

OPTIMUM QUALITY MAXIMUM RELIABILITY™



## Certificate of Conformity

### Ecopax CP316S2-I

We certify that the abovementioned product meets the requirements stipulated by:  
EEC-Guidelines 98/37/EG and 91 / 368/EWG/2006/42/EG  
EMV-Guidelines / EWG89/336-91/263/EMV and 92/31/EMV  
The above mentioned product meets the following standards and guidelines:

EN 294-1 dated 1992  
EN 1088 dated 1996  
EN 0113-3 dated 06-2007  
EN 60204-1 dated 1997/1998  
EN 55011 dated 1997  
EN 61000-4-2/-5 dated 1995/98  
EMV 50140 (IEC 1000-4-2/-4) dated 1993  
BS EN 13857 2008

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CP316S2-I Operating Instructions 01.2016  
Re-order code: LIT-MAN002

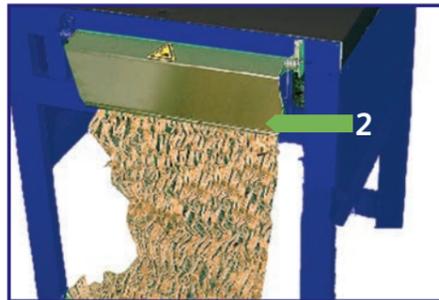
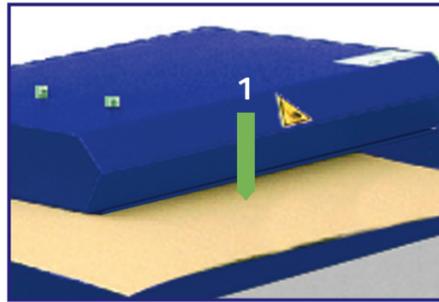
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For more information on Ecopax Shredders and the Optimax® Packaging Equipment range and to find your preferred or appointed distributor please call 0333 005 9603 or email [optimax@packagingbrands.eu.com](mailto:optimax@packagingbrands.eu.com)

# ECOPAX CP316S2-I

## Operating Instructions





### Technical data:

Loading width – cardboard size:	endless
Cutting width:	320 mm x endless
Cardboard thickness:	> 12 mm
Production output:	1-2 m <sup>2</sup> /h
Throughput rate:	10 mtr/min
Motor capacity:	0,75 kW
Mains voltage:	230-240V 50/60Hz
Dimensions H x W x D:	980 x 660 x 660 mm
Weight:	92 kg

### Important Maintenance and Cleaning Instructions

Always ensure that the machine is disconnected from the mains at the power socket before opening the housing for cleaning and maintenance work.

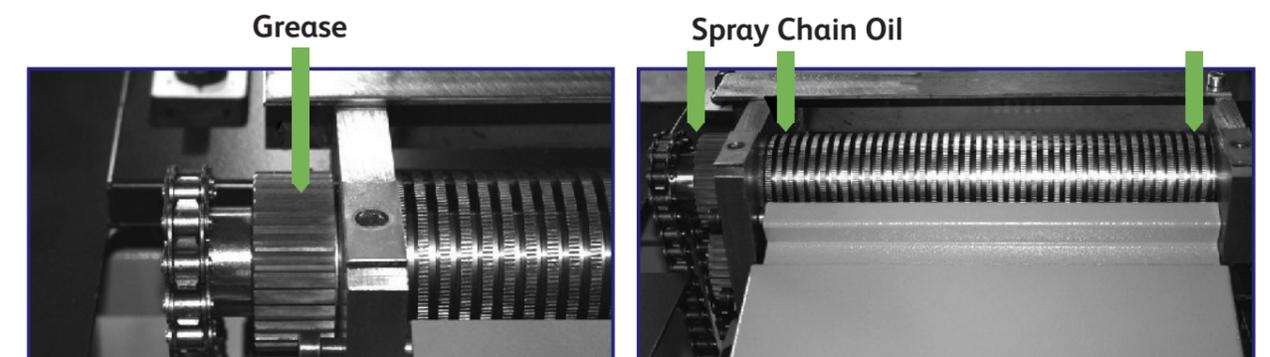
### Maintenance and Cleaning of the Cutting Mechanism

The gears and the drive chain must be cleaned and greased monthly. Proceed as follows:



1. Remove the four Allen screws that secure the hood.
2. Fold the hood back on its hinge.
3. Remove the left side cover of the housing (7mm socket spanner required).
4. Use a vacuum cleaner to remove loose dust and dirt. Clean the chain and gears with compressed air, using appropriate eye and hand protection.
5. Apply fresh grease to the gears and the drive chain, using a brush or grease gun.
6. Spray light oil on the bearing plates and cutting blades at the ends of the cutting mechanism, where the cutter shaft is held by the bearing.
7. Replace the side cover and hood, ensuring that they are both properly secured.

