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**Sterile Packaging Systems**

- › Sterilization Packaging
  - › Sterilization Control
  - › Medical Sealing Systems
- 

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## Heat-Sealable Sterilization Reels

### View



### Benefits

- ▶ Reinforced film to avoid tearing during opening
- ▶ Superior barrier with 70gsm medical grade paper
- ▶ Clean and accurate indicator color change
- ▶ Tear, fiber-free opening and aseptic presentation
- ▶ Triple band seal for higher package integrity

### Description

pfm medical heat-sealable sterilization reels as a packaging solution for sterilization applications, ensure reliable protection of the medical device against contamination with bacteria from the time of sterilization until use of the sterile medical device.

Flat and gusseted type and wide range of standard sizes allow optimum choice of correct sized packaging of each item.

pfm medical sterilization reels are constructed from transparent PET/PP multi-layer copolymer film and medical grade paper.

Water based, non-toxic process indicators for steam, ethylene oxide and formaldehyde sterilization complying with ISO 11140-1 are applied on the paper surface and help to differentiate between processed and unprocessed packages.

### Ordering Information

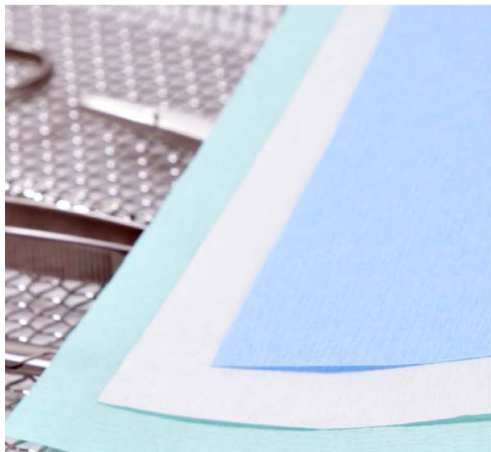
REF	Product Description	Dimension	Unit/Box
FL05200	Sterilization Flat Reel	50mm x 200m	12 pcs
FL75200	Sterilization Flat Reel	75mm x 200m	8 pcs
FL10200	Sterilization Flat Reel	100mm x 200m	6 pcs
FL15200	Sterilization Flat Reel	150mm x 200m	4 pcs
FL20200	Sterilization Flat Reel	200mm x 200m	4 pcs
FL25200	Sterilization Flat Reel	250mm x 200m	2 pcs
FL30200	Sterilization Flat Reel	300mm x 200m	2 pcs
FL35200	Sterilization Flat Reel	350mm x 200m	2 pcs
FL40200	Sterilization Flat Reel	400mm x 200m	2 pcs
FL50200	Sterilization Flat Reel	500mm x 200m	2 pcs

### Ordering Information

REF	Product Description	Dimension	Unit/Box
GS75100	Sterilization Gusseted Reel	75mm x 100m	8 pcs
GS10100	Sterilization Gusseted Reel	100mm x 100m	6 pcs
GS15100	Sterilization Gusseted Reel	150mm x 100m	4 pcs
GS20100	Sterilization Gusseted Reel	200mm x 100m	4 pcs
GS25100	Sterilization Gusseted Reel	250mm x 100m	2 pcs
GS30100	Sterilization Gusseted Reel	300mm x 100m	2 pcs
GS35100	Sterilization Gusseted Reel	350mm x 100m	2 pcs
GS40100	Sterilization Gusseted Reel	400mm x 100m	2 pcs

## Crepe Wrapping Paper

### View



### Description

pfm medical offers wide range of wraps for different purposes.

pfm medical crepe wrapping papers are made of 100% cellulose fibers and can be used as either inner or outer wrapping. Crepe wraps are suitable for steam, ethylene oxide, formaldehyde and irradiation sterilization methods and are a reliable solution for preventing cross contamination with bacteria.

Wrapping papers offered by pfm medical are in compliance with all international standards.

