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**NEW!**  
**NEW DESIGN**  
PLUS A  
VERSION WITH  
PRINTER

PATIENT SAFETY 4.0

**hd 650 D/DE/DC EcoPak**

# hd 650 D/DE/DC

hako

MICROPROCESSOR-CONTROLLED BAND SEALERS  
FOR THE PACKAGING OF SEALABLE POUCHES  
AND REELS (SBS)

## hd 650 D/DE/DC EcoPak

The EcoPak generation is our new premium economy class for the professional packaging of medical instruments in sealable pouches and reels. The sealers offer ideal sealing performance with high capacity at the same time and meet all safety standards.

The pouches and reels to be sealed are fed into the device via the infeed plate on the left, and then the pouches are sealed continuously.

	hd 650 D	hd 650 DE	hd 650 DC
maintenance free	x	x	x
new controller	x	x	
stand-by function		x	x
integrated printer			x
computer interface			x

**NEW!**

**3 VERSIONS  
WITH NEW  
FEATURES**



hd 650 D/DE



## FLEXIBILITY.

The hd 650 EcoPak series is suitable for packaging sealable paper bags (EN ISO 11607-1/ EN 868-4) as well as sealable pouches and reels (EN ISO 11607-1/EN 868-5).

## OPERATION.

The 650 series is not only easy to operate via its intuitive temperature control, but also easy to clean through its new color coated surface. The EcoPak is almost maintenance free.

## SAFETY.

Exact temperature control and constant contact pressure and sealing speed guarantee reproducible sealing results. The device switches off automatically if the sealing temperature is out of tolerance ( $\pm 5^{\circ}\text{C}$  according to DIN 58953-7).

## EFFICIENCY.

With the new 650 series, high sealing output can be achieved thanks to the band sealing process of 10 m/min (393 inch/min). The DE and DC models also have an automatic start and standby function.

## SUSTAINABILITY.

In addition to the new design, the new concept of the legendary hd 650 series places great emphasis on sustainability. With a power consumption of only 160 watts<sup>1</sup> the sealers are a contemporary companion in the daily packaging routine.

## hd 650 DC – INTEGRATED PRINTER.

The model hd 650 DC is equipped with an integrated printer, so that data such as e. g. name or ID of wrapper, expiry/sterilization date, LOT number, etc., can directly be printed on the porous part of the material (outside the heat seal line).

<sup>1</sup> May vary during the heat-up phase.

## hd 650 D/DE

## hd 650 DC (with printer)

### SEALING MATERIALS

	hd 650 D/DE	hd 650 DC (with printer)
Sealable paper bags according to EN ISO 11607-1/EN 868-4	x	x
Sealable pouches and reels according to EN ISO 11607-1/EN 868-5 made of film and paper according to EN 868-3	x	x
Sealable pouches and reels according to ISO EN 11607-1/EN 868-5 made of film and uncoated materials made of polyolefins according to EN 868-9 (e. g. Tyvek <sup>®1</sup> )	x <sup>2</sup>	x
Sealable pouches and reels according to ISO 11606-1/EN 868-5 made of PP fleece or PP nonwoven	x <sup>2</sup>	x <sup>2</sup>

### TECHNICAL DATA

	hd 650 D/DE	hd 650 DC (with printer)
CE marked	x	x
Microprocessor controlled	x	x
Display	LCD display	7-segment display
Sealing temperature	max. 220°C (428 °F) (monitored)	max. 220°C (428 °F) (monitored)
Sealing speed (dwell)	10 m/min (393 inch/min) fix	10 m/min (393 inch/min) fix
Contact pressure	fix	fix
Switch-off tolerance +/- 5°C (DIN 58953-7)	x	x
Seal distance from the edge	0-35 mm (0-1.4 inch)	0-35 mm (0-1.4 inch)
Seal seam width	12 mm (0.5 inch)	12 mm (0.5 inch)
Sealing system	ribbed	flat (with SealPeak)
Automatic start/standby	hd 650 DE	x
Printer		x
Computer interface (RS 232)		x
Mains connection	230 V, 50/60 Hz / 115 V, 50/60 Hz	230 V, 50/60 Hz / 115 V, 50/60 Hz
Power consumption	160 W <sup>3</sup>	160 W <sup>3</sup>
Dimensions W x D x H	465 x 255 x 135 mm (22.0 x 10.2 x 6.3 inch)	560 x 255 x 135 mm (22.0 x 10.2 x 6.3 inch)
Weight	15 kg (33 lb)	16 kg (35 lb)
Housing	powder-coated	powder-coated

### ACCESSORIES

	hd 650 D/DE	hd 650 DC (with printer)
Tray hd 650 T (630 x 280 x 60 mm / 24.8 x 11.0 x 2.4 inch)	x	x
Roll conveyor hm 500 RT (830 x 280 x 60 mm / 32.7 x 11.0 x 2.4 inch)	x	x

<sup>1</sup> Tyvek<sup>®</sup> is a registered trademark of E.I. du Pont de Nemours.

<sup>2</sup> Approval and/or tests necessary.

<sup>3</sup> May vary during the heat-up phase.

Technical modifications reserved

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**hawo** GmbH  
Obere Au 2-4  
74847 Obrigheim  
Germany  
T +49 (0) 6261/9770-0  
F +49 (0) 6261/9770-69  
info@hawo.com  
www.hawo.com

*hawo* USA:  
hawo  
321 North Clark Street  
Suite 1425  
Chicago IL 60654  
T +1 312 585 8329  
F +1 312 644 0738  
info@hawo-usa.com  
www.hawo-usa.com

*hawo* ASIA:  
hawo  
25 International Business Park  
#03-105 German Centre  
Singapore 609916  
T +65 6433 5339  
F +65 6433 5359  
info@hawo-asia.com  
www.hawo-asia.com

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