

## TINBIN TIPS. 08.04.22.



General information on how to get the most from your TINBIN.

The hydraulic, rotating down pipe (250mm diameter) is the principal means for excavation. It allows for full and complete operation of the TINBIN from the machine cab. This makes for a very safe work zone!

There is also the possibility to swap to a smaller diameter (200mm) rubber hose with manual control via a swing arm and handrail. When set to this manual configuration, the TINBIN is especially useful for excavating in and around extremely delicate infrastructure. Where the work cannot be rushed; for example, when unearthing previously unspecified cables and pipework.

Tinbin, with an air lance, allows safe, accurate and delicate excavation around utilities infrastructure.

**Important note:** Clay or 'claggy' material is a problem for *all* air suction machinery due to blockages. If there is a lot of clay to be excavated in a short space of time. Use a traditional VACEX lorry.

- Little and often is the key. Allow as much air as possible to go up *with* the material. It is faster. Do *not* 'submerge' it.
- In clay conditions, cut up with an air lance into smaller chunks *then*...suck it up.
- If the TINBIN does block; use an air-lance to unblock or suck up some water until it clears.
- Loss of power indicates a full hopper or blockage. Check the hopper is completely empty. (Air lance)
- Periodically check that the TINBIN is air tight. Door seal damage.
- Regularly check the slide out 'sieve' that runs through the middle of the Tinbin. It *must* remain clear.
- **When in manual configuration** - Teamwork between machine driver and suction hose operator is a must. Driver must follow hose operator so that hose operator is not overly pulling the hose around.
- Always keep line of sight between machine driver and hose operator.
- Max effective dig depth is approx. 3.5 metres. After this, significant loss of power may occur.

**Safety:** There are inherent dangers to working with all air suction machinery and its powerful suction forces. The personnel involved must always consider an overall 'Safe system of work' with TINBIN.

- Please fully read the Operation and Maintenance Manual supplied with any new TINBIN. These docs are to be found in a lockable case just near the fan drive.
- All personnel should be familiar with the 'Good Practice Guide' published by the CPA and downloadable from <https://www.cpa.uk.net/safety-and-technical-publications/suction-vacuum-excavator-guidance> This gives invaluable insight to air suction generally.
- All personnel must wear approved hi-vis clothing, approved safety boots, safety glasses and hard hat.
- All personnel must familiarize themselves with trip hazards and be aware that the hose swing arm could possibly be above them at any one time.
- The hose operator should always maintain line of sight with machine driver and develop a system whereby the machine driver *follows* the hose operator as they place the suction hose.
- Only *one* hose operator at any given time to use the handrail assembly.
- Recommended excavator weight: 16-22 tonne and above.