### Benefits

- ▶ Available in different sizes
- ▶ Available in different colors for outer and inner wrapping
- ▶ High bacterial filtration efficiency (BFE)
- ▶ Proven microbial barrier
- ▶ Suitable for steam, EO, FO and irradiation

### Ordering Information

REF	Product Description	Dimension	Unit/Box
WP3030	Crepe Wrapping Paper (Blue - Green)	300mm x 300mm	500 sheets
WP4040	Crepe Wrapping Paper (Blue - Green)	400mm x 400mm	500 sheets
WP4545	Crepe Wrapping Paper (Blue - Green)	450mm x 450mm	500 sheets
WP5050	Crepe Wrapping Paper (Blue - Green)	500mm x 500mm	500 sheets
WP6060	Crepe Wrapping Paper (Blue - Green)	600mm x 600mm	250 sheets
WP7575	Crepe Wrapping Paper (Blue - Green)	750mm x 750mm	250 sheets
WP9090	Crepe Wrapping Paper (Blue - Green)	900mm x 900mm	250 sheets
WP100100	Crepe Wrapping Paper (Blue - Green)	1000mm x 1000mm	250 sheets
WP120120	Crepe Wrapping Paper (Blue - Green)	1200mm x 1200mm	100 sheets



## Tyvek Sterilization Reels

### View



### Benefits

- ▶ Excellent microbial barrier properties
- ▶ Easy peel and aseptic presentation
- ▶ Wide sealing temperature window
- ▶ Easy seal with old sealing devices
- ▶ Clear and accurate color change

### Description

Tyvek is a rather unique material in the stable packaging classification. It is known for its outstanding strength, durability and tear resistance.

As well as industrial use for EO and Gamma sterilization, Tyvek is also used for hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) gas plasma sterilization at hospitals.

pfm medical Tyvek sterilization reels are constructed from transparent multi-layer PET/PE copolymer film and uncoated Tyvek web in compliance with EN 868-9.

Water based, non-toxic process indicator for hydrogen peroxide sterilization complying with ISO 11140-1 is applied on the Tyvek surface and helps to differentiate between processed and unprocessed packages.

### Ordering Information

REF	Product Description	Dimension	Unit/Box
TY0570	Tyvek Sterilization Flat Reel	50mm x 70m	12 pcs
TY7570	Tyvek Sterilization Flat Reel	75mm x 70m	8 pcs
TY1070	Tyvek Sterilization Flat Reel	100mm x 70m	6 pcs
TY1570	Tyvek Sterilization Flat Reel	150mm x 70m	4 pcs
TY2070	Tyvek Sterilization Flat Reel	200mm x 70m	4 pcs
TY2570	Tyvek Sterilization Flat Reel	250mm x 70m	2 pcs
TY3070	Tyvek Sterilization Flat Reel	300mm x 70m	2 pcs
TY3570	Tyvek Sterilization Flat Reel	350mm x 70m	2 pcs
TY4070	Tyvek Sterilization Flat Reel	400mm x 70m	2 pcs
TY5070	Tyvek Sterilization Flat Reel	500mm x 70m	2 pcs



## SMMS Wraps for h2o2 Sterilization

### View



### Benefits

- ▶ Superior bacterial protection
- ▶ Strong and durable
- ▶ Fluid repellent and resistant to moisture
- ▶ Memory free
- ▶ Good puncture and tearing resistance

### Description

pfm medical SMMS wrapping paper consists of four nonwoven polypropylene fabric layers and can be used either as inner or outer wrapping for medical devices and trays.

The spunbond layers (S) provide good filtration properties, tensile strength and are fluid repellent while the meltblown layers (M) ensure strong bacterial properties with very small porous size.

SMMS wraps as single or double wrapped are suitable for steam, ethylene oxide and hydrogen peroxide plasma sterilization methods.

The memory free feature before and after sterilization ensures good aseptic presentation.

### Ordering Information

REF	Product Description	Dimension	Unit/Box
SMSL4040	SMMS Wrapping Paper (45 gsm)	400mm x 400mm	500 sheets
SMSL4545	SMMS Wrapping Paper (45 gsm)	450mm x 450mm	500 sheets
SMSL5050	SMMS Wrapping Paper (45 gsm)	500mm x 500mm	500 sheets
SMSL6060	SMMS Wrapping Paper (45 gsm)	600mm x 600mm	250 sheets
SMSL7575	SMMS Wrapping Paper (45 gsm)	750mm x 750mm	250 sheets
SMSL9090	SMMS Wrapping Paper (45 gsm)	900mm x 900mm	250 sheets
SMSL100100	SMMS Wrapping Paper (45 gsm)	1000mm x 1000mm	250 sheets
SMSL120120	SMMS Wrapping Paper (45 gsm)	1200mm x 1200mm	100 sheets

