

Measuring Equipment

Radial Compression Measurement - RCM-60-WB

Description

The RCM-60-WB is a radial compression measurement system that allows you to measure and record the radial forces of self-expanding devices i.e. stent, while being fully submerged in a temperature controlled water environment (37°C).

This radial compression method is recommended by the FDA for radial stiffness and radial strength testing. When compared to the conventional flat plate or V-block method the results are much more realistic to the in vivo situation.

The RCM-60-WB uses a unique crimping head technology developed by MPT Europe BV that ensures zero gaps and can be made to various opening diameters and stent lengths.

Features

- Unique crimping head that ensures zero gaps
- Head is specifically designed for underwater use and is fully submerged to allow for even temperature distribution (37°C water bath).
- Broad range of head diameters and stent lengths can be measured (customised)
- Head is diameter controlled (+/-0.02mm)
- A load cell allows for precise measurement of the forces exerted onto the stent.
- Controlled by PLC and PC
- Easy to understand user interface
- Software is capable of generating your own test programs –
 - Position Steps
 - Relative Force Steps
 - Maximum Forces
 - Graphical Set-Up's
 - Closing Speeds
- Software is capable of multiple data reports and Excel export for easy comparisons
- Good repeatability



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Technical specifications

Head Diameter:	0 – 12.5mm (other dimensions available)
Head Length:	60mm (longer lengths available)
Diameter Accuracy:	+/- 0.02mm
Temp Range:	37°C underwater measurement
Supply Voltage:	110 – 240 VAC
Repeatability / Accuracy:	Better then < 2% full scale
Force Resolution:	15 bit AD conversion
Load Cell Options:	Wide range possible



Displacement/ Stress analysis using finite element software

Production Equipment

Stent Crimper – CR-HC

Description

The CR-HC stent crimping machine has a zero gap crimping head and allows for full closure regardless of dimension. The head can be made to various opening diameters and stent lengths and is designed for stainless steel, nitinol and other stent materials. The head can be positioned or force controlled and can be heated and cooled for optimum balloon heatset.



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