

SUPER SUCKER -

- Leading vacuum excavation provider since 2001
- Long time ORCGA member and supporter
- Total solution approach
- Early adopters of new technology
- Providing innovative solutions to industry challenges







RECOGNIZING INDUSTRY TRENDS

- Low Yield Loads 33% of Tank Capacity
- Decreased Onsite Excavating Time
- Dumping Increased Time & Fees
- Slurry Facility Challenges
- Increased Costs to Service Provider
- Increased Costs to Utility Owners
- Increased Carbon Footprint



INTRODUCTION



NORTH AMERICAN SOLUTIONS

Retrofitting Hydro Vacs

Dry Vacs Available

Soil Transfer Equipment

- Most Iterations Unsuccessful
- Not Engineered For Dry/Abrasive Materials
- More Maintenance Required
- Insufficient Suction Power (1000-1800cfm)
- Small Debris Tanks
- Serious Lack of Appropriate Options
- Small/Niche Jobs Only
- Costly Logistics Very Large Footprint
- Yet To Produce Beneficial Results



INTRODUCTION



EUROPEAN SOLUTIONS

• "Dry Suction" Known globally As The Safest Method of Excavation Around Underground Utilities



- German Manufacturer Since 1998
- Intentionally Engineered to Excavate Dry Materials
- Patented Technologies & Continuous Improvements
- Used In Over 40 Countries
- Responding To Global Demand





NOW AVAILABLE IN NORTH AMERICA

- Distributor since 2015
- Sister company to Super Sucker
- Factory Trained Service Technicians
- Growing demand in Canada and U.S.
- ORCGA Member

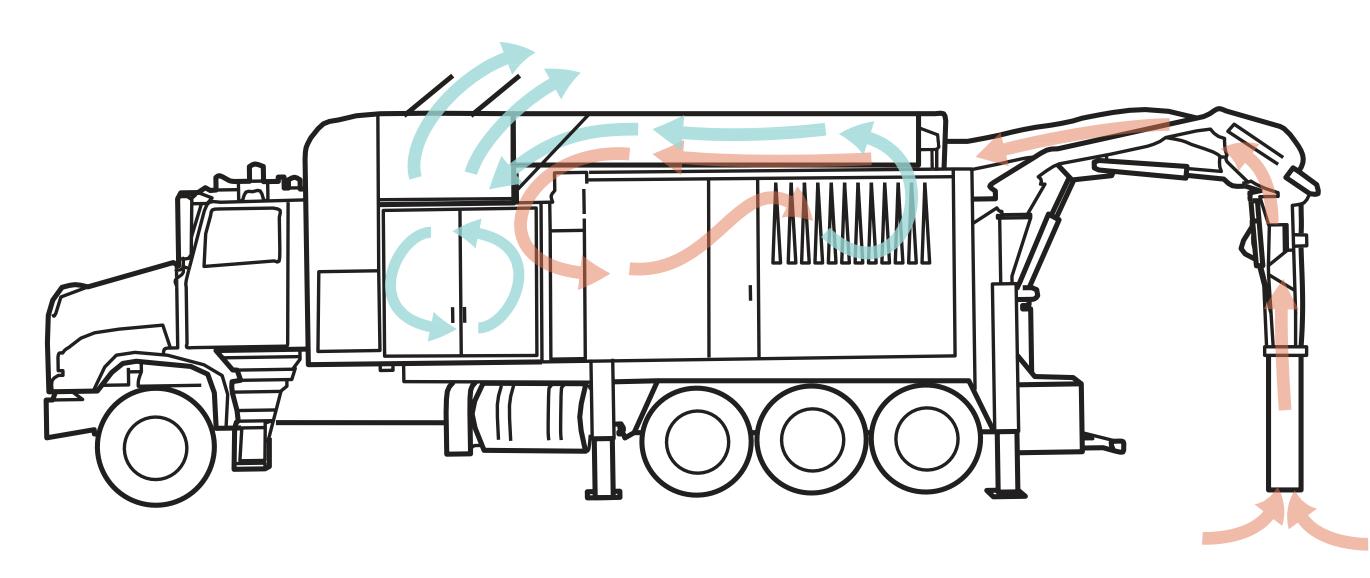








ADVANCED TECHNOLOGY



- Twin Fans generate 24,000 CFM
- 98% of material is gravity and impact separated kept in the primary container
- Sound dampeners keep dB ratings safe for public spaces 82dB
- 42 cone filters with HEPA compatibility
- Clean air is released through the top, controlling silica release





ADVANCED FILTRATION SYSTEM

- Auto Self Cleaning
- Continuous Operation
- Wet or Dry Material





CONTAINER

- 4.5 to 15 cubic yards
- Side-Tip Disposal
- High-Tip Capability





CONTAINER On-Site Dump

- Dig On Site
- Dump On Site
- Stay On Site





CONTAINER
Roll-off Bin Dump

Truck stays on site, spoils are removed.





CHALLENGES

- Historical dry vac experience
- Historical success of hydro vacs (still relatively new)
- Seasonality of Ontario market
- Varying ground conditions in Ontario
- First wave of trucks had limited success
- Lack of awareness
- Misunderstanding of ROI





SUCCESSES

- Onsite production rates
- Onsite disposal
- Contaminated disposal
- Winter operations
- Tree root protection
- Non-traditional applications
- Water Preservation
- Excavated Material Is Not Deemed Waste



































SUMMARY—

- Demonstrated cost savings available
- A viable vacuum excavation solution in many applications
- Happier technicians working in dry excavations
- Increased ROI as disposal constraints increase
- Continuing improvements in suction excavation technology
- Beneficial reuse of excavated material



ONGOING VALUE REVIEW PROCESS

Hydro Vac

14 hours x \$265.00/hr = \$3,710.00

9 hrs x 2 yards/hr = 18 yards/day

\$3,710.00 / 18 yards = \$206.00/yard

Dump \$1000 - 5000 = \$56 - 277/yard

Cost: \$262 - 483/yard

(Note: two dumps per day)

Suction Excavation

11 hours x \$400/hr = \$4,400.00

9 hrs x 2 yards/hr = 18 yards/day

\$4,400/18 yards = \$244/yard

Dump \$0 = \$0/yard

Cost: \$244/yard

(Added Benefit: reuse material, no

dump fee, no midday dump downtime)

















Locating, pot holes, post holes, tight access, highly manueverable

Trenching, remote hose, deep excavation

Project work, multiple days, large pole holes, trenching, large excavations, maximum production

Dry material, environmental sites, tree protection zones, reuse soil on site, able to vacuum all particulates including sand, gravel, dirt, grains, liquids, 'sloppy' material

DEBRIS CAPACITY:

7yards/ 5.35m³

15 yards/ 11.46m³

24 yards/18.35m³

On-site disposal

LEGAL PAYLOAD:

9mt 19,850 lbs

17mt 37,500 lbs

23mt 48,500 lbs

6.1mt 13,500 lbs

6 yds/ 4.5m³

8.7mt 19100 lbs

16 yds/ 12m3

BLOWER/FAN SPECS:

Blower 2650 CFM 28" Vacuum

Blower 6300 CFM 28" Vacuum

Blower 3800 CFM 28" Vacuum

Twin Fan 24000 CFM @ 15" Vacuum

800 USG 666 IG

1200 USG 1000 IG

1500 USG 1250 IG

N/A

WATER PUMP/ AIR COMPRESSOR SPEC:

Water 14 GPM @ 2500 PSI

Water 9.8 GPM @ 5800 PSI

Water 9.8 GPM @ 5800 PSI

Air 116 PSI @ 280 CFM