### Ordering Information

REF	Product Description	Dimension	Unit/Box
SMSH4040	SMMS Wrapping Paper (60 gsm)	400mm x 400mm	500 sheets
SMSH4545	SMMS Wrapping Paper (60 gsm)	450mm x 450mm	500 sheets
SMSH5050	SMMS Wrapping Paper (60 gsm)	500mm x 500mm	500 sheets
SMSH6060	SMMS Wrapping Paper (60 gsm)	600mm x 600mm	250 sheets
SMSH7575	SMMS Wrapping Paper (60 gsm)	750mm x 750mm	250 sheets
SMSH9090	SMMS Wrapping Paper (60 gsm)	900mm x 900mm	250 sheets
SMSH100100	SMMS Wrapping Paper (60 gsm)	1000mm x 1000mm	250 sheets
SMSH120120	SMMS Wrapping Paper (60 gsm)	1200mm x 1200mm	100 sheets

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## Bowie & Dick Test Pack

### View



### Benefits

- ▶ Disposable, pre-assembled and ready to use
- ▶ Designed for STEAM sterilization at 134°C - 3,5 minutes
- ▶ Clean and accurate indicator color change
- ▶ Indicator sheet can be kept as a permanent record
- ▶ Validated for 4kg and 7kg sterilization load
- ▶ Manufactured in absence of lead or other heavy metals

### Ordering Information

REF	Product Description	Unit/Box
BD3090	Bowie & Dick Test Pack (4kg load)	48 pcs
BD4090	Bowie & Dick Test Pack (7kg load)	24 pcs

### Description

pfm medical Bowie & Dick Test Packs are pre-assembled, single use test packs designed to evaluate the performance of the air removal system of pre-vacuum assisted sterilizers in compliance with EN 285 and operating at 134°C and 3,5 minutes.

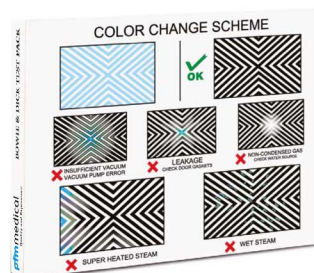
An indicator sheet printed with water based, non-toxic chemical indicator is placed in the center of each pack. The uniform color change of the indicator after steam sterilization indicates that all air was removed and replaced by steam.

The backside of the indicator sheet contains fields to be filled out and it can be kept as a permanent record for traceability purposes.

4kg Load Pack BD3090



Front

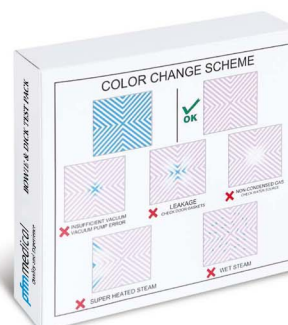


Back

7kg Load Pack BD4090



Front



Back



## Bowie & Dick Test Sheet

### View



### Description

Air leaks in the sterilization chamber threatens the sterilization safety. Daily use of pfm medical Bowie & Dick Test Sheets help to determine sterilizer malfunctions at an early stage.

pfm medical Bowie & Dick Test Sheets with DIN A4 dimension can be placed inside a pack made of dry towels according EN 285 standard. After steam sterilization at 134°C and 3,5 minutes, the reactive ink will show clear and accurate color change from blue to black. In case of sterilizer malfunction, the test sheet will show a non-uniform color development and possible failures can be interpreted easily by enclosed color change card.

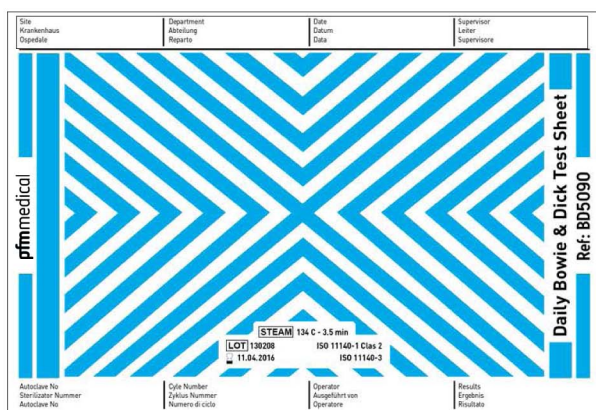
pfm medical Bowie & Dick Test Sheets conform to ISO 11140-1 and ISO 11140-3.

