

Apparel Folding Equipments & Automation

FoldX^{basic}



FoldX^{basic} is designed to be a T-Shirt folder in first instance.

Functions:

- Folding,
- Stacking
- Manual bagging function.

What Stands out with this folder:

- MADE IN USA, in our plant in South Carolina.
- The folding blades are not breakable, as they are made from aluminum.
- The parts & components are heavy duty and designed to last for a long time and is supported by a 2 year warranty.
- The frame is made from extruded aluminum with a groove to easily connect accessories such as lamps, containers, trays, etc.
- The footprint is only 16 sf without the conveyor .
- Programming is not necessary; a simple combination of push buttons provide the necessary process changes.
- It can be delivered as low as 21" high.
- The height of the folder can be adjusted.
- With the manual bagging function, you manually take a bag and put it over the shirt; we can provide bags with your personalize logo or prints.
- Alternatively, a conveyor can deliver the folded item to the **BagX^{basic}** , a semi automatic bagger which is further described below.
- For even more efficient automation, It can be also connected to an automatic bagging function like the **BagX^{site}** as mentioned below.
- Most sturdy "blade folder" in the industry

Some Specifications:

- 48" L X 35" W x 18" H (without casters), height can be adjusted to over 40".
- 158 lb Net weight
- 120 VAC for the folder and the conveyor, one power circuit is sufficient
- 2 year Warranty
- No compressed air needed

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FoldXtreme



FoldXtreme is a textile folder, capable to processing towels, fitted sheets, garments such as T-shirts, nightgowns, uniforms, hospital clothing and all other dried pieces up to a length of 94".

The feeding conveyor can be adapted in height to make it suitable for short and tall operators. The conveyor has been extended, resulting in a better grip for longer items.

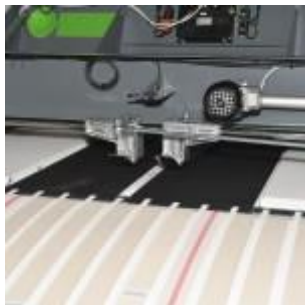
FoldXtreme sorts automatically the various pieces based on length, consequently pre-sorting is not required. Optionally, our **FoldXtreme** can also sort based on width. This is advantageous in cases where pieces of the same length have different widths.

Once the pieces are folded, they are directed towards a dedicated and programmable stacker station. As soon as the required pieces/ stack are reached, the stack is put on the final delivery belt.

The final delivery belt can be installed either on the left or on the right side and deliver the items either to the front (back to the operator) or to the rear of the machine.

As **FoldXtreme** is capable of making two independent lateral folds and two independent cross folds, many different folding patterns are possible. For each item, a separate folding pattern can be programmed, making the machine the most flexible.

In comparison to folding equipments from other brands, **FoldXtreme** has a minimum of moving parts and it is built from standard components.



Folding patterns

As the S.towel is able to make up to 4 folds, many different folding patterns are possible. For each type, a separate folding pattern can be programmed, making the machine extremely flexible.



PF: Bypass
CF: Quarter fold



PF: Half fold
CF: Quarter fold



PF: French fold
CF: Quarter fold



PF: Bypass
CF: Third fold



PF: Half fold
CF: Third fold



PF: French fold
CF: Third fold



PF: Bypass
CF: Half fold



PF: Half fold
CF: Half fold



PF: French fold
CF: Half fold



PF: Half fold
CF: Bypass



PF: French fold
PF: Bypass

How the folds are made:

The Primary (Lateral) folds:

The primary (lateral) folds are carried out by a pulsed airflow. Before the piece has completely entered the primary fold, the length is measured. Based upon the length, the program changes "on-the-fly". The folding templates (two spreader bars) are automatically spread to the programmed position and the pulsed air folds the piece tightly around the templates. The primary fold is able to fold pieces up to 94" long.

The Cross Folds:

FoldXtreme is equipped with two cross fold sections. Each cross fold is generated by reversing belts in combination with an air pulse. The result is a very precise and tight fold.

The cross fold sections can be programmed which allows for several "cross-fold-patterns"; even bypassing cross folds is possible.

Stacker Functionality:

After the folding, pieces are stacked on a dedicated stacker. As a standard, **FoldXtreme** is provided with 3-stacker stations. A 4th stacker station is an option, as well as a stacker with a different width. Once the programmed piece count/ pile is reached, the stack is pushed to the final delivery belt.

Linear Exit:

FoldXtreme can also be delivered with a linear exit configuration.

