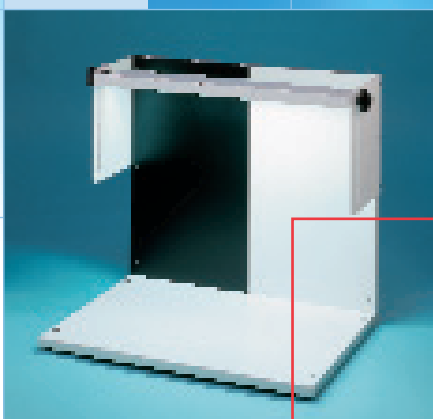
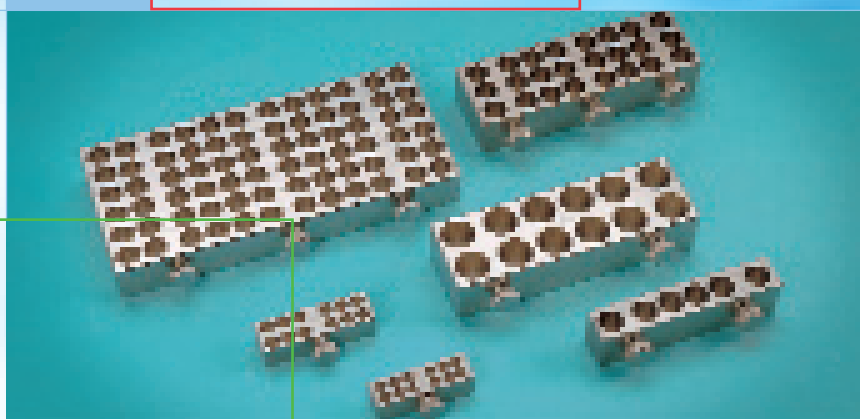


Adelphi Manufacturing



Pharmaceutical Laboratory
and Bench Top Equipment



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Ampoule Opening and Closing

Semi Automatic

Adelphi OC Automatic Ampoule Processing Machine Part No: 6035000

This machine is designed in response to the demand for small scale production and R&D laboratories where closed ampoules are used to obviate the need for internal washing. A flame of mixed gas and oxygen is applied to melt the glass.

Safety First flash back arresters are fitted to the gas inlets and needle valves control the settings.

The ampoules are placed into a manually operated spring loaded chuck and a flame is brought to bear on the top of the ampoule. As the flame approaches the glass an electric switch is thrown and the chuck rotates and when the opening station is in use the ampoule is opened with the flame. The Ampoules are now filled using a peristaltic pump and filling jig (please see page 7).

When closing the gripper jaws are placed onto the ampoule neck and the flame operated. As the glass becomes plastic the counter weight pulling on the jaws draws off the ampoule neck and a perfect rounded finish is achieved with very little practice. The drawn off tip is dropped into a detachable box at the side of the machine to cool before disposal. The sealing process is quick, regular in height and equivalent to that obtained from an automatic machine.

Specially designed to open and close closed type ampoules this versatile machine will also handle open type ampoules after washing.



Specifications:

Ampoule size:	1-50 ml open or closed type
Output:	up to 10 per minute
Electricity:	25 watts 240 v single phase 50Hz (120 v 60 Hz available on request)
Gas:	Natural gas or propane at 0.5 bar pressure – butane may be used with special nozzle
Oxygen:	Standard commercial supply at 1 bar
Dimensions:	380 x 400 x 660 mm
Operational weight:	22 kg

Shipping Specification:

One wooden case:	49 x 44 x 85 cm
Gross weight:	46 kg

Ampoule & Vial Closing



Manual

Adelphi Twin Jet Ampoule Sealer

Part No: 6002100

This machine is designed for use with natural or bottled gas and compressed air. A mixer valve enables the user to adjust the flames for maximum heat. A small air pump (6002120) is available for situations where compressed air is not available. A regulator and pressure gauge (6002110) are recommended to keep the flow constant.

Ampoules are placed on to the adjustable platform and turned in the flame by hand whilst the ampoule top is drawn off with the other hand holding tweezers.

Specifications:

Ampoule size: 1-50 ml open type
 Output: up to 10 per minute
 Gas: Natural gas, propane or butane at 0.5 bar pressure
 Air: Compressed air at 1 bar (optional compressor supplied)
 Overall size: 125 x 210 x 289 mm
 Operational weight: 1.86 kg

Shipping Specification:

One carton: 35 x 31 x 17 cm
 Gross weight: 2.4 kg

Crimping and Decapping of Pharmaceutical Vials

Manual System: Hand Crimping or Decapping Tongs

Fitted with hardened steel jaws for long life and reproducibility of crimp quality. Different instruments are required for each different type of crimp seal. An adjustable stop ensures that equal pressure is applied to each crimp. Please state seal type when ordering (see opposite).

Specifications:

Cap size range: 7.5-32 mm diameter
 Output up to 10 per minute
 Overall size: 210 x 45 x 75 mm
 Operational weight: 0.5 kg

Shipping Specification:

One carton: 24 x 13 x 6 cm
 Gross weight: 0.6 kg

Crimping Part No.	Size	Decapping Part No.
6030607.5	7.5 mm plain seals	
6030608	8 mm plain seals	
6030611	11 mm plain seals	
6030613	13 mm plain seals	6030722
6030614	13 mm flip top seals	
6030620	20 mm plain seals	6030721
6030621	20 mm flip top seals	
6030622	20 mm flip tear up seals	
6030628	28 mm flip top seals	
6030629	28 mm flip tear up seals	
6030632	32 mm plain seals	6030723



Vial Closing

Crimping and Decapping of Pharmaceutical Vials Bench Top System:

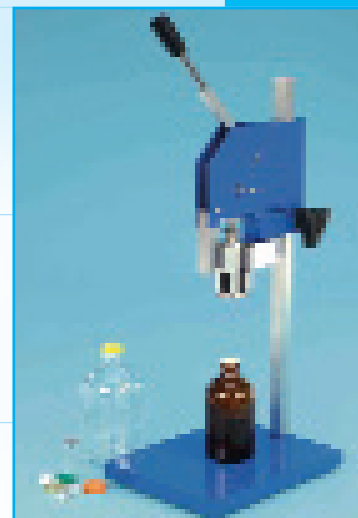
For crimping and decapping vials this machine is designed to take interchangeable jaws each of which are adjustable to allow the ideal pressure for a perfect crimp. The painted steel housing is adjustable to ensure the best position is available for any size of vial. Heads have hardened steel jaws and may be for crimping or decapping.

