

# SENATOR EVO

VERTICAL SEALER CONVEYOR SYSTEM



**CONTINUOUS FEED INLINE  
LAMINATE POUCH SEALER**

## SENATOR EVO CONTINUOUS FEED HEAT SEALER

A vertically arranged rotary heat-sealing machine system dedicated in the sealing of complex / laminated pouches and films, i.e. coated foils / papers, poly lined bags and plastic laminates (for other films consult Astrapac). Designed as a standalone sealing system, ideally suited for use with powders and free flowing products, able to achieve a relatively high production speeds. This unit is typically suitable for pack weights of up to 5Kg. This sealing system is required to be manually fed and is made up of three main components, the sealing head, a height adjustable floor stand and a high level belt conveyor.



The SENATOR Evo sealing head is built to an industrial specification, with powerful heaters, coupled with precision made pressure wheels, gives it the ability to seal through heavy folds and gussets.

The controls feature electronic variable speed drive, a precise digital temperature controller accurately monitors the heaters, ensuring consistent high quality seals.

To provide easy entry into the sealing head, the SENATOR features a belt driven infeed to collect the bag top as it is presented. Once gripped, a firm pressure is maintained as it passes through the machines sealing processes, ensuring the bag top remains square and the seal line cannot be stressed by either pack weights or operator's incorrect presentation. At exit, heavy duty pressure wheels producing a distinctive crimp pattern appearance to the seal.

This sealing head is primarily a stainless steel construction with a few internal exceptions of where aluminium and engineering plastics are used.

**NOTE, THIS MACHINE IS NOT SUITABLE FOR SINGLE WEB PLASTICS e.g. POLYTHENE**

### FEATURES

Ability to seal through gussets & folds.  
Electronic variable speed.  
Accurate temperature control.  
Proven reliability.  
Simple in operation

### OPERATION

Senator uses the principle of continuously driven gripper belts to pass the bag top between an arrangement of heater blocks and pressure wheels to affect a seal.

### OPTIONS (FACTORY FITTED)

Non standard seal widths  
Flat Seal Pattern  
Left to right version  
Printing facility (see later detail)

### TECHNICAL SPECIFICATION SEALING HEAD

Seal Width	12mm	
Seal Form	Crimp Pattern	
Maximum Throat Depth of the Sealer (to allow the bag tops to pass through)	70mm	
Minimum Height Distance Required Inside the Sealer to Produce a Seal	42mm	
Infeed Length	340mm	
Variable Speed Range	3 – 12 Metres	
Pack Weight Able To Be Carried "Unsupported"	0.25Kg	
Temperature Range	Maximum 250°C	
Power Consumption	500 Watts	
Power Supply	230 Volts	
Direction Of Feed	Right to Left (Standard)	
Finish	Stainless Steel Bodywork	

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## SEALING HEAD PRINTING FACILITY OPTION

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As a factory fitted option, Astrapac can provide a compact ink jet printing head for with this system. Generally mounted on the sealers infeed and set to provide printing currently above the line of seal.

The unit is capable of printing four lines of continuous print. Character size varies depending on the number of lines of printing required, typically four lines produce 2mm high characters, 2 lines at 4mm. The standard printing head offered, uses an off line system. Data information is loaded to the printing head via a USB flash drive or ethernet cable from a P.C. The system uses a one colour ink from a replaceable cartridge.




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## FLOOR MOUNTED STAND

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A height adjustable assisted lift floor stand is offered for mounting the SENATOR sealing head over a belt conveyor or similar. Based on a telescopic tube principle, the relevant seal height can be set. The rise and fall is manually controlled aided by an internal gas strut. The floor stand has a sturdy base which is mounted on braked wheels for manoeuvrability. Constructed in stainless steel




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## BELT CONVEYORS

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Astrapac provide a standard high-level belt conveyor which is suitable for most applications. Integrally arranged (allows the sealing head, floor stand & conveyor to be fixed together as a one-piece unit), the system is able carry 4 x 5Kg packs at any one time.

Different sized or existing conveyors can be used, subject to them being compactable with the SENATOR sealing head.

