

The logo for VAC UK is centered in the image. It consists of a large red hexagon containing the word "VAC" in white, bold, sans-serif capital letters. To the right of "VAC" is a smaller grey hexagon containing the letters "UK" in white, bold, sans-serif capital letters.

VAC UK

VACUUM EXCAVATION



WHO ARE WE?

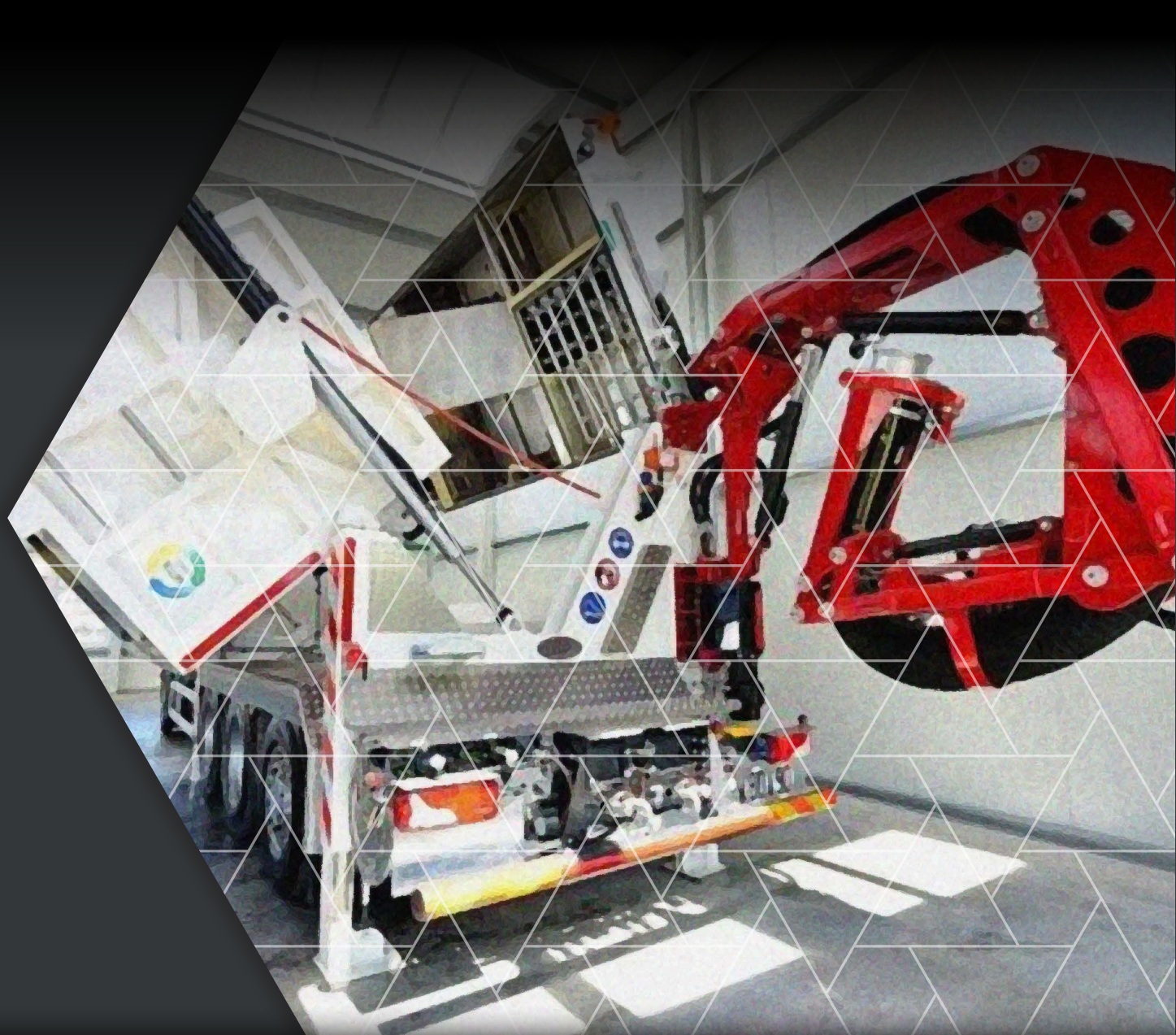
VAC UK are specialists
in vacuum excavation

We are here to support you
with the latest vacuum excavators
and our professional operators to
ensure you get your job completed
safely, on time and in budget



WHY CHOOSE VAC UK?

