

IS43

**POLYCHEM**<sup>®</sup>  
PLASTIC STRAPPING SYSTEMS

## HOODING SYSTEMS



IS43



**POLYCHEM**  
*The Total System*  
**LOWEST COST OF OWNERSHIP**

STRAPPING

SYSTEMS

PARTS

SERVICE

TRAINING

MAINTENANCE

TOOLS

ACCESSORIES

*DEDICATED*  
*Customer Service*

**The Model IS43** automatic hooding machine has been designed to PACKAGE palletized products using gusseted tubular film. The stretch hooding technique uses a film hood having a smaller circumference than the pallet. The film is stretched (WITHOUT THE USE OF HEAT) and applied to the pallet. Once the stretch assembly dispenses the film, it recovers providing package stability and five sided protection.

**Smart Operational Cycles, High Performance**

There are two main operating phases, 1) the hood preparation and 2) the hooding of the load. The IS43 machine is able to overlap these two phases reducing the cycle time. Once the hood is formed, it is retracted onto the stretch assembly; then the film is proportionally stretched to accommodate the product size. The first sequence is performed during the transfer between one finished pallet and the following; not effecting the total cycle time.

**Simple and Productive....**

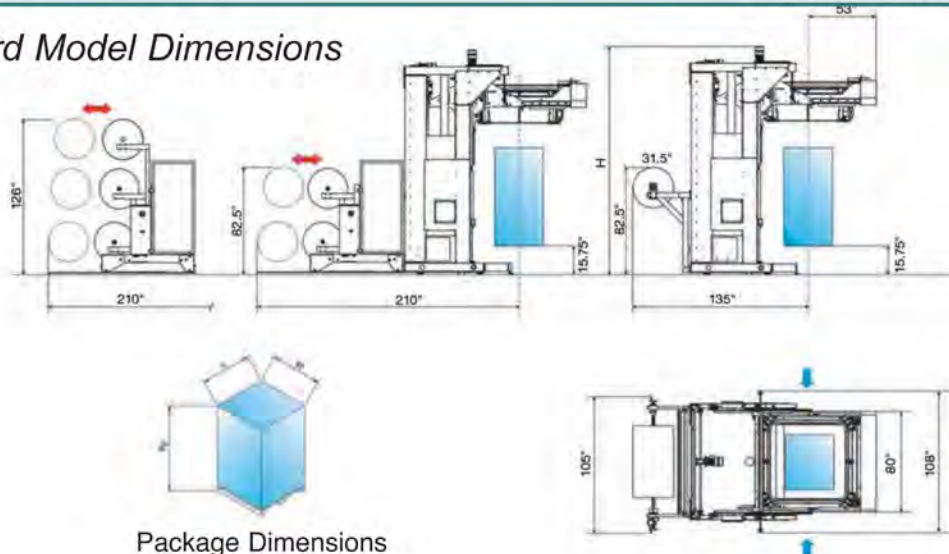
The IS43 has been designed to satisfy the main needs of the market. Considerable attention has been paid to logistics, installation, space requirements, operation, safety, maintenance, and overall consistency of the final product. The IS43 has a simple, modular structure. The machine can be installed on any type of existing conveyor WITHOUT ANY MODIFICATION. All the zones of the machine that require maintenance or visual inspection, can be easily reached by the operator without the use of ladders and/or platforms.

**Technical Data**

Production:	from 40 to 120 pallets/hour	Normal air pressure:	5.5 - 7 bar (80-100 PSI)
Standard size:	52" W x 52" L x H*	Air consumption:	approximately 100 NI/cycle
Type of film:	stretch polyethylene	Diameter of air feeding pipe:	min 3/4"
Film thickness:	2.5 - 7.5 mils	Voltage:	480V(+/-10%) - 60Hz, three-phase
Roll diameter:	32"	Auxiliary circuits:	24V cc.
Roll maximum weight:	1100 lbs.		
Conveyor height:	15.75"		

*\*Variable, depending on height dimension*

**Standard Model Dimensions**



Package Dimensions



## IS43 STANDARD

### Strong, Sturdy Steel Frame

The structure of this machine was designed for heavy industrial use.



*Film Stretching  
(Note: "Dog ears" or "elbows" are inside the hood)*



*Application Phase*

### Weld Cut Assembly

Located on the bottom of the machine for easy maintenance and verification.

### Film Roll Dispenser Assembly

This unit is capable of operating simultaneously with 1, 2, or 3 size film rolls.



