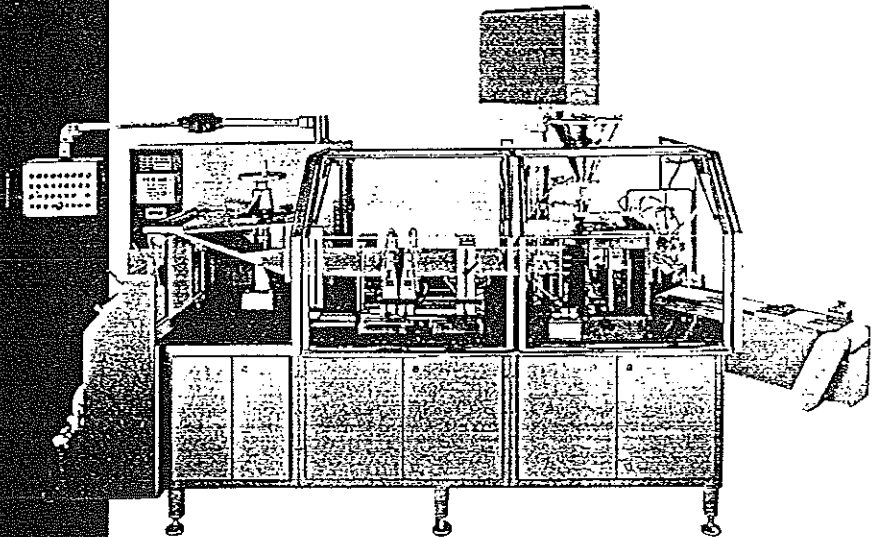
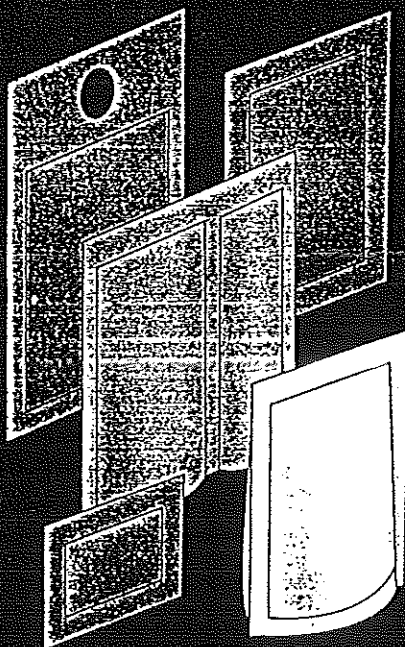


