

FLEXFOLD AT180 - AT230



FOLDING MACHINE AND STACKER

APPLICATIONS

The FlexFold AT180/AT230 is the perfect solution for folding and stacking all kinds of towels, clothing, adjustable sheets and other dry parts.

FUNCTIONING

An operator places the part at the entrance of the conveyor belt. The part is automatically recognized by the sensors and then automatically folded and sorted at the appropriate stacker station.

Due to this automatic classification system, manual sorting is not necessary. As a result, each bending program can handle up to 4 different parts, which are automatically recognized, folded and sent to the appropriate stacker station. After reaching the preset pile height, the pile with the folded pieces is transported to the end of the outlet belt.

The FlexFold AT180 is capable of bending parts of maximum dimensions of 180x120 cm.

The FlexFold AT230 is capable of bending parts of maximum dimensions of 230x120 cm.



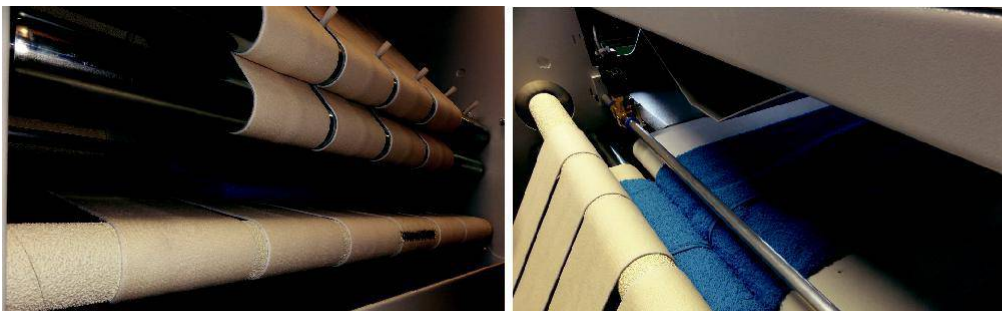
OPERATING POSSIBILITIES

The pieces are introduced by the entry tapes. For perfect quality input, the conveyor belt can be selected in three operating modes: automatic start, after pressing the button (mostly used for clothing), and auto-start after the power sensor is full or in continuous operation. The FlexFold AT180/AT230 can be used for all types of towels, from small face towels to larger pool towels (and heavier). The FlexFold AT180/ AT230 has a designing unique for a

very slow processing as well as for very heavy parts. Moreover, it is able to bend all kinds of light garments(t-shirts, pants, hospital clothes/uniforms) and adjustable sheets. One of FlexFold AT180/AT2300 press brake features is the quality of the stop, allowing make an additional rear stop correction (rear edge) on complicated parts.

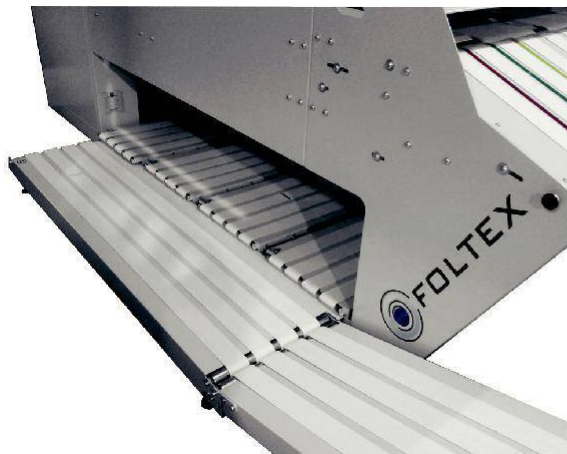
PRINCIPLE OF LONGITUDINAL FOLDING

The longitudinal folds are made by the control position of folding templates in combination with a breath of air. Once the parts enter the longitudinal folding section, the length (and possibly width) is measured and the folding templates are automatically adjusted. Due to this measurement process the part is also recognized. When the workpiece is completely in the longitudinal folding section, a high accuracy of air flows performs 1 or 2 folds. It is also possible to avoid the longitudinal folding section. Regardless of the fact that the FlexFold AT230 is a compact machine, it is capable of handling parts up to 230cm.



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TRANSVERSE FOLDING PRINCIPLE

After the longitudinal folding section, the piece enters the transverse folding section. Up to 2 cross folds can be made, offering all types of folding patterns required today. To ensure stable and quality folds, both transverse folds are made by belt inversion in combination with a breath of air. Folded tight parts are achieved because they are constantly between conveyor belts. The elastic tapes ensure that the cross-folding is automatically adapted on the thin pieces and on the thick ones as well. The pieces rest on the entire width of the second transverse fold, eliminating the possibility of jams.

CLASSIFICATION AND STACKING PRINCIPLE

After transverse folding, the different types of folded parts have to be sorted into the selected stackers.

