hawo

PATIENT SAFETY 4.0
hm 950 NanoPak

V.3.3

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VALIDATABLE ROTARY SEALER WITH TOUCH SCREEN FOR PACKAGING OF SEALABLE POUCHES AND REELS.

hm 950 DC-V /DC-VI NanoPak

This highend heat sealer surpasses all its predecessors, offering smart operation, comprehensive digitisation, networkability and sustainability, reflecting the spirit of industry 4.0. The design of the NanoPak is based on the award-winning design of hawo's Generation Easy series. We have designed those sealers to meet the highest standards, in terms of professionalism, aesthetics and solidity, as required in surgeries and RUMED's (CSSD's / SPD's) in hospitals while always conforming to the strictest safety guidelines.

NEW

SOFTWARE 4.0
the most user-friendly and intuitive version

On Youtube you will find detailed tutorials for each device function (e.g. user input)

The NanoPak is available in stainless steel, as well as the colours diamond black, white and original orange. The colour 'original orange' dates back to the colour of the first hawo sealing devices issued in the first years after the company was founded. On request the NanoPak can be provided in special colours or foiling.

GreenTek – SUSTAINABILITY.

Environmental protection and sustainability are not ends in themselves. With NanoPak we are consistently focusing on resource-efficient design with our innovative sealing technology, that only needs a fraction of the energy required by similar devices. The heating reaches the operating temperature in record time and works with a highly-efficient 24 volt system reducing power consumption to a minimum. The stand-by function and automatic shut-down, when not in use, complete the hawo's Green-Tek concept. We offer all this without compromising the quality of the sealing results.

ProTrack – PROCESS TRACKING.

NEW: ProTrack is an optional technology for holistic monitoring of the sealing process over the entire sealing seam length. A technology for highest demands. For each sealing seam the temperature, contact pressure and speed are monitored and recorded on an USB stick. The innovative technology can record up to 1,000 measured values within one seam (additional USB dongle required).

Self configurable main screen

**Simple catalogue input with internal
on-screen or external keyboard**

**User friendly and intuitive applications
(AppCtrl)**

AppCtrl – TOUCH SCREEN.

A 4,3 inch touch screen and an intelligent controller togeth-
er with the AppCtrl user applications allowing to call up
instrument and programming functions make operation and
validation child's play. The main screen can be adapted
individually by the user according to his needs. The newest
generation (from 2020) is equipped with an HDMI port and
can be connected to any commercially available monitor or
TV via an HDMI cable. Via the optional hawo scanner data
can be scanned (eg. Article numbers, LOT)

DocLink – COMMUNICATION.

Due to the innovative DocLink communication unit NanoPak
can easily be linked to batch documentation and tracking
systems. DocLink has four USB A and one RS 232 inter-
faces. An additional Ethernet interface makes NanoPak
network-compatible.

TraceLog – DIGITAL LOGBOOK.

NEW: The NanoPak is equipped with the new hawo Trace-
Log technology. All actions are recorded and can be viewed
if required. If the DataMatic function is activated via a con-
nected USB stick, each action is automatically copied and
can then be viewed in a spreadsheet program (e.g. Excel).

Vali**Up** – VALIDATION.

NanoPak has been fitted with the new system-integrated
function to determine the optimum sealing temperature
during process validation (ValiUp). This innovative tool
complies exactly with the pre-set process of the interna-
tional Guidance on the application of ISO 11607-1 and
ISO 11607-2 (CEN ISO/TS 16775[1]).

[1] Types of packaging for the end-packaging of sterilised medical products –
Guide manual for the application of ISO11607-1 and ISO 11607-2.

◇ Font**Matic** – PRINTER.

NanoPak's new printer is capable of not only printing the required text information, but it can also print bar codes. Make your selection via the print application. The FontMatic technology automatically adjusts the font size to match the width of the packaging. hm 950 DC-VI version comes with an additional new printing unit, that is able to print international language characters (e.g. Chinese) and logos.