- Fleet of Dino and ESE vacuum excavators
- State of the art vacuum excavators - newest fleet in the UK
- Expert operators
- Available 7 days a week, 24 hours a day



AIRPORTS



HIGHWAYS



RAIL



WATER



GAS



POWER



TELECOMS



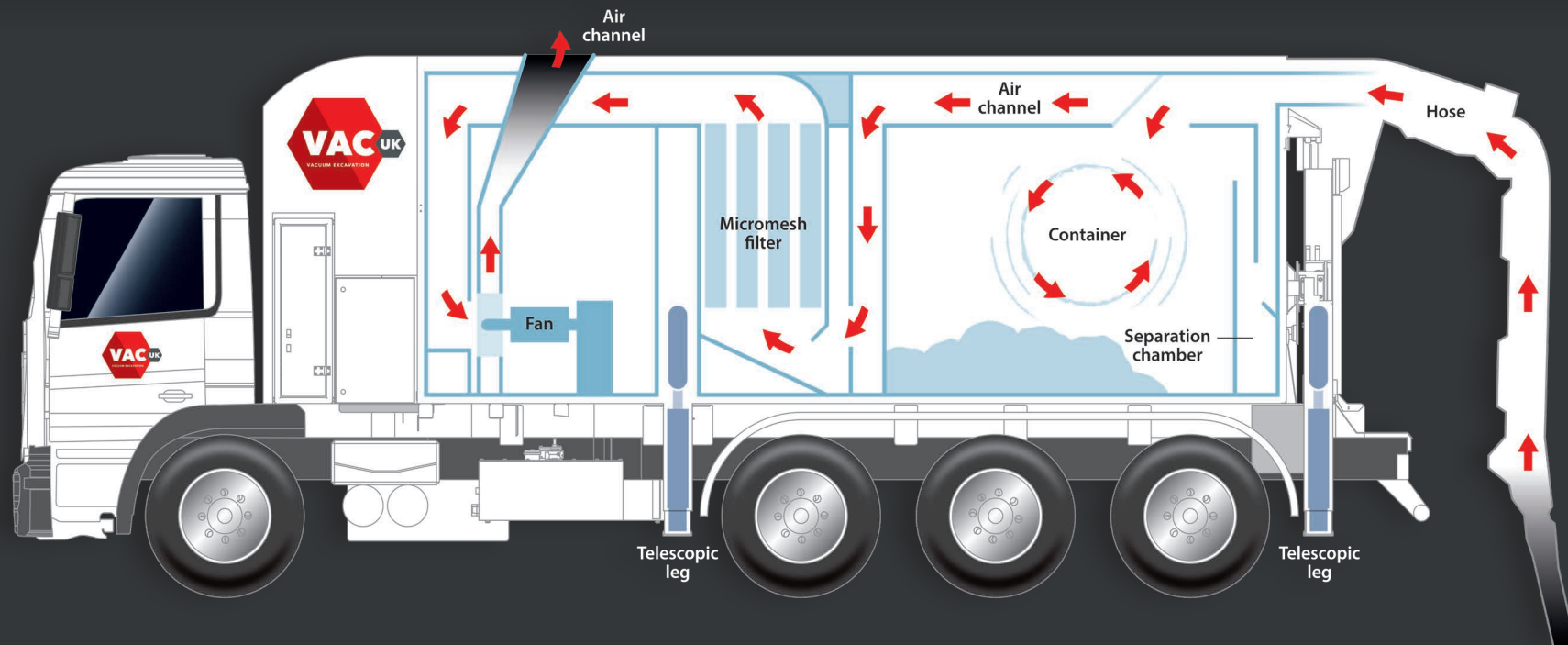
WHAT IS VACUUM EXCAVATION?

It is a safer, more environmentally friendly and cost efficient method of excavating



HOW DOES IT WORK?

