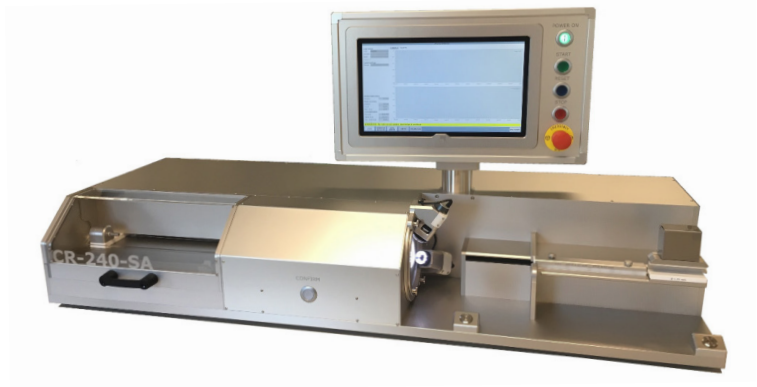


## CR-240-SA

FOR SELF-EXPANDABLE STENTS

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.



### KEY FEATURES

- 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 is built with a very high-quality benchmark resulting in a stable and robust design with minimal cost of ownership.
- The stent crimper can be easily calibrated using the one-point automatic diameter calibration function built into the system. Calibration in seconds.
- Full process data logging to the internal PC system and transfer possible to external USB for registration or analysis.

### SELF-EXPANDABLE STENTS

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.

# CR-240-SA

FOR SELF-EXPANDABLE STENTS

TECHNICAL SPECIFICATION	CR-240-SA
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 cameras)
GUI	15.5" colour touch panel Zoomable process graphs
Control software	Recipe based Password levels (operator, engineer, calibrator) Data logging with USB transfer possibility
Ethernet	2x
USB	2x
Required air pressure	7 bar minimum
Power supply	115 / 240 VAC / 0.5 kW
Safety systems	Covers with coded magnets and safety PLC system and double hand control system.



Medical Production Technology is proud to be an MMT company – Leading provider of catheter balloon forming, folding and pleating, thermal bonding, and stent crimping solutions.

Medical Manufacturing Technologies (MMT) brings together applications expertise, technical solutions, and aftermarket support to revolutionize medical device manufacturing. [Learn more at mmt-inc.com](http://mmt-inc.com).