

up to  
**120**  
cycles/min



**Fully-Automatic, Continuous-Motion Form-/Fill-/Seal-Machine**

## UNIVERSA 500 SERVO-FS

### Stainless Steel Execution

The new UNIVERSA 500 SERVO is a hybrid that closes the gap between intermittent-motion and continuous-motion machines of today. It is the first time that a single machine can offer combined advantages from both machine types. One example is the film transport with vacuum belt that creates an even drag across the whole width of the film to form accurately dimensioned square bags. This delivers perfect packs that meet the most demanding requirements: high-impact retail packaging for various food products such as pizza, frozen food products in boxes, sausages, egg trays, meat, fish and poultry products or others.

An ingenious motion control system - that has SIEMENS® SIMOTION® and servo controlled drives for all product relevant mechanism allow packaging with continuous product flow. The smooth product transport through the machine minimises slippages of stacked products and problems with slightly unstable collations of products. The UNIVERSA 500 SERVO is equipped with the uncomplicated product infeed from our highly successful UNIVERSA 400. Randomly spaced products of different lengths can be wrapped. The integration of the machine into a production line is straightforward. The UNIVERSA 500 SERVO incorporates also the features of the UNIVERSA 400 that provide an almost effortless product changeover with only a few adjustments.



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Verpackungsmaschinen

Results count.

## Facts, data, figures

### Technical Data

### Universa 500 SERVO-FS

product rate depends on product and film:	120 packs per minute
width of cross seal bar:	550 mm
max. clearance in height of sealing frame:	200 mm
min. product length:	80 mm
film:	centre-folded film, approx. 12 - 80 micron
film cradle:	close to floor for easy film reel loading
outside diameter of film reel:	max. 400 mm
width of film reel:	max. 600 mm
speed of transport conveyor, variable:	10 – 40 m/min.
sealing system:	permanently heated seal bar with exchangeable sealing ledge, with absolutely inodorous operation, temperature regulation and survey by PLC
operator interface:	Touchpanel SIEMENS TP 277
programmable logic controller (PLC):	SIMOTION® from SIEMENS®
power supply:	400 volts, 50 Hz, 3-phase, with protective earth conductor
rated capacity:	5.0 kVA
nominal current (at 400 V):	7.3 amps

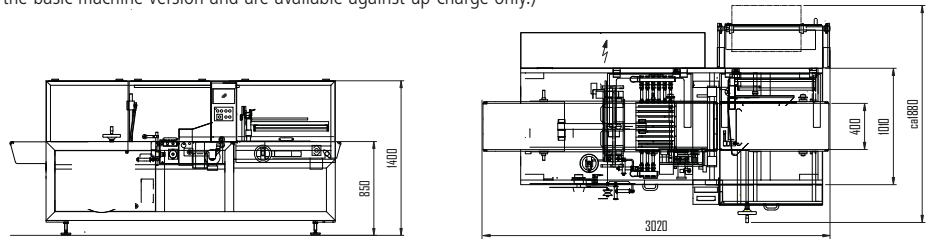
film and product transport by vacuum transport belt to the travelling cross seal unit  
 machine controlled with measure values, not time values. This makes product or speed changes fast and simple.  
 welded steel tube frame for highest stability  
 permanently heated seal bar with exchangeable sealing ledge, available in different profiles to produce excellent sealing seams depending on product and film  
 operator guidance and error diagnostic by colour Touchpanel (available languages: German, English, French – other languages upon request against up-charge)  
 packed products on the outfeed belt are moved forward through the tunnel when machine stops

### Options at extra cost:

perforating device with needle roller, additional rows of needle  
 integration of feeding systems (e. g. transport conveyor) in PLC and product data memory  
 wheel/knife –combination (patent pending – 10224360.3)  
 free rotating wear free counter seal bar for films without PP content (registered design)  
 wheel/knife –combination with separate cold-knife  
 polycord infeed, in stainless steel, product detection horizontal only  
 infeed conveyor extended by approx. 1000 mm for operator friendly product presentation  
 narrow infeed belt, approx. 200 mm wide  
 tear-open perforation by cutting wheel for easy opening of packages  
 integrated modem (Europe / world)  
 Ethernet-Interface (hardware), e.g. for connection to production server  
 electromotorical format change-over (width and height) data according to product data memory

### Machine dimensions (approx. in mm):

(This drawing may show options which are not included in the basic machine version and are available against up-charge only.)



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 Verpackungsmaschinen

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