



hm 3010/3020 DC-V/DC-VI

Microprocessor-controlled rotary sealer with touch screen
for sterile goods packaging
(validatable process in accordance with ISO 11607)

hawo

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Simple compliance with ISO 11607.

Only those processes, which can be validated in accordance with ISO 11607 are approved for sealing sterile barrier systems. The hm 3010/3020 DC-V and hm 3010 DC-VI packaging devices achieve appropriately reproducible results, i.e. constant results at all times, as a result of installation, operational and performance qualifications.

Furthermore, the standard requires continuous monitoring of the critical process parameters (temperature and contact pressure). In the event of deviations, a packaging device must automatically switch itself off and indicate the problem. A graph shown directly on the display ensures that the process is continuously documented by the hm 3010/3020 DC-V and hm 3010 DC-VI devices.

For all of the information, which must be printed on the packaging (sterile barrier system), the devices have a microprocessor-controlled printer, which is available optionally either with a one-line (hm 3010) or two-line (hm 3020) print-out.

hm 3010/3020 DC-V and hm 3010 DC-VI are suitable for sterile barrier systems in accordance with ISO 11607/EN 868, Tyvek 1059B, 1073B and 2FS™.

The touch screen of the hm 3010/3020 DC-V and hm 3010 DC-VI makes menu navigation and data input particularly simple; information can be quickly obtained via the color screen.



hm 3010 DC-V/DC-VI
with roll conveyor hm 500 RT



Validatable process in accordance with ISO 11607

- Installation Qualification: The hm 3010/3020 DC-V/DC-VI series sealing devices are in accordance with ISO 11607. That means: the critical parameters are able to be documented and recorded. Discrepancies in the parameters are to be indicated straight away. Accordingly it has to be assured that the users are trained.
- Operational Qualification: Temperature and pressure have to be defined by the user in accordance with the material used. The parameters can be adjusted and adapted to the material individually with the hm 3010/3020 DC-V/DC-VI series devices.
- Performance Qualification: The resistance and integrity of the sealed seam have to be externally tested (e.g. in accordance with EN 868 paragraph D). The devices of the hm 3010/3020 DC-V/DC-VI series can be connected directly to the testing device ht 150 SCD.
- Process Documentation: Possibility of mobile monitoring of the sealing parameters through a pocket PC and the hawo software hs 160 PTGo.
- Seal Check Function: Print-out of the sealing parameters on the back of the packaging.
- Graphical representation of the sealing parameters (temperature and contact pressure) to ensure 24 hour process control for 5 days. Data archiving for 5 days.

Symbols in accordance with EN 980 for marking of packaging (for all devices)

- Product name
- Name or identification code of packing person. Choice of up to 10 preset items of personal data, password protected ID
- Batch number
- Use-by date (shelf life of sterile goods) with automatic update
- Packaging and sterilisation date

Others

- Temperature and contact pressure
- CE mark with subsequent text
- Piece counter
- Text memory for 2500 alphanumeric texts

Additional symbols for the device hm 3010 DC-VI



- “Sterile” symbol with the option of sterilization type: steam or dry heat, EO, irradiation



- symbol “Refer to user instructions”



- “Not for reuse”

Microprocessor-controlled printing unit

- Printing of labels and texts also as bar-code (Code 39, Code 128, Code 2/5-I)
- User definable data printing sequence
- Choice of five presettable print sequences
- Two-line printing (only with hm 3020)
- Setting of print start in mm from edge of packaging
- Variable type width and character spacing
- Print image rotatable 180° (inverted)
- Printer can be switched off
- Simple ribbon replacement from front of unit



Bar code printer hm 2000 C

Functions

- Menu-driven operation and data input via color touch screen
- Serial RS 232 interface for connection to a PC and external printer hm 2000 C
- Connection to all available batch documentation systems
- Connection to hawo label printer hm 2000 C
- Connection of a bar code scanner for data entry (e.g. catalogue entries, personnel numbers, etc.)
- Programming independent of language
- Elapsed hour meter
- Clock and calendar function
- Programmable piece counter, with option of counting up or down, with a signal when preset value is reached (decreasing counter)
- Data storage and date extender even when device is switched off
- Selectable key lock
- Simple input and updating of data
- Stand-by function: the device goes into energy-saving stand-by mode after a predefined time (10-120 min)

Service

- Automatic maintenance check: device notifies automatically if maintenance is necessary
- Quality management system in accordance with ISO 9001:2000
- Calibration and validation service



