

Extreme Duty Form, Fill and Seal **MODEL 3100**

The Model 3100 represents the first all new design in harsh environment, large format horizontal form, fill and seal machines in over a decade. Challenging existing designs while incorporating dozens of performance enhancing improvements, the 3100 provides hands free operation, enhanced bag handling, bag sealing and throughput. It's simply the fastest, easiest to run and most durable machine available.

Hamer LLC

Model 3100

The Model 3100

Extreme Duty is built tough for demanding plant environments. From its 6" structural steel powder coated frame to the ½" steel plate side weld assembly, every component of this machine is designed and built for long operating life in the most difficult plants. Abrasives, corrosives and other demanding products can be run with a minimum of maintenance.

The heart of any horizontal form, fill and seal is the film belt path. Using a unique belt path design with its exclusive double sealed, self cleaning pulleys, the **3100** offers the ultimate in bag control. When combined with its independently adjustable fill area conveyor, powered bag top sealer bag transfer and VFD controlled heat sealer bag conveyor there is simply no other machine that offers this level of bag control. From bag forming to filling and top sealing, **Model 3100 Extreme Duty** innovations ensure you get the best possible results, first bag and every bag.

One of the keys to bag sealing success with dusty, difficult handling products is Hamers' proprietary dual bag staging process. After creating a bag in the side weld station we position this empty bag for a full station prior to fill. This allows the bag welds to cool, eliminating the potential for leakage. After filling the bag we also stage the bag. This provides needed time for product settling and allows our engineering team to introduce unique bagging functions such as cleaning of the seal area. Pre-fill and post-fill bag staging does not interfere with bagging speed.

The Indu

EZ Load™ Horizontal Roll Holder

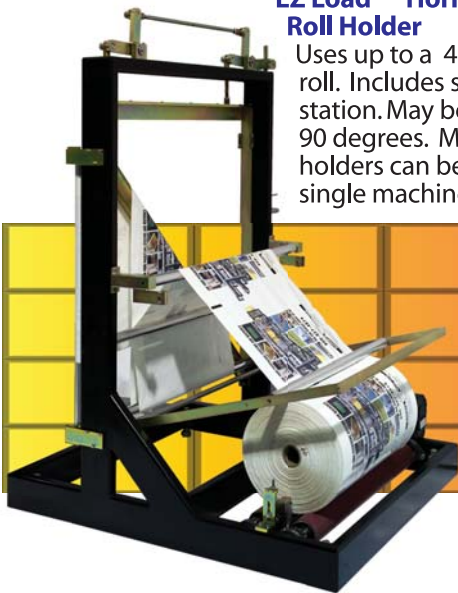
Uses up to a 40" diameter roll. Includes splicing station. May be placed at 90 degrees. Multiple roll holders can be used on a single machine.

Bag Corner Sealer

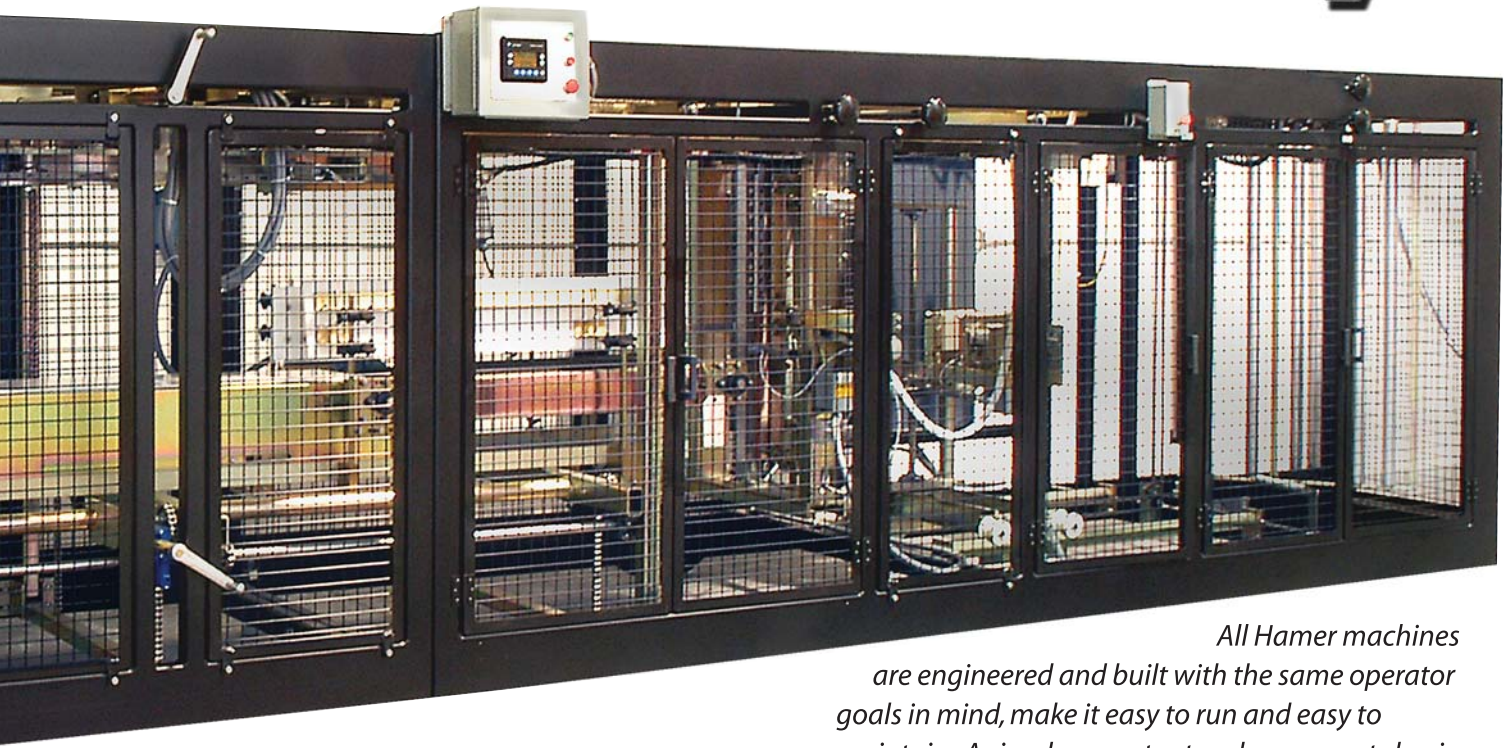
Creates a 45 degree seal across bag bottom corner. Eliminates shrink wrap tearing and bag corner damage during shipping.