Specifications:

Cap size range: 13-20 mm diameter
Output: 5-15 per minute
Overall size: 260 x 154 x 390 mm
Operational weight: 5.6 kg

Shipping Specification:

One carton: 39 x 28 x 11 cm
Gross weight: 6.5 kg



Crimping Part No.		Decapping Part No.
6030730	Bench mounted hand capping machine without jaws	
6030735	Interchangeable jaws for 13 mm plain seals	6030732
6030731	Interchangeable jaws for 13 mm flip top seals	6030733
6030740	Interchangeable jaws for 20 mm plain seals	6030742
6030741	Interchangeable jaws for 20 mm flip top seals	6030743

Pneumatic Power Crimper

An air operated power crimper with stand and foot pedal and interchangeable screw in heads. The unit gives fast and reliable crimping or decapping and reduces operator fatigue. The stand is made from stainless steel and the crimping unit which may be used separately is of corrosion resistant nickel electro plate.

Specifications:

Cap size range: 13-32 mm diameter
Output: 5-15 per minute
Air requirements: 70 litres per minute at 4 bar
Overall size: 370 x 230 x 420 mm
Operational weight: 9.85 kg

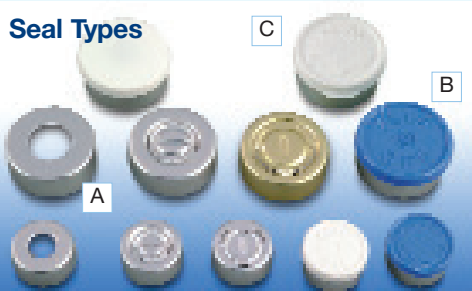
Shipping Specification:

One carton: 41 x 41 x 41 cm
Gross weight: 13 kg



Crimping Part No.		Seal Type	Decapping Part No.
6030500	Power crimp unit without head		
6030501	Bench Stand for above		
6030502	Foot pedal		
6030503	Interchangeable head for 13 mm plain seals	A	6030507
6030504	Interchangeable head for 13 mm flip top seals	B	6030508
6030505	Interchangeable head for 20 mm plain seals	A	6030509
6030506	Interchangeable head for 20 mm flip top seals	B	6030510
6030514	Interchangeable head for 20 mm flip tear up seals	C	
6030532	Interchangeable head for 32 mm plain seals	A	6030519
6030521	Interchangeable head for 32 mm flip off seals	B	
6030522	Interchangeable head for 32 mm flip tear up seals	C	

Seal Types



Semi-Automatic and Automatic Ampoule & Vial Processing

We can offer a comprehensive range of machinery for processing ampoules and vials, supplied by Rota of Germany. Equipment includes machines for filling and closing, washing, labelling and inspecting. Some examples of semi-automatic machines are given below – please ask for more details of these or fully automatic machines.

Please note that we are the sole agents for Rota in the UK and Ireland and enquiries from other countries may need to be referred to Rota's local agent.



R915 semi-automatic ampoule filling and closing machine:

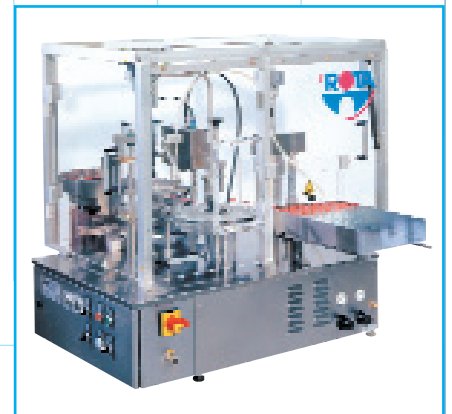
This machine can be dedicated to ampoule filling, or can be supplied with the capability of filling ampoules and vials with suitable change parts. Ampoules/vials are hand-fed into the starwheel and exit into an outfeed magazine.

Range:	
Ampoules:	0.2 – 30 ml
Vials:	0.2-100 ml
Diameter:	Up to 52 mm
Height:	Up to 156 mm
Output:	Up to 1000/h

FLR25/G semi-automatic vial filling and stoppering machine

Vials are hand-fed into the starwheel and are transported automatically for filling. Stoppers are sorted in a bowl feeder, fed down a chute and automatically inserted into the vials, which exit via an outfeed magazine.

Range:	
Vials:	1-100 ml
Diameter:	6 to 52 mm
Height:	Up to 100 mm
Output:	Up to 1500/h



FLR25/B semi-automatic vial crimping machine

Vials (already stoppered) are hand-fed into the starwheel and are transported automatically to a cap placing station then to a clinching head. Caps are fed from a bowl feeder down a chute. The capped vials exit via an outfeed magazine.

Range:	
Diameter:	6 to 52 mm
Height:	Up to 100 mm
Output:	Up to 1500/h



RE25 semi-automatic labelling machine

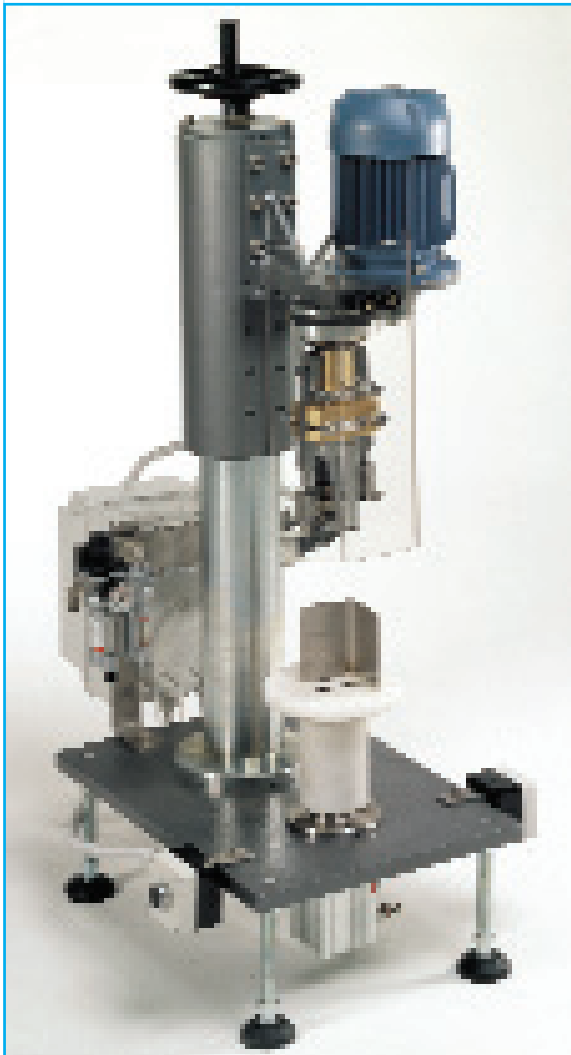
Suitable for self-adhesive labels. Ampoules or vials are hand-fed into the starwheel, are transported automatically through the machine and exit via an outfeed magazine.