### Benefits

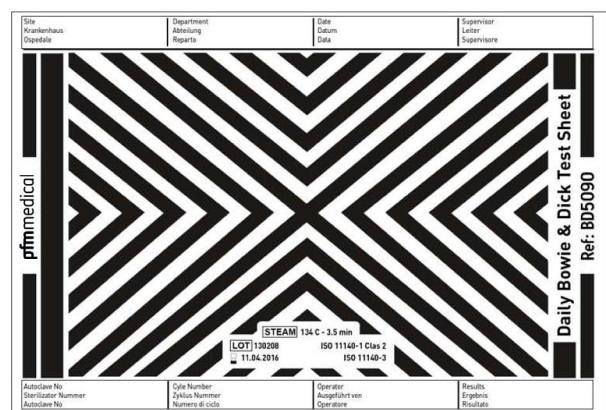
- ▶ DIN A4 size
- ▶ Designed for STEAM sterilization at 134°C - 3,5 minutes
- ▶ Water based, non-toxic chemical indicator comply with ISO 11140-1
- ▶ Clean and accurate indicator color change
- ▶ Test sheet can be kept as a permanent record
- ▶ Manufactured in absence of lead or other heavy metals

### Ordering Information

REF	Product Description	Dimension	Unit/Box
BD5090	Bowie & Dick Test Sheet	210mm x 297mm	300 pcs



Before Sterilization



After Sterilization

## Class 4 Multi-Variable Steam Indicator Strips

### View



### Benefits

- ▶ Dual strip design
- ▶ Designed for STEAM sterilization at 134°C - 3,5 minutes
- ▶ Water based, non-toxic chemical indicator comply to ISO 11140-1
- ▶ Clean and accurate color change from blue to black

### Ordering Information

REF	Product Description	Unit/Package	Unit/Box
IS2401	Class 4 Multi-Variable Steam Indicator Strips	250 dual strips	48 packages

## Class 6 Emulating Steam Indicator

### View



### Benefits

- ▶ Single strip design
- ▶ Designed for STEAM sterilization at 134°C - 3,5 minutes and 121°C - 15 minutes
- ▶ Water based, non-toxic chemical indicator comply to ISO 11140-1
- ▶ Clean and accurate color change from blue to lilac

### Ordering Information

REF	Product Description	Unit/Package	Unit/Box
IS2601	Class 6 Emulating Steam Indicator Strips	250 strips	48 packages

### Description

pfm medical Class 4 Multi-Variable Steam indicator strips are designed to be used in steam sterilizers operating at 134°C and 3,5 minutes. The indicator strips can be used in every pack and will provide assurance of steam penetration into the packs.

The water based and non-toxic chemical indicator in compliance with ISO 11140-1 will show a clear and accurate color change from blue to black after successful steam sterilization.

pfm medical indicator strips are cost-effective and can be divided into two separate pieces for economical use.

Indicator strips are manufactured in absence of lead or any other heavy metals.

### Description

pfm medical Class 6 Emulating Steam indicator strips are designed to be used in steam sterilizers operating at 121°C - 15 minutes and 134°C - 3,5 minutes. The cycle verification indicators can be used in every pack and will provide assurance of steam penetration into the packs and presence of all critical parameters of steam sterilization cycle.

The water based and non-toxic chemical indicator in compliance with ISO 11140-1 will show a clear and accurate color change from blue to lilac after successful steam sterilization.

Indicator strips are manufactured in absence of lead or any other heavy metal.