Repairs must only be carried out by a specialist.



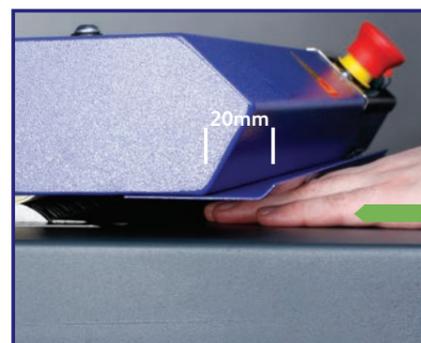
### Important Safety Notes



- > All safety elements are designed for safe operation by one person, so the machine must not be operated by more than one person at a time.
- > Distances between the feed opening, the emergency-off switch etc. are designed for safe operation by adults. Children must be kept away from the machine if it is connected to a power supply.
- > Before using this machine, tie back long hair and remove neckties, jewellery, scarves or other loose items that may present a risk.
- > Do not insert fingers into the feed aperture when the machine is running.
- > In the event of an emergency, switch off the machine at the main switch or emergency stop button and disconnect immediately from the mains power supply
- > Always ensure that the machine is disconnected from the mains at the power socket before opening the housing for cleaning and maintenance work.
- > Repairs must only be carried out by a specialist.
- > All Ecopax Shredders are manufactured to exceed the safety requirements outlined in BS EN ISO 13857:2008 'Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs'.

This British Standard is the UK implementation of EN ISO 13857:2008 and states that an opening to the blades of 20mm height must have a minimum safety distance from the blades to the opening of 120mm.

In line with our policy of providing premium quality equipment, Optimax shredders are now manufactured with a safety distance of 140mm.



Additional 20mm safety guard fitted to all Optimax Ecopax Shredders



Extract: Illustration from the EN ISO 13857:2008 regulation.

Table 5 — Reaching through regular openings — Persons of 14 years of age and above

Dimensions in millimetres

Part of body	Illustration	Opening	Safety distance, $s_r$		
			Slot	Square	Round
Fingertip		$e \leq 4$	$\geq 2$	$\geq 2$	$\geq 2$
		$4 < e \leq 6$	$\geq 10$	$\geq 5$	$\geq 5$
Finger up to knuckle joint		$6 < e \leq 8$	$\geq 20$	$\geq 15$	$\geq 5$
		$8 < e \leq 10$	$\geq 80$	$\geq 25$	$\geq 20$
		$10 < e \leq 12$	$\geq 100$	$\geq 80$	$\geq 80$
		$12 < e \leq 20$	$\geq 120$	$\geq 120$	$\geq 120$
Hand		$20 < e \leq 30$	$\geq 850^a$	$\geq 120$	$\geq 120$
Arm up to junction with shoulder		$30 < e \leq 40$	$\geq 850$	$\geq 200$	$\geq 120$
		$40 < e \leq 120$	$\geq 850$	$\geq 850$	$\geq 850$

The bold lines within the table delineate that part of the body restricted by the opening size.

<sup>a</sup> If the length of the slot opening is  $\leq 65$  mm, the thumb will act as a stop and the safety distance can be reduced to 200 mm.

### Electrical Connection

Connection to a 230/240V AC, 50/60Hz supply is required for operation of the CP316S2-I. The CP316S2-I is supplied with a 2 metre power lead and plug, which uses slow blow 10A replacement fuses.

## Operation

Connect to mains. Turn rotary knob at the front (5) to the right; when the green light shows (3) the machine is operational.

Feed cardboard material into the feed aperture (1) until the mechanism grips it. Large pieces of cardboard may require additional support, but hands must be kept well clear of the feed aperture at all times.

To turn the machine off under normal operating conditions, switch the rotary knob (5) to the middle position. In an emergency, press the emergency stop button (7). To resume operation, the emergency stop button must be rotated anti-clockwise to release it.

If the thickness of cardboard fed into the machine is too thick and it jams, switch the rotary knob (5) to the middle position to stop the machine, then to the red position to reverse the feed and remove the cardboard from the machine.