Bag Top Trimmer

Trims top of film, creating top for consumer applica



Extreme Duty



All Hamer machines are engineered and built with the same operator goals in mind, make it easy to run and easy to maintain. A simple operator touch screen sets basic machine functions and provides production information and troubleshooting assistance. Mechanical adjustments are made using external hand controls. Fill opening, side weld, and other machine functions utilize a unique rack and pinion style control. All adjustments are metered to make it easy to go from one bag size to another, with precise settings every time.

The Answer to High Speed Industrial Bagging

Trim and Removal
of a neat clean bag
ends.



Bag Handle Applicator

Several different types of bag handles are available: handle in-bag, and header handle types.



3100 Standard Features include:

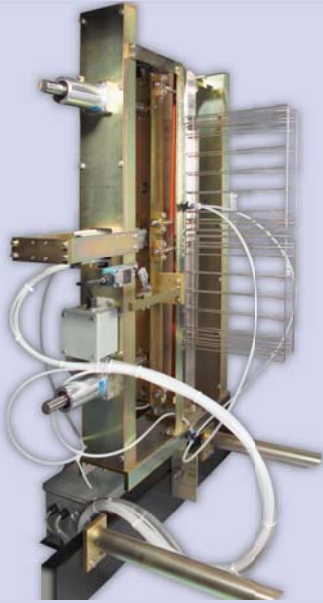
- Self Cleaning Bag Conveyors
- Simple Touch Screen operator control
- Integrated Bag Transition system
- Allen Bradley PLC
- Dual Bag Staging Pre-fill and Post-fill
- Two Stage Fill/Seal Dust collection
- Heated/Selectable Bag Side Air Vent Perforations
- Double Sealed "dust proof" Belt Pulleys
- Hand-Held Remote Control
- Horizontal and/or Vertical Film Holder

Double-Sealed Pulley Design

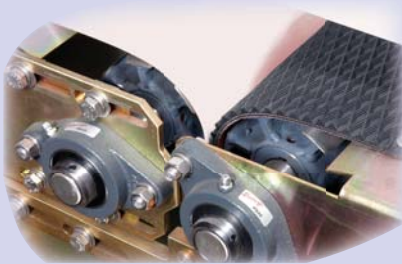


Proprietary pulley and mount design keeps contaminants from sealed bearings. Self cleaning conical design propels dirt and dust away from bearings. 4" diameter machined and hardened nickel plated.

Bag Side Weld
Side weld and all internal mechanics constructed of 1/2" steel. Rack and pinion controls, integral bag perforator with selectable air hole sizes.