## Class 5 Ethylene Oxide (EO) Indicator Strips

### View



### Benefits

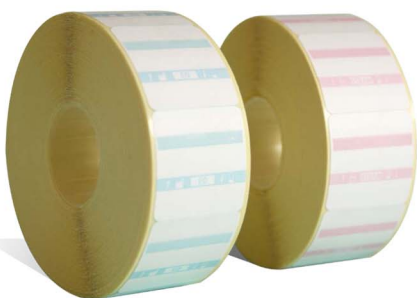
- ▶ Dual strip design
- ▶ Designed for EO sterilization
- ▶ Water based, non-toxic chemical indicator comply to ISO 11140-1
- ▶ Clean and accurate color change from white to yellow

### Ordering Information

REF	Product Description	Unit/Package	Unit/Box
IE3501	Class 5 Ethylene Oxide (EO) Indicator Strips	250 dual strips	48 packages

## Adhesive Steam & EO Indicator Labels

### View



### Benefits

- ▶ Double sided self-adhesive label
- ▶ Designed for STEAM and EO sterilization
- ▶ Non-toxic, lead free process indicator
- ▶ Accurate indicator color change
- ▶ Conforms to ISO 11140-1

### Ordering Information

REF	Product Description	Dimension	Unit/Box
IL1001	Adhesive Indicator Label for Steam	28mm x 28mm	750 labels/roll
IL1001	Adhesive Indicator Label for Steam	28mm x 28mm	750 labels/roll
LG1001	3 line Label Gun		1 pcs

### Description

pfm medical Class 5 Ethylene Oxide (EO) indicator strips are designed to be used in ethylene oxide sterilizers in compliance with ISO 11135. The indicator strips can be used in every pack and will provide assurance of ethylene oxide gas penetration into the packs.

The water based and non-toxic chemical indicator in compliance with ISO 11140-1 will show a clear and accurate color change from white to yellow after successful ethylene oxide sterilization.

pfm medical indicator strips are cost-effective and can be divided into two separate pieces for economical use.

Indicator strips are manufactured in absence of lead or any other heavy metals.

### Description

pfm medical adhesive indicator labels are double sided self-adhesive labels available with chemical indicator for steam or ethylene oxide sterilization methods.

The lead free chemical indicators in compliance with ISO 11140-1 provide an easy interpretation and will show an accurate indicator color change after successful sterilization cycle.

Used with pfm medical label gun, the labels can be printed with traceability providing data like sterilization/expiry date, autoclave and cycle no.





## Autoclave Tapes

### View



### Description

pfm medical autoclave tapes are a safe solution for closing all wrapping materials. The process indicator ink shows an easy and accurate color change and indicates if the pack has been processed.

The autoclave tapes are suitable for steam or ethylene oxide sterilization processes and also provide a clean peel from the wrapping material.

All autoclave tape sizes are available with indicator ink printing and as non-printed fixing tapes.

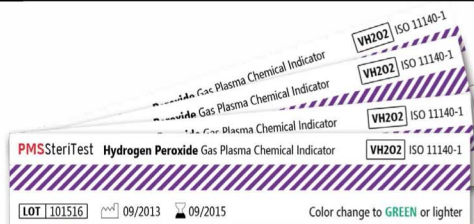


### Ordering Information

REF	Product Description	Dimension	Unit/Box
ATS1950	Autoclave Tape STEAM	19mm x 50m	60 pcs
ATS2550	Autoclave Tape STEAM	25mm x 50m	48 pcs
ATE1950	Autoclave Tape EO	19mm x 50m	60 pcs
ATE2550	Autoclave Tape EO	25mm x 50m	48 pcs
AT1950	Autoclave Tape (w/o printing)	19mm x 50m	60 pcs
AT2550	Autoclave Tape (w/o printing)	25mm x 50m	48 pcs

## H2O2 Plasma Indicator Strips

### View



### Description

pfm medical h2o2 plasma indicator strips are designed to be used at low temperature hydrogen peroxide gas plasma sterilizers. The indicator strips can be used in every pack and will provide assurance of sufficient hydrogen peroxide gas penetration into the packs.

The water based and non-toxic chemical indicator in compliance with ISO 11140-1 will show a clear and accurate color change from violet to green after successful hydrogen peroxide gas plasma sterilization.

### Benefits

- ▶ Designed for H2O2 Plasma sterilization
- ▶ Non-toxic, lead free process indicator
- ▶ Accurate indicator color change
- ▶ Conforms to ISO 11140-1

### Ordering Information

REF	Product Description	Unit/Package	Unit/Box
IP2101	H2O2 Plasma Indicator Strips	250 pcs	10 packages

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## Pouchmate - Automatic Cutting & Sealing Device

### View



### Description

pfm medical Pouchmate medical sealing device for hospital and industry applications is a combined self-cutting and sealing system that is contributing to your productivity and flexibility independence by providing an unparalleled blend of benefits.