⧖ Seal**Peak** – SEAL STRENGTH.

For the sealing seam, the proven SealPeak technology is used. hawo SealPeak sealing seams are 12 mm (0,5 inch) wide flat seams with a so called barrier of extremely high solidity at their centre, the SealPeak. The seal strength increases steadily from the edges towards the SealPeak. The advantage of these soft edges is that the instruments cannot break through the edges, but gently pierce them and are then caught by the SealPeak at the centre. Furthermore SealPeak sealing seams have outstanding peel properties and do not fray, even if the peel direction is disregarded by the user. Obviously NanoPak is suitable for the sealing of all known sealable, pre-fabricated sterile barrier systems, uncoated Tyvek®[2], as well as polyolefine packaging.

InkTest PRO | PRO HDPE | PRO PLUS

Using the innovative test systems InkTest PRO, InkTest PRO HDPE (red, for Tyvek®[2]/ plastic materials) or the new InkTest PRO PLUS (black, for other polyolefine materials) as an easy and cost-efficient way to comply with the required routine checks of the RKI recommendation. InkTest PRO is ideal for checking gusseted materials.

Seal Check MED | HPDE | PP

The Seal Check indicator makes defective areas of the sealing seam visible on the dark indicator strip. hawo Seal Check is not suitable for use with gusseted films. The Seal Check is available for transparent films made of paper/ plastic (Seal Check med), for Tyvek®[2]/plastic (Seal Check HDPE) and for polyolefine materials (Seal Check PP).

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	hm 950 DC-V/ DC-VI
SEALING MATERIALS	
Sealable paper pouches according to EN ISO 11607-1/EN 868-4	x (suitable for gusseted materials)
Sealable pouches and reels according to EN ISO 11607-1/EN 868-5 made of film and paper according to EN 868-3	x (suitable for gusseted materials)
Sealable pouches and reels according to ISO EN 11607-1/EN 868-5 made of film and uncoated materials made of polyolefine according to EN 868-9 (e.g. Tyvek[1])	x
Sealable pouches and reels according to ISO 11606-1/ EN 868-5 made of PP fleece or PP nonwoven	x[2]
Peelable pouches PA/PE	x[2]
TECHNICAL DATA	
Type of device	Rotary sealer
Validatable process	x
Microprocessor controlled	x
Display	4.3" TFT graphic colour
Input keyboard	touchscreen (external keyboard / mouse optional)
Printout[3]	hm 950 DC-V: 9-dot matrix, single lined hm 950 DC-VI: 24-dot matrix, single lined, for special characters
RS 232 connection	x
USB A connection	x (4x)
Ethernet connection	x
Connection for label printer	x
NEW: HDMI connection	x
Sealing speed (dwell)	5-13 m/min (197-512 inch/min) (monitored)
Sealing temperature	max. 210 °C (410 °F) (monitored)
Contact pressure	80-120 N (monitored)
Switch-off tolerance +/- 5°C (DIN 58953-7)	x
Seal distance from the material edge	0-35 mm (0-1.4 inch)
Seal seam width[4]	12 mm ± 1 mm (0.5 inch ± 0.04 inch)
Sealing system	SealPeak (hawoflex)
Mains connection	100-240 V, 50/60 Hz
Power consumption	90 W[5]
Dimensions W x D x H	565 x 260 x 145 mm (22.2 x 10.2 x 5.7 inch)
Weight	16 kg (35 lb)
Colour selection	stainless steel (standard), diamond black, white, original orange, special colour on request
ACCESSORIES	
hawo PC-documentation software ProDoc	x
USB 2D-Scanner	x
Tray mold table hm 950 T	x
USB PC keyboard	x
Label printer	x

[1] Tyvek® is a registered trademark of E.I. du Pont de Nemours.
[2] Approval and/or tests necessary.
[3] It is not possible to print on aluminium laminate film and peelable pouches PA/PE.
[4] Other sizes optional.
[5] The values may vary during the heat-up phase.

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