



YOUR SAFETY IS OUR PRIORITY

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Service



SUCTION EXCAVATION HIRE UK
www.suctionexcavationuk.co.uk



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ABOUT SEUK

Suction Excavation UK provide operated Suction Excavator hire across the United Kingdom and Europe. We operate a out-of-hours emergency call out service, offering guaranteed truck dispatch within 60 minutes.

We offer free site consultations Nationwide by one of our highly qualified team supervisors to help you assess and plan your project. We operate from various depots across the UK, so we are never far away.

We operate vehicles from 14tonnes right up to 32tonnes. Each machine is unique with different fan arrangements, compressor sizes, standard or MEGA hydraulic arms, IKE systems, computer programmable height and slew restrictors, hydrostatic drive, left hand tipping, right hand tipping, or rear tipping.



ABOUT SEUK

WHAT IS SUCTION EXCAVATION?

Excavation is one of the riskier aspects of civil engineering and can be both costly and disruptive if a strike occurs.

Over the years there have been a number of innovations designed to improve the safety and speed of the excavation process, whilst minimising its environmental impact and reducing cost across the board.

One such innovation was that of suction excavation, a relatively new technique designed to improve excavation speed whilst reducing associated health & safety risks. Instead of using machinery to haul out soil and risk contact with a buried utility, a high-powered suction system is instead deployed to remove all unwanted materials, both solid and liquid, from an excavation.

When using a Suction Excavator, high pressure air is blasted into the excavation to loosen material and break any compacted material into smaller pieces.

Then the suction hose will be positioned over the material, which is then deposited into the hopper on the rear of the Suction Excavator. This method prevents any contact being made with a buried utility, avoiding costly repair bills, and more importantly removing the risk of an injury or fatality.

Due to the suction excavator technology being relatively low-impact and now destructive, it has fast become the preferred excavation method for most contractors.



HOW DOES SUCTION EXCAVATION WORK?

When carrying out vacuum excavation, a blast of air is first directed into the site in order to loosen soil and break up any large materials.

Afterwards, an air vacuum hose is passed into the site and used to suck the loosened materials out of the hole and into a specially designed tank, ready to be transported elsewhere or saved for refilling the site later.

Because vacuum excavation technology is relatively low-impact and non-destructive, it's fast becoming the preferred excavation method for fuel and energy distribution industries, as well as other industries for whom both human safety and environmental impact are major factors.

It's also been successfully deployed in situations where congenital digging equipment has been deemed inappropriate, or areas that are inaccessible to larger machinery.



WHY USE A SUCTION EXCAVATOR?

A Suction Excavator has much less of an environmental impact than traditional mechanical excavators. It reduces the need for manual hand digging, which greatly increases safety for groundworkers and the general public.

It is important to remember that Suction Excavation is exponentially faster than other excavation methods, which is essential for reducing disruption to the general public, business and services, especially within urban areas.

Finally, because Suction Excavation is so precise, it is much easier to carry out repairs once the excavation has been completed; again this has a positive knock-on effect on the environment, as there has been minimal damage conducted.



OUR FLEET



FHOSSFIELD

SEUK's commitment to the promise that "your safety is our priority" is confirmed and enhanced by the addition of the latest advanced warning system for pedestrian segregation.

SEUK are the worlds first Suction Excavator operators to use pedestrian segregation systems on their machines. This rights to use this patented technology are owned by SEUK. By introducing a bespoke pedestrian segregation product to keep pedestrians safe around dangerous excavation equipment, SEUK is leading the safety agenda within the Suction Excavation industry.



Collaborating with FHOSS, the global innovators in illuminated safety solutions, SEUK has co-designed the ultimate segregation solution for Suction Excavators which not only provides a clear 360 degree visual exclusion zone, but also uses AI cameras to detect, audibly warn, and record pedestrian excursions into the danger zone. This enables us to both prevent accidents and change pedestrian/operator behaviour.

The FHOSSFIELD for Suction Excavation is exclusively available from SEUK.

"We like to work with forward-thinkers – people who go way over and above the accepted safety norms to make the world a safer place. The Directors at SEUK have shown the commitment and leadership to futureproof safety, which resonates with our ethos. We are thrilled that they are leading this initiative in such a high-risk industry and value them as an approved FHOSS Dealership."

John Ward Operations Director FHOSS

26T TRIDEM

The 26T TRIDEM Suction Excavator is identical to the 32T TRIDEM, except for a smaller hopper measuring in at 9m³. Most of these machines have a standard hydraulic arm with 5.5m reach.

The reduced vehicle length allows the 26T machine more manoeuvrability and is better suited in areas with narrow access. Again, any material up to 250mm diameter can be easily excavated, as well as foreign objects.



DINOCITY

BIG PERFORMANCE FOR A SMALL POWER PACK

Specialist in small sites

No street too narrow for the DINOCITY – this machine was specially developed for sites with restricted access. Traditional 3 and 4 axle machines are usually too large, or too heavy for work on footpaths, complex road layouts, narrow alleys, and especially pedestrian zones.