Through high volume air flow



**MANUAL/
TRADITIONAL
EXCAVATION
METHODS ARE
MORE PRONE TO
STRIKES**

**HAND TOOLS
ACCOUNT FOR
GREATEST NUMBER
OF UTILITY STRIKES -
OFTEN DESPITE
PRE-EXCAVATION
SCANS¹**

**IN 2017 TIER 1
CONTRACTOR FINED
£600,000 WHEN
SUBCONTRACTOR
WORKER HIT
ELECTRICAL CABLE
& WAS INJURED³**

**APPROX
4 MILLION
EXCAVATIONS EVERY
YEAR TO INSTALL OR
REPAIR BURIED
UTILITY PIPES
AND CABLES¹**

**AVERAGE
UTILITY STRIKE
COSTS £30K
BUT CAN RUN
INTO MILLIONS²**

**APPROX. 12
DEATHS AND 600
SERIOUS INJURIES
ANNUALLY FROM
CONTACT WITH
ELECTRICITY
CABLES¹**

1. Metje, N, Ahmad, B & Crossland, SM 2015, 'Causes, impacts and costs of strikes on buried utility assets' Institution of Civil Engineers. Proceedings. Municipal Engineer, vol. 168, no. 3, pp. 165-174. DOI: 10.1680/muen.14.00035 2. A Report by the University of Birmingham – School of Civil Engineering, January 2016, Authors: Dr. Lewis Makana, Dr. Nicole Metje, Prof. Ian Jefferson, and Prof. Chris Rogers. 3. Construction News: <https://www.constructionnews.co.uk/best-practice/health-and-safety/amey-fined-600000-after-worker-set-on-fire/10018083.article>

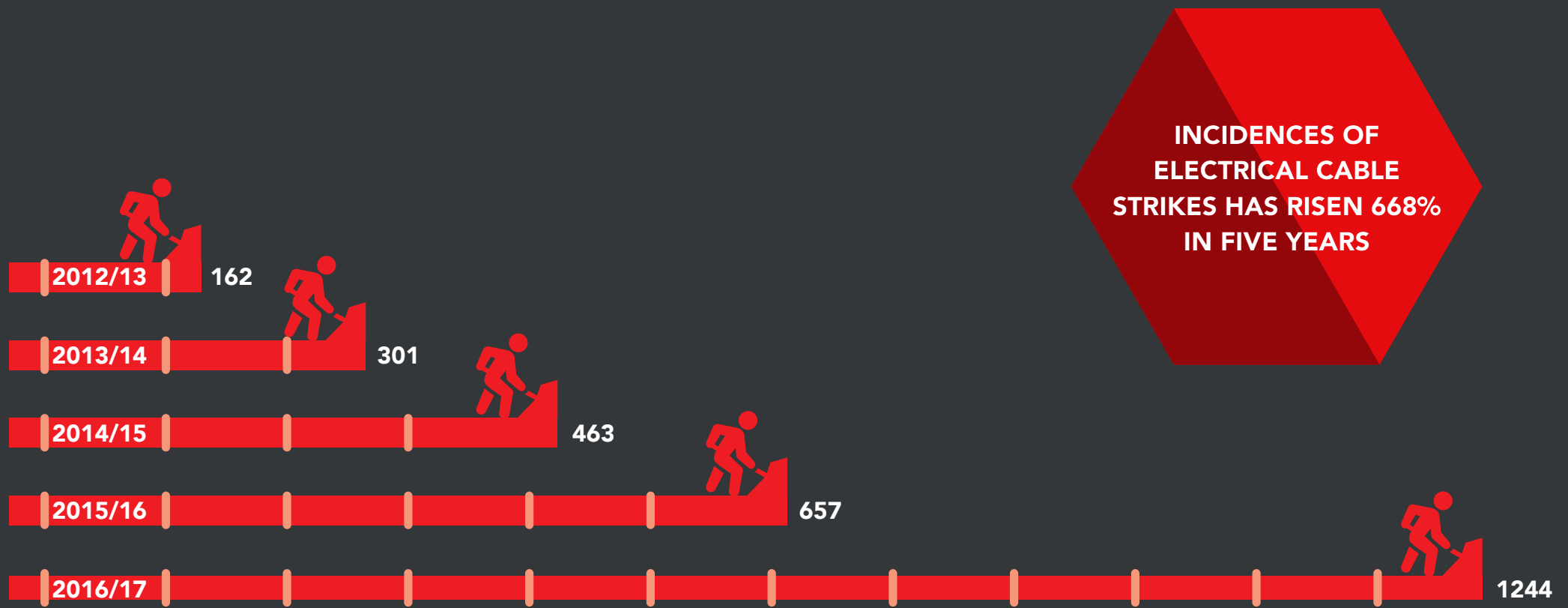




**THE UK COMBINED
NETWORK OF WATER,
SEWER, GAS & ELECTRICITY
PIPES IS ROUGHLY 5 X
LONGER THAN THE UK
ROAD NETWORK!!**

1. A Report by the University of Birmingham – School of Civil Engineering, January 2016, Authors: Dr. Lewis Makana, Dr. Nicole Metje, Prof. Ian Jefferson, and Prof. Chris Rogers





The number of 'safety related electrical incidents' caused by underground cable, joint or link box damage reported under the requirements of the Electricity, Safety, Quality and Continuity Regulations 2002 to the HSE¹.

