

FILLING SOLUTIONS LIMITED



Designers and Manufacturers of Automated Filling and Decanting Systems for Liquids and Semi-Solids

The StrongArm Filler



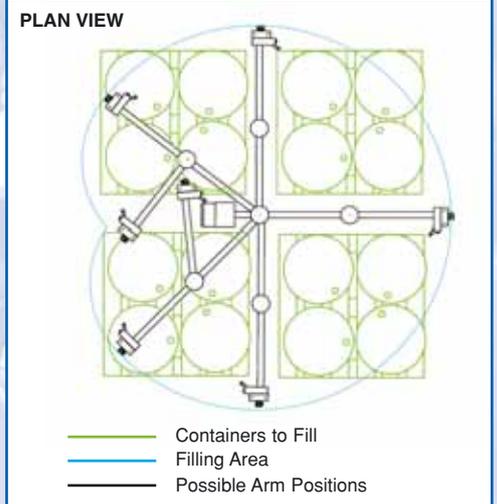
The **StrongArm** is a semi-automatic articulated arm filling machine which has been developed for the accurate filling of a wide range of industrial containers from 100 ml up to 1500 litres. This versatile machine can be configured to accommodate all aspects of filling including:

- **Sub-surface (lance rising) fill or bottom fill (where foaming product is an issue)**
- **Top fill for high speed filling of non-foaming product**
- **Above lid fill for filling open pale containers**

A key feature of the StrongArm is its precision articulated filling limb which has been ergonomically designed for maximum operator efficiency. The arm can operate through a full 360 degree working radius, thereby allowing multiple pallets to be processed for optimum productivity.

The compact design takes up minimal floor space and both fixed and mobile versions are available. The mobile version can easily be moved throughout the factory to give multi-area filling capabilities where and when required.

The all-stainless steel construction, combined with sealed bearings in the articulated arm and the unique internal protection of the pneumatic drive cylinders, ensures excellent harsh environment operation and service life. A version for use in ATEX certified hazardous areas is available.



The StrongArm is available with a wide range of metering options including:

- **Gravimetric**
- **Volumetric**
- **Simple Flow**
- **Mass Flow Metering**
- **Magflow**

Depending on the method chosen, filling accuracy is 0.1% of either mass or fill volume, considerably better than current Weights and Measures requirements.

Depending on the liquid being filled, we can advise on the most suitable material for wetted parts such as lances and probes. These include PVCu, PVDF and polypropylene.



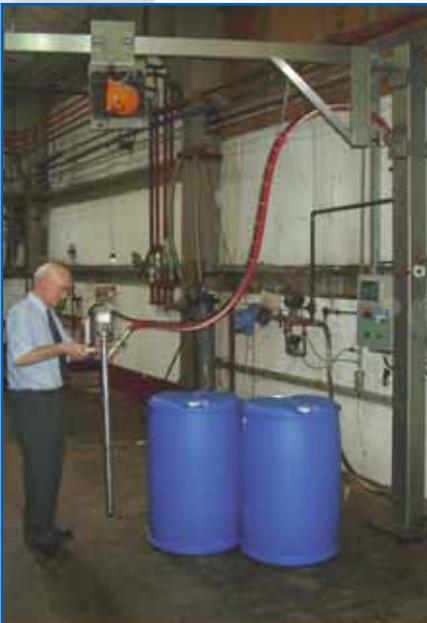
Filling Solutions can supply filling machines fitted with a range of Weights and Measures approved weigh platforms which meet the requirements for 'legal for trade' weighing. Depending on the application, machines can be supplied with either single or multi-range platforms. The multi-range capability allows the weighing of different sized containers on the same machine. Further details are available on request.

The Single Container Filler

The **Single Container Filler** is a versatile semi-automatic machine for filling or decanting industrial containers ranging in capacity from 100 ml up to 1500 litres. Based around our highly successful **StrongArm Filler**, this unit can fill containers on pallets, tables or conveyors. It is fully mobile featuring lockable feet and adjustable jacks to accommodate unlevel flooring. Both gravimetric and volumetric versions are available, and machines for use in ATEX certified hazardous areas are also available.



The ECO Arm Filler



The **Eco Arm Filler** is a radially mounted and gantry supported filling and decanting machine for industrial containers. This machine is ideal for smaller batch runs and for use with volumetric or flow type metering. A version for use in ATEX certified hazardous areas is available.

The Articulated Arm Tanker Filler

The **Articulated Arm Filler** is specifically designed for the top filling of road tankers. Based on the **StrongArm Filler**, this machine is designed to be mounted on a raised platform and has an extended 3 metre reach. The filler can be used in ATEX certified hazardous areas.



Complete Systems



Our range of filling machines can be supplied as fully integrated systems to provide optimum operational efficiency. Options include complete motorised conveyor systems designed to synchronise the presentation of the empty containers to the filling head and then transport them away when filled. By taking responsibility for the complete system we can ensure everything works in harmony. Additional options include filling tables and a range of drum handling equipment.

Systems for Liquids and Semi-Solids

Strength, Quality and Experience

At **Filling Solutions** we have over 20 years industrial experience in the design and operation of liquid filling machines. Although our units are based around tried and tested standard modules, each machine is tailored precisely for your application. We have extensive knowledge of liquid characteristics and can provide exactly the right equipment to meet your needs. Our advice will also take into account any possible expansions or changes in your operation to ensure equipment does not become obsolete unnecessarily.

Tried and Tested

Filling Solutions operates from a 6000 sq ft facility in the heart of the East Midlands in close proximity to the M1. A blend of modern computer design techniques and traditional engineering skills ensure our products offer the optimum in reliability and precision - even in the harshest of environments.

All completed machines and systems undergo comprehensive evaluation trials in our works prior to delivery, thereby ensuring rapid on-site installation and commissioning with minimum disruption to your plant.



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