

## Mammoth Heavy Duty Vacuum Cleaning and Bulk Collection

### Why You Should Specify Clyde Process' Sturtevant Cleaning Solutions

#### Efficiency

Every component is specified to achieve a high standard of cleaning efficiency under the most arduous conditions. Simple operation and high performance reduce operator fatigue and effort.

#### Durability

Systems are engineered for maximum durability with a typical lifespan in excess of 25 years. Consideration is given during design and construction to cater for customer's future changing requirements where possible.

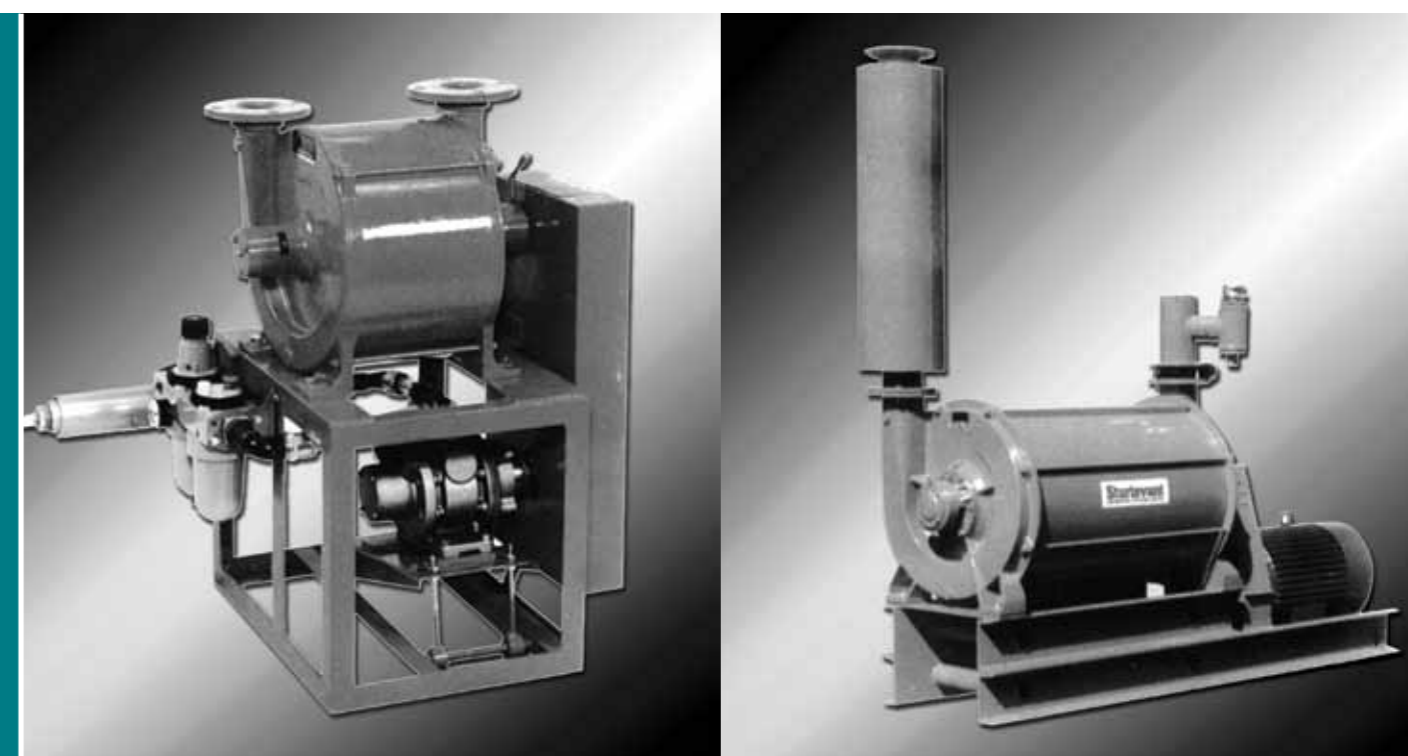
#### Minimum Maintenance Requirements

Routine maintenance of Clyde Process' Sturtevant range of Vacuum Cleaning Systems is minimal, confined to periodic lubrication, drive belt tensioning and checking of filter seals. A variety of on-site service and preventative maintenance packages is available from Clyde Process Customer Support & Services Division.

#### Hygiene, Environment and Legislation Compliance

Clyde Process' Sturtevant range of Vacuum Cleaning Systems eliminate dust disturbance, recirculation and contamination thus aiding with providing a clean and healthy working environment and ensuring compliance with legislation.

Efficient filter designs ensure that air exhausted to atmosphere meets appropriate emission control legislation as well as local site requirements. Collected material can be disposed of in a completely dust free process and, where desirable, both liquids and solids can be discharged continuously into sealed containers.



High Powered Heavy Duty Industrial Vacuum Cleaning & Bulk Collection Solutions

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we make processes work

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## Multi operator, fixed pipe work systems

Working as the heart of fixed pipe work systems in heavy industries such as Iron & Steel, Cement, Power Generation, Quarries, etc. the Mammoth provides the power to enable multiple operators to work simultaneously, to execute the cleanup in the shortest time, thus reducing cost and releasing manpower for more important productive (and more profitable) tasks.

