

Datasheet

CR-240-FSCP

Stent Crimping Machine

Flexible Stent Crimping Platform



INNOVATIVE DESIGN

Flexible Process Interface software allows for unlimited process cycle development options

HIGH QUALITY BUILT

The CR-240-FSCP is built with a very high-quality benchmark resulting in a stable and robust design with minimal cost of ownership.

EASY CALIBRATION

The CR-240-FSCP stent crimper can be easily calibrated using the one-point automatic diameter calibration function built into the system. Calibration in seconds.

CONTACT

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- Flexible Process Interface
- Servo controlled stent crimping head with Zero Gap technology
- Quick exchangeable crimping head
- 2 platforms for customized parts on holding and pushing stents and mandrels

The CR-240-FSCP Flexible Stent Crimping Platform is developed for the crimping and transfer on or into the delivery system. Both balloon expandable and self-expandable stents up to 220 mm length can be handled.

The accurate 240 mm long, Medical Production Technology Europe BV designed servo-controlled stent crimping head is very stable and can deliver forces up to 1250 N radial while maintaining an even diameter all over the length of the head (using DDC)

The innovative machine provides a very flexible platform for development or production. The Flexible Process Interface (FPI) known from the (BFM) balloon forming machines is now implemented on this stent crimper. It provides endless possibilities to develop cycles.

The machine has been equipped with two platforms (on both sides of the crimping head) that allow for customized grippers or other handling equipment to be connected. The platforms have IO and airconnections. All programmable from the FPI.

The platforms are fitted with loadcells that measure both pushing and pulling forces. The loadcell values are shown on graphs, stored on disk and can be used in the process software as control parameters.

The Medical Production Technology Europe BV design stent crimp head is unique in its design and during the crimping action the blades have very little relative motion to the products. That prevents damaging of any fragile cover materials, and make that the products crimped with the CR-240-FSCP crimper are not damaged in the crimping and the transfer process.

The crimping head can be quickly exchanged. The head can optionally be cooled (-20C) or heated (+90C max). Blades are made out of a stainless toolsteel with a special low friction high wear resistance coating. Optionally PEEK blades are possible.

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SAFETY

Standard equipped with a safety light curtain with intuitive operator feedback to prevent accidental actuation.

DATA COLLECTION

Full process data logging to the internal PC system and transfer possibly to external USB for registration or analysis.

USER INTERFACE

Large 19" full color touch screen user interface for easy overview of the machine behavior and managing of the FPI

PLATFORMS

Two platforms with air connections to valves, servo-valves, inputs and outputs that can be programmed on the FPI

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Technical Specification CR-240-FSCP

Flexible Stent Crimping Platform

Stent crimping length	240 mm quick exchange crimphead
Stent type	All stent types (except DES)
Maximum diameter	36 mm (optionally larger sizes possible)
Heating / Cooling	Optional to -20C / +90C
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	1250 N radial. Dynamic Diameter Compensation (DDC)
Crimping speeds	0.1 mm/s – 10 mm/s
Maximum platform force	+/- 500 N with loadcell measurement
Platform connections	8x air connection (6 mono stable valves and 2 servo valves) + 3x input (24VDC) + 3x output (24VDC)
GUI	19" colour touch panel
Control software	<p>Flexible Process Interface (FPI) software for your own cycle development. (this MPT Europe BV designed software is also used on the BFM series balloon forming machines)</p> <p>Real time graphs with zoom options</p> <ul style="list-style-type: none"> - platform force left - platform force right - crimphead diameter - crimphead force
Ethernet	2x
USB	4x
Required air pressure	7 bar minimum
Power supply	115 / 240VAC / 0.5kW
Safety systems	Light curtain with intuitive operator feedback system

