

Datasheet

PTF-120

Balloon Pleat & Fold Machine



INNOVATIVE DESIGN

Innovative features for changing pleater setup in a matter of seconds.

HIGH QUALITY BUILT

The PTF-120 is built with a very high-quality benchmark resulting in a stable and robust design with minimal cost of ownership.

SOFTWARE

Easy to use user interface software with recipe control. Barcode scanners support as standard.

CONTACT

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- 10" 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 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.

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 90C.

The machine can be equipped with a servo controlled pleat head control module (option: normally servo-pneumatic) and that option 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) but also has an inflation inlay at the product table for pleating and folding just the balloon components.

SAFETY

Standard equipped with a safety covers fitted with coded magnets.

HEATING

Fold head heating is standard and optionally the pleater modules can be fitted with a heating system.

USER INTERFACE

Large 10" full color touch screen user interface for easy overview of the machine behavior.

CLEANROOM

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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Technical Specification PTF-120 Balloon Pleat & Fold Machine

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	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 – 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 pneumatic optionally servo controlled with CW/CCW pleater option
Product inflation/deflation	1 port (max. 6 bar / minimum -0.8 bar) with hub connector and inflation inlay at the product table for component level pleat and fold
GUI	10" colour touch panel
Control software	Recipe based Password levels (operator, engineer, calibrator) Remote support option
Ethernet	2x
USB	2x
Required air pressure	7 bar minimum
Power supply	115 / 240VAC / 0.8kW

