MASTERFIL

Packaging machinery specialists for the oil & lubricants industry

Masterfil® Mastercap® SYSTEM F

Adelphi manufactures the highly regarded Masterfil and Mastercap brands of lube oil filling, capping, and processing machinery.

Our products are installed worldwide in hundreds of blending plants, operated by small independent companies and multinational household brands. There are many examples of these machines still operating reliably 25 years after installation.

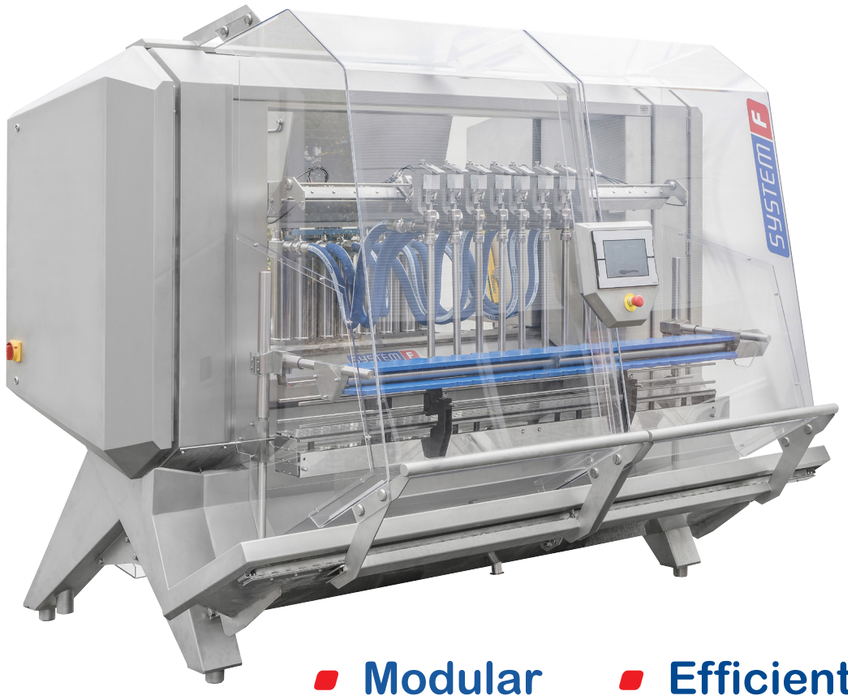
Adelphi now also supplies the newly developed System range of filling machines, which are not only excellently engineered, but thoroughly designed.

Whether you need a single piece of equipment or a fully integrated turnkey packaging line, we are able to deliver.

To find out more on how Adelphi can serve your filling and capping requirements, get in contact with one of our sales representatives on +44 (0)1444 472300 or email sales@adelphi.uk.com

SYSTEM F F-1800

Available for demonstrations at Adelphi's factory in Haywards Heath, West Sussex. Contact us to arrange your visit.



- Modular
- Efficient
- Hygienic
- Scalable

The System F-1800 filler is a fully automatic inline liquid filling system, delivering outstanding production flexibilty and output, as well as cost-saving efficiency and future-proof scalabilty.

At the heart of System F-1800 is a modular design that is capable of being configured to individual requirements without the need for bespoke development work.

The primary benefits of the modular System F-1800 are increased production output, lower operating costs, and the ability to quickly and cost-effectively increase the capacity of your filling line as demand dictates.

Key features

- **Able to accept a wide variety of dosing technologies, with standard options being servo-driven volumetric pumps or flowmeters**
- **Supplied with a mobile service caddy for transporting volumetric pump blocks and other wetted components for off-site cleaning away from the production area**
- **Eliminates product waste due to flushing**
- **Available as an 8 head filler with 8X 5 litre pump cylinders, or as a 16 head filler with 100ml, 500ml, or 1000ml capacities**

SYSTEM F FILLERS

SYSTEM F F-600

Available for demonstrations at Adelphi's factory in Haywards Heath, West Sussex. Contact us to arrange your visit.

- Modular
- Efficient
- Hygienic
- Scalable

The semi-automatic System F-600 filler can be cost effectively upgraded with additional filling heads, and automated by fitting a conveyor and additional safety guarding.

If an increase in production demand is anticipated, the machine can be configured from the outset on the wider System F-1200 frame, with twice the potential capacity of System F-600.

Upgrading from the System F-1200 is possible. A large number of components are directly transferable, and the majority of wetted components can also be re-used if you choose to upgrade further within the System range.

