivering all requirements needed by our customers. No matter the problem, we have the solution.

Our Equipment



Compact Excavators

Our Compact Excavators can either hydro excavate or use compressed air to expose underground services in tight or confined areas.



Large 12m3 Excavators

Similar to our Compact Excavators, our large 12m3 excavators also use either hydro excavate or compressed air. These machines are far more suited to larger, more heavy duty applications.

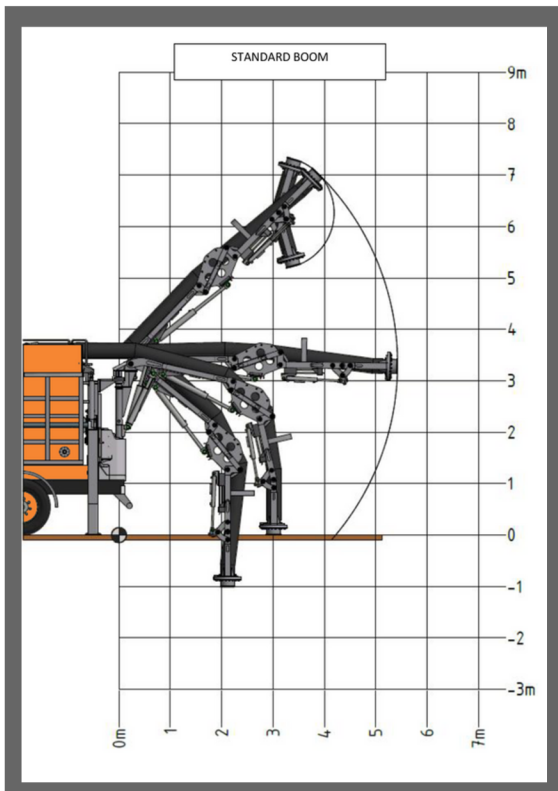


Trained Operators

We pride ourselves on having a fully trained team of competent drivers who hold current safety construction site certifications.

Vacuum Excavator Specifications

	Standard 32 Tonne	Standard 26 Tonne
Width	2.5 Metres	2.5 Metres
Length	10.1 Metres	9.7 Metres
Height	4.1 Metres	3.8 Metres
Wheelbase	5.85 Metres	5.85 Metres
Tipping Height	5.85 Metres	5.2 Metres
Gross Weight	32,000 KG	26,000 KG



Our machines are able to suck wet or dry material and have dust free exhaust outlets. They have varying hopper sizes ranging from 6m³ to 12m³ and have a suction depth of up to 75m and a suction length of up to 250m, depending on material. Our excavators are also equipped with a hydrostatic drive enabling the suction arm to operate and move simultaneously.

Benefits of Using Vacuum Excavation



Vacuum excavation (suction excavation as it is sometimes known) provides a safer, low risk alternative to traditional excavation techniques. Our high suction powered trucks expertly lift away ground, with little risk of damage or personal injury. It is the smartest, safest, fastest and most economical method of excavation.



Safety



- Avoids dangerous and costly service strikes and penalties.
- Reduces road closures and working areas.
- Eliminates the risk of injury to the excavation teams.

Financial



- Reduced reinstatement costs
- Reduced disposal charges
- Reduction in vehicle support charges and costs
- Reduced demand for on-site labour

Environmental



- Reduces environmental damage
- No 'mud run off', of spoil to surface drains.
- Less vehicles required, meaning less pollutions, disruption and mess

Training and best practice

Our operators have a range of certifications to ensure best practice on sites. After completing extensive equipment training and coaching, each operator achieves a minimum of CSCS certification, followed by EUSR SHEA, EUSR Water, Highways England, North West Gas Alliance, Wales and West Gas Alliance, TRIIO, Confined Space, BESEC, Safety Critical Medical, SPA Petro Chemical Forecourt, Street Works, Thames water Pass, Safety Critical Medical, CPCS A78 and A78 and PTS to name a few. As part of our commitment to on-site health and safety, our vacuum excavation solutions also incorporate any additional training regulations and initiatives individual sites may have.

Accreditations

As we continue to grow and extend our client base we also continue to undertake new accreditations to ensure full capabilities across your contracts.

Some of our accreditations include: Constructionline, Achilles UVDB, Achilles Buildingconfidence, SMAS, CHAS, Safe Contractor Plus, Exor, CPA, RHA, & FORS



THE TRACKED-VAC

We remain committed to advancing vacuum excavation technology, focusing on educating the industry and delivering innovative solutions. In partnership with our manufacturer, MTS, we have transformed advanced concepts into practical designs through a rigorous 12-month development process.

Our latest innovation is the Tracked Vac from Safe Excavation Ltd, designed for superior performance on rough and remote terrain.



Its tracked undercarriage allows access to off-road locations unreachable by traditional wheeled trucks, making it ideal for precision excavation on buried surfaces. Combining the high-performance fan system and suction hose diameter of the renowned 26-ton Dino 3 with an 8-metre chassis and a powerful 525-horsepower engine, it sets a new benchmark in excavation capability.

