



FlexFold AT180 AT230

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The FlexFold AT180/AT230 towel folder is the perfect solution for folding and stacking all kinds of towels, garments, fitted sheets and other tumbler dried pieces.

An operator puts the piece onto the infeed conveyor. This piece is automatically recognized by sensors and will thereafter automatically be folded and sorted onto the dedicated stacker station. Due to this automatic sorting system, no manual pre-sort is needed. As a result, each folding program can handle up to 4 different pieces, which are automatically recognized, folded and dispatched on dedicated stacker station. After the preset stack height is achieved, pile with folded pieces is put onto the final incline conveyor belt.

The FlexFold AT180 is able to fold pieces up to maximum dimensions of 180 x 120 cm.
The FlexFold AT230 is able to fold pieces up to maximum dimensions of 230 x 120 cm.



OPERATION POSSIBILITIES

Pieces are put on the infeed conveyor belt. For a perfect feeding quality, the conveyor belt can be selected between three running modes: automatic start, after pressing a push button (mostly used for garments), automatic start after infeed sensor is covered or continuously running.

The FlexFold AT180/AT230 can be used for all kinds of towels, from small face towel until the largest (and heaviest) pool towels. The FlexFold AT180/AT230 has the unique design for processing very light as well as very heavy pieces. Furthermore it is able to fold all kinds of light garments (T-shirts, trousers, hospital clothing/uniforms) and fitted sheets. One of the features of the AT180/AT230 is the quality stop, allowing complicated pieces to make an additional stop for rear end (trailing edge) correction.



LONGITUDINAL FOLD PRINCIPLE

The longitudinal fold(s) are made by position controlled folding templates in combination with a pulsed air flow. Once the piece enters the longitudinal fold section, the length (and possibly width) is measured and the folding templates are automatically adjusted. Due to this measurement the piece is recognized



as well. Once the piece is completely in the longitudinal fold section, a high accuracy pulsed air flow folds carries out 1 or 2 folds. Bypassing the longitudinal fold section is possible as well. Regardless the fact that the FlexFold AT230 is a compact machine, it is able to handle pieces up to 230cm.



CROSS FOLD PRINCIPLE

After the longitudinal fold section, the piece enters the cross fold section. Up to 2 cross folds can be made, offering all kinds of folding patterns required nowadays. In order to secure stable and high quality folds, both cross folds are made by air assisted

reversing belts. Tight folded pieces are obtained as pieces are continuously kept between belts. The elastic belts ensure that the cross fold automatically adapts on thin as well as thick pieces. Pieces are supported over the full width of the 2nd cross fold, eliminating the chance of jams.



SORTING & STACKING PRINCIPLE

After the cross folding, the various kinds of folded pieces have to be sorted out on one of the stacker stations. The FlexFold AT180/AT230 can be provided with 4 stacker stations, consequently operator can feed 4 different pieces (mixed) which are folded

and sorted out over the stacker stations. Once the required stack height is achieved, the stack is put on the final incline belt. The stack is brought onto the final incline belt by means of a slide mechanism ensuring a smooth and straight transfer.

OPTIONS

The FlexFold AT180/AT230 is an open design and can be adapted to your specifications. Some of the standard options are:

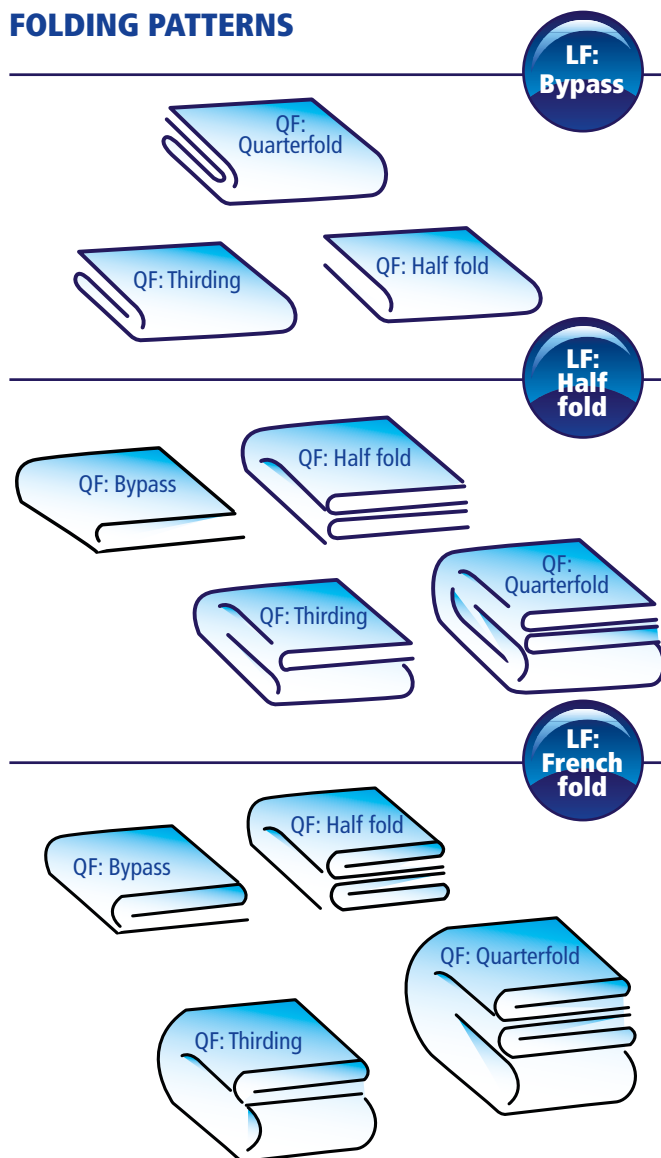
- Garment folding system. The FlexFold AT180/AT230 is able to fold all kinds of towels and also various garments. Long garments however should be fed with collar down in order to get nice presentation after folding. This option allows you to fold all kinds of light and heavy garments (with simple color up feeding), also overalls.
- Longitudinal fold made by folding blades instead of air.
- Production monitoring system.
- Master/slave system. Two machines are connected and share one common incline belt, reducing space requirement and offering the possibility to direct piles straight to packing machine (without human interference).
- Delivery on common belt. Adapted incline belt with monitoring system for automatic transfer on (existing) common belt in the laundry.

CONTROL SYSTEM

The FlexFold AT180/AT230 has a colour touchscreen with utmost simple lay-out. No experience is needed to adapt or create a new folding program. Machine is controlled by PLC, offering highest reliability. Up to 60 different folding programs can be made, each able to fold 4 different pieces.



FOLDING PATTERNS



TECHNICAL SPECIFICATIONS

Maximum piece length:	180cm / 70" (AT180) 230cm / 87" (AT230)
Maximum piece width:	120cm / 47"
Electrical consumption:	1.5 kWh
Power supply:	3 x 380/400V, 50 or 60Hz 3 x 230/240V, 50 or 60Hz
Air consumption:	15 m³/hr
Air pressure:	6 bar
Machine dimensions without incline belt:	318*/369** x 141 x 137cm (lxwxh) 125*/145** x 55 x 54" (lxwxh)
Machine dimensions with incline belt:	413*/476** x 194 x 137 cm (lxwxh) 163*/187** x 76 x 54" (lxwxh)
Machine weight:	1500 kg

*FlexFold AT180 / **FlexFold AT230



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