

PTF-240-M

BALLOON PLEAT & FOLD MACHINE

Robust and stable catheter balloon pleat and fold machine designed to provide the user with an effective and reliable production machine for pleating and folding catheter balloon products with minimal cost of ownership.



KEY FEATURES

- 10" color touch panel interface with parameter setting and recipe control.
- Servo controlled zero-gap MPT Europe BV design fold head with stainless tool steel blades and high-wear resistant low friction coating.
- Innovative design for quickly exchanging the pleater setup from 3, 4, 5 or 6 pleats.
- Double inflation / deflation ports with programmable pressure over the software recipes ownership.
- Easy to use user interface software with recipe control. Barcode scanners support as standard.
- Fold head heating is standard and optionally the pleater modules can be fitted with a heating system.
- The design is optimized for use in cleanrooms and can be very easily wiped and cleaned due to the smooth and closed surfaces.

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The PTF-240-M can pleat and fold balloons with a length of approx. 220 mm. The balloon products are clamped on a stable product table with guide-plate system for easy positioning.

The pleat heads can be 3-,4-,5- or 6-fold design and uniquely can be interchanged in a matter of seconds. The connectors for the optional heating on the heated pleat heads and the thermocouples are plugged in automatically (pneumatic activation).

The pleat heads can optionally be heated (max. 90C). When heated the pleater blades are made of a stainless tool steel. Non heated pleat heads have PETP contact material.

The fold head is servo controlled and can be used in diameter mode or in force mode. The zero gap fold head design is extremely stiff and has a software option to have dynamic diameter compensation. The fold head can be heated to a maximum of 90 °C.

The machine can be equipped with a servo controlled pleater module (option. normally servo-pneumatic) and that option enables the use of Clock Wise (CW) or Counter Clock Wise (CCW) pleat heads. The direction of the installed pleater is then automatically detected on initialization.

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TECHNICAL SPECIFICATION	PTF-240-M
Balloon pleater & fold head size	240 mm length maximum opening 30 mm
Maximum balloon length	Approx. 220 mm (depending on cone angles)
Number of pleats	3, 4, 5 or 6 pleats with pre-shape
Heating on the pleaters	Optional. Maximum temperature 90 °C
Heating on the fold head	Standard. Maximum temperature 90 °C
Fold head control	0.1 mm – 30 mm servo controlled +/- 0.02 mm @ 100N accuracy Dynamic Diameter Compensation (DCC) available 1 point fully automated diameter calibration 1000 N radial force max.
Pleat head control	Servo pneumatic optionally servo controlled with CW/CCW pleater option
Product inflation/deflation	2 ports (max. 6 bar / minimum -0.8 bar)
GUI	10" colour touch panel
Control software	Recipe based Password levels (operator, engineer, calibrator) Remote support option
Ethernet	2x
USB	4x
Required air pressure	7 bar minimum
Power supply	115 / 240 VAC / 0.8 kW
Safety systems	Covers with coded magnet and safety PLC circuit



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).