



PTF-120-A

BALLOON PLEAT & FOLD MACHINE

The PTF-120-A is a fully automated machine and can pleat and fold balloons with a length of approx. 100 mm. The balloon products are clamped on a stable product table with automatic positioning using stepper motors



KEY FEATURES

- 13" color touch panel interface with parameter setting and recipe control.
- Servo controlled zero gap 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.
- The PTF-120-A is built with a very high-quality benchmark resulting in a stable and robust design with minimal cost of 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.
- Pleater modules can be quickly exchanged within seconds, without the need to manually connect/disconnect the connectors.

BALLOON PLEAT & FOLD

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 3-, 4-, 5-, or 6 folds with minimal cost of ownership.

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 modules and thermocouples are plugged in automatically (pneumatic activation).

The pleat heads can optionally be heated (max. 90 °C). When heated the pleater blades are made of a stainless tool steel. Non heated pleaters 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 is equipped with a servo controlled pleat head control module and that enables the use of Clock Wise (CW) or Counter Clock Wise (CCW) pleater heads. The direction of the installed pleater is automatically detected on initialization.

The machine has an inflation / deflation port for connecting finished devices (hub connection).

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BALLOON PLEAT & FOLD MACHINE

TECHNICAL SPECIFICATION	PTF-120-A
Balloon pleater & fold head size	120 mm length maximum opening 30 mm
Maximum balloon length	Approx. 100 mm (depending on cone angles)
Number of pleats	Max balloon OD Ø30mm for 3,4,5 fold Max balloon OD Ø25mm for 6 fold
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 – 30mm 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 controlled with CW/CCW pleater option
Product inflation/deflation	1 port (max. 6 bar / minimum -0.8 bar) with hub connector Footswitch activation on the product clamp unit
GUI	13" color touch panel
Control software	Recipe based Password levels (operator, engineer, calibrator) Remote support option
Ethernet	Yes
USB	Yes
Required air pressure	7 bar minimum
Power Supply	115 / 240 VAC 2kW
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).