Self Cleaning Conveyor Belts



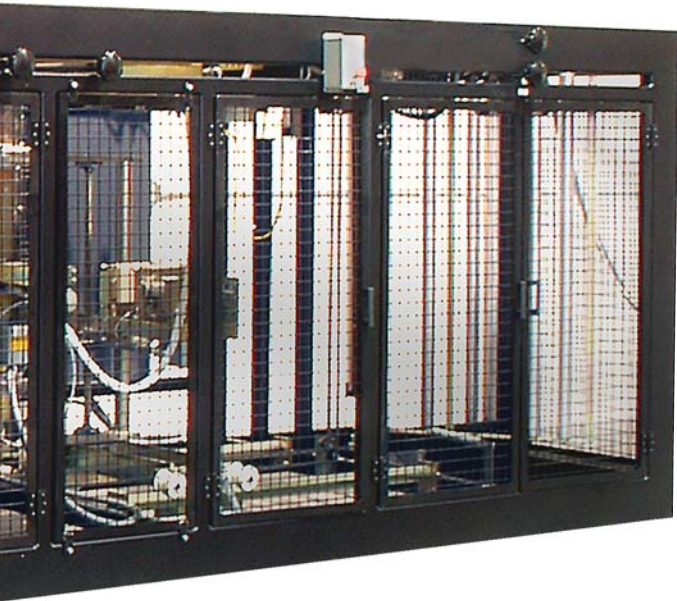
Heavy duty belts with self cleaning head and tail pulleys. Easy access grease ports. Fixed exit length.

Powered Bag Transfer

Exclusive powered bag transfer ensures effective bag handling from fill opening to the hot air sealer. Heat sealer conveyor section "grabs" the bag as it transfers from filling station.



e Duty



**Toughest,
Most Dependable
Form Fill & Seal Available.**

Model 3100 Extreme Duty Form, Fill and Seal

Standard Features:

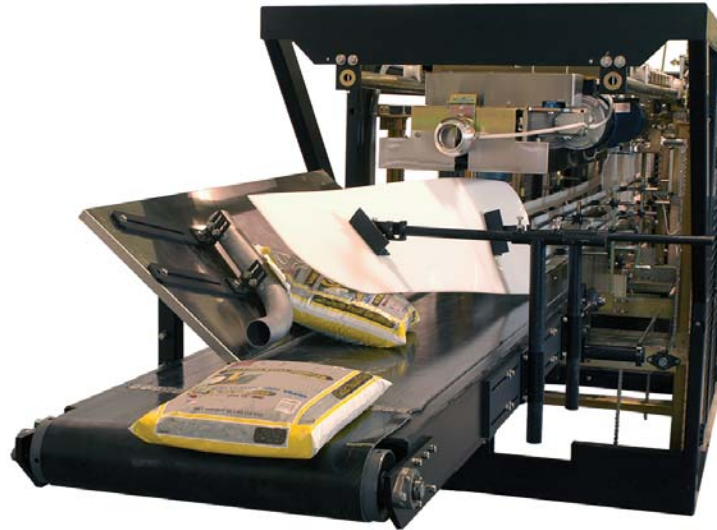
- Up to 30+ Bags Per Minute
- 24" Vertical Roll Holder
- Allen-Bradley PLC
- Touch Screen Operator Control
- 24VDC Controls with Solid State Relays
- Self cleaning, double sealed pulleys and bearings
- Heavy duty self cleaning bag conveyors
- 6" structural steel tube frame, powder coated
- Internal components: ½" structural steel, zinc dichromate plated
- Self cleaning bag conveyor tail pulley
- Proprietary powered bag transfer from fill to hot air seal
- Adjustable angel fill conveyor
- Operator safety gates, expanded metal with cut offs
- 304 stainless steel product contact points
- Heavy duty 4" dual sealed, self cleaning dust tight pulley assembly
- Variable speed AC motors on bag conveyors and heat sealer
- External controls for all adjustments, scaled for repeatability
- Side of bag needle perforations, heated for better perforation control
- Adjustable top seal air pressure for precise pressure control
- 18" Hot air seal extension over bag transfer conveyor
- Integrated 40" bag top seal cooling

Options:

- Automatic bag top seal cleaner
- Shaker Chute™ rock in-feed chute
- Dust removal in-feed chute
- EZ Load™ horizontal roll holder
- Handle Options
- Bag Bottom Gusset
- Mitered corner seal
- Modem for remote communications
- Bag top trim with scrap removal system
- NEMA 4 Electronics Enclosure
- Knock down/positioning conveyor

Specifications:

- Bag sizes from 9" to 22" Wide, up to 33" long
- 2 mil to 8 mil poly thickness
- NEMA 12 control panel, UL Listed
- Shipping weight approx. 10,000 lbs
- Approx. machine size: L 23' x W 5', H 5'
- Electrical: (1) 230V, 3 phase 60Hz, 60 amp
Other power configurations available
- Air: (1) 40 cfm @ 80 psi. ¾" line minimum.
Some options may increase air consumption



System Options:

- Dosing by weight or volume
- Bag handling conveyors
- Automatic bag palletizing
- Turnkey packaging systems

Your authorized Hamer representative:



MACOSER®

Hamer LLC

AUTOMATED PACKAGING SYSTEMS

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