With our DINOCITY, we offer exceptionally efficient solutions for works such as exposing lines for gas, water, fibre, etc. This machine is also ideal for sucking up sludge and solid material in sewers, ponds, as well as tree and root treatment using soil replacement without damaging the root system.

Revolution in the smallest of spaces

With its unmatched manoeuvrability and powerful suction performance, our latest DINOCITY can operate optimally in confined spaces. Extraction of material is done quickly and without the risk of damaging lines, cables, or pipes, which when using conventional mechanical machinery is a daily occurrence. This compact but capable suction excavator is twelve times quicker than hand digging.

Significantly increased action radius and reach; which makes the DINOCITY ideal for working under bridges, in trenches, as well as vertically.



DINOCITY

Our DINOCITY Unit is ideal for inner city locations where access for 3 or 4 axle vehicles is impossible. The DINOCITY is only 7m long with a 3.8m short wheelbase and a height of only 3.3m.

The DINOCITY boasts a twin-fan unit with a fully hydraulic power arm, also equipped with an IKE system for agitating hard ground. The performance levels are similar to a TRIDEM machine.

The DINOCITY helpfully tips from the rear, out of a 3.5m³ hopper. Exclusively on the DINOCITY, this compact Suction Excavator can also tip directly into one tonne bags, two at a time.



DINOCITY



DINOCITY – AT A GLANCE

THE INNOVATIVE SYSTEM FOR A DECISIVE ADVANTAGE

Equipment and technical parameters

- Height: 3.3m; Length 7m (Volvo FL); Short wheelbase: 3.8m
- Container: 3.5m³
- Empty weight: 13.8t (VOLVO FL hydrostat)
- More than 4t legal vehicle load capacity (e.g. >2.6m³ of sand)
- Large size suction hose diameter d = 20cm for sucking up coarser earth materials
- 4.5m³/min, 8 bar air compressor for operating professional pneumatic tools such as pneumatic spades, compressed air spades and demolition lances
- Dual-fan technology: Variably adjustable suction capacity up to the highest suction capacity in its class
- State-of-the-art HMI interface New rear cover closure system
- Installation of the compressed air hose reels on the left and/or right
- Centre-mounted, stable force arm (EVOARM) for working to the left and right of the vehicle
- Remote control for easy operation of the power arm and the emptying functions (optionally with hydrostat)
- High level of soundproofing
- One tonne bags, two at a time, for clean deposit and convenient removal
- Professional suction superstructure on all truck carrier vehicles from 12-16t



BROKK 120

Our new Brokk units allow us the flexibility to work anywhere, no matter the access, or the distance from the road. When married with our state-of-the-art Triple Fan Suction Excavator, our Brokk systems can excavate over 100m away from the main suction excavation unit.

This equipment is a favourite with rail contracts. The Brokk is the perfect tool to use on train station upgrades & UTX works due to its manoeuvrability.

The Brokk system can be applied in any way you need. For example, if the Brokk needs to be working at height such as on a roof or a platform, the Brokk can be lifted into position.

We offer free site consultations anywhere in the UK to assess the works required and advise the correct method of excavation and what equipment you will need.

The Brokk 120 is perfect for excavation at distance. This lightweight robot offers impressive versatility for use in safe excavation in and around utilities, buildings, airports, railways, culvert cleaning, and roadworks.



Due to their versatility and the fact they're fully remote controlled via our highly skilled operators, our new Brokk units can be used for a range of applications, including:

- ✓ Safe excavation in and around buildings
- ✓ Grass fieldwork
- ✓ Airports
- ✓ Rail
- ✓ Demolition
- ✓ Culvert cleaning
- ✓ Motorway embankments
- ✓ Passageway works

BROKK 520D

The Brokk 520D outperforms all other diesel-powered machines of its size. It is stronger, faster, and has a longer reach, all while maintaining the same compact size as its predecessor, the Brokk 400D.

The 520D is perfect for powerful demolition in places where there is not a reliable power supply and makes it the perfect machine for the most demanding tasks in all industries.

The Brokk utilises non-conductive 250mm flexible suction hoses when working at distances. The flexible suction hoses provide you with a 'go-anywhere' ability, as the pipes can be positioned at almost any angle and can be diverted around or over obstructions.

The Brokk 520 is ideal in remote and boggy conditions. This capable robot will conquer most challenges – its huge tracks allows it to traverse in all terrain conditions, meaning however remote your excavation is, SEUK can get the job done.

- ✓ 7 meter reach
- ✓ Diesel-powered
- ✓ Reliable Brokk SmartPower™
- ✓ Compatible with all Brokk 400 and Brokk 500 attachments



TRIPLE FAN



Our Triple Fan unit is identical to a 32T TRIDEM Suction Excavator, except that it has the added power of a third fan which provides supreme suction. When paired with our tracked Brokk system, the Triple Fan unit can excavate from a distance of up to 100m.

