

AFM

Fully Dried Work Folding Technology

Kannegiesser[®]

PARTNER IN LAUNDRY TECHNOLOGY



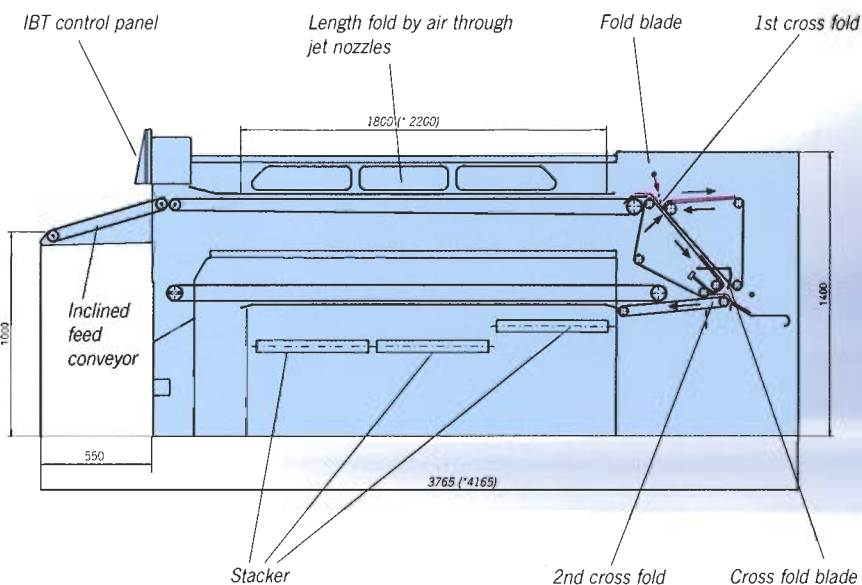
Fully Dried Work Folding Technology

Models AFM, AFM-S and AFM-SB



The operator places the leading edge of the item to be folded on an inclined longitudinal transport system. Colour coded belts ensure that the items are centrally fed.

Machine Concept



* AFM-SB 22

The Length Fold Principle



Two pneumatic plates arranged around the template use efficient jet nozzles to direct the item to be folded around the folding template.

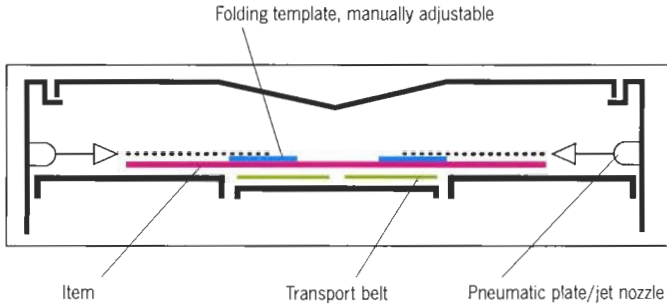
To obtain a neat folding edge, the pneumatic plate blows over the spread item in parallel and with a low spacing. The guided high-speed air jet resulting from the

Immediately after this, the air can blow beneath the lateral sections of the item up to the folding template. The item to be folded now fits around the folding template due to the air cushion formed.

The Models

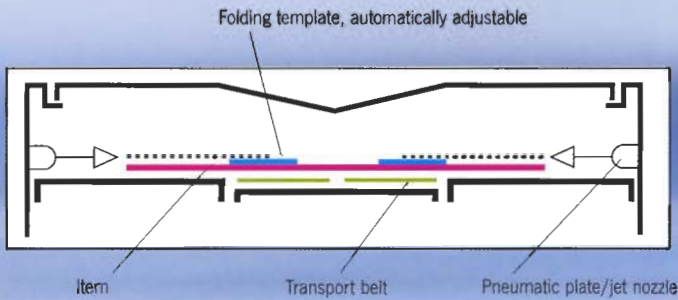
Model AFM

Principle of the length folding station AFM



Model AFM-S

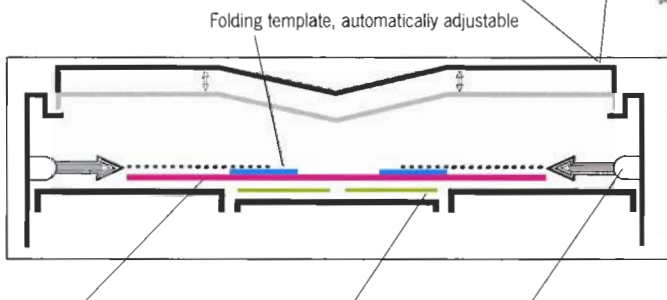
Principle of the length folding station AFM-S