# RPM 100

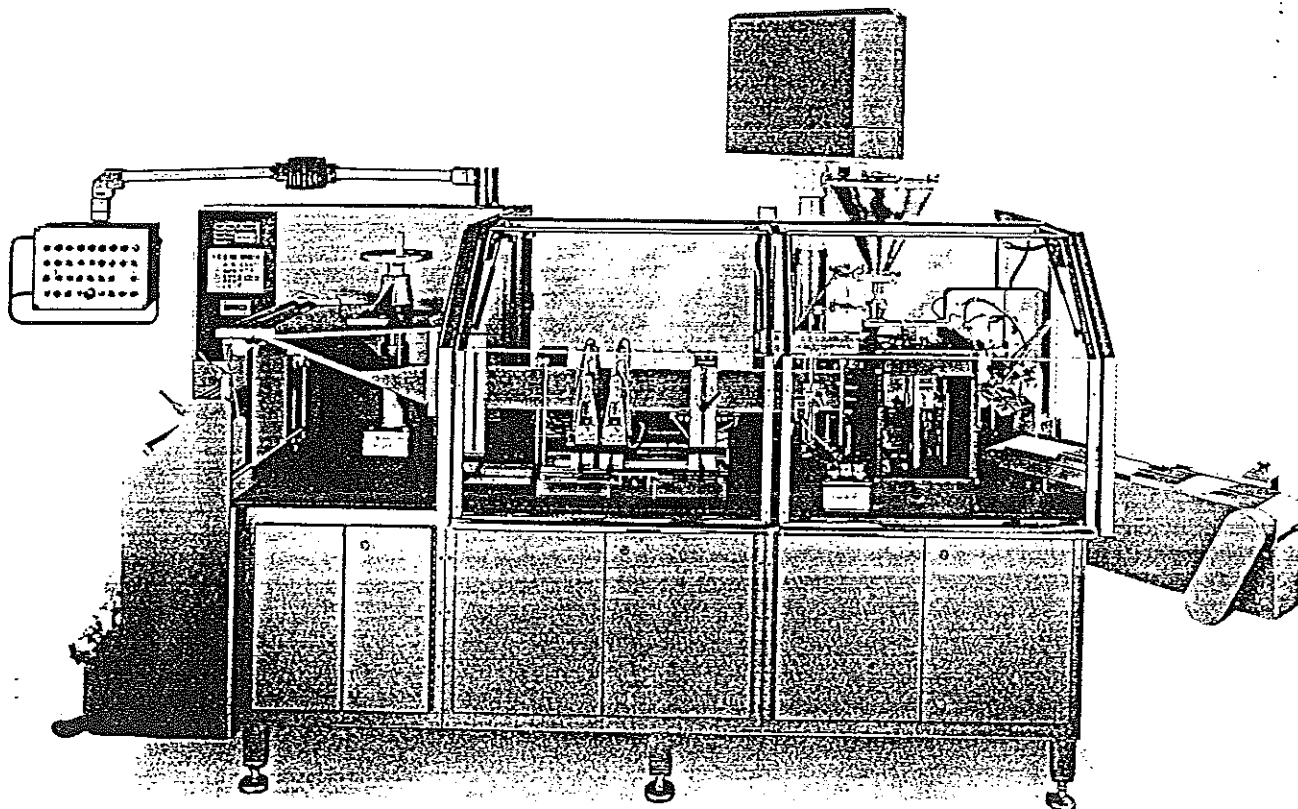


Rotary  
Form/Fill/Seal  
Pouch Packager



**KLÖCKNER**  
**BARTELT**

## THE RPM 100—FLEXIBILITY IN A COMPACT DESIGN



The Klöckner Bartelt RPM 100 packager is an intermittent motion, horizontal form/fill/seal pouch packager. Combining a time-proven in-line pouch forming design with the space saving capability of a rotary turret, the RPM100 packs broad pouch packaging versatility into a compact floorplan with the entire packager occupying less than 45 square feet.

Capable of speeds to 100 single, or 200 duplex pouches per minute, the RPM has two product fill stations for packaging a wide variety of products. Pouches can be formed from a variety of self-supported, heat-sealable laminates including structures containing polypropylene, polyester, foil, paper and many others.

### **Sanitary Design**

Several features contribute to the sanitary design of the RPM. These include an anodized top plate which provides a uniform top surface for easy cleaning. In

addition, all product contact parts are stainless steel or USDA approved plastics.

### **Package Style Flexibility**

The packaging versatility of the RPM is further enhanced by the wide variety of pouches the packager can produce. These include three and four side sealed fin pouches in single or duplex packaging modes. Gusseted pouches and self-standing Delta-Pacs™ can be produced in single pouch mode. In addition, the RPM can produce resealable zipper-type packages using either pre-applied or strip-fed zipper profile.

### **Filling Versatility for a Variety of Products**

The versatility of the filling section is a particular advantage of the RPM. Two product fill stations are incorporated into the eight station rotary turret. These stations can be outfitted with augers, liquid

pumps, volumetric and/or vibratory fillers as well as net weigh scales. For duplex packaging modes, Klöckner Bartelt dual auger fillers maximize efficiency.

This filling versatility enables the RPM to package free-flowing powders, granules, pellets, liquids, creams, pastes, small hard goods and a variety of other components. Typical RPM applications include food products, pharmaceuticals, cosmetics, household and personal care products as well as chemicals.

In addition to the individual pouch packaging capability of the RPM, Klöckner Bartelt engineers can design total packaging systems which incorporate downstream accumulating and collating systems to interface with cartoning, wrapping and bulk packaging systems. This single source systems engineering capability enables Klöckner Bartelt customers to fully capitalize on the versatility of the RPM.

## CONSTRUCTION FEATURES

The RPM 100 Pouch Packager is engineered and constructed to rigorous standards to insure continuous, reliable, trouble-free performance. State-of-the-art technology and components are incorporated to enhance packager efficiency and provide ease of operation throughout.