TRACKED VAC

Our Tracked Vac is an all-terrain suction excavator which is perfect for hard to reach areas, fields, inner city developments, etc. This machine is perfect for lamp post columns, embankments, and other works requiring only small excavations.

While the machine has its limitations due to its physical size and power output, it is surprisingly effective and you will be impressed with the productivity it achieves.



EXTENSION PIPES



Extension pipes are used to reach depths which are not usually achievable when using a suction excavator. We have hundreds of metres of flexi extension pipe available for hire on request.

MEGAAIR

Our MEGAAIR unit is a one-of-a-kind unit in the whole of Europe. It replaces the traditional 4.5m³/min air-flow compressor installed in all other Suction Excavators with a larger, high-performance compressor producing up to 10m³/min.

This enables the use of much higher flow air-lances for significantly improved ground-loosening. The increased efficiency achieved on site when using the MEGAAIR, according to our own customers, is around 30%. That level of improved efficiency could be the difference between completing a job in a single day or progressing into a multi-day excavation.

In conditions where the ground is hard clay, where standard air lances can't even scratch the surface, if the MEGAAIR is chosen then increased efficiency achieved from the MEGAAIR compared to a standard compressor can be up to 70%.

Technical Specification

Compressor:	Mattei
Model:	M135J
Max. Flow:	10m ³ /Min (353cfm)
Max. Pressure:	13bar (188psi)
Air Lance	Up to 330cfm output



32T TRIDEM

Our 32T TRIDEM Suction Excavators are perfect for long-reach excavations. All our 32T TRIDEM machines are equipped with a MEGAARM, boasting a massive 7.2m reach. These machines boast a 12m³ capacity skip which dwarfs our competitors' machines which are usually only 9m³ as standard. The extra capacity decreases tipping frequency, which increases productivity. Any material up to 250mm diameter can be easily excavated, as well as foreign objects.



32T TRIDEM



SEUK RAIL

In the world of the Railway Industry, precision and efficiency are paramount. Suction Excavation UK is your trusted partner in elevating rail projects through our expertise in vacuum excavation. Our vac ex's are purpose-built to address the unique challenges you face, and here's how:

Ballast Perfection: Our excavators excel in the precise removal and relaying of ballast beneath railway lines. With our cutting-edge technology with our unique Rake Nozzle, we ensure that this critical task is executed flawlessly, minimising disruptions, and enhancing productivity!



But that's not all – our vacuum excavators are your ultimate solution for:

Equipment and technical parameters

- **Level Crossings:** We bring precision and safety to level crossing projects, ensuring optimal functionality and longevity.
- **UTX/URX Works:** Count on us for efficient UTX/URX works, making rail maintenance a seamless and smooth operation.
- **Drainage and Catchment Pits:** Suction Excavation UK can assist with drainage projects with the utmost precision, safeguarding the integrity of your rail network.
- **Foundation Work:** Whether it's signal foundations or alike, we can help.
- **Maintenance Excellence:** From exposing points and railway sleepers with precision to cleaning track and tunnels.
- **Environmental Responsibility:** We assist in cleaning and maintaining the drainage and discharge systems in tunnels and bridges.
- **Safety Measures:** Trust us for the removal of debris and a multitude of other safety aspects.
- **Hard to reach areas:** With a diverse range of Brokk and tracked systems, we have a solution!

All our operatives are PTS holders.



HEALTH & SAFETY EVENTS



We often host Health & Safety Events to encourage safe practice with all existing and prospective customers. During these Safety Stand Down days, we host demonstrations of safe work practices when working with a suction excavator, as well as how the machine works. Please get in touch if your team would like to be invited to our next Safety Event.

SPECIALIST SUCTION EXCAVATION

Each of our machines come with a vast selection of fan arrangements to suit your requirements and different back arms for every application. We are pleased to be able to offer a specialist Suction Excavation department. This method can be adapted to fit any size machine offering our clients the versatility of the tracked excavator and the safety of suction to achieve their end goal safely and quickly.



LEFT-HAND TIP FOR HIGHWAYS



We operate a fleet of specialist left-hand tipping units to better service our Highways clients. This means often there is no need for the suction excavator to leave a lane closure to tip spoil. It also often eradicates the need for a grab lorry.

Additionally, our left-hand tipping units upon request can be provided with hydrostatic drive which is ideal for trench work as the truck can be driven backwards and forwards from the Operators remote control.

RIGHT-HAND TIP



The right-hand tipping unit is an industry standard specification. This permits for the hydraulic power arm to be positioned on the left-hand side of the vehicle, allowing for superior reach when excavating.

The majority of our units come as right-hand tipping units, including the MEGAAIR and Triple Fan suction excavators.



**Suction Excavation UK
are constantly pushing
the boundaries of Suction
Excavation, using new
equipment and striving
towards non-mechanical
excavation.**

**24/7
Call Out
Service**

We are continuously improving site safety across a wide range of industries. Please get in touch for more information.



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