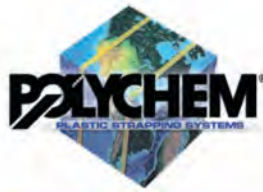
*Small Footprint – Takes up Less*

## IS43 OPTIONS

**The Model IS43** is available with multiple film roll dispensers. For operations with different pallet sizes, the machine can interchangeably operate with multiple coils and multiple coil sizes. There is easy access to the film dispenser. The mobile roll holder and film guide allow a **VERY SIMPLE AND FAST** replacement of the film rolls.

### Optional Devices

- Auxiliary roll-holder shaft
- Roll-holder shaft with pneumatically-actuated expansion device
- Film roping device at base of pallet
- Lifting device for underwrap of product on pallet
- Air cooling system (for environment temperature higher than 40°C)
- Reading device for film mark
- Package height detection device: sonar or photoelectric curtain



**Hood Prep Assembly**

The hood preparation is done in advance of the product arrival.

**Indexing Frame**

The frame moves over the load, therefore allowing for a small machine footprint.

**Hood Stretch Assembly**

The machine features a proportional stretch assembly. It allows for independent movement in both X and Y axis.

**Controls**

Featuring an Allen-Bradley PLC.

**EASY ACCESS**

All maintenance and inspection functions can be performed on the ground level.

*Space than Other Methods*



*Single Roll*



*Double Roll*



*Triple Roll*



## HOODING SYSTEM IS43

### Advantages

**ECONOMIC:** the use of stretch film is more cost effective (less energy and film usage) than thermal shrink hooding and other methods.

**STABILITY OF THE PACKAGE:** Provides for better containment of goods. The hood offers tension on all 5 sides of the package and produces a "drum tight", smooth top package, without the dreaded "dog ears" that can snag while stacking pallets. The result is a more aesthetic package with superior integrity.

**PROTECTION:** the water-proof, dust-proof hood shields products against weather and theft. Outside storage frees up valuable floor space.

**PRINTABILITY:** the stretch-hood technique allows for printing of company name, logo, or marketing message.

**READABILITY:** The product sells itself as goods are protected by a clear film hood so one can easily recognize, read, and inspect packaged materials for damage.

**ACCESSIBILITY:** The hood removes more easily than other films and can be cut away in sections as products are picked and sold.

**LIABILITY REDUCTION:** The hood will not unravel and is less likely to create a trip hazard in aisles at distribution points and in retail outlets. Because there are no "dog ears" or elbows on top of the package, one is less likely to trip while walking on them.

**ENVIRONMENT:** Environmentally safe – no hazardous ovens and no emissions.

### IS43 CONFIGURATIONS

	IS43 Basic	IS43-1	IS43-2	IS43-3
Machine Size (L x W x H)	52" x 52" x 63"	52" x 52" x 63"	52" x 52" x 63"	52" x 52" x 63"
Oversized Machine Size	n/a	67" x 55" x 63"	67" x 55" x 63"	67" x 55" x 63"
Tall Load Option	Up to 105"	Up to 105"	Up to 105"	Up to 105"
Std. Cycle Time (min movement)	40 pkg/hr	70 pkg/hr	70 pkg/hr	70 pkg/hr
Fast Cycle Time (min movement)	n/a	120 pkg/hr	120 pkg/hr	120 pkg/hr
Number of Dispensers	1	1	2	3



## **Applications:** *Unitizes and protects for shipping and indoor/outdoor storage*

- Brick/Block/Pavers
- Concrete/Cement
- Ice Melt/Rock Salt/Salt Pellets/Charcoal
- Bagged Aggregates/Sand/Soil/etc.
- Fertilizer/Mulch/Seed/Grain/etc.
- White Goods
- Pet Food
- Corrugated
- Beverages
- Packaging Film



**Store Outside – Save Floor Space**

**Ideal for Wholesale Clubs/Big Box Retailers/Lawn & Garden Stores/Building Supply Dealers**

**Warranty** – Seller warrants that the products sold hereunder will conform to Seller’s specifications and will be free of defects in workmanship and materials for a period of one (1) year from the date of production. EXCEPT AS EXPRESSLY STATED HEREIN, SELLER MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS DESCRIBED HEREIN. The equipment and procedures utilized to apply the product and environmental conditions are among the factors which may adversely affect the performance of the product. It is essential that the user evaluate whether the product is fit for a particular purpose and user’s method of application.



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