Ox Equipment & MTS

Ox Equipment Inc. is the exclusive North American distributor for German manufactured MTS Dry Suction Excavation Systems, and is a division of Bartels Group (Super Sucker Hydrovac Services Inc., Bartels Environmental & Ox Equipment Inc.)

MTS, founded in 1998, manufactures Dry Vacuum Suction Excavators in Germany and has equipment operating in over 35 countries.

Suction Excavation is the primary safe digging vacuum excavation technology utilized throughout Europe.
North American Hydrovac Challenges

- Overweight when loaded
- Slurry generated / disposal is expensive
- Potential for soil contamination when water added to excavation process
- High pressure water can damage buried infrastructure
- Undermining during hydrovac excavation process
- Equipment must leave site for disposal of slurry & water refilling
- Slurry often considered contaminated / testing / special dump sites required
- Excavated materials can not be reused
- Not a carbon friendly excavation process
Twin Fan Technology

- Twin Fan Technology creates 24,000 CFM of air conveyance
- Proprietary Fan Patented Technology
- Manufactured in-house by MTS
- Built specifically for Dry Suction Excavation / Fan System
- Not a Positive Displacement Blower / PD System
Filtration System

• Automated Filter Cleaning / multi-jet cleaning
• Polyester conical filter cartridge (replaceable)
• Dust falls into lower filter chamber – separates into regular and “fines”
• Self cleaning filters allowing for maximum suction at all times
• Ti-15 Filter / Efficiency: 98%@ 4 microns
• Patented 3 stage system
• Material is gravity separated and falls in to the container before the airflow reaches the filter system
Power Arm / Mega Arm

- 10” diameter
- 180 degree swivel
- Wireless remote controlled
- Mega Arm / 30 foot dig tube with extension for increased reach
- IKE system / all clear situations only
Safe Dig System

- Soft digging Rubber Suction Tube
- 10” diameter allows for high rates of air conveyance
- Flexible rubber will not damage utilities
MTS Dino Series

Dino 12
- Twin Fan Technology / 24,000 CFM
- 10" Suction Tube with Power Arm
- 15 Cubic Yard Capacity / Side Tipping
- 320 CFM Dual Compressor

Dino 8
- Twin Fan Technology / 24,000 CFM
- 10" Suction Tube with Power Arm
- 10 Cubic Yard Capacity / Side Tipping
- 320 CFM Dual Compressor

Dino 4.5
- Twin Fan Technology / 24,000 CFM
- 10" Suction Tube with Power Arm
- 6 Cubic Yard Capacity / Side Tipping
- 320 CFM Dual Compressor

City Dino
- Twin Fan Technology / 10,800 CFM
- 8" Suction Tube with Optional Power Arm
- 3.4 Cubic Yard Capacity
- 320 CFM Dual Compressor
MTS City Dino

- Twin Fan Technology / 10,800 CFM
- 8" Suction Tube with Power Arm
- 3.4 Cubic Yard Capacity
- 320 CFM Dual Compressors
- Rear tipping into “Bag Bins”
- Hydrostatic Drive System / ground drive

DELIVERY Spring 2019
Why Dry Suction Excavation Makes Sense

• Eliminates costly wet slurry dumping fees
• Air is safer for excavating around aged or brittle underground plant / high pressure water systems can damaging buried facilities if pressures are not regulated
• Excavated soil can be used as backfill
• Excavated soil is not considered “contaminated”
• When excavating “contaminated” soils, disposal and transfer can be completed using plated trucks, or soils can be left on site
• Eliminates overload / overweight issues
• Never need to refill with air, unlike hydrovac systems which will run out of water
• Operators and excavation area remain clean, safe and dry
• Dump on site / stay on site all day = equipment stays working all day
• Carbon friendly / reduced travel to dump sites
As an industry leader and early adopter of new methodologies I-quip will demonstrate and service provide to new clients’ MTS Suction Excavation technologies within its territory. With established servicing facilities in place, qualified equipment operators, as well as a forward-thinking management team, Ox Equipment welcomes our newest Strategic Partner to the Ox Team.
Air Spade™ / P.S.I. vs. C.F.M.

Question: When digging with air is it the delivery flow of the air or the pressure which has the largest effect on excavation rates?

- The Air Spade™ nozzle is designed to run within 90-100 PSI zone to create a pin-point airflow to maximize excavation efficiency
- If the AirSpade™ is run below or above the 90-100 PSI range the airflow will be altered creating more of a mist effect which will decrease digging efficiency
Air Excavation Rates / C.F.M.

The greater the CFM (Air Flow) the faster the excavation rate

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<th>Model</th>
<th>Nozzle Size [cfm]</th>
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<th>OSHA Cohesive Soil Type C</th>
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