



# ADELPHI Masterfil®

## AUTOMATIC FILLING

Adelphi offer a wide range of fully automatic liquid filling machinery, which is ideal for full-scale production environments.

## Masterfil® *Response*

Adelphi manufactures the highly regarded Masterfil and Response ranges of fully automatic filling machines, and can deliver reliable after sales support wherever you are in the world. Adelphi machines are purchased by customers including small independent companies and international household names, operating in industries ranging from foods and toiletries to lube oils and agrochemicals.

Thousands of our machines are in operation around the world, with many of them still running as intended over twenty years after installation. Whether you want just a liquid filler or a fully integrated turnkey packaging line, Adelphi is able to help.

Our comprehensive range of standard frames, pumping systems, nozzles and conveyors ensure that our fillers can comfortably process containers ranging from 50ml to 25 litres in volume. With a choice of between two and twelve filling heads, and servo or pneumatic drive systems you can be comfortable that your output, accuracy and quality targets will be met by your new filling machine.



## Masterfil<sup>®</sup> 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).

Honed 316L grade stainless steel filling cylinders 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%
Output	500 per hour per head
Height	2.3m
Depth	2.3m
Frame width	1.2/1.6/2/2.4m
Weight	1640 kg (approx)
Working pressure	6 bar (0.6Mpa)
Air consumption	230/420 litres per cycle (single/twin drive)
Volume range	50ml – 25 litres
Electricity supply	240V–420V

### 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)
- ATEX compliant (optional)
- Choice of pneumatic or servo operation



## Masterfil® Flowmeter Filler

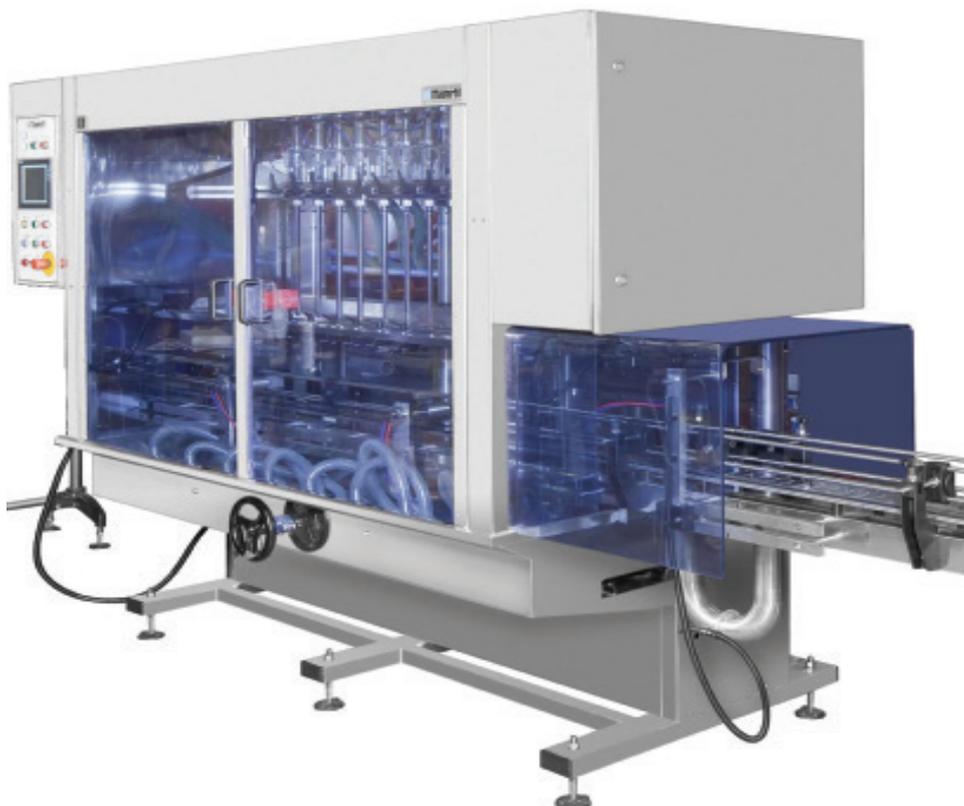
Mass or magnetic flow liquid filling machines provide great flexibility and lend themselves well to applications where quick product changeover times and ease of cleaning are essential.

Adelphi's comprehensive range of standard frames, nozzles, and conveyors ensure that our fillers can comfortably process containers ranging from 50 ml to 25 litres in volume. With a choice of between four and twelve filling heads, and a range of flowmeter options, most requirements can be comfortably met.

	Specification
Accuracy	±0.2%
Output	500 per hour per head
Height	2.3 m
Depth	2.3 m
Frame width	1.2/1.6/2/2.4 m
Weight	785 kg (approx)
Working pressure	6 bar (0.6 Mpa)
Air consumption	10 litres per cycle
Volume range	50 ml – 25 litres
Electricity supply	240V–420V

### Key Features:

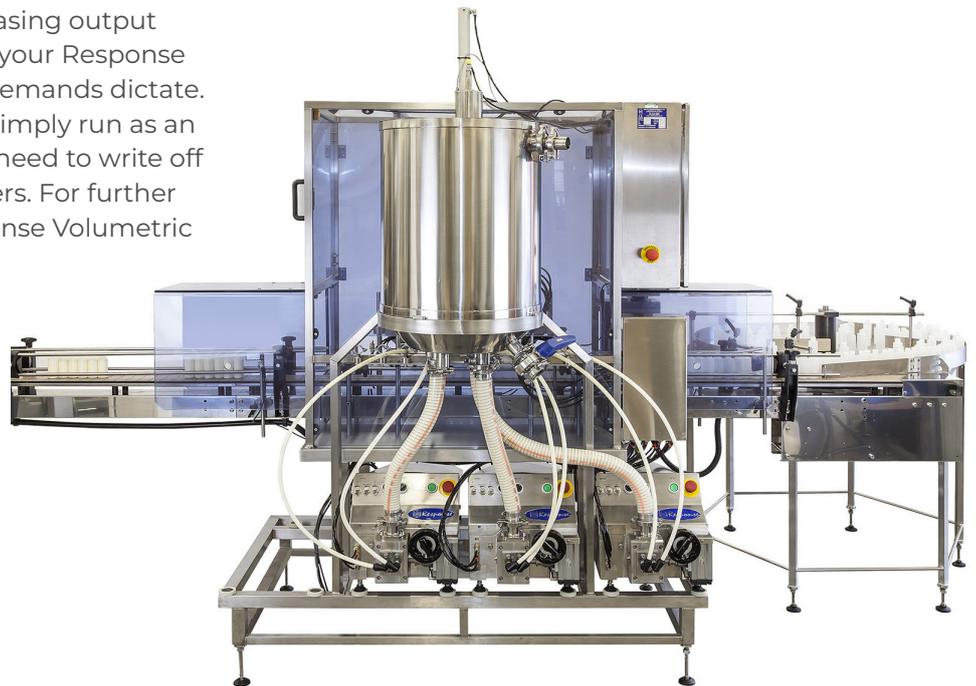
- Minimum down time between liquid and container changeover
- Ability to fill a wide range of container sizes
- Quick and easy to clean
- Totally enclosed 304 stainless steel and PVC filling area
- Variable fill speeds can be used during a filling cycle
- Pharmaceutical grade stainless steel box section 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
- PLC controlled, with recipe-driven HMI
- Fully automatic container handling system includes 'no container, no fill' sensing
- Quick change of volume with digital readout.
- ATEX compliant (optional)
- Flushing circuit for in-place cleaning (optional)



## Response Volumetric Filler

The Response is a versatile, accurate, hygienic and easy to use benchtop volumetric filling machine. However, with the addition of an Automation Base, your Response fillers can be combined to create a fully automated, inline, liquid filler with up to eight heads.

This gives you the option of increasing output whilst retaining the ability to run your Response units individually as production demands dictate. Alternatively you may choose to simply run as an automated filler but without the need to write off your investment in bench top fillers. For further information please see the Response Volumetric Fillers product sheet.



## TGM Filling Machines

Adelphi is the sole UK distributor of the highly respected TGM tube processing machines.

TGM has been manufacturing leading edge tube processing machinery for over 30 years. Their equipment can be found in organisations operating in the cosmetic, pharmaceutical, chemical and food industries.

Having been partners with each manufacturer for many years, Adelphi is able to provide expert advice during the sales cycle, followed by reliable servicing and spares support.