1. Linesearch before you dig. Digging up Britain Report.



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**HOW WILL
A SERVICE
STRIKE
AFFECT
YOU?**



TIME



LIFE



COST



REPUTATION



REPAIR



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**VACUUM
EXCAVATION
IS SAFER!**



**MAXIMISES
OPERATIVE SAFETY
BY MINIMISING
MANUAL HANDLING**



**EXTENSION TUBE
MADE FROM P.E. PIPE
TO REDUCE UTILITY
DAMAGE**



**EXTENSION TUBE
INSULATES VEHICLE
AND WORKFORCE
WHEN WORKING IN
HIGH RISK AREAS**



**HYDRAULIC POWER
ARMS TO INCREASE
MANOEUVRABILITY
& REDUCE MANUAL
HANDLING**



**OVER 60%
REDUCTION OF
UTILITY DAMAGE
COMPARED TO
TRADITIONAL
METHODS**



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**VACUUM
EXCAVATION
INCREASES
PRODUCTIVITY!**

**SUPERIOR
EFFICIENCY
TO MANUAL
WORK**

**REDUCES
STAFF
WORKLOAD**

**GREATLY
REDUCES
CONSTRUCTION
TIME**

**EASY TO COLLECT
AND REMOVE
SOLID AND LIQUID
SUBSTANCES**

**READY TO
OPERATE
IMMEDIATELY**



**VACUUM
EXCAVATION -
MORE EFFICIENT,
LESS DISRUPTIVE!**

**EXCAVATE IN A THIRD
LESS SPACE THAN
A MINI-DIGGER**

MULTIPLE USES

**CLEANER MORE
COMPACT SITES,
THEREFORE LESS
DISRUPTION
AND WASTE**

**CAN BE
COMBINED WITH
SOIL ENGINEERING
EQUIPMENT
IMPACT MOLES
KEYHOLE
LIQUID SOIL**

**STAND-ALONE
MACHINE
OPERATION**



WHERE CAN VACUUM EXCAVATION BE USED?

EMERGENCY
SERVICES

WASTE
TRANSFER &
DISPOSAL

INSTALLING
TRENCHES &
PIPELINE

TUNNEL
BUILDING

BUILDING
RENOVATION

INSTALL
NEW UTILITIES
& WORK
AROUND OLD
ONES BELOW
GROUND

TREE ROOT
RENOVATION

DISASTERS



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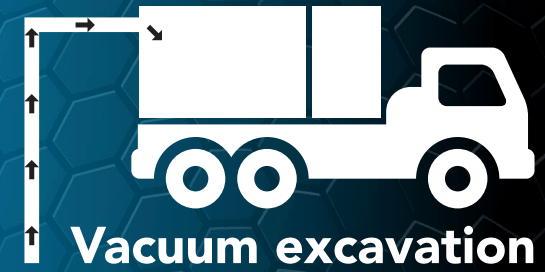
CUBIC METRES OF MATERIAL REMOVED IN 6 HOURS:



Manual excavation

<1m³ - Normal soil,
with buried pipes/cables

180m³ Water



60m³ Sandy soil

36m³ Muddy soil, gravel and crushed rock: 36m³

24m³ Moderately heavy soil, with buried pipes/cables

18m³ Wet and heavy soil/clay

15m³ Dry and heavy soil

10m³ Heavy soil, with buried pipes/cables



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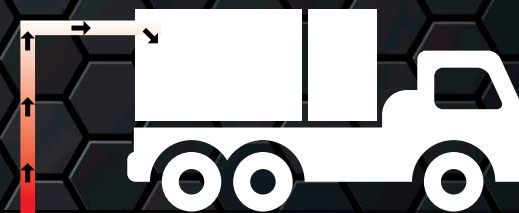


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	MANUAL HAND-DIG METHOD	VACUUM EXCAVATION
EXCAVATION DAILY AMOUNT PER CUBIC METRE (MATERIAL DEPENDENT)	One man: 2 cubic metres	25 cubic metres
AVERAGE DAILY COST	£150 (plus affiliated costs)	£1,100 (including unit and labour)
TOTAL COST PER CUBIC METRE	£75	£44