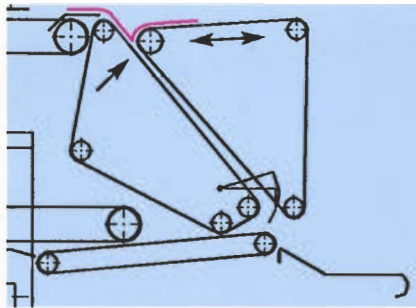
Model AFM-SB

Principle of the length folding station AFM-SB

By means of the height adjustable length folding area and Super jet nozzles different thicknesses of articles can be folded.



Cross Folding



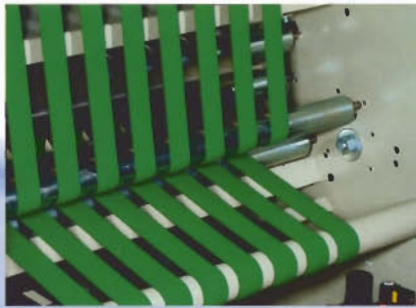
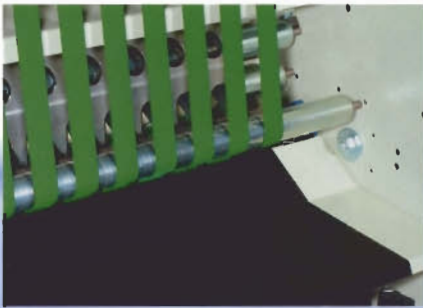
*1st cross fold
The extremely wide cross folding station permits a larger number of various folding patterns.*

Following length folding, the item is transferred to the transport belts of the cross folding station.

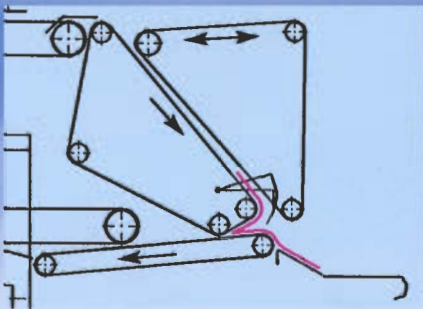
The leading section of the item is guided onto a separate belt drive. As soon as the individually required folding point is reached, the belt drive changes its rotational direction (i.e. it reverses).

The desired folding requirement is created and additionally fixed by an air blast.

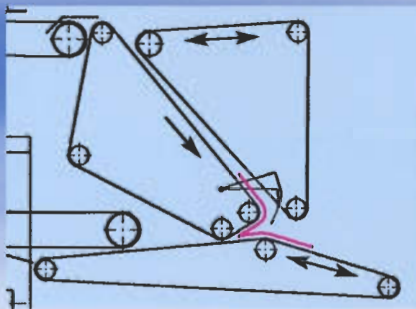
The first cross fold is performed according to the air assisted reverse folding principle.



*2nd cross fold
The permanent guide of the items between transport belts prevents the item from unfolding again. The folding gap automatically adjusts to different item thickness.*



Model AFM/AFM-S, push-feed folding using a mechanical blade



Model AFM-SB, supported reverse folding blade

Stacking and Sorting

The unsorted items now have to be made available to the dispatch department in the form of precise stacks and sorted according to article types.

Models AFM-S and AFM-SB identify by measuring both the length and the width of different articles within one program.

Length and cross folding is effected individually for each article. Following cross folding, the sorted items are stacked on up to 4 stackers. The stack height is automatically adjusted following each deposit.



Item stacking in model AFM-S and AFM-SB

Transport of Stacked Items

Model AFM



Plain and/or lifting stacker

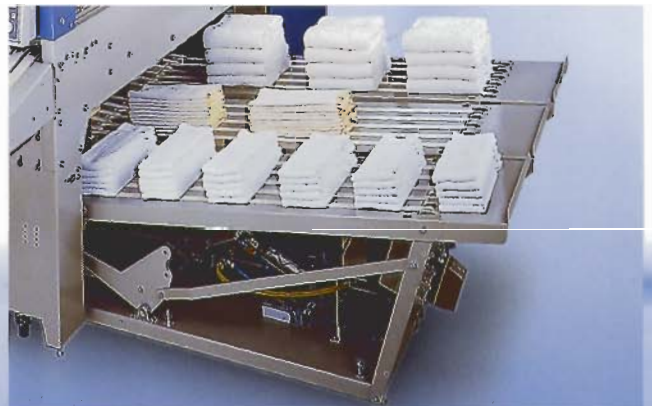


Inline stacker

Model AFM-S/AFM-SB



Central transport with plain and/or lifting stacker



Combination plain and/or lifting stacker

System Integration

Transfer devices perform automatically straight and centered transfer of the stacks to conveyor systems to be transported to automatic packing (or wrapping) machines.