Common sterilization packaging process requires different devices and high labor power. Pouchmate medical sealing device, converts cutting and sealing processed into an all-in-one solution and turns workspace to a more productive and flexible area. The fully automated process helps to decrease the workload and reduces labor cost up to 70%.

Pouchmate can master high volume operations easily and automatic cutting and sealing feature makes Pouchmate capable of producing ready to fill pouches from multiple reels, with a high production efficiency of more than 5.000 pouches per hour.

Pouchmate can process reels made of medical grade paper/film and Tyvek packaging up to a width of 40cm and can be also used fro manual sealing of filled pouches.

### Ordering Information

REF	Product Description	Dimension	Unit/Box
PM101	Pouchmate	460mm x 930mm x 220mm	1 pc
RP101	Transfer Roller for PM101	260mm x 950mm x 70mm	1 pc





## Rotary Sealer with Printer

### View



### Benefits

- ▶ Built-in printer
- ▶ Temperature adjustment between 50°C to 250°C
- ▶ Stainless steel frame for hygienic use
- ▶ Four multiline sealing
- ▶ Durable sealing mechanics
- ▶ Stand-by mode

### Description

pfm medical rotary sealer with built-in printer is specially designed to meet the demand of high volume operations in hospitals and medical device industry.

Common sterilization packaging processes require traceability of sealed pouches to ensure patient/medical device safety and control all time.

The built-in printer of pfm medical rotary sealer ensures the end-user that all essential data needed for traceability can be printed on the back side of the pouch.

Each model housing is made of AISI 304 stainless steel, which reduces maintenance to a minimum and ensures hygienic use at CSSD's.

The temperature settings are controlled by microprocessors and can be adjusted between 50°C to 250°C with a  $\pm 1\%$  tolerance.

A hermetically seal is ensured for a wide variety of materials like sealable pouches and reels according EN 868-5 and ISO 11607-1, Tyvek 1059B, 1073D and 2FS.

### Ordering Information

REF	Product Description	Dimension	Unit/Box
SS201	pfm medical Rotary Sealer with Printer	260mm x 670mm x 700mm	1 pc
RY101	Transfer Roller for SS201	260mm x 530mm x 105mm	1 pc

## Rotary Sealer

### View



### Benefits

- ▶ Temperature adjustment between 50°C to 250°C
- ▶ Stainless steel frame for hygienic use
- ▶ Four multiline sealing
- ▶ Durable sealing mechanism
- ▶ Stand-by mode

### Ordering Information

REF	Product Description	Dimension	Unit/Box
SS101	pfm medical Rotary Sealer	230mm x 510mm x 170mm	1 pc
RK101	Transfer Roller for SS201	260mm x 530mm x 66mm	1 pc

### Description

pfm medical rotary sealer SS101 is an entry model which is solid, durable and extremely easy to use. Once power is on and the variable temperature adjustment has been done, the rotary sealer works when it's needed and stops automatically when the work is done.

As all pfm medical sealing devices, the basic rotary sealer is microprocessor controlled and the temperature can be adjusted anytime easily. The sensitive temperature ranging between 50°C and 250°C provides the user with flexibility to seal different kind of packaging such as paper/film and Tyvek pouches. Automatic feeding driven by optical sensors and multiline sealing technique ensure optimum seal strength at continuous operations.

All medical sealing systems carrying pfm medical brand are validated and in compliance with international standards.

## Roll Dispenser & Cutter

### View



### Description

The standard packaging material used for packaging of medical devices sometimes does not meet with the sizes of diversity in instruments. pfm medical offers roll dispenser including cutting unit to enable users to create any required length of packaging material.

The dispenser frame is constructed from stainless steel and steel rods with nylon bearing for hygienic use at CSSDs. The integrated cutting unit includes an accurate and high quality cutting blade providing safe and secure handling and easy replacement.

The roll dispenser and cutter is a useful addition to pfm medical rotary sealing machines. It's renewed and modular design makes it an ergonomic and economic tool which can be used as single or double rack model on working stations or just mounted on the wall.

### Ordering Information

REF	Product Description	Unit/Box
KA201	pfm medical Roll Dispenser & Cutter	1 pc

## Contact

**Do you have any questions? Our Customer Solutions Team would be pleased to advise you.**

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