Range:	
Diameter:	9.2 to 52 mm
Height of label:	Up to 78 mm
Length of label:	Up to 100 mm
Label roll diameter:	Up to 100 mm
Output:	Up to 1500/h

Capping

Semi Automatic for ROPP caps or screw caps of all types Part No: 4070000

This semi automatic machine is for the rapid closure of containers with metal ROPP caps or pre-threaded screw caps of any kind.



The cap is placed onto the bottle which is placed onto the platen by hand and the two push buttons pressed simultaneously to operate the machine. The platen rises to the head position and the head rotates to form the thread or, with an interchangeable head, tighten the screw cap.

Interchangeable heads allow capping of glass or plastic bottles and a wide range of cap sizes.

Specifications:

Bottle size:	50-5000 ml
Output:	up to 1000 containers per hour
Electricity:	370 watts 230v 50 Hz single phase or 380v three phase (other voltages available on request)
Compressed air:	up to 100 litre per minute at 4 bar
Overall dimensions:	65 x 45 x 90 cm
Operational weight:	55 kg

Shipping Specification:

One wooden case:	72 x 55 x 105 cm
Gross weight:	85 kgs

Cap Press Part No: 4080000

A hand operated spring loaded machine for the easy fixing of press on lids to glass or plastic bottles. It has adjustable height and depth to accommodate a wide range of containers.

Specifications:

Bottle size:	up to 100 mm diameter x 240 mm tall
Output:	up to 1000 containers per hour
Overall dimensions:	25 x 25 x 45 cm
Operational weight:	10 kg

Shipping Specification:

One case:	30 x 30 x 50 cm
Gross weight:	12 kg



Liquid Filling

Peristaltic Filling

Accuramatic Part No: 3510000

(**Twin head model** Part No: 3510100)

A peristaltic filler designed with the pharmaceutical laboratory in mind. The machine can be operated by hand, footswitch or will cycle automatically with a delay of up to 10 seconds between fills. Like all peristaltic pumps the liquid only comes into contact with the inside of one uninterrupted length of silicone tubing which will withstand repeated sterilisation.

The pump runs at a constant speed for a precisely determined period. Bacteriological inline filtration can be performed at the outlet side of the pump.

Features:

- Stainless steel case
- Sealed membrane keypad and digital display
- Compensated pulse
- Reversible pump
- Soft stop for filling Agar plates



Tube Volumes and Delivery Rates

Part No.	Typical Volume (ml)	Tubing Bore (mm)	Delivery Rate (ml/sec)
3510600	0.2-5	Twin Microbore	1
3510602	5-15	2.4	4
3510604	15-50	4	10
3510606	50-100	6	24
3510608	100-700	8	36



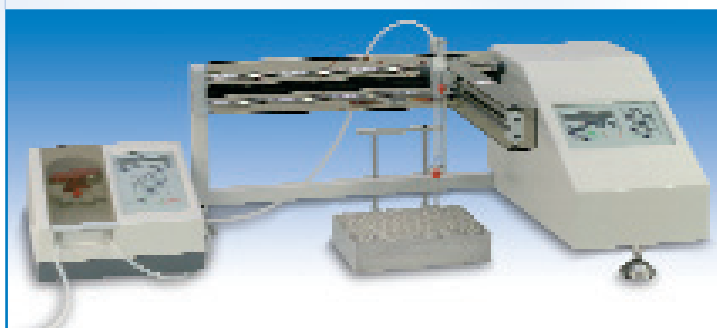
Filling Jig Part No: 3510090

A useful hand operated accessory for use with any peristaltic filler designed to ensure the clean filling of small necked containers such as ampoules without wetting the wall of the container at the sealing point. The container is placed in a custom made holder and raised by hand to a predetermined stop when the filling needle will be centred inside the container.

Specification:

Overall Size: 210 x 105 x 345 mm

Weight: 2.8 kg



Peristaltic Filling

Adelphi Peristaltic Pump Dispenser

and XY Distributor Part No: 3510500/3520005

For hygienic filling of mobile liquids and light oils. The microprocessor controlled Adelphi Peristaltic Pump Dispenser can fill from 0.5 ml - 10 litres. The liquid only comes into contact with one uninterrupted length of silicon or viton tubing so changeovers are quick and easy and there is no possibility of cross contamination. The pump is variable speed and predetermined parameters allow the programming of fill volumes.

The XY Distributor used in conjunction with the Peristaltic Pump Dispenser enables whole trays of vials or bottles to be filled automatically. Microprocessor controlled it can hold 50 fill patterns in its memory.

Tube Volumes and Delivery Rates

Part No.	Typical Volume (ml)	Tubing Bore (mm)	Delivery Rate (ml/sec)	
			Slow	Fast
3510503	0.5-20	3	2.1	4.5
3510505	20-100	5	6.1	13.5
3510608	100+	8	12.4	22.0

For more information please see our website or contact us for a brochure.

Ointment and Paste Mixing

Manual mixing:

The Adelphi Slim Line Heated Ointment Slab

Part No:6032100

Designed for the application of controlled heat to products for mixing by hand. The mixing surface is a toughened glass plate which detaches for easy cleaning. It is heated by an electric panel which allows a 25 mm cool edge to prevent overspill of fluid material. The temperature can be set from ambient to 100°C using the digital controller.

Specifications:

Overall size: 610 x 470 x 130 mm

Working surface: 450 x 450 mm

Electricity: 35 watts normally 240v, 50Hz single phase
110v 60Hz to order

Plain toughened glass slabs for mixing and preparation are also available:

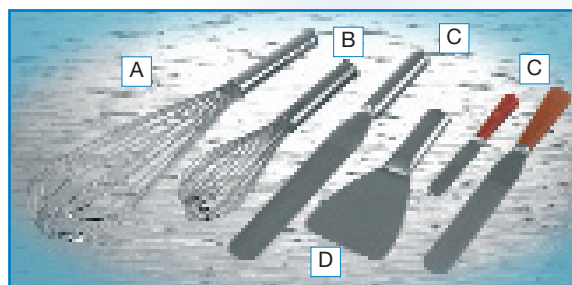
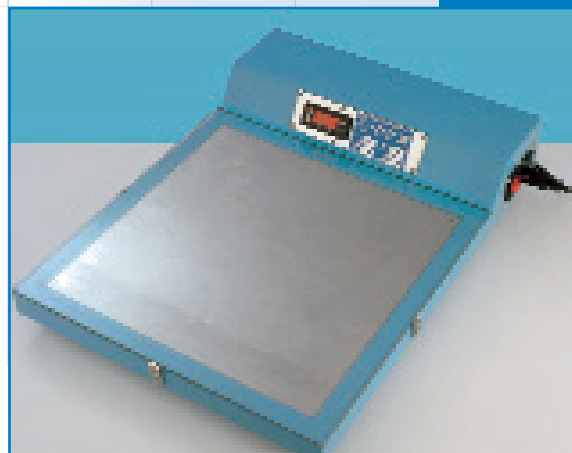
Part No: 6032645 450 x 450 x 6 mm

6032630 300 x 300 x 6 mm

Shipping Specification:

One carton: 68 x 56 x 22 cm

Gross weight: 16 kg



Heavy Duty Whisks (A)

Manufactured from 304 grade stainless steel.