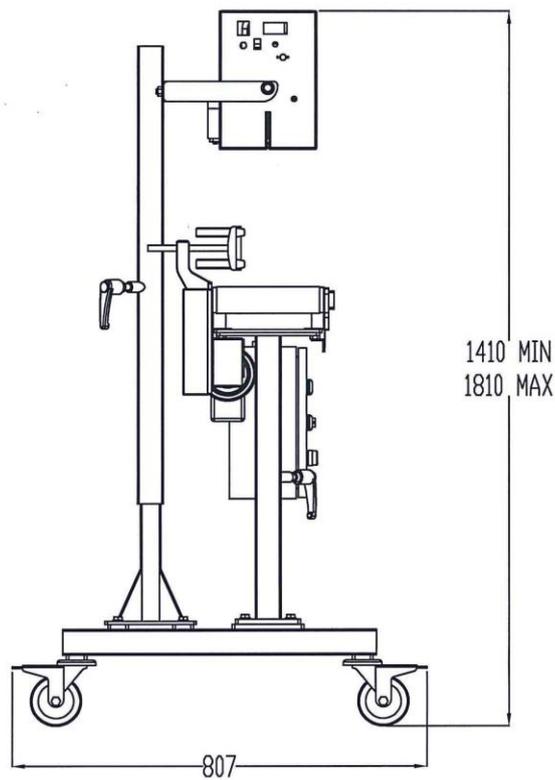
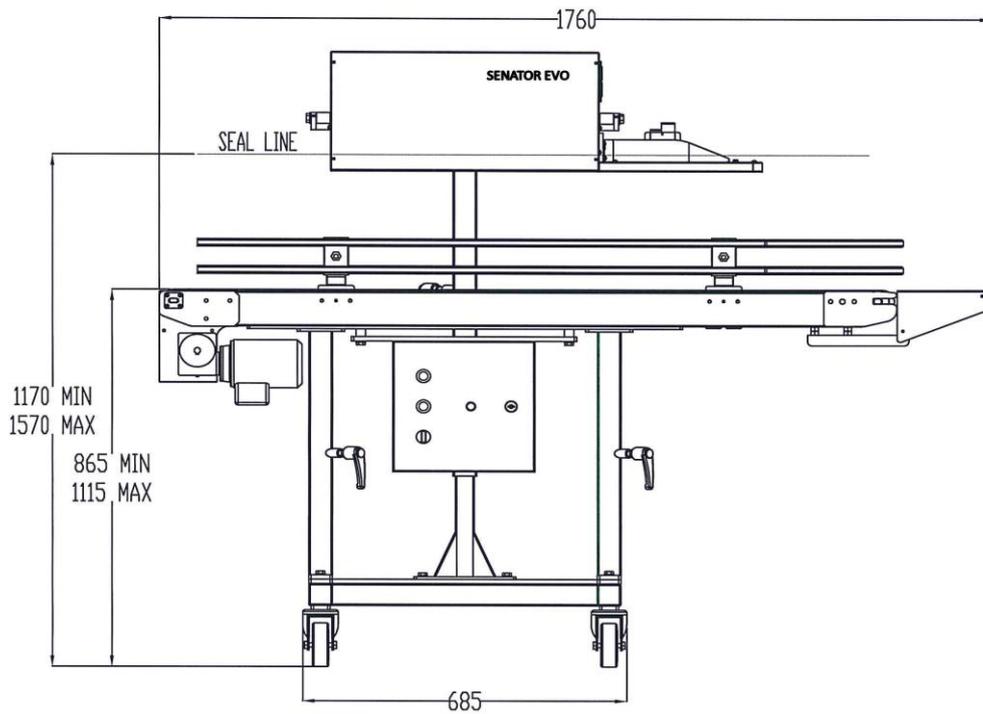
The conveyor offered incorporates a number of features including, IP54 ingress rating, an initial preparation plate ahead to the transport belt, (provided for readying a pack prior to presentation). A fully adjustable rear mounted pack guide, (ensures pouches run along the centre line of the system). Its own independent height adjustment, allows the unit to be matched to other existing inline equipment or set to a comfortable working height for an operative.



The conveyor channel has a travel facility in its design, this provides some forwards or backwards movement to offset the sealing head from centre, should the application dictate (e.g. necessary to overhang a carousel, pass through a partition, wall etc). The conveyor is variable speed and is fitted with a food grade transport belt. A tracking system eliminates belt wandering. Manufactured in stainless steel.

Speed	Variable (to match head)	
Standard Belt Sizes	154cm Long	21cms Wide
Working Height from Floor	865-1115mm	
Belt Spec	F.D.A. Approved Polyurethane	
Max Capacity	25Kg	
Infeed prep plate length	340mm	
Power Supply	230 Volts	
Direction of Feed	Right to Left (Standard)	
Finish	Stainless Steel	

## SENATOR EVO DIMENSIONS OF STAND ALONE SEALING SYSTEM



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HEAT SEALING MACHINERY