

**DO YOU USE  
TOO MUCH  
FILM IN YOUR  
PACKAGING?**

**ARE YOU  
CONSERVING  
RESOURCES?**

**AND MINIMI-  
SING YOUR  
IMPACT ON THE  
ENVIRONMENT?**

## OUR SOLUTION

**PACKAGING  
MACHINES THAT  
BENEFIT THE  
ENVIRONMENT  
AND YOUR  
BUDGET**

**DELIVERING  
FILM SAVINGS  
OF APPROX.  
15% FOR  
EXAMPLE**

**ALL WITH A  
HUGO BECK  
SERVO X**

- Hugo Beck's servo X film packaging machines stand out through their continuous packaging process without stop-and-go, meaning there is no down time when sealing. Through highly precise synchronisation of the transverse sealing unit with each product, gaps are minimised. This also ensures high volume production outputs, as well as delivering an extremely close-fitting, precise and film-efficient packaging solution.
- A servo X with a top or bottom overlap instead of side or bottom cut seal also prevents additional film trim – saving even more film.
- As less film needs to be shrunk, this ensures a better packaging finish and reduces the energy consumption through the shrink tunnel.

## THE BENEFITS

- Film savings of approx. 15% on average, with even greater savings on long products
- Delivering an unrivalled and outstanding finish for the film packaging when compared to systems where the side sealing unit is arranged after the transverse sealing unit
- A servo X with overlapping seal ensures even higher machine uptime since there is no need to remove and dispose of any film trim strip thereby avoiding unnecessary machine stoppages

## EXAMPLE CALCULATION\*: FILM CONSUMPTION BY MACHINE TYPE

product length in mm	300
product width in mm	210
product height in mm	50
film price per m <sup>2</sup> in € (0,06 - 0,10)	0,08

hourly production rate	3000
production hours per day	13
production days per year	300
annual production in pcs. AP	11700000

approx. pricing 2018 for flat film	
Mopack MO1 19 µm	0,06 €
Cryovac CT 14 µm	0,10 €

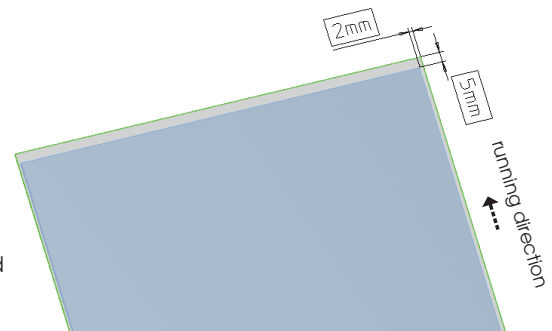
Calculation	flexo X		servo X cut sealing		servo X overlap sealing	
bag length per pack (in mm) BL	(L+H+40)	390	(L+H+20)	370	(L+H+20)	370
film width (in mm) WHF	(W+H+80)	340	(W+H+50)	310	(W+H+25)	285
flat film consumption in mm <sup>2</sup> per pack	(BL*WHF*2)	265200	(BL*WHF*2)	229400	(BL*WHF*2)	210900
flat film consumption in m <sup>2</sup> per pack FC/P	(/1000000)	0,2652	(/1000000)	0,2294	(/1000000)	0,2109
annual flat film consumption in m <sup>2</sup> FC/Y	(FC/P*AP)	3102840	(FC/P*AP)	2683980	(FC/P*AP)	2467530
<b>annual film costs in €</b>	(FC/Y*price)	<b>248227,2</b>	(FC/Y*price)	<b>214718,4</b>	(FC/Y*price)	<b>197402,4</b>
<b>Savings per year vs flexo X</b>		<b>33.508,80 €</b>		<b>50.824,80 €</b>		

\* Product example magazines/writing pads in stacks, moderate production output per hour/day

- In the example calculation, the initially higher costs for the purchase of a continuous servo X film packaging machine compared to an intermittent flexo X by Hugo Beck are recuperated in approx. 1.5 to 2 years through the significant film savings – where average costs of € 50.000 (flexo X), € 110.000 (servo X cut sealing) and € 140.000 (servo X overlapping) are assumed.
- When packaging long and narrow products (whether shrink pack or poly bag), the annual film saving increases even further.
- In applications where there is a higher cycle output than in the example calculation and, for example, a three-shift operation, the annual film saving also increases to a considerable extent.
- One highly utilised servo X packaging machine can provide additional savings in terms of manpower, maintenance, energy costs, space requirement etc. when compared for example to two flexo X machines.

### Film saving packaging example:

Reducing excess film on a magazine, packaged with a Hugo Beck servo X at an output of 8000-10.000 cycles/hour, not shrunk



### Hugo Beck Maschinenbau GmbH & Co. KG

Daimlerstrasse 26 – 32, 72581 Dettingen/Erms, Germany  
 Tel.: +49 7123 7208-0, Fax: +49 7123 87268, info@hugobeck.de  
 www.hugobeck.com

**HUGO**  
**BECK**  
 We package your world