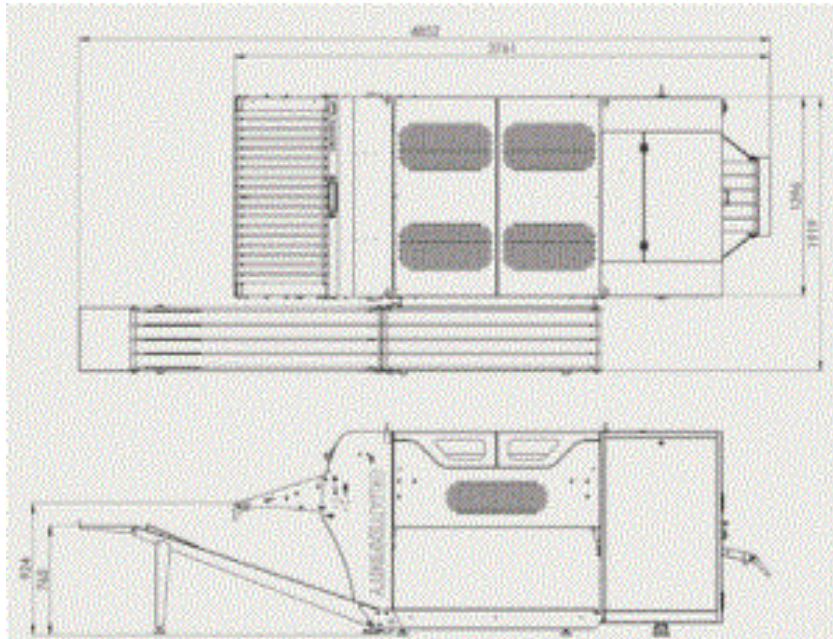
Folder Synchronization:

In case two folders are put next to each other, each machine can be interconnected by the means of a master/slave configuration. Piles from both machines are put on to the same final delivery belt, allowing to conduct all piles towards a central conveyor belt, thus leading to a packing/ wrapping machine or sorting area.

Folder Size:

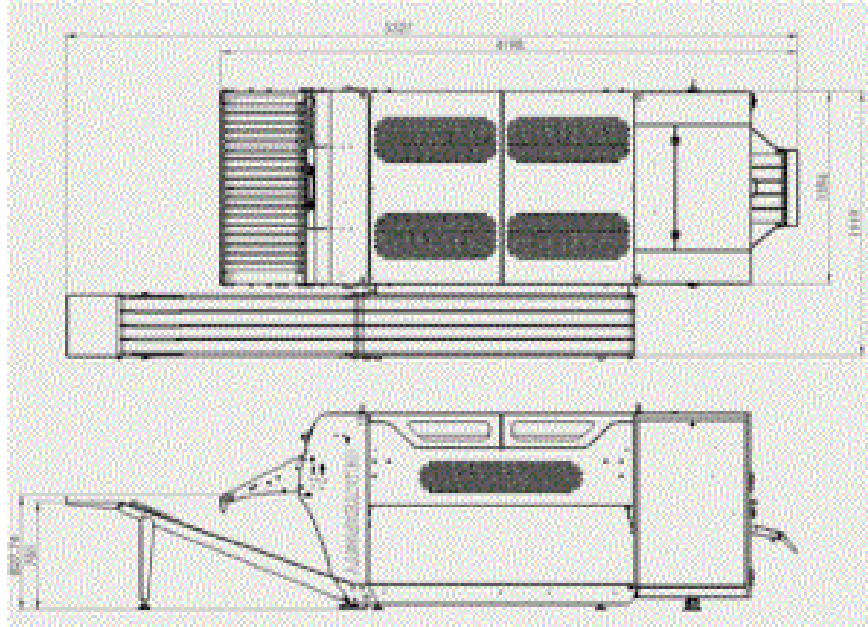
FoldXtreme exists in two sizes:

Short, folding pieces up to 74" long



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Long, folding pieces up to 94" long



PLC – Online Support:

FoldXtreme has a PLC based control system. Operating the machine is done through an easy to use 7" color touchscreen. Thanks to the responsive touchscreen of high resolution, making and changing folding patterns becomes very easy. The control can be connected to the internet for worldwide online support.

Various Methods of Program Selection:

Selection of folding pattern recipes can be done by program number or by client. Selecting recipes and/or clients can be done by

- a) Operator
- b) Barcode reader,
- b) RFID reader or
- c) Integrated in overhead bag system controls.

Production Data Storage:

FoldXtreme can store production data and buffer them in the machine. These data can be written into a central database for further processing or reporting. Integration of the FoldXtrem with Smart

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conveyors is standard with the machine. Efficiency and productivity values can be shown on the optional large display S.pulse or viewed on a tablet or smartphone.