The FlexFold AT180/AT230 can be equipped with 4 stacking stations, so the operator can insert 4 different pieces (mixed) which are folded and arranged in the selected stackers. Once the stacker height has been reached, the stack will be transported to the outlet belt. The pile is carried to the last inclined band through a sliding mechanism ensuring a smooth and straight transfer.

OPTIONS

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

- Garment folding system. The FlexFold AT180/AT230 is capable of folding all kinds of towels and also various garments. Long garments should however be inserted with the collar down to get a good presentation after folding. This option allows you to fold all kinds of light and heavy garments (with simple collar at the entrance), also monkeys.
- Longitudinal fold made by blades instead of air.
- Production control system.
- Primary/secondary system. Two machines are connected and share a common inclined belt, reducing the required space and offering the possibility to direct the stacks directly to the packaging machine (without human intervention).
- Delivery on common tape. Inclined belt adapted with the control system for automatic transfers to the common bands of the laundry.

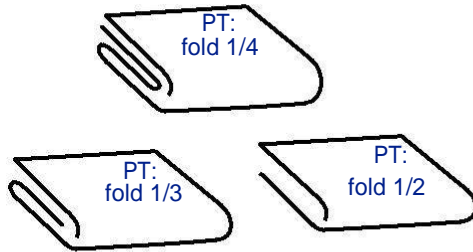
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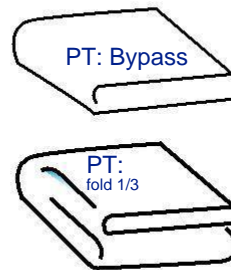
FOLDING MACHINE AND STACKER FOR ALL TYPES OF TOWELS

FOLDING PATTERNS

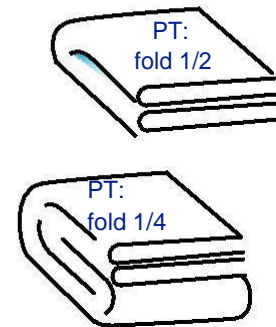
LF: BY PASS



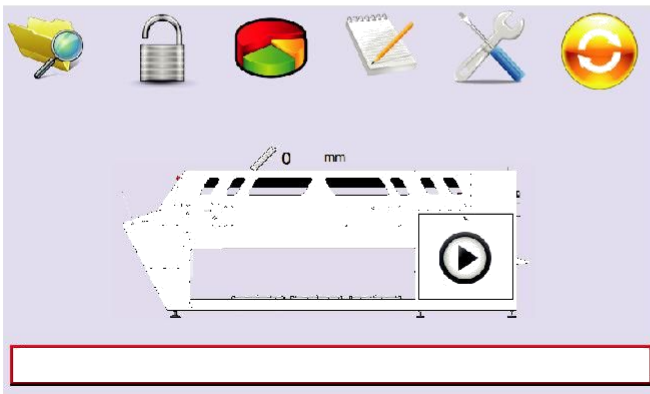
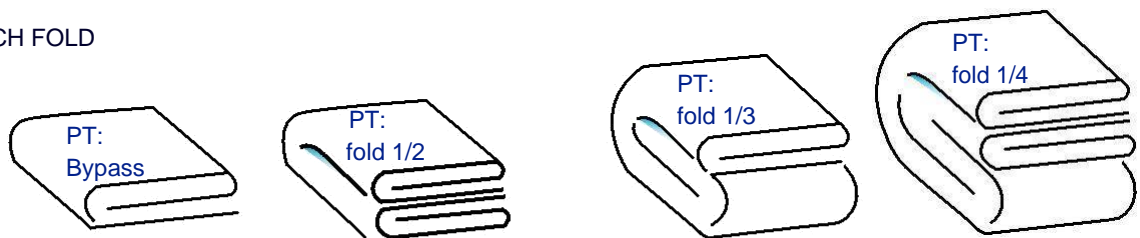
PL: FOLD BY



HALF



PL: FRENCH FOLD



CONTROL SYSTEM

The FlexFold AT180/AT230 press brake has a color touch screen with maximum simplicity.

No experience is required to adapt or create a new folding program.

The machine is controlled by PLC, offering maximum reliability. Up to 60 different bending programs can be applied, each capable of bending 4 different pieces.

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FOLDING MACHINE AND STACKER FOR ALL TYPES OF TOWELS

TECHNICAL DATA

AT180 / AT230			AT180	AT230
Air pressure	6 bar			
Air consumption	<15m3/hr			
Potency	3x380/400V,50/60Hz	Length max.piece	180 cm	230 cm
Power (b)	3x280/240V/ 50/60Hz	Max.piece width	120 cm	120 cm
Power consumption	1,6 kWh	Long machine	318 cm	369 cm
No lines	1	Machine width	125 cm	145 cm
Machine weight	1500 kg	Altura máquina	139 cm	139 cm
Long conv. or stack	194 cm	Long conv. or stack	413 cm	476 cm
Width conv. or stack	139 cm	Number of pieces per...	1400pcs/h	1300pcs/h
		Stackers	1-2-3-4	