If the machine overheats, the thermal overload switch (4) will activate and automatically stop the machine. If this occurs, pause the machine for a few minutes then depress the thermal overload switch and resume operation.

## Padding flap

The flap attached at the rear of the machine converts the processed cardboard into high-bulk void fill.

If protective matting is required, disconnect the two springs situated either side of the flap (2).

**Caution** – ensure that processed cardboard can freely exit the outlet channel at all times.

## Important Operating Instructions



- > This machine is suitable for processing paper materials exceeding 60gsm and corrugated cardboard up to 10mm thick.
- > Use of unsuitable materials may result in operator injury, damage to the machine and accelerated wear or damage of the cutting blades.
- > If processing waste packaging material, always ensure that no hard objects are concealed in folds or carton flaps.

- > If processing cartons containing staples, where possible feed the cartons through the machine so that the stapled areas fall outside the feed path and discard these sections.
- > Individual staples cannot cause damage to the cutting mechanism, but risk damage to packaged contents or injury if left in packaging material

## Safety

Operating Instructions should be readily available and must be complied with at all times.

Care must be taken to prevent long hair, loose clothing and jewellery from becoming caught in the mechanism.

Defects and malfunctions which endanger the safety of the employees must be repaired and the machine must be put out of operation until these hazards have been eliminated.

## Maintenance and service

The machine must be thoroughly checked at least once a year by an authorised person.

All safety features must be checked every 2-3 months to confirm they have not been removed or disabled and to identify signs of wear or malfunction.

The cutting mechanism must be regularly checked and kept clean (see instructions on page 3 of this manual).

The cutting rollers must be lubricated periodically, by spraying light oil such as WD40 onto them through the feed inlet whilst the machine is running.

# Packaging products from Optimax®



## Semi and Fully Automatic Strapping Machines

The Optimax® range of strapping machinery is one of the most comprehensive available to the packaging professional. All models feature the every latest strapping technology designed to offer the user the most effective strapping solution for their application.



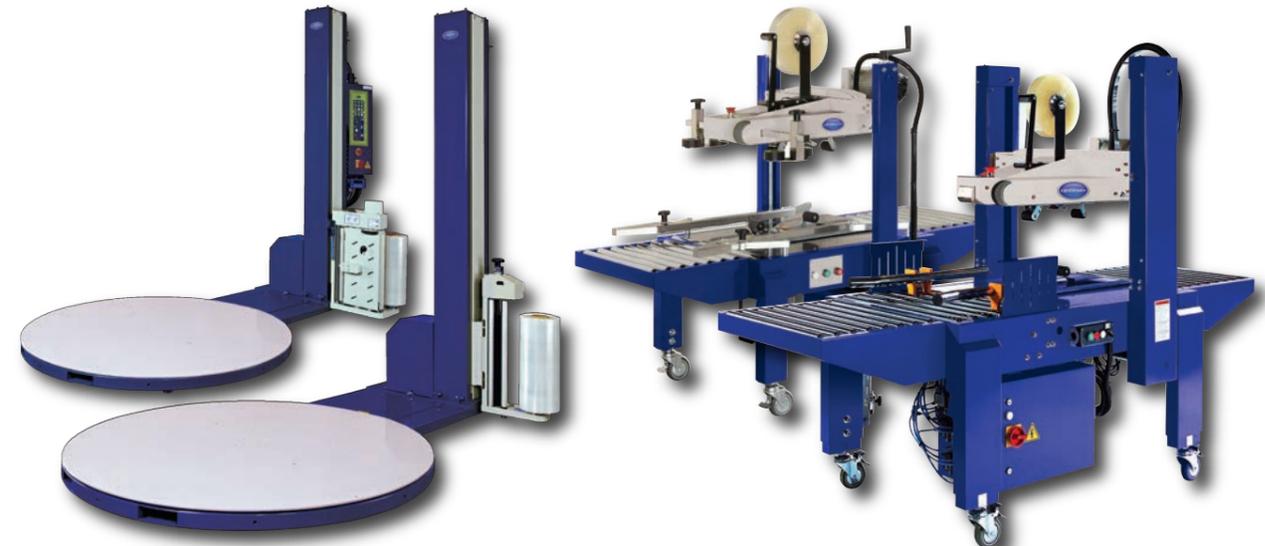
## Heat Shrink Chambers

Optimax® heat shrink chambers are available in a range of chamber capacities to suit a wide variety of product sizes. Utilising the latest shrink chamber technology, these units offer the packaging professional high quality, on demand heat sealing.



