Dry Suction Excavation

SPECIFICATION

BTI owns and operates the first dry suction excavation unit in the United States, the Dino. Our dry suction excavation Dino units operate using two powerful fans that generate 24,000 CFM for excavation, use a 20' articulated excavator style boom with a 10" suction hose and can hold up to 10 yards of material. Associated equipment, such as the air lance, air shovel, and jack hammer are operated off the truck and allow for precision excavation. The air lance nozzle gauge operates at a safe and effective psi. The unit operates at less than 85 decibels, so noise levels are low. The byproduct spoil is DRY. Since the spoils are dry they can be unloaded at the project site for re-use or can be unloaded directly into a 20 yard bin. BTI has highly trained, specialized equipment operators for this equipment.

NEW TECHNOLOGY – NEW EQUIPMENT

Compared to industry available units, the Dino is practically unbeatable in terms of underground utility non-destructive, highly productive, cost efficient excavations.

DRY SUCTION EXCAVATION, DINO FEATURES

- Overall Height: 12' 6"
- Overall Length: 36' 4" (bumper to bumper)
- Width: 8' 5"
- Boom Open Driver Swing:
  - 12' 10" Driver Side full extension
  - 20' 6" Passenger Side – Driver Side full Extension
- 10" Suction Hose with Reducers available
- Boom Swing Dimension (no components)
- Boom Vertical Height Open: 18' 2"
- Boom Horizontal Length Open: 55'
- Boom Open Passenger Swing:
  - 28' Driver side – Passenger Side full extension
  - 19' 6" Passenger Side full swing

TYPES OF EXCAVATIONS

Utility & Pipeline Locating, Plant & Facilities Excavation, Trenches, Bell Holes, Burp Holes, Utility Boxes, Pot Holes

EQUIPMENT FEATURE ADVANTAGES

- New technology and new equipment designed and built to excavate using air. This is not retrofitted or adapted old technology.
- By using air and suction excavation, the Dino can probe for and daylight utilities safer and quicker than a backhoe and hand digging. Underground utilities can be exposed from all sides quickly and safely.
- No water is introduced into the operations as in hydrovac operations. The Dino unit keeps excavations dry with no water build up or muddy operations. Field personnel are able to review soil types and staining indicators under dry conditions.
- The Dino unit conserves water, upwards of 500 gallons per load, in comparison to hydrovac operations, since clean water is not required to operate dry suction excavation.
- The by-product waste is dry. Wet spoils, generated during hydrovac operations, are environmentally difficult to control and costly to manage. Dry suction excavation eliminates those additional costs.
- Dino dry suction excavation is a very efficient and effective operation because it does not leave the site during the work day to unload its contents. The unit is able to unload the contents onto the project site for reuse or into a bin that is brought to the site. In comparison, other units, such as hydrovacs, must stop operations, leave the site, unload, return and re-set up operations. In those situations, on-site work and project progress is slowed and delayed. BTI's Dino dry suction excavation unit is able to maintain operations all day at the project site.

Dry Suction Excavation Video:
https://vimeo.com/247087582

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