

# W M Donald

## Suction Excavation



# What is a Suction Excavator?

Take 1 Rigid Chassis



Lots of Suction



Suction Excavator



# How does it work

Thin Stream Process or dilute phase conveying

Large fast flowing column of air - 120mph 432km/h

Low material transport compared to air throughput

ESE32 (8) – up to 44,000m<sup>3</sup> Air per hour at 55,000Pa

Vacuum

computer-optimized  
sound-absorbing unit

efficient  
micromesh filter

patented  
separation system

standard radio  
remote control



high performance  
fan

integrated  
compressor

hydraulically driven  
articulated hose carrier

resistant  
tilting container

# Configurations

Typically mounted on Rigid chassis 18-32T

Most Common 26T



# Configurations

Trailers + Towable - ESE1 and I-Vac 1T Capacity



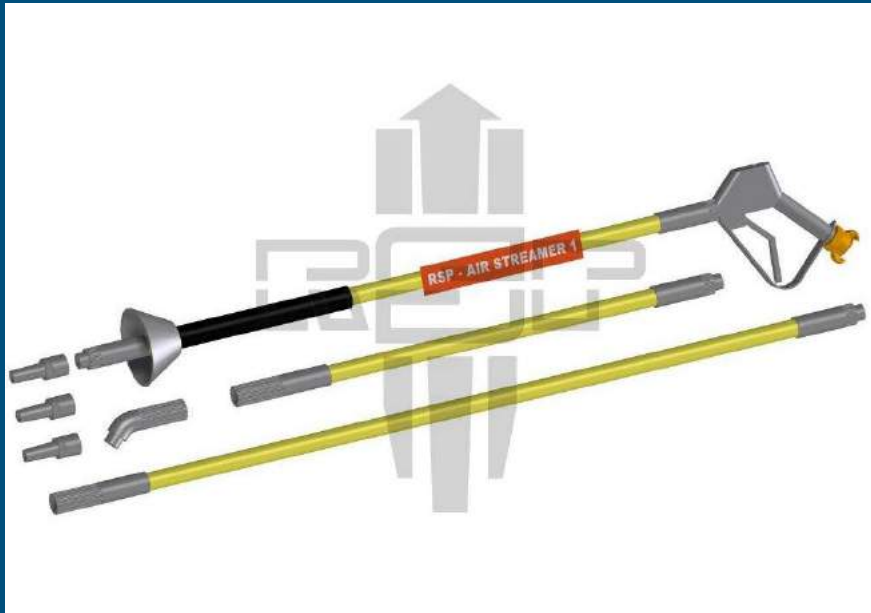
# Configurations

## Special Units – Rail and Tracked



# Configurations

## Accessories





# Uses

Safe Working around underground services

Trial Holing to establish line and level of assets

Deep excavations

50m Vertical and  
100m Horizontal



# Uses

## Tree root excavation



# Uses

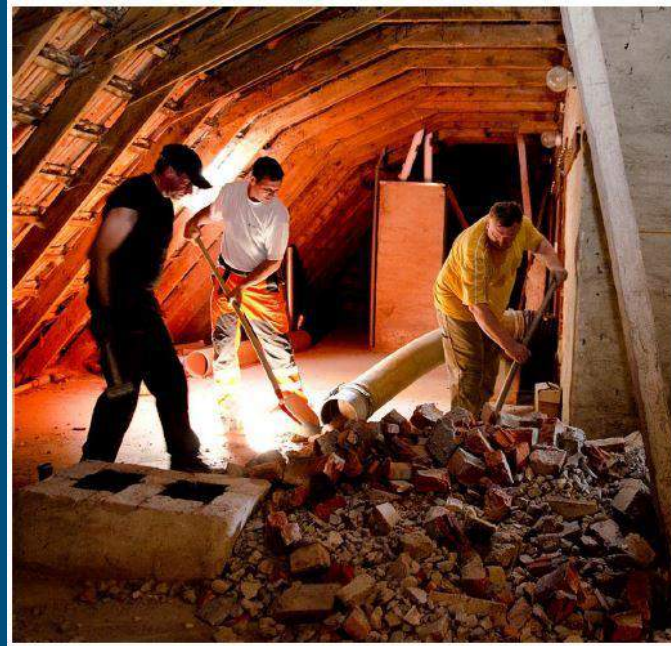
Basement works

Remote tools

Culvert and River

Bed works

Petrol Station



Filter Trench Rehabilitation

Flat Roof Stone Removal



# Benefits

No Mechanical interface – No Strike Risk

Air allows access to areas when man cant work

Clean excavation work area

Material can be reused

Significant Manual work reduction

Saves musculoskeletal injury – hand digging / lifting

No man entry to excavations

Increased production

# Typical Service Connection

