

UNIQUE 4 FILM ROUTING

Innovative and unique 4 film routing for safe DES crimping and loading of self expandable stents

HIGH QUALITY BUILT

The CRF-200-PS is built with a very high quality benchmark resulting in a stable and robust design with minimal cost of ownership.

COMPACT DESIGN

The machine has a self supporting frame with the electrical and pneumatic components integrated for easy access and maintenance

CONTACT

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- Graphical User Interface for easy access to process cycle options with large 10" full color touch panel interface
- Fast and strong full servo controlled axis for repeatable and reliable transfer of the stents into the delivery systems.
- Integrated safety light with intuitive user interaction. Fully enclosed with manual sliding door
- Unique 4 film routing with easy feedthrough and setup is the only reliable way to ensure you have no cross contamination of stents.

The CRF-200-PS is a stable stent crimping system with film protection for the processing of drug eluting self expandable stents. A unique 4-film protection system is combined with the stable MTP Europe BV 8 blade stent crimper design.

By using films the stent crimping system is protected from coating residues. A clean piece of film is used for every stent crimped. Ensuring absolutely no cross contamination of drug coating between stents takes place! Using films is the only secure way to crimp your DES products.

The crimper is fully servo controlled and the easy to use graphical user interface (10" touchpanel) provides all the process information required to have perfect control on the crimping and loading process. Off course the machine is recipe controlled and it allows for a barcode scanner to be connected.

Fast real time measurements of crimping and loading forces are shown on dynamic graphs that can be selected to be displayed by the user.

Optional transfer plate technology can be used for stable and secure stent transfer from crimping head to delivery system.

The four thin (0.012 mm) PET films are routed in a specific layout and all drug coating that might be lost during the crimping and loading action is safely captured between the films and stored at the 2 waste roller systems.

Film feedthrough lengths can be programmed by the user. Two small inspection windows in the top of the machine allow for easy film inspection after crimping.

The design has been optimized for fast and easy exchange of the films. A typical procedure for loading new films can be achieved within 10 minutes. The system

SAFETY

Standard equipped with a safety door with intuitive operator feedback

COOLING & HEATING

Optionally cooling (+10C) or low temperature cooling (-15C) and heating (max 60C) are possible

USER INTERFACE

Large 10" full color touch screen user interface for easy overview of the machine behaviour.

ON LINE SUPPORT

The machine can be connected to the internet for online support and updates by MPT Europe BV

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Technical Specification CRF-200-PS Balloon Forming Machine

Stent crimping length	200 mm head. Maximum 180 mm length stents
Stent type	Self-expandable stents (also for covered stents)
Maximum diameter loading	17.5 mm (optionally larger sizes possible)
Maximum opening crimp head	35 mm
Minimum closing diameter	0.1 mm (software limit)
Crimp head control	Servo controlled position / force
Diameter accuracy	+/- 0.02 mm @ 100 N
Maximum crimp force	2000 N radial. Dynamic Diameter Compensation possible
Crimping speeds	0.1 mm/s – 10 mm/s
Maximum transfer force	500 N with loadcell measurement
Film width and type	202 mm wide PET film (0.012 mm thickness)
GUI	10" color touch panel
Control software	Zoomable process graphs with process markers Recipe based Password levels (operator, engineer, calibrator) Remote support option
Indicators	Optional signal light / acoustic alarm (user programmable)
Ethernet	2x
USB	4x
Required airpressure	7 bar minimum
Vacuum system for waste coating	The machine has a 50 mm outlet to connect a waste vacuum system
Power supply	115 or 240VAC / 2kW
Heating system	Optional heating system (up to 60°C)
Cooling circuit	Optional cooling system (+10°C) or low temperature (-15°C)
Safety systems	Sliding door with safety contacts and intuitive operator feedback