Operation and Control



Control panel model IBT enables production, programming and fault finding modes.

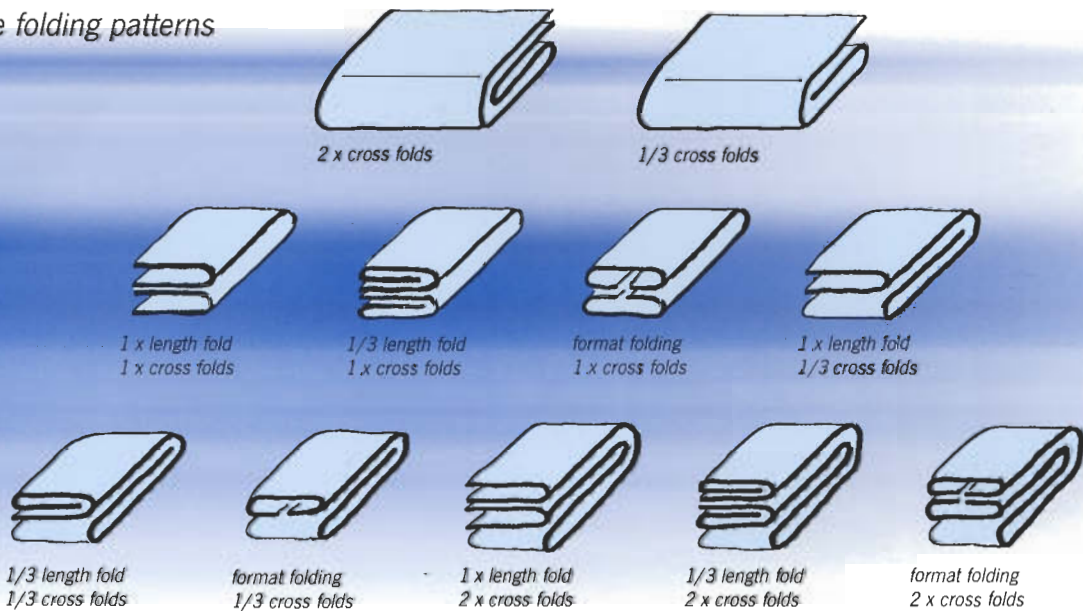
The machine is operated from a centrally placed control panel, which meets practical operating requirements with its large, easily to read display, ergonomic push-buttons and directly available selection menus together with an operator guidance for the individually required programs.

Production mode: The required folding program is scrolled from the program memory by entering the program number or selecting the program name, and displayed on the screen.

Programming includes the optimisation of individual parameters with reference to the article concerned. In the programming mode, an explanatory brief text appears on the screen with each parameter to guide the operator step by step to create an optimised article program which can be stored in the production mode once created, to be available whenever needed.

Diagnostic mode: The input and output levels of the machine controls as well as all movement sequences are synoptically displayed backed by fault message displays shown in clear text to simplify and speed up machine maintenance.

Possible folding patterns



Technical Data

Model	Working width mm (inch)	Dimensions			Foldable item length mm (inch)	Electrical connected 2) kW	Compressed air pressure bar (psi)	Compressed air consumption at approx. 1000 items/h
		Width 1) mm (inch)	Depth mm (inch)	Height mm (inch)				
AFM 18	1200 (47,2)	1400 (55,1)	3765 (148,2)	1500 (59,1)	1800 (70,8)	1,6	6,5 (97,5)	280 NI/min
AFM-S 18	1200 (47,2)	2180 (85,8)	3765 (148,2)	1500 (59,1)	1800 (70,8)	2,8	6,5 (97,5)	280 NI/min
AFM-SB 18	1200 (47,2)	2180 (85,8)	3765 (148,2)	1500 (59,1)	1800 (70,8)	3,2	6,5 (97,5)	300 NI/min
AFM-SB 22	1200 (47,2)	2180 (85,8)	4165 (164)	1500 (59,1)	2200 (86,6)	3,2	6,5 (97,5)	310 NI/min

1) according to type of stack
2) according to equipment

Subject to alterations