Simple and mobile process validation with the testing device ht 150 SCD

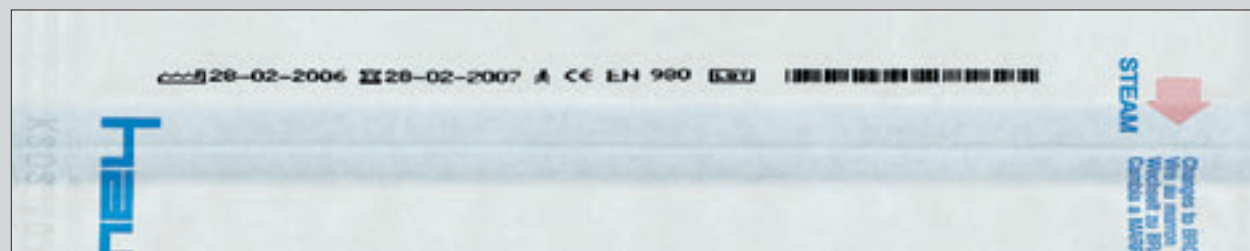
Technical data		hm 3010 DC-V/DC-VI	hm 3020 DC-V
Printing unit		1-line	2-line
Printing start margin	x	continuously variable in mm	continuously variable in mm
Sealing speed		10 m/min.	10 m/min.
Sealing margin infinitely variable	y	5 – 30 mm (0.2 – 1.2 in)	5 – 30 mm (0.2 – 1.2 in)
Sealing seam hawoflex sealing system	s	12 mm (0.5 in)	12 mm (0.5 in)
Safety distance sealing seam to packed goods (DIN 58593-7)	A	> 30 mm (1.2 in)	> 30 mm (1.2 in)
Temperature control		Microprocessor	Microprocessor
Sealing temperature		80 – 220°C 176 – 428°F	80 – 220°C 176 – 428°F
Temperature tolerance		± 2 %	± 2 %
Power		500 VA	500 VA
Mains connection		230 V / 50 Hz 115 V / 60 Hz	230 V / 50 Hz 115 V / 60 Hz
Dimensions (w x d x h)		620 x 260 x 250 mm (24.4 x 10.2 x 9.8 in)	740 x 260 x 250 mm (29.1 x 10.2 x 9.8 in)
Weight		23 kg (51 lb)	26 kg (57.2 lb)

Accessories

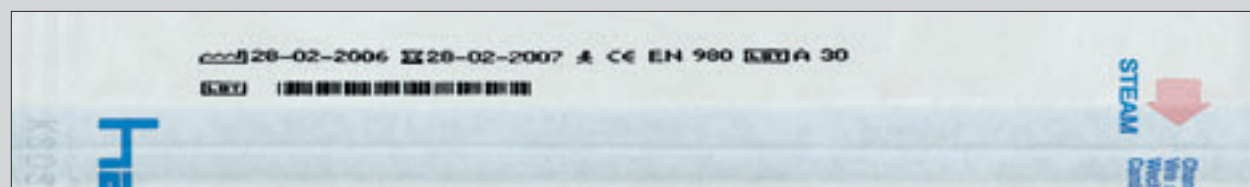
Roll conveyor	hm 500 RT	830 x 280 x 60 mm (32.7 x 11.0 x 2.4 in)	830 x 280 x 60 mm (32.7 x 11.0 x 2.4 in)
Storage tray	hm 1000 T	850 x 280 x 60 mm (33.5 x 11.0 x 2.4 in)	850 x 280 x 60 mm (33.5 x 11.0 x 2.4 in)
Bar code printer	hm 2000 C	190 x 280 x 160 mm (7.48 x 11.02 x 6.3 in)	190 x 280 x 160 mm (7.48 x 11.02 x 6.3 in)

— x —

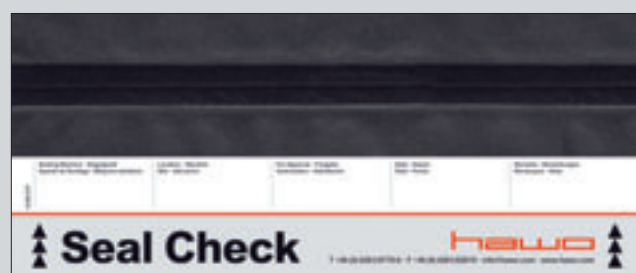
y
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hm 3010 DC-V/DC-VI: sterile goods bag with 1-line imprint and bar code

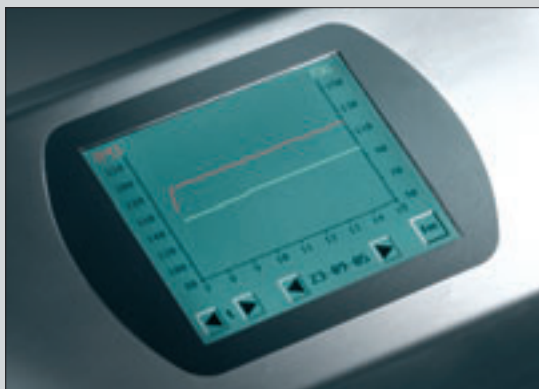


hm 3020 DC-V: sterile goods bag with 2-line imprint and bar code



Seal Check: The critical process parameter temperature and pressure are optimal; discrepancies are indicated by white the production of white bubbles

hawa



Continuous process checking (monitoring) and archiving of data over five days



Clear touch screen with direct input function for print dates



Integral keypad for simple data-input



Symbols in compliance with EN 980 for marking the packaging



Pre-programming of three selectable temperatures for different packaging types (e.g. packaging according to EN 868 and Tyvek)



hawomed

Sealing devices and accessories for sterile goods packaging in clinics and the medical industry



hawotest

Testing systems for the inspection and validation (Performance Qualification) of heat sealing processes



hawodent

Sealing devices and accessories for sterile goods packaging in dentists' and the doctors' surgeries



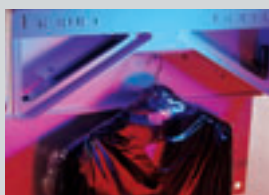
hawoplast

Plastic film welding devices for industrial packaging



hawovac

Vacuum impulse sealers for industrial packaging



hawopack

Packaging machines for clothes and linen for laundries and dry cleaners

Subject to technical alterations

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