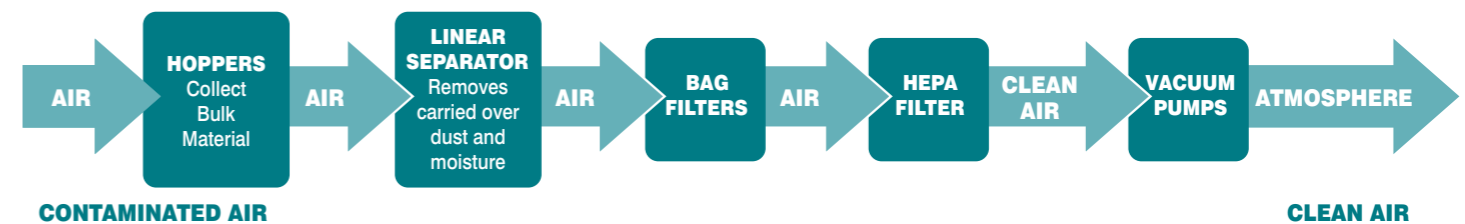
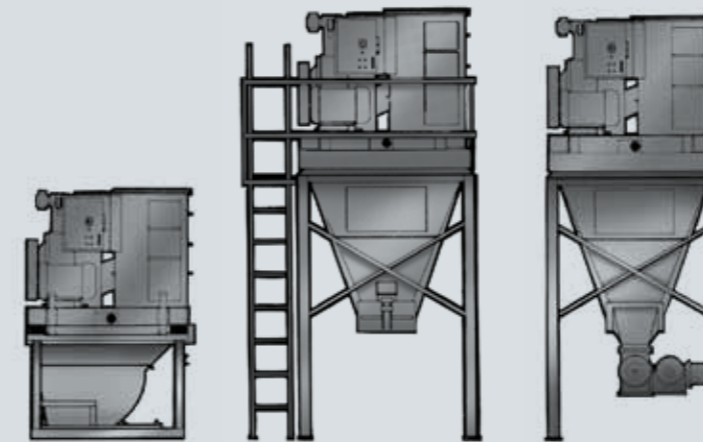
On a large site, with long conveying distances, or where cross contamination of products is to be avoided, shorter, dedicated pipe runs can be employed.

As a 'self contained unit', The Mammoth is highly mobile and can be easily transported around the plant, and connected where required. This reduces plant costs and offers additional savings from material recovery and waste elimination.

### Bulk Collection

Manual removal of large spillages following belt / equipment failure is expensive both in labour and time. The Mammoth has the power to enable bulk collection of large quantities, allowing fast access to the breakdown site to enable repairs and quicker return to productivity with minimal cost.

In addition, removal of spillage from conveyors, transfer stations, loading points, belt scrapers, damaged bags, spilled containers, emptying of pits, holds, silos, etc. is achieved quickly and cost effectively as well as recovery from stockpiles and ground storage facilities.



### Material Recovery

Continual increases in raw material costs means lower profits from any waste created. The Mammoth provides the opportunity to reclaim spillages and where applicable, return them to the process for reuse. A Primary Interceptor can be installed in the system to collect the material and discharge it onto a reclaim conveyor or silo.

### Aiding Compliance with Environmental Legislation

Removal of spillage, dust and debris using conventional methods has been proved to be both inefficient and costly both in labour and its effect on the environment. The actions of brushing, shovelling or blowing can disturb dust and re-pollute the environment. Collection of dust and debris, by the use of vacuum cleaning, ensures immediate safe collection, eliminating disturbance and allowing for disposal or re-use safely.

The Mammoth offers the capabilities to cost effectively remove, contain and dispose of dust and debris, including toxic waste, helping owners and operators comply with the increasingly onerous legislation around the world.

### Four Stage Filtration

The Mammoth boasts four stages of filtration to fully clean the conveying air and return it to atmosphere without any airborne pollution.

#### Stage 1

Primary Separation takes place directly into the material collection hopper where the majority of material is removed by the effect of slowing of the conveying air velocity.

#### Stage 2

Fine dusty material and moisture is drawn at high velocity through a narrow slot into a large chamber where the air slows on entry, depositing any particles to the bottom.

### Stage 3

Any remaining dust particles are removed from the air by the fabric filter.

### Stage 4

A cartridge filter is employed to protect the Vacuum Pump and subsequently the environment, in the event of damage to the fabric filter.

For collection of toxic substances, this final cartridge filter can be replaced by a HEPA filter for added protection.

### Options

- Range of sizes from 7.5 – 150kw
- Electric, Diesel, LPG engines
- Acoustic Enclosure for noise reduction
- ATEX Compliant Models
- Support Frames, Access and Service Platforms
- Truck / trailer mounting
- Wide variety and size of Hoppers including self-tipping
- Dump, Slide, Rotary Valve Hopper discharge options

Clyde Process engineers can also design custom solutions to meet customer specific requirements.