The **FoldXtreme** series is manufactured according to ISO 9001.

Warranty:

FoldXtreme is built very solid and it is backed up with a three year warranty; please contact us for details.

Technical Specifications:	
FoldXtreme Long	94" x 47"
FoldXtreme Short	74" x 47"
Width including del. belt	75 1/2"
Width excluding del. Belt	55"
Height	56 1/2"
Weight	2425 lb
Air pressure	6 bar
Air consumption	8 – 20m(3)/hr
Air Connection (diameter)	>= 5/8 "
Power Supply	400 V 3-Phase, 50/60 Hz
	230 V 3-Phase, 50/60 Hz
Power consumption	0 – 2KWh

Optional Equipments & Automation

ConveyX⁵⁹¹⁶



Incline Conveyor: Front and back can be adjusted in height

- Adjustable Speed
- Aluminum Alloy Frame
- Belt Length 59inch Length
- Belt Width 15.7inch Width
- Voltage: VAC 110 (can be plugged within the came circuit of the FoldXBasic).

The frame is made from extruded aluminum with a groove to easily connect accessories such as lamps, containers, trays, or perhaps label applicators, scanners.

Bag^Xbasic



Bag^Xbasic is a semi automatic L-Sealer. The operator will feed the apparel into position and manually close to seal.

Intended Use:

Connect to **Fold^Xbasic**

BagX^{basic} LS-16 L-Sealer is a heavy duty production based unit designed to be run 2 shifts per day if needed. With its heavy duty frame construction, cast aluminum seal head and Hot Knife Seal Technology, you will get years of use with minimal repairs. This machine is capable of operating at speeds of around 600 – 800 pieces/ hr.

Standard Features include:

- Hot Knife- Teflon Coated Steel Blades
- Motorized Discharge Conveyor
- Seal & Magnet Timer
- Seal Heat Return Cylinder
- Dual Magnet Hold Down
- Stainless Steel Film Clamps
- Pin Wheel Hole Punch
- Discharge Conveyor Timer
- Locking Casters
- Powder Coated Frame
- Transition Rollers on Discharge Conveyor
- Film Roll Guides
- Constant Heat for Sealing
- Film Roll Brake to prevent over-winding
- Heavy Duty Frame Construction
- Independent Front and Side Digital Temperature Controls.

Power: 220 Volt, 1 Phase, 15 AMPS

Weight: 325 lb net/ 380 shipping

Seal Dimensions: L 22" x W 16"

Max Film Width: 20"

Machine Dimensions: L 64" x W 27" x H 39"

BagXcite



BagXcite PP-56 is a full automatic L-Sealer. The conveyor will feed directly into the **BagXcite** ; and the sealing process is triggered by a photo sensor.

OVERVIEW

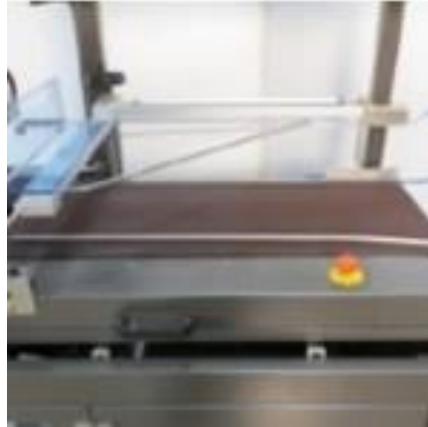
BagXcite PP-56 has a sealing system, capable of performing a smooth and firm seal line.

- Use of photo sensors and timers controls the bag length for sealing.
- Excellent perforation system design allows the pin to be changed easily.