### Materials

The RPM utilizes a heavy duty design and is constructed of high grade materials for continuous operation. The machine base is constructed of industrial weldment and the packager is finished in rugged Steel-It epoxy. The anodized top plate is  $\frac{3}{4}$ " aluminum and all main drive components are located beneath the top plate.

### Drive System and Motors

The drive system is powered by a 1 HP, totally enclosed variable speed industrial motor. Heavy duty pre-stressed chain is used on all drive components for long lasting, consistent performance. Servo motor technology is incorporated on the draw rollers for repeatable accuracy.

### Electronics & Controls

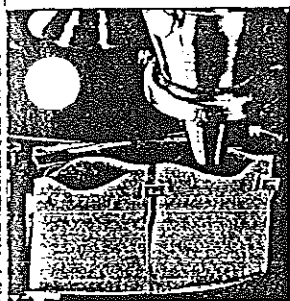
The RPM can utilize a variety of control systems which may be customer specified. Main operator controls are conveniently located on the pendant mounted panel, facilitating operation from any location around the machine. A programmable limit switch enables on-the-run timing adjustments and fast adjustment of specific changeover settings.

### Package Integrity Assurance

A variety of standard and optional features maximize package forming efficiency and insure high quality packages. Among these are pouch presence sensors which confirm pouch presence and integrity. Others include the photo registration features to accommodate registered web, a splice detection system and a "web supply out" interlock which shuts down the packager to avoid the need for rethreading.

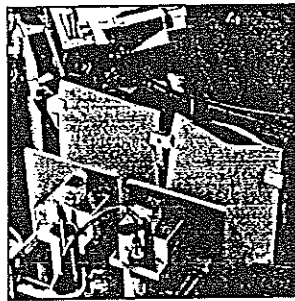
### Maintenance & Safety

The simple design of the packager allows for easy maintenance as all sub-assemblies are accessible to the operator through guard doors beneath the top plate. Cluster lubrication allows for ease of servicing. Barrier guards feature positive contact safety switches which facilitate immediate shutdown when guard doors are opened.



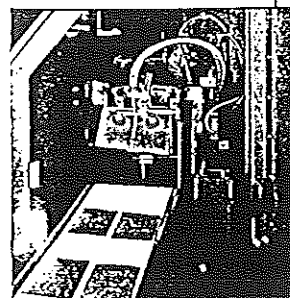
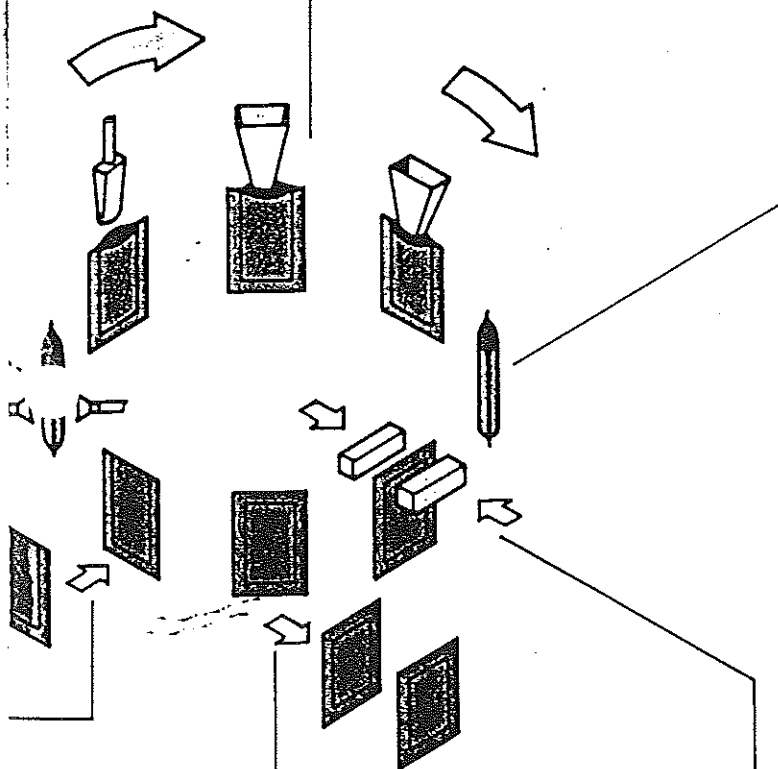
#### FILLING

The fill section accommodates net weigh, auger, volumetric, vibratory and liquid fillers to fill a variety of single and two-component products.