Part No.	Length (mm)	Weight (gm)
WHI4300HD	300	250
WHI4350HD	350	300
WHI4400HD	400	350
WHI4450HD	450	400

Medium Duty Whisks (B)

Manufactured from 304 grade stainless steel.

Part No.	Length (mm)	Weight (gm)
WHI4250P	250	135
WHI4300P	300	140
WHI4350P	350	145
WHI4400P	400	150



Unglazed Porcelain

Glass

Spatulas (C)

Available with either a rosewood or stainless steel handle. The stainless steel handled spatula is crevice and pit free and polished throughout.

Note: In the table below replace * with P if the rosewood handle is required or S if the stainless steel handle is required.

Part No.	Blade Length (mm)	Weight (gm)
S*P4004P	100	50
S*P4006P	150	65
S*P4008P	200	100
S*P4010P	250	150
S*P4012P	300	150

Scraper (D)

Manufactured from 316L grade stainless steel, this scraper is crevice and pit free and polished throughout.

Part No.	Length (mm)	Weight (gm)
SCR6000P	230	200

Mortars and Pestles

Unglazed porcelain or glass sold as sets. Sizes available:

Porcelain Part No.	Diameter (cm)	Size Nos.	Glass Part No.	Diameter (cm)	Approx. Capacity (ml)
5004607	7.5	0000	5004707	7.5	57
5004609	9	00	-	-	114
5004610	10	0	-	-	142
5004611	11.5	1	-	-	199
5004613	13.5	2	-	-	284
5004615	15	3	5004715	15	426
5004616	16.5	4	-	-	650
5004617	17.5	5	-	-	852
5004620	20	6	-	-	1000
5004625	25	8	-	-	1305

Cream and Liquid Filling

Volumetric Filling Adelphi CENTRAC Manual Cream and Liquid Filling Machine

The Centrac manual filling machine is designed for small outputs and comprises a stove enamelled aluminium base plate, chrome plated gun metal pump brackets and stainless steel operating slides, piston shaft and lever handle. To this base set the chosen accessories from the wide range of interchangeable pumps, heads and nozzles are added. Volume is adjusted by altering the position of a stop collar on the guide rod. For finer adjustments a screw is provided to limit the forward stroke of the piston. The whole machine is dismantled in minutes for thorough cleaning. Maintenance should normally only involve replacement of Teflon cup washers and lubrication of moving parts.

Pumps cover the range 5-650 cc. Cream and liquid heads are available for different viscosity products.

Specifications:

Volume range:	5-650 cc
Output:	up to 15 per minute with skilled operation
Accuracy:	+ / - 0.25% from half pump stroke and depending upon product
Dimensions:	340 x 280 x 170 mm (without hopper)
Operational size:	70 mm long x 640 mm wide
Weight:	17 kg (without hopper)

Shipping Specifications:

Centrac with hopper:	One carton 66 x 68 x 85 cm Gross weight 50 kg Nett weight 28 kg
Centrac without hopper:	One carton 66 x 66 x 35 cm Gross weight 30 kg Nett weight 17 kg



Centrac with liquid head



Centrac with cream head

Part No.	Description
3001000	Centrac base set
3020000	Interchangeable cream filling head
3025000	Interchangeable liquid filling head
3010100	V.S.pump set for fills up to 80 cc
3010200	Small pump set for fills up to 230 cc
3010300	Medium pump set for fills up to 400 cc
3010400	Large pump set for fills up to 650 cc
3021606	6 litre 304 stainless steel hopper
3021620	20 litre 316L stainless steel hopper
3021650	50 litre 316L stainless steel hopper
30226++	Curved nozzles for cream filling (state size ++ in mm when ordering)

For more information please see our website or contact us.

Cream and Liquid Filling

Volumetric Filling

Adelphi RESPONSE Semi Automatic Cream and Liquid Filling Machine

For faster and more sophisticated filling the Response pneumatic filling machine is capable of filling liquids, creams, pastes and solids in suspension into all kinds of containers. It fills creams from a hopper and liquids from a bulk container through a stand pipe. In each case the same filling head is used.



Response with hopper

This hygienic and versatile machine is designed with the stringent requirements of the Pharmaceutical Industry in mind and is, whenever possible, stainless steel throughout. Interchangeable pumps and nozzles make this stylish machine versatile, easy to use, and extremely accurate.

Specifications:

Volume range:	5-1000 cc
Output:	up to 40 per minute
Accuracy:	+ / - 0.25%
Air requirements:	200 litres per minute at 6 bar
Dimensions:	840 x 320 x 340 mm (without hopper)
Weight:	39 kg (without hopper)

Shipping Specification:

Response with 50 litre hopper:	One case 105 x 47 x 85 cm Gross weight 63 kg Nett weight 49 kg
Response without hopper:	One case 105 x 41 x 53 cm Gross weight 52 kg Nett weight 39 kg

Automatic Liquid Filling Adelphi CERBERUS

A monobloc compact filling machine designed for the automatic filling, stoppering and closing of small containers from 1 – 250 ml at up to 40 pieces per minute.

This machine uses either volumetric or peristaltic dosing systems and is available as a development from laboratory and pilot plant work to full production capability.



Cerberus

For more information please see our website or contact us for a brochure.

Capsule Filling and Suppository & Pessary Moulds

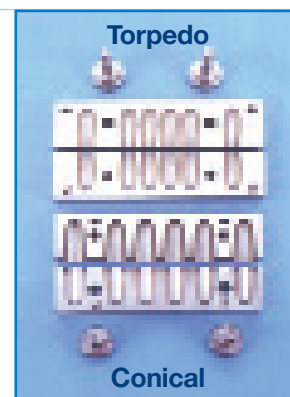
Adelphi Hand Split Moulds

Hand made for over 50 years these moulds manufactured from brass and double nickel plated are accurate to within 10% based on Witepsol base. Standard moulds are conical in shape and range from 0.25 gm to 8 gm. Torpedo shaped moulds are available to order for sizes 1 gm to 4 gm only.

