

## hm 2010 / 2020 DC

Microprocessor-controlled rotary sealer for medical packaging (validatable process in accordance with ISO 11607)



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Microprocessor-controlled rotary sealer for medical packaging (validatable process in accordance with ISO 11607) – now with 4-line display and up to 2,500 catalogue entries The sterilization of medical instruments begins with the packaging. That is to say that the packaging, and therefore also the validation of the packaging process, is crucial for guaranteeing sterility up to the point of use and for meeting quality standards.

The ISO 11607 standard demands explicitly reproducible processes in order to achieve optimum and constant results at all times during Operation Qualification. The critical process parameters must be monitored continuously. If there is any deviation, the device must immediately switch itself off and indicate the problem. The sealing of a sterile package is only possible with a sealing device that can be validated in accordance with ISO 11607. For the packaging of sterile goods in clinics and laboratories the hm 2010/2020 DC is the ideal sealer, satisfying the highest quality and safety standards:

- Microprocessor-controlled printing unit
- Suitable for sterile packaging\* in accordance with ISO 11607/EN 868 and Tyvek®





# Microprocessor-controlled printing unit

Printing above the sealed seam during the sealing process:

- Sterilization and use by date with automatic updating
- You can choose the order of the possible inscriptions as you please
- Batch number
- Personnel number
- Symbols as per EN 980
- CE mark with subsequent text
- 2-line imprint (only hm 2020)
- Print start from edge adjustable in mm
- Print image can be rotated 180° (inverted)
- Variable font width and character spacing
- Text and catalogue memory (2,500 entries)
- Ribbon replacement from the front
- Internal printer can be switched off
- Inscriptions can be printed as bar code (code 39 and 128)

## Validatable process in accordance with ISO 11607

- Installation Qualification: Continuous monitoring of the temperature, contact pressure and dwell speed parameters defined during Installation Qualification
- Operation Qualification: Automatic cut-out in event of deviation from defined parameter settings during Operation Qualification
- Performance Qualification: Direct connection to the seal check device ht 150 SCD for Performance Qualification
- 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 packet



Pocket PC and hs 160 PTGo: mobile monitoring of the validation parameters

### Functions

- Menu-driven device operation via PC keyboard (keyboard can be taken off)
- Serial RS 232 interface to PC connection
- Serial RS 232 interface for external printer
- Connection to all available batch documentation systems
- Digital display (4-lines)
- Connection to hawo label printer hm 2000 C
- Connection of a bar code scanner for data (e.g. catalogue entries, personnel numbers, etc.)
- Programmable in several languages: standard texts in German, English, French, Italian and Spanish
- Batch counter can be reset
- Elapsed hour meter
- Clock and calendar function
- Data storage and date extender even when device is switched off
- 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 informs automatically if a maintenance is necessary
- Quality management system according to ISO 9001:2000
- Validation service



Bar code printer hm 2000 C

Technical data			hm 2010 DC	hm 2020 DC
Printing unit			1-line	2-line
Printing start margin		Х	continuously variable in mm	continuously variable in mm
Sealing speed			10 m/min.	10 m/min.
Sealing margin infinitely variab	le	У	5 – 30 mm (0.2 – 1.2 in)	5 – 30 mm (0.2 – 1.2 in)
Sealing seam hawoflex sealing system			12 mm (0.5 in)	12 mm (0.5 in)
Safety distance sealing seam to packed goods (DIN 58593-7)			> 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			
x				

STEAL hm 2010 DC: sterile goods bag with 1-line imprint and bar code



hm 2020 DC: sterile goods bag with 2-line imprint and bar code



Seal Check®: optimum sealing pressure, temperature and run-through speed





## Workstation

## Working places for medical packaging



### hm 750 WST

The hm 750 WST workstation comprises a mobile basic element with an integrated film roll holder, cutting device, trays, containers for sterile goods and sterile packets as well as a large work table.

Mobile table			hm 750 TF	
Roll holder w	hm 750 RS			
Trays		(w x d x h)		
	2 items	270 x 570 x 270 mm	hm 500 K	
		(10.6 x 22.4 x 10.6 in)		
	5 items	150 x 230 x 125 mm	hm 200 K	
		(5.9 x 9.1 x 4.9 in)		
Holder for sterile goods containers				
	3 items	290 x 640 x 80 mm		
		(11.4 x 25.2 x 3.1 in)		
Holder for sterile goods packets				
	2 items	255 x 410 x 75 mm		
		(10.0 x 16.1 x 3.0 in)		
	2 items	205 x 320 x 75 mm		
		(8.1 x 12.6 x 3.0 in)		
Book ends	2 items	170 x 290 x 180 mm		
		(6.7 x 11.4 x 7.1 in)		
Overall dimensions		1500 x 800 x 1800 mr	n	
		(59.0 x 31.5 x 70.9 in)		
Total weight		105 kg		
0		(232 lb)		



#### ht 150 SCD

A medical package has to be closed with a sealing device. The sealing process has to be validatable according to ISO 11607. The process validation measures and documents the strength of the sealed seam. With the testing device ht 150 SCD you can run the process validation easily and anywhere.





#### hauomed

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





Testing systems for the validation of heat sealing processes



hawodent

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





Plastic film welding devices for industrial packaging





Vacuum impulse sealers for industrial packaging





Packaging machines for clothes and linen for laundries and dry cleaners

Subject to technical alterations

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