## Impulse Heat Sealers

The Optimax® range of high quality impulse heat sealers offer the ultimate in sealing performance and productivity. From desktop to heavy duty industrial models available, there is an Optimax® heat sealing solution for any application.



## Pallet Stretch Wrap Turntables

These units provide a cost effective means of significantly increasing your pallet stretch wrapping output. They also reduce operator fatigue caused by repetitive manual pallet stretch wrapping.

## Semi-Automatic Case Tapers

Optimax® case tapers offer integrated carton sealing within an existing packaging line or stand-alone system. With minimum set-up and consistent sealing, these machines are manufactured to the highest standards, suitable for continued industrial use.



## Cardboard Shredders



The range of Optimax® carton shredders provide an eco-friendly means of creating useful loosefill on demand from your waste cardboard. With models suitable for light to heavy use, Optimax® cardboard shredders are an excellent way of creating free, eco-friendly void fill material from your waste packaging, while reducing your carbon footprint and landfill costs.

## Optimax® Warranty

All Optimax products come with a 12 months parts or return to base warranty as standard. Extended warranty options are also available, please ask your authorised Optimax® distributor for more details.

## Air Pillow Void Fill Systems



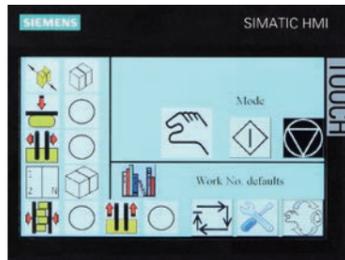
An efficient means of creating void fill material on demand. Prior to use, air pillow film rolls require minimal storage space and are less prone to settling or movement during transit than many conventional void fill materials. Deflation of pillows after use minimises waste volume.

**For more information on the range of Optimax® packaging equipment please contact your authorised Optimax® distributor.**

The Optimax® brand is a global standard that encapsulates the very best packaging equipment, innovation, engineering and consumables available to the packaging professional.



Optimax® offers a comprehensive technical advice service and training programme to ensure you maximise the full operating potential of your Optimax® packaging equipment.

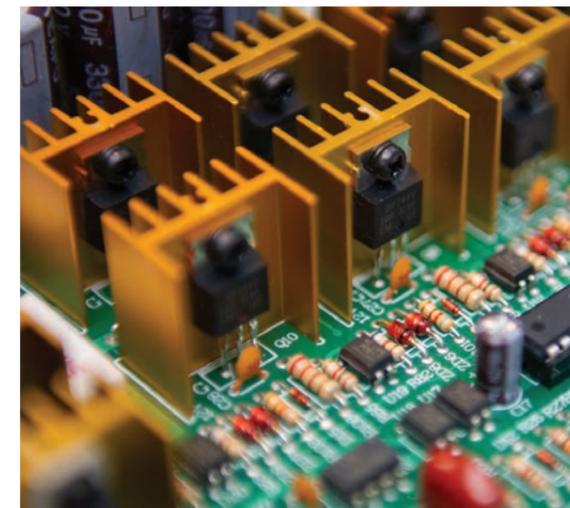
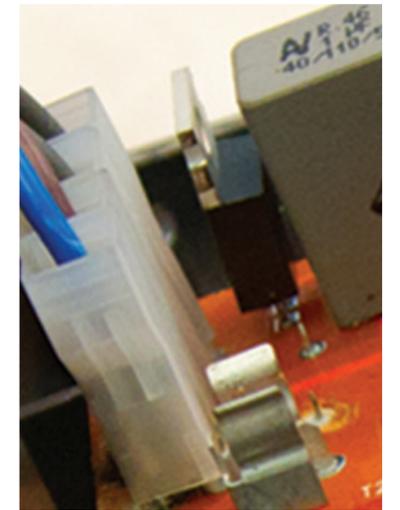


Our highly trained technical team and European network of authorised distributors can offer training either on-site or at an Optimax® training centre.

The Optimax® aftersales service offers complete peace of mind via our technical service centre, highly trained technicians and comprehensive parts and spares operation.

To ensure your Optimax® packaging equipment is maintained to the highest operating standards, the Optimax® technical service centre provides full technical support and service for our distinctive and evolving product range.

In addition to our large stock holding of spare parts, we have many years of experience in packaging equipment service and repair, which help to minimise the downtime in your packaging operation.



Please contact your authorised Optimax® distributor for more information on the Optimax® range of training and aftersales maintenance and service packages.