KEY FEATURES:

- *Superior traction on rough, uneven, and soft terrain.*
- *Accesses remote, off-road, and cross-country sites.*
- *High-powered suction ensures safe excavation around utilities.*
- *Minimises damage to underground infrastructure.*
- *Operates in mud, sand, gravel, and rocky conditions.*
- *Ideal for construction, railways, and sensitive environments.*
- *Navigates tight spaces and steep inclines with ease.*
- *Perfect for urban, forested, and mountainous areas.*
- *Hydro or air vacuum excavation protects underground utilities.*
- *Reduces environmental impact compared to mechanical digging.*

20T TRACKED UNIT

SPECIFICATIONS

Engine:

Deutz 12.0 V6 Tier 4
HP: 390kW 525 horse power

Compressor:

4.5m³/hr
8 bar

Drive Train:

Track Width: 600mm / 2535mm (total machine)
Track Length: 5310mm
Height to Under Carriage: 520mm
Max Speed: 4km/h

Capacity:

4.5m³ (10 tonne) Spoil Container

Suction Power:

Full 900mm Twin Fan Power
Air Movement: up to 44,000m³/h
Vacuum: Up to 0.34 bar
3 Speed Fans
250mm Hose
Working Distance up to 100m
Working Depths in excess of 20-30m

Filters:

42 Polymer Filters
Easy Change Filter Basket

Arm:

Operating Distance: 3.5m

Control:

Full Radio Control
Umbilical Remote Control
(for areas with radio frequency)

Overall Dimensions: L: 7620mm

W: 2535mm

H: 3160mm

THE AIR-VAC VACUUM EXCAVATOR

The Air-Vac Vacuum Excavator uses high-velocity air to safely and precisely expose underground utilities without damage. Ideal for utility work, railway maintenance, and construction, it operates in confined spaces and challenging terrains. Its dry excavation method eliminates water use, reducing environmental impact and site restoration costs.



KEY FEATURES:

- *Uses high-velocity air instead of water, ensuring a dry excavation process.*
- *Safely exposes underground utilities without the risk of water damage.*
- *Provides superior traction on rough, uneven, and soft ground.*
- *Ideal for remote, off-road, and environmentally sensitive areas.*
- *Self-contained unit with onboard debris storage for extended operation.*
- *Reduces downtime and enhances productivity in difficult-to-access locations.*
- *Can navigate tight spaces, steep inclines, and confined job sites.*
- *Suitable for urban, industrial, railway, and construction applications.*
- *Eliminates the need for water, reducing waste disposal and environmental impact.*
- *Minimises site restoration costs by preserving surrounding ground conditions..*

AIR-VAC TRACK SPECIFICATIONS

Length	2600mm/4670mm* (102.36 in / 183.85 in)
Width	1000mm/1810mm* (39.37in/71.26in)
Height (top of exhaust)	1950mm/2380mm* 76.77in/93.7in)
Height (at min. tipping)	1800mm**(70.87in)
Height (at max. tipping)	2580mm* (101.57in)
Weight	1750kg/2250kg*
Debris Skip Capacity	30.2m (44 gal)
Hose Inlet	125mm / 5in
Vacuum	Turbine
Hydraulic PTO A	25 l / min @ 2175 psi (6.6 gpm @ 150 psi)
Hydraulic PTO B	50l / min @ 2175 psi 13.2 gpm @ 150 bar

**Loaded on a Challenger 50 trailer.*

***Including optional AV2-ARM-03*

Machine weight can vary depending on specification

Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. Illustrations do not necessarily show the standard version of the machine.

THE CITYSUCKER



Introducing the Citysucker by Safe Excavation – a high-performance vacuum excavation unit engineered for tight-access urban sites. Its compact design allows for precision excavation in areas where larger excavation units may struggle to operate, all while minimising disruption to surroundings. Delivering up to 32,000m³ of airflow, the Citysucker is powerful enough for demanding jobs yet designed with the city in mind.

Why Choose the Citysucker?

- Optimised for Urban Worksites - Navigate restricted access areas and narrow streets with ease.
- Efficient and Precise - High suction power ensures fast, safe excavation with minimal surface damage.
- Community Friendly - Operates with reduced noise and environmental impact.

CITYSUCKER

SPECIFICATIONS

Chassis Options	12, 16 or 18T
Length	6,200mm
Width	2,300mm
Height	3190mm
Wheelbase	3600mm
Tipping Height	1320mm
Soil Capacity	1,200 or 1,600kg
Gross Vehicle Weight	9200kg

KEY FEATURES:

- High-capacity filter system
- Automatic pulse jet filter cleaning
- Pre-filter material separation for improved efficiency
- 7 bar / 140 CFM rotary compressor – power tools on-site
- 2m³ spoil tank with full hydraulic tipping system
- Telescopic boom with 180° swivel and 2.8m reach
- Dual spoil disposal: tip directly to ground or into bags
- Hose Options:
 - Single Fan with 250mm hose
 - Twin Fan with 200mm hose



THE BROKK

The Brokk Vacuum Excavator is a revolutionary remote-controlled solution for debris removal and maintenance tasks. It offers a no-dig, environmentally friendly method for excavation, particularly in urban and suburban areas, minimizing the risk of damage to hidden utilities and reducing unnecessary excavation.

SPECIFICATIONS:

- Safe, efficient, and environmentally friendly
- Handles heavy debris and materials removal
- Quick, targeted excavation minimizing disruption
- Suitable for diverse industries, including construction, waste disposal, and more

KEY FEATURES

- Remote-controlled operation for enhanced safety and efficiency
 - No-dig method for minimal disturbance and reduced waste
 - Ideal for the following sites:
 - Highway
 - Railway
 - Power
 - Construction
 - Tunneling
 - Disaster sites
 - Versatile and cost-efficient for various project sizes and scopes
- 
- A large, solid orange shape that starts as a thin wedge at the bottom left and expands diagonally upwards to the right, filling the bottom right portion of the page.

CONTACT US



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