Key features

- **The F-600 frame offers a cost-effective upgrade path, growing with your production requirements, and negating the need to write off existing equipment**
- **A hand capping station can be added to ensure consistent cap application torque, and reduce the likelihood of repetitive strain injuries**
- **Available as a 2 head filler with 5 litre pump cylinders, or as a 4 head filler with 100ml, 500ml or 1000ml capacities**

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Masterfil® volumetric filler

Volumetric pumping systems are suited to dealing with a wide range of product viscosities, thrive in harsh production environments, and lend themselves well to applications where accuracy of fill volume is essential.

Masterfil has a range of 4 heavy duty frames, sized for growth, which can accommodate 2 to 12 filling heads (extra heads can be added to match increased output requirements). There is also a light weight frame that can carry 1 to 4 heads dependent on the size of the containers.

Honed 316L grade stainless steel filling pumps are available in 1, 3, 5 or 6 litre capacities, and as single or double acting units. Filling nozzles are adjustable to fill foaming and non-foaming products of high or low viscosity, and an enhanced cleaning system can be specified as an option.

	Specification
Accuracy	±0.2% (pneumatic) ±0.1% (servo)
Output	55 per hour per head
Height	2.3 m
Depth	2.3 m
Frame width	1.2/1.6/2/2.4/3 m
Weight	1640 kg (approx)
Working pressure	6 bar (0.6 Mpa)
Air consumption	230/420 litres per cycle (single/twin drive)
Volume range	50ml – 25 litres
Electricity supply	240V–420 V

Key features

- **PLC controlled, with recipe-driven HMI**
- **Single or double action product cylinders of 1, 3, 5 or 6 litre capacity**
- **Variable fill speeds can be used during a filling cycle**
- **Totally enclosed 304 stainless steel and PVC filling area**
- **316L stainless steel / PTFE / Viton contact parts**
- **Pharmaceutical grade stainless steel box section conveyor with variable speed control**
- **Nozzles can be static, or programmed to dive and rise whilst filling or fill into neck, depending on product type**
- **Fully automatic container handling system includes 'no container, no fill' sensing**
- **Quick change of volume with digital readout**
- **Flushing circuit for in-place cleaning (optional)**
- **Temperature compensation**
- **Choice of pneumatic or servo operation**

Masterfil® volumetric filler

(Flowmeter and Weigh Scale models also available)

Key features

- **Able to fill a wide range of container sizes**
- **Accurate to ±0.2%**
- **Quick and easy to clean**
- **316L stainless steel / PTFE / Viton contact parts**
- **Variable fill speeds can be used during the filling cycle**
- **Nozzles can be static, or set to dive and rise whilst filling or fill into neck, depending on product type**
- **Single or double action product cylinder**
- **Flushing circuit for in-place cleaning (optional)**
- **1 or 2 filling heads**
- **Non-drip cut-off nozzle**

	5 LITRE FILLER
Accuracy	±0.2%
Output (per minute)	6 per min.
Height (approx)	1.8 m
Depth (approx)	1.8m
Width (approx)	0.7m
Weight (approx)	179 kg
Working Pressure	6 Bar (0.6 Mpa)
Air Consumption	55 litres per cycle
Volume Range	500ml – 5 litre

Mastercap® single-head indexing capper

The Mastercap single head indexing capper provides a reliable and versatile capping operation at speeds of up to 60 caps per minute, and is designed to handle:

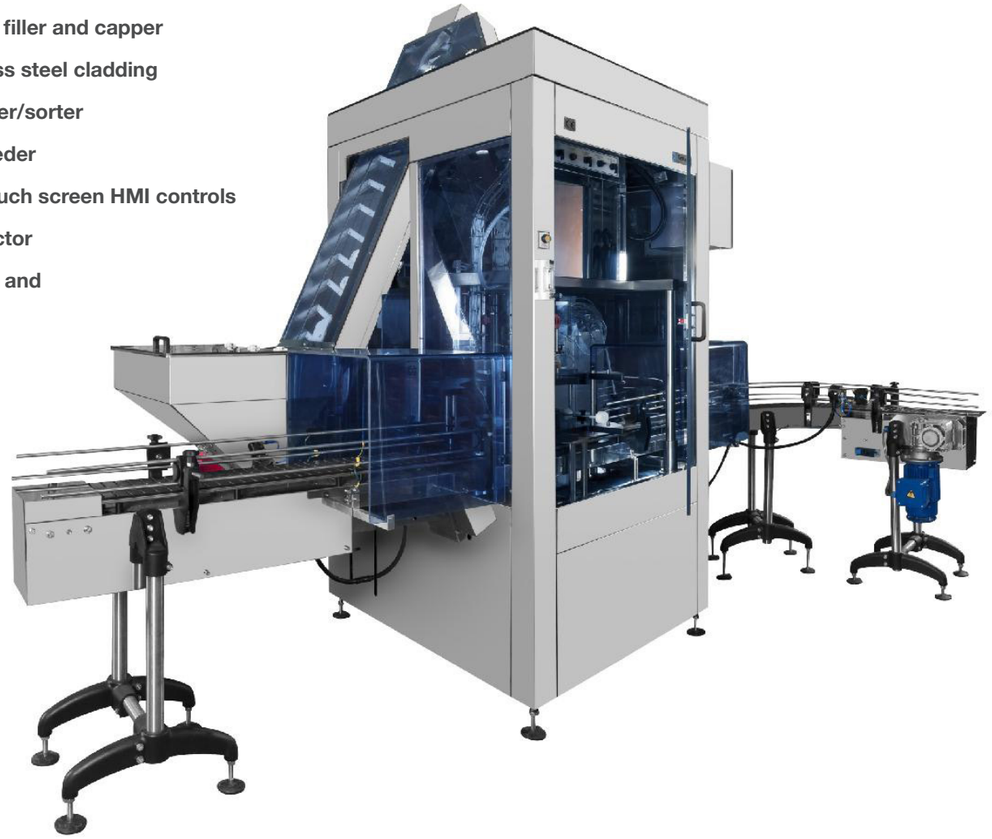
- Screw caps.
- Press-on caps.
- Tamper proof caps.
- Aerosol overcaps.
- Inserts.

The machine comes with an elevator cap feeder and 304 stainless steel cladding as standard, although options such as disc and vibratory bowl feeders are available.

	Specification
Cap range	20–80 mm
Output	55 containers per minute
Height	2.4–2.8 m (approx)
Depth	1.3 m (approx)
Width	2.3 m (approx)
Weight	650 kg (approx)
Working pressure	6 bar (0.6 Mpa)
Electricity supply	240 V/420V

Key features and options

- **Easily adjustable variable torque magnetic clutch**
- **‘No container, no cap’ and queue sensing**
- **Push button height adjustment**
- **Cap track low level detection**
- **Full integration of filler and capper**
- **304 grade stainless steel cladding**
- **Elevator cap feeder/sorter**
- **Vibratory bowl feeder**
- **Programmable touch screen HMI controls**
- **Missing cap detector**
- **‘No foil’ detection and cap reject**

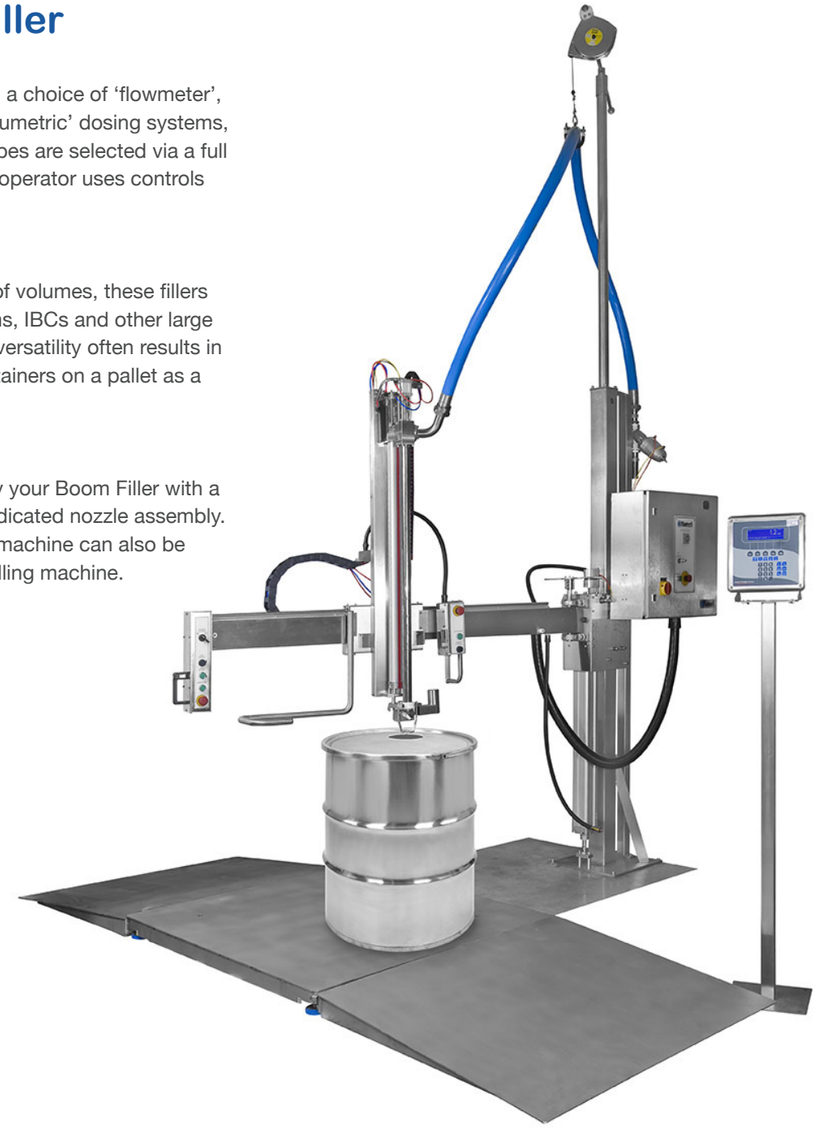


Masterfil® boom filler

Boom Fillers can be specified with a choice of ‘flowmeter’, ‘weigh scale’ or ‘double acting volumetric’ dosing systems, as required. Pre-programmed recipes are selected via a full colour touch screen HMI, and the operator uses controls located at the end of the boom arm to control the fill cycle.

Designed to deliver a wide range of volumes, these fillers are normally used used to fill drums, IBCs and other large volume containers; however their versatility often results in their being used to fill smaller containers on a pallet as a back-up to other machines.

In addition, it is possible to specify your Boom Filler with a bench height filling station and dedicated nozzle assembly. In this way, your new boom filling machine can also be used as a semi-automatic bottle filling machine.



	Specification		
MODEL	**WEIGH SCALE BOOM**	**FLOWMETER BOOM**	**VOLUMETRIC BOOM**
Accuracy	±0.2%	±0.2%	±0.2%
Output (per minute)	Dependent on application	Dependent on application	Dependent on application
Height (approx)	Dependent on specification	Dependent on specification	Dependent on specification
Depth (approx)	Dependent on specification	Dependent on specification	Dependent on specification
Width (approx)	Dependent on specification	Dependent on specification	Dependent on specification
Working Pressure	6 Bar (0.6Mpa)	6 Bar (0.6Mpa)	6 Bar (0.6Mpa)
Volume Range	20–1,000 kg	20–1,000 litres	500 ml –200 litres
Electricity Supply	240V	240 V / 420 V	240V

Masterfil® drum decanting unit

The Masterfil Drum Decanting Unit is designed to automate the process of decanting high value additives from drums or IBCs, in to a blending tank. Favoured by lube oil manufacturers, these units offer levels of precision, repeatability and hygiene that are extremely difficult to match manually.

Pre-programmed recipes are selected using the full colour touch screen HMI, and on screen instructions guide the operator safely through each stage of the process.

When nearing empty, the drum can be tilted to ensure that maximum product removal is achieved, and the drum is then rinsed with hot base oil to ensure that product wastage is minimised. Furthermore, in the rinsing kettle hot oil is used to flush the lance of any remaining product, and minimise the opportunity for cross contamination.

Key features

- **304 stainless steel construction**
- **Full colour HMI control touch screen**
- **Rinsing kettle with weigh scale option (from 500 litres to 1,000 litres)**
- **Drum platform incorporating roller conveyor, tilting mechanism and weigh scale**
- **Servo controlled decanting nozzle**
- **High viscosity decanting available on request**

	Specification
MODEL	**DRUM DECANTING UNIT**
Weighing	600kg x 0.1kg
Maximum Product Viscosity	8,000 Cst
Maximum Product Temperature	100 Celsius
Rinsing Kettle Volume	500 litres – 1,000 litres
Decanting Pump Output (per hour)	90L p/m @ 1,000 Cst
Height (approx)	4.7 m (incl hose stand)
Depth (approx)	2.4 m
Width (approx)	2.2 m
Weight (approx)	1.7 m
Working Pressure	5 Bar
Electricity Supply	240V–420V