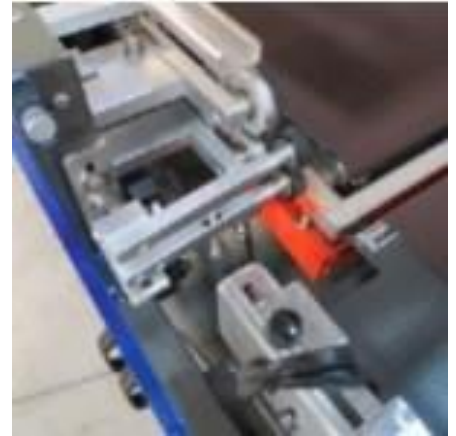
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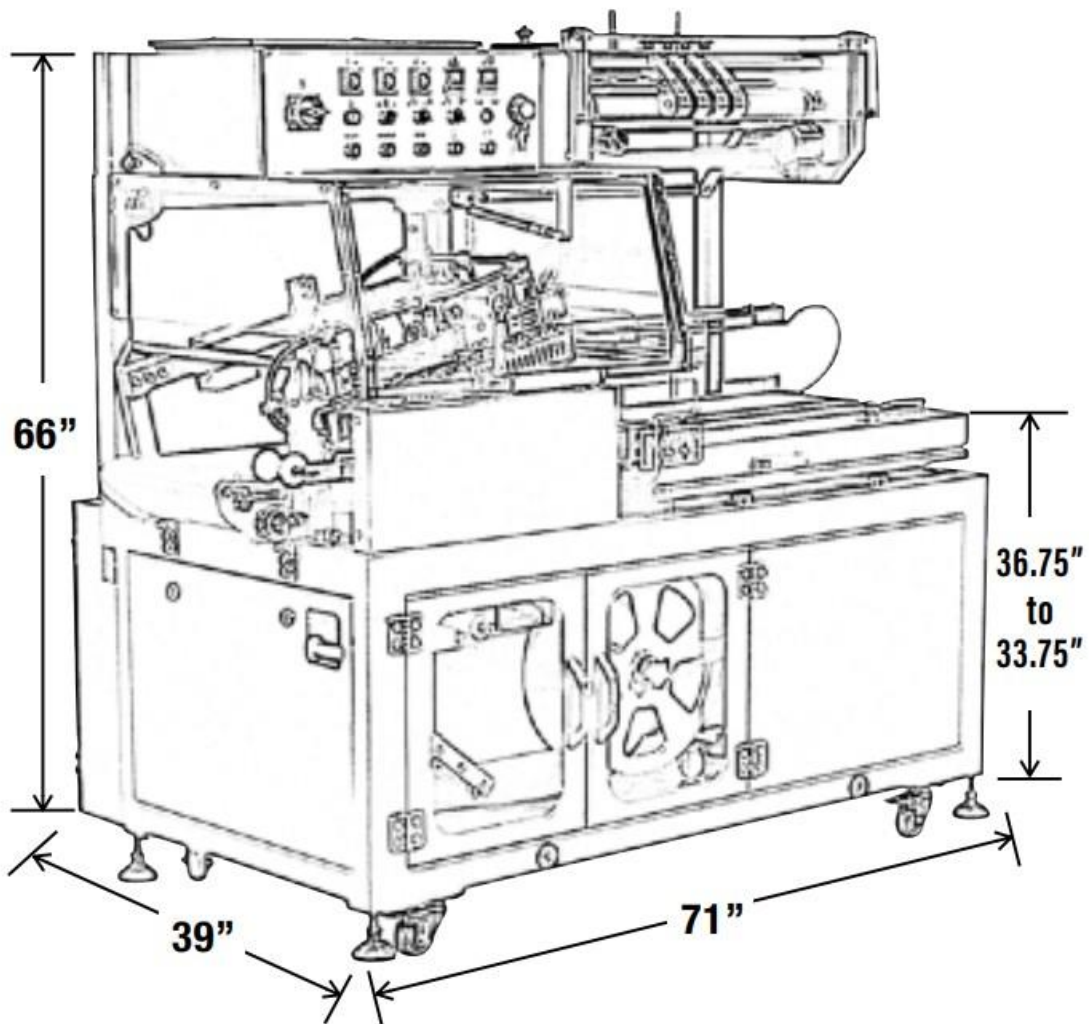
Pin Wheel Hole Punch



Adjustable Inverting Head with air injector for better looking Packages



Film Miser – helps track film allowing for smaller width film rolls to save money



KEY FEATURES

- Teflon coated hot knife seal blade
- Fixed belt speed at 65 FPM
- Multiple pinwheel hole punches
- Large seal area (22"L x 18"W x 4.75"H)
- Dual emergency stop switches
- Self-contained scrap removal system
- Plexi-glas safety covers
- Dual photo-eye (horizontal & vertical)
- Film miser – helps track film
- Locking casters with leveling pads
- Max film width os 24"

SPECIFICATIONS

Seal Area: 22"L x 18"W x 4.75"H

Machine Speed: 20-25 PPM

Electrical 220V: 1 Phase, 20 Amp

Air: 2 cfm @ 80 psi

Minimum pkg size: 3.9" x 2.5" x 1/8"

Maximum pkg size: 21"L x 17"W x 4.75"

Maximum film width: 24"

Machine dimensions: Crated dimensions 75"L x 43"W x 74"H

Shipping weight: 880 lbs

Warranty: 1 year on parts

OPTIONS

- 3ft or 6ft flighted infeed
- 3ft or 6ft belted conveyors
- Flight bar conveyors for multi-packs
- Variable speed conveyor (0-90 FPM)
- Closing conveyor
- Print registration

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