

Datasheet CR-240-SA

Stent Crimping Machine for self-expandable stents



INNOVATIVE DESIGN

Double microscope camera to aid in linking the delivery system

HIGH QUALITY BUILT

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

EASY CALIBRATION

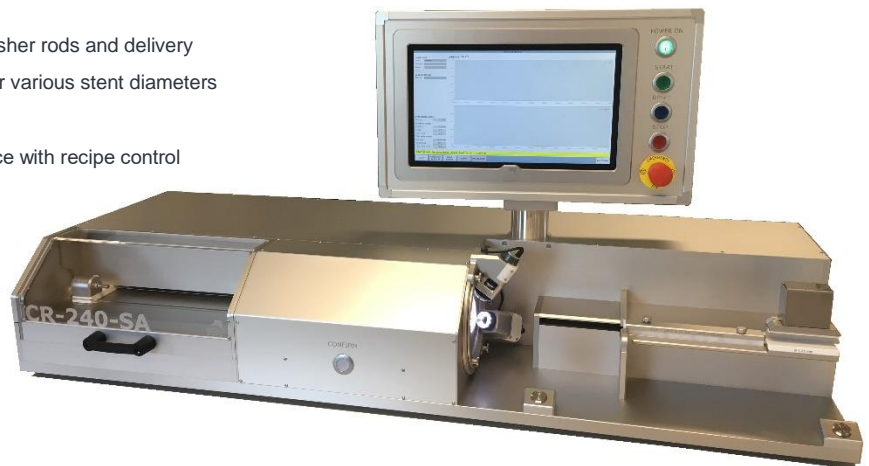
The stent crimper can be easily calibrated using the one-point automatic diameter calibration function built into the system.

Calibration in seconds.

CONTACT

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- Double camera system integrated
- Servo controlled stent crimping head with Zero Gap technology
- Exchangeable pusher rods and delivery system holders for various stent diameters
- 15.5" user interface with recipe control



The CR-240-SA Stent Crimping Machine is developed for the crimping and transfer into the delivery system of self-expandable stents up to 200 mm length with a maximum diameter of approx. 30 mm.

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 1000 N radial while maintaining an even diameter all over the length of the head.

The open design allows operators to load the stents into the crimper head with easy access. A double microscope camera system displays to the 15.5" user panel. The two hand control makes sure the machine is safe to operate.

The stent pusher system is stepper controlled and has a loadcell to accurately measure the stent transfer forces. The pushing rods can easily be exchanged.

The delivery system is placed in a holder. A small light sensor detects the presence of the delivery system in the holder and detects if the system is fully advanced to the transfer plate.

The stent crimping head has stainless tool steel blades that have a special high wear resistant very low friction coating. The transfer forces measured inside the head and in the delivery system are typically at the same magnitude.

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-SA crimper are not damaged in the crimping and the transfer process.

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Stent Crimping Machine

For self-expandable stents



SAFETY

Standard equipped with a safety cover with coded magnets and two-hand controls.

DATA COLLECTION

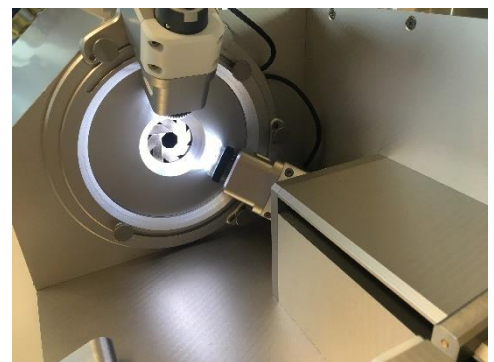
Full process data logging to the internal PC system and transfer possibly to external USB for registration or analysis.

USER INTERFACE

Large 15.5" full color touch screen user interface for easy overview of the machine behavior and managing of the recipes.

Technical Specification CR-240-SA Stent Crimping Machine

Stent crimping length	240 mm head. Maximum 200 mm length stents
Stent type	Self-expandable stents (also for covered stents)
Maximum diameter loading	30 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	1000 N radial. Dynamic Diameter Compensation possible
Crimping speeds	0.1 mm/s – 10 mm/s
Maximum transfer force	200 N with loadcell measurement on the pusher
Stent loading	Manual (with optional aid of two microscope camera's)
GUI	15.5" colour touch panel
Control software	Zoomable process graphs Recipe based Password levels (operator, engineer, calibrator) Remote support option Data logging with USB transfer possibility
Ethernet	2x
USB	2x
Required air pressure	7 bar minimum
Power supply	115 / 240VAC / 0.5kW
Safety systems	Covers with coded magnets and safety PLC system and double hand control system.



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