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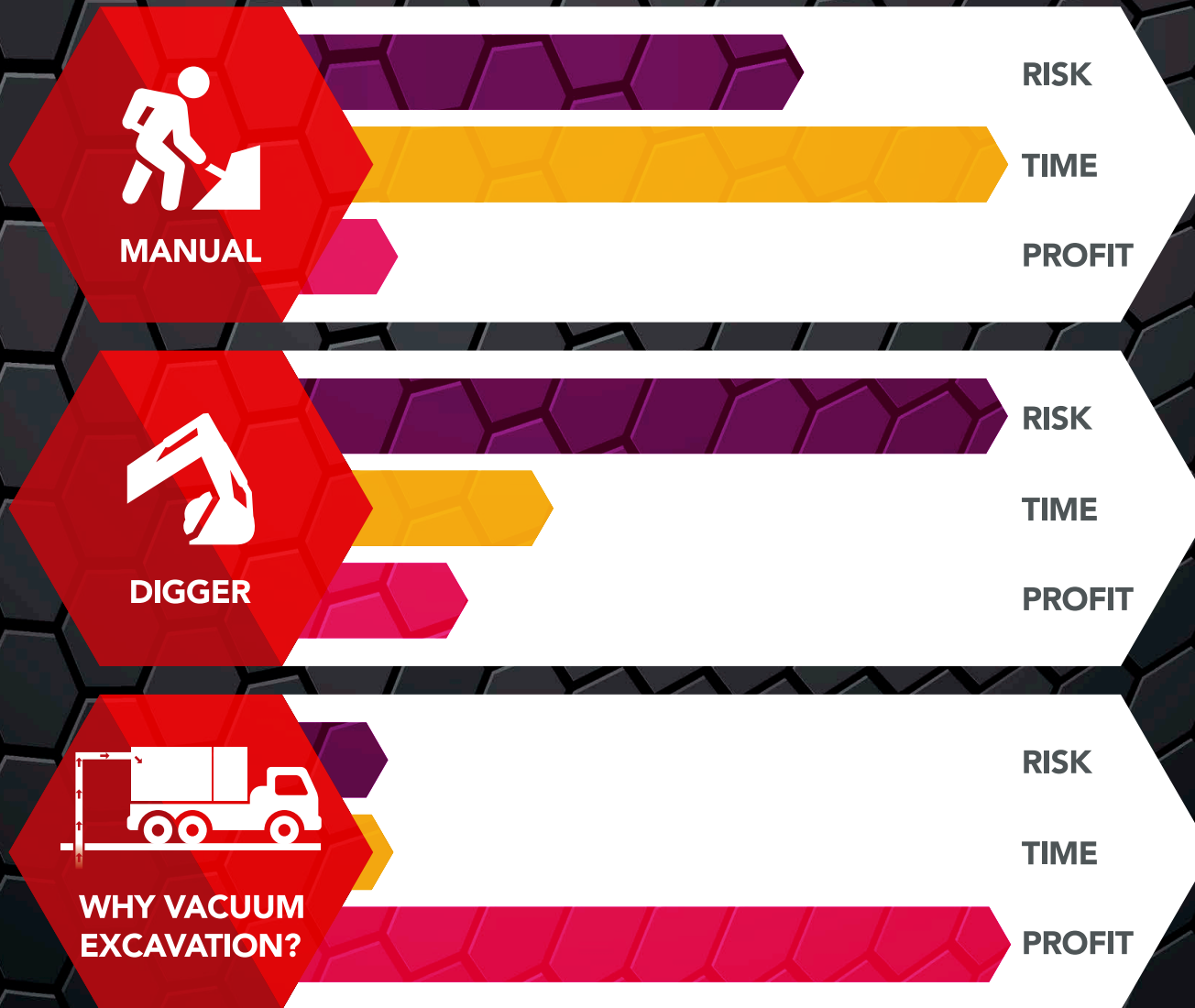


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1. RSP Saugbagger International Applications brochure.



REDUCED ENVIRONMENTAL IMPACT

Removes the ground between trees and shrubs - minimising root damage

Grab loader is more time efficient - minimising disruption to public, traffic and greatly reducing third party damages

Less lorries needed on site therefore reducing the carbon footprint



REDUCED ENVIRONMENTAL IMPACT

Size of excavation
up to a third smaller
than those using
conventional
methods

Excavated material
is transported directly
into the truck and tipped
in an allotted zone so
site is cleaner

Sites are smaller
improving pedestrian
access and two way
traffic flow



VACUUM EXCAVATION

**SAFER THAN
MANUAL AND
MACHINE
METHODS**

**COST AND TIME
EFFICIENT**

**LESS WASTE &
LESS DISRUPTION**

**LESS RISK OF
STRIKES WHICH
COST YOU IN PAY
OUTS, REPAIRS AND
REPUTATION**

**MULTIPLE
USES**





VAC **UK**

VACUUM EXCAVATION

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