Part Numbers:

All conical moulds start 6005, all torpedo moulds start 6006, the last 3 numbers denote number of cavities and size and are written in table.

No. of Cavities	Size in grams 6005+ Part No. 6006+						No. of Cavities
		0.25	0.5	1	2	4	
6	000	001	002	003	004	005	6
12	100	101	102	103	104	105	12
24	200	201	202	203	204	205	24
36	300	301	302	303	304		36
50	400	401	402	403	404		50
70			502	503	504		70
100	600						100



The Aponorm Aponorm Fix 100 Part No: 6010000

This simple hand operated machine is designed to separate, fill and close hard gelatine capsules of size 0 only, 100 pieces at a time.

A similar machine exists for size 1 capsules.

Part No: 6010002

Specifications:

Materials: Nickel plated metal and plastic

Dimensions: Size 0: 225 x 235 x 80 mm

Size 1: 220 x 180 x 80 mm

Operational weight: Size 0: 1.6 kg, Size 1: 1.2 kg



Aponorm 60

This simple hand operated machine is designed to separate, fill and close hard gelatine capsules of any size 000-5, 60 pieces at a time by the use of interchangeable plates.

Specifications:

Materials: Nickel plated metal and plastic

Dimensions: 220 x 180 x 80 mm

Operational weight: 1.1 kg

Part No.	Item	Size of Capsule	Notes
6010001	Aponorm 60 base unit	Any	One size of plate included
6010100	Interchangeable plates	000	
6010101	Interchangeable plates	00	
6010102	Interchangeable plates	0	
6010103	Interchangeable plates	1	
6010104	Interchangeable plates	2	
6010105	Interchangeable plates	3	
6010106	Interchangeable plates	4	
6015100	Capsule orientator	0	For 30 capsules each time
6015101	Capsule orientator	1	For 30 capsules each time

Capsule Filling

The Adelphi Profill Filling System

Complies with US & International Pharmacopoeias

The Adelphi Profill Capsule Filling machine fills up to 100 capsules at a time of all types, and is supplied with one set of change parts to fill one size of capsule. Additional change parts are available to fill other capsule sizes. Fill weights within +/- 5-7% of average are possible, based on using pre-measured powder for each batch and using the tamping device supplied with each machine. Each machine is supplied with orientator, powder spreader, 50 pin tamper, powder tray and video CD instructions.

The machines are easy to clean and made to GMP standards, all powder contact parts being made from stainless steel or anodised aluminium. Double-blind capsules, tablets and caplets can be made speedily using the patent design and optional inserters.

Heat resistant parts allow autoclaving. All but 2 parts are dishwasher-safe. All parts can be dried with hot air.

All Adelphi Profill Capsule fillers are supplied with orientators and it is therefore not possible to interchange all sizes on one basic machine. However it is possible to fill all sizes except 000 if other change parts and conversion kits are bought.

The table below explains, by reference to part number, what is required to be able to fill other sizes of capsules.

All part numbers to be prefixed 6011



Adelphi Profill Capsule Filling Machines

Part No.	Size of capsule	Part No.	Description
6011000	- Size 000	6011007	- Size 4
6011001	- Size 00	6011008	- Size 5
6011002	- Size 0	6011009	- Size 00el
6011003	- Size 1L	6011010	- Size 0el
6011004	- Size 1S	6011011	- Size AA
6011005	- Size 2	6011012	- Size AAel
6011006	- Size 3		

Change parts for Adelphi Capsule filling machines

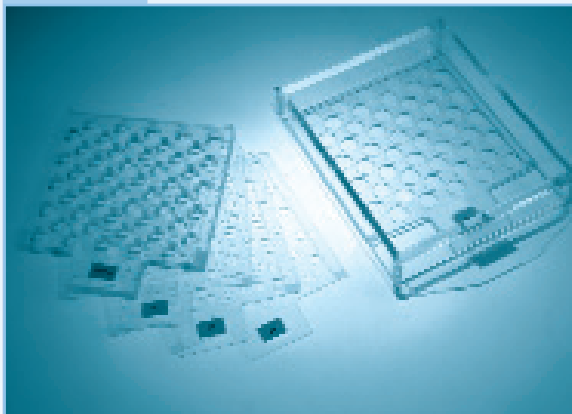
Part No.	Change of parts	Part No.	Conversion kit
6011200	for Size 000	6011300	Size 00-1
6011201	for Size 00	6011301	Size 1-3
6011202	for Size 0	6011302	Size 4-5
6011203	for Size 1		
6011205	for Size 2		
6011206	for Size 3		
6011207	for Size 4		
6011208	for Size 5		

Machine Size	000	00	0	1L	1S	2	3	4	5
To fill 000		200	200	200	200	200	200	200	200
To fill 00	001		201	201	201 & 300	201 & 300	201 & 300	201 & 300	201 & 300
To fill 0	002	202		202	202 & 300	202 & 300	202 & 300	202 & 300	202 & 300
To fill 1L/S	003	203	203			203	203	203 & 301	203 & 301
To fill 2	005	205 & 301	205 & 301	205 & 301	205		205	205 & 10	205 & 10
To fill 3	006	206 & 301	206 & 301	206 & 301	206	206		206 & 10	206 & 10
To fill 4	007	207 & 302	207 & 302	207 & 302	207 & 302	207 & 302	207 & 302		207
To fill 5	008	208 & 302	208 & 302	208 & 302	208 & 302	208 & 302	208 & 302	208	

Capsule sizes that can be filled with Adelphi Capsule Filling System

Machine Size	000	00	0	1L	1S	2	3	4	5
With additional change parts	000	00,0,1	00,0,1	00,0,1	1,2,3	1,2,3	1,2,3	4,5	4,5
With additional change parts and conversion kit	N/A	Any size capsule from 000-5							

Tablet and Capsule Counters



Tumatic Tablet Capsule Counter

Perspex construction for visual checking and easy cleaning. Coated and uncoated tablets up to a diameter of 1/2" and capsules up to 3/4" long can be counted using a range of 5 interchangeable perforated plates. After filling the box, surplus tablets are poured back into the bulk container. By partially withdrawing the slide, 5 to 10 tablets - depending on tray and tablet - are dropped into the bottom for easy dispensing into bottles. Full withdrawal dispenses 50 or 100 tablets.

Part No: 6023100

Manual

Triangular Tray Type for Round Tablets

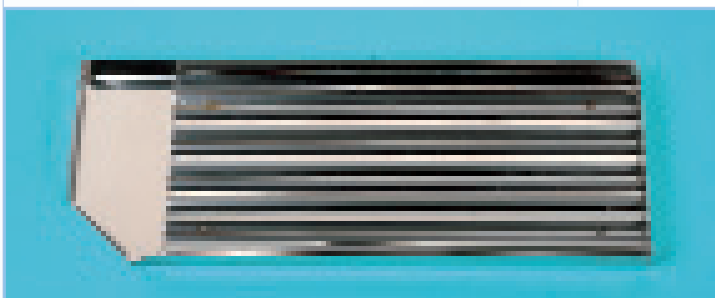
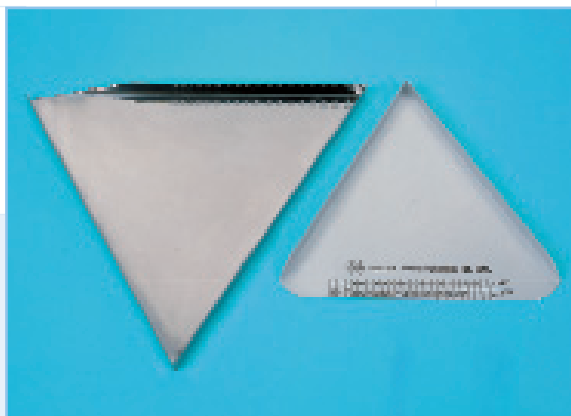
Anodised aluminium with one open side, printed scale, 180 mm (7 in)

Part No: 6020607

(Sold in packs of five)

Stainless steel three sided with small gap, etched scale, 250 mm (10 in)

Part No: 6020610



Manual

Capsule Counting Tray Part No: 6021100

Made of Stainless steel the grooves allow ten rows of capsules to be counted together. Size 175 x 88 mm

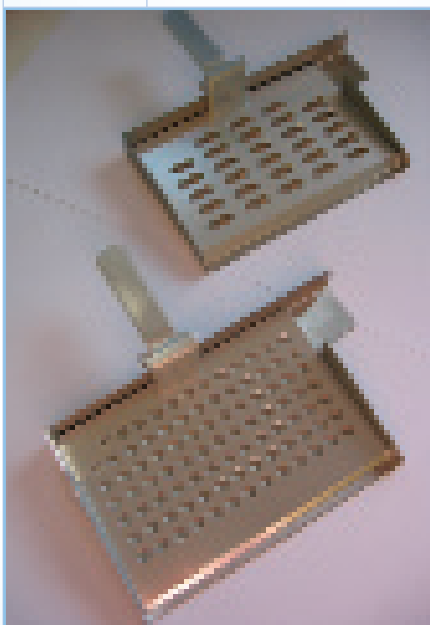
Powder Folder

Part No: 6023200

For folding papers used to administer custom dispensed drugs. Manufactured from brass with polished and lacquered blades the folder can be adjusted so that different lengths of paper fold can be made accurately and quickly.



Power folder



Lifting Leaf Counter for Tablets and Capsules

Manufactured from stainless steel and anodised aluminium these special manual counters are made to order to match samples provided by the customer. They count a specific number of objects which is not variable. The counter is used like a scoop and pushed into a pile of objects which fall into the holes in the counting plate. When all the holes are filled the excess is shaken off. The counter is then tilted back and the plate lifted to allow the predetermined number of objects to be transferred to a container via the outlet chute. Part No: Each counter has a unique part number but tablets are prefixed 6023300 and capsules 6023400.

Power Mixing

Powered mixing:

Electric Planetary Mixers PM900 Part No: 4025606

Large 6.7 litre capacity stainless steel bowl and finger guard. With industrial style on off switch, safety cut out, automatic electronic variable speed control, and simple pop up head for tool change. Many optional extra attachments if required.

Specifications:

Overall size: 350 x 400 x 250 mm

Weight: 9.1 kg

Electricity: 800 watts normally 240v
50Hz single phase
110v 60Hz to order

Shipping Specification:

One carton: 50 x 35 x 45 cm

Gross weight: 11 kg



HDP20 20 litre Planetary Mixer Part No: 4025620

Similar to above but 20 litre capacity

Specifications:

Overall size: 655 x 520 x 940 mm

Weight: 100 kg

Electricity: 750 watts normally 240v
50Hz single phase
110v 60Hz to order

Shipping Specification:

One case: 80 x 62 x 110 cm

Gross weight: approx 140 kg

Electric Planetary Mixers HDP10 10 litre Planetary Mixer

Part No : 4025610

Ten litre capacity stainless bowl on powered raising and lowering system. Powerful motor with frequency variator for even speed control. Transparent safety guard easily removable for cleaning three standard tools supplied: spiral hook, robust paddle and whisk.

Specifications:

Overall size: 600 x 454 x 656 mm

Weight: 37 kg

Electricity: 750 watts normally 240v
50Hz single phase
110v 60Hz to order

Shipping Specification:

One case: 68 x 53 x 80 cm

Gross weight: approx 50 kg



Laboratory Stirrer Part No: 4032000

A two speed electronically controlled stirrer allowing almost constant torque over the ranges 40-400rpm and 200-2000rpm. The DC motor is maintenance free, brushless and robust. This 50 watt model is suitable for stirring up to 50 litres of aqueous liquid. A digital display shows the rpm. The unit is mounted on an adjustable stand and propellers of various shapes and sizes can be supplied.

Specifications:

Overall size: 430 x 420 x 700 mm

Chuck: Max 10.5 mm shaft

Shaft length: 450 mm

Speed: 40-2000 RPM

Electricity: 50 watts 240v, 50Hz single phase

Shipping Specification:

Carton: 74 x 44 x 22 cm

Gross weight: approx 15 kg

Bottle Washing Dispensing Measures

Adelphi Bottle Washer

The Adelphi bottle washer is used for the internal rinsing of bottles with mains water. Neck diameters between 9.5 mm and 100 mm can be handled at a rate of up to 600 per hour. Two different models and a range of nozzles are available to suit many different containers.

A bottle is inverted over the nozzle and depressed. This releases the spring and jets of water are released which clean every part of the inside of the container. The normal four armed rest is made from plastic and is easily cleaned or replaced.

Nozzles are screwed into the body and are interchangeable. The unit may be attached to the mains directly by plumbing (Model 3) or on a stand with a pipe connected to a tap (Model 2)



Part No.	Description
6025000	Model 2 Bottle Washer with standard nozzle (stand alone)
6025100	Model 3 Bottle Washer with standard nozzle (plumbed in)
6025202	Sprinkler Nozzle for very small vials
6025201	Syringe Barrel and Test Tube Nozzle
6025203	Vial Nozzle

Specifications:

Container size:	Any size with minimum internal neck diameter 9.5 mm
Output:	up to 60 per minute
Water supply:	At pressure up to 2 bar
Dimensions:	110 x 110 x 200 mm
Operational weight:	1.8 kg

Shipping Specifications:

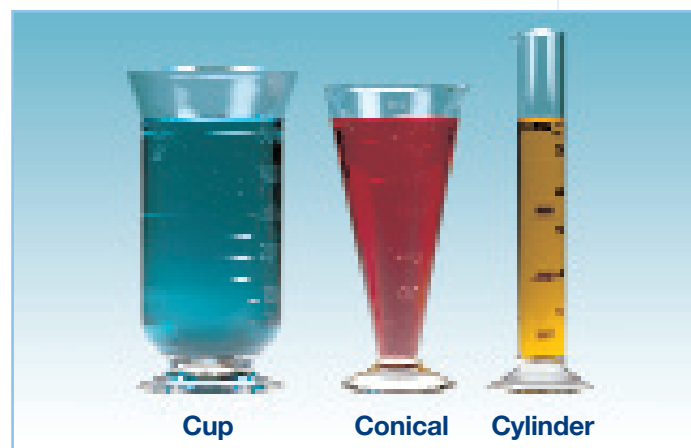
One carton:	24.5 x 17.5 x 18 cm
Gross weight:	2 kg

All our dispensing measures are manufactured from the highest quality Duran or Pyrex glass. All conical measures and some cup shaped measures are available Government Stamped as proof of calibration. Those available without Government Stamp are at a lower price.

Conical Dispensing Measures

All Government stamped to BS1922. Those available without Government stamp at a lower price:

Stamped Part No.	Capacity (ml)	No. of Grads	Unstamped Part No.	Capacity	No. of Grads
5002001	5	5	5002101	5	5
5002002	10	6	-	-	-
5002003	10	10	5002103	10	10
5002004	20	8	5002104	20	8
5002005	25	5	5002105	25	5
5002006	25	9	5002106	25	9
5002007	50	6	-	-	-
5002008	50	10	5002108	50	10
5002009	50	18	5002109	50	18
5002010	100	6	-	-	-
5002011	100	10	5002111	100	10
5002012	200	10	5002112	200	10
5002013	250	6	-	-	-
5002014	250	10	5002114	250	10
5002015	500	6	-	-	-
5002016	500	10	5002116	500	10



Three types of glass measure are available:
CUP: Government stamped or unstamped
CONICAL: Government stamped or unstamped
CYLINDER: Unstamped

Cup Shaped Measures

Stamped Part No.	Capacity (ml)	No. of Graduations
5001015	500	6
5001016	500	10
5001017	1000	10
Unstamped Part Nos.	Capacity (ml)	No. of Graduations
5001116	500	10
5001117	1000	10

Measuring Cylinders

Part No.	Capacity (ml)
5003001	5
5003002	10
5003003	25
5003004	50
5003005	100
5003006	250
5003007	500
5003008	1000
5003009	2000

Optical Inspection

Apollo 1 Liquid Viewer

Part No: 6031100

A polarised light inspection station for the detection of particles in liquids contained in vials, ampoules and bottle or bags.

A 1.7x Magnifier is optional:

Part No 6031101

Method: Gently swirl or invert the product and hold the container between the two polarizing screens. Any particles in the liquid will show as bright moving specs in an otherwise dark background. The front screen and optional magnifier are adjustable.

Specifications:

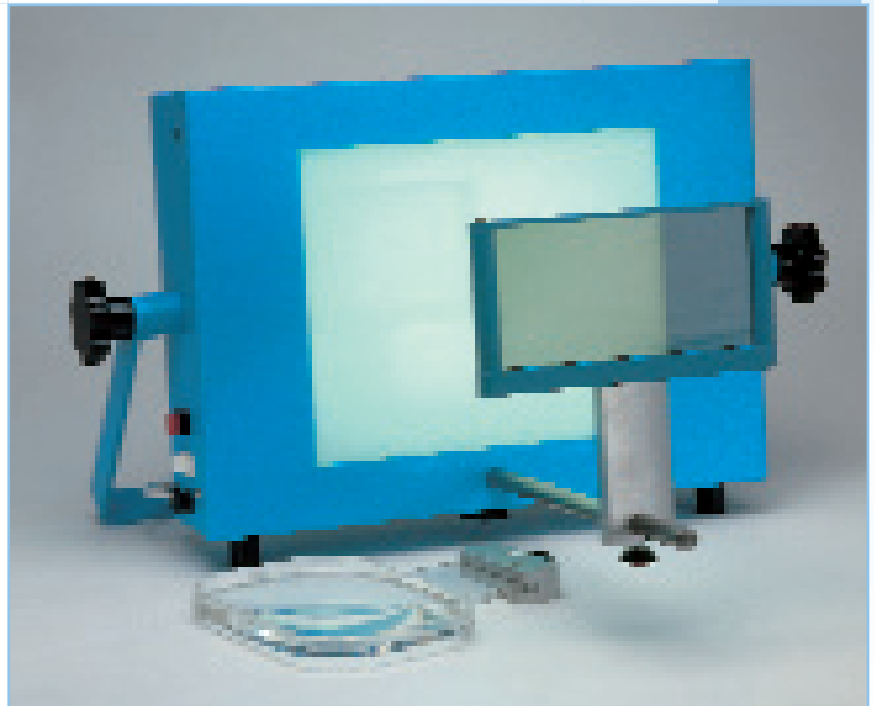
Back screen size: 214 x 162 mm

Front screen size: 145 x 74 mm

Electricity: 52 watts 240 v 50 Hz
single phase
(110 v 60 Hz to order)

Dimensions: 450 x 310 x 349 mm

Operational weight: 4.9 kg



Shipping Specification:

Carton: 50 x 41 x 27 cm

Gross weight: 6.3 kg

Apollo 2 Liquid Viewer Part No: 6031200

This unit provides a simple method for the detection of visible particles in accordance with Specification 2.9.20 (1997) of the European Pharmacopoeia.

The apparatus consists of a viewing station in a painted aluminium frame comprising a matt black panel held in a vertical position and a non-glare white panel held in a vertical position adjacent to the black panel. A light unit adjustable in height with 2 x 13 watt fluorescent lamps within a polycarbonate cover gives downward light with an intensity maintained between 2000 and 3750 lux.



Method: Gently swirl or invert each individual container ensuring that air bubbles are not introduced and observe for about five seconds in front of the white panel. Repeat the process in front of the black panel.

Specifications:

Black screen size: 295 x 475 mm

White screen size: 295 x 475 mm

Electricity: 26 watts 240 v
50 Hz single phase
(110 v 60 hz to order)

Dimensions (overall): 590 x 430 x 500 mm

Operational weight: 9.5 kg

Shipping Specifications:

Carton: 77 x 61 x 35 cm

Gross weight: 11.5 kg (28 kg by volume)

Tube Closing

Plastic or Laminate Collapsible Tube Closing

Manual sealing machine for single tubes Part No: 4001200

For simple closing and heat sealing of plastic or laminate tubes one at a time in the research or trials laboratory this compact unit is ideal.

Manufactured from aluminium and completely hand operated the timing is controlled by the operator. An option trimming device is also available to order.

Specifications:

Tube size range: 12-40 mm diameter
Electricity: 550 Watts 230v 50 Hz single phase
Output: up to 3 per minute
Overall size: 250 x 150 x 220 mm
Weight: 6 kg



Tube Folding Pliers Part No: 4001100

A simple method of closing individual metal tubes in the research or trial laboratory, hand held with plastic handles for comfort and safety.

Specifications:

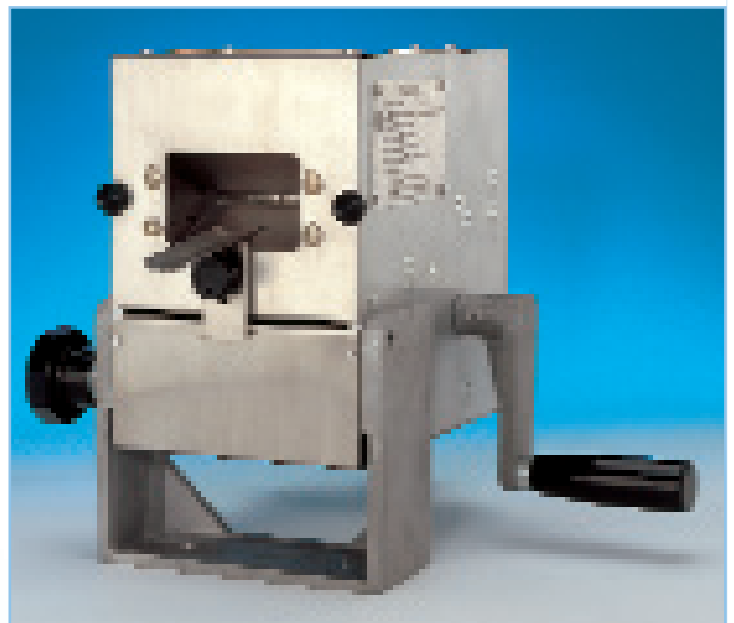
Overall size: 180 x 65 mm
 (including handle)
Weight: 300 gms

Aluminium Collapsible Tube Closing Adelphi CENTRAC FCC Manual folding, closing and crimping machine

The Centrac FCC is operated by a handle which requires two turns to close fold and crimp a tube giving a double fold. An adjustable rest is provided to locate tubes in the correct position, a gauge plate regulates depth of fold and a wing nut adjusts the depth of crimp by altering the spring tension. All working parts are fully guarded. Coding jaws are supplied as standard to hold up to four figures and or letters for batch marking.

The angle of operation is infinitely variable through 90°.

Part No.	Description
3101000	FCC folding closing and crimping machine
3110000	Set of numerals 0-9 for coding jaws
3111001-26	Letters A-Z for coding jaws



Specifications:

Tube size range: 12-40mm diameter
Output: up to 10 per minute
Overall size: 330 x 203 x 308 mm
 (including handle)
Weight: 11.6 kg

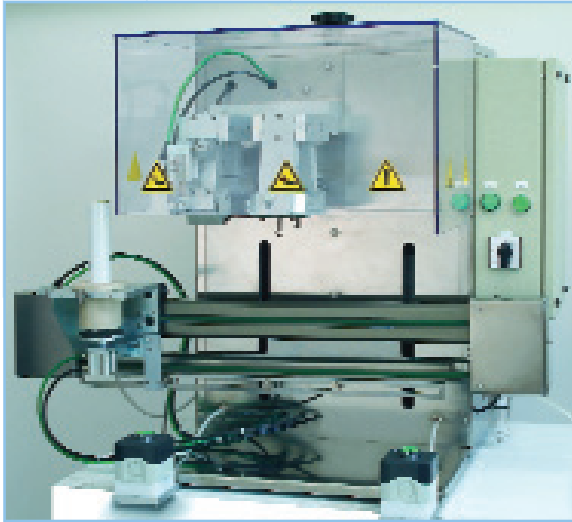
Shipping Specification:

One carton: 46 x 38 x 36 cm
Gross weight: 17 kg

Aluminium, Plastic or Laminate Collapsible Tube Closing

Aluminium, Plastic or Laminate Collapsible Tube Closing Adelphi Bench-Top Tube Sealing Machine

Semi-automatic sealing machine for single tubes Part Nos. 3123000 (metal) 3124000 (plastic)



This machine is available in two formats, one for sealing aluminium tubes, the other for sealing plastic or laminate tubes. In both cases, the tubes are loaded by hand into a tube holder which is then transported automatically under each station on the machine then back to the original position. A two-handed start is provided for safety.

The metal tube version has two stations:

1. to make two folds
2. to clamp the folds and apply a code if required.

The plastic tube version has three stations:

1. heated sealing jaws controlled by two temperature regulators
2. cold pressing jaws with coding if required (mains water fed, re-circulating system available as optional extra)
3. trimming jaws (Trimmings blown into container mounted behind the station for emptying when required).

Specifications:

Tube size range:	10-50 mm diameter. 50-250 mm height
Electricity:	1.5kW 220v 50Hz single phase
Air:	300l/h at 5 bar
Water:	Plastic version only - approx 50l/h
Output:	Up to 5 per minute
Overall size:	890 x 590 x 730 mm
Weight:	80 kg

Shipping Specification:

One case:	100 x 75 x 90 cm
Gross weight:	100 kg



Semi-Automatic and Automatic Tube Filling

We can offer a comprehensive range of machinery for metal and plastic tube filling, supplied by TGM of Italy. Some examples of these machines are given below – please ask for more details.

Please note that we are the sole agents for TGM in the UK and Ireland and enquiries from other countries may need to be referred to TGM's local agent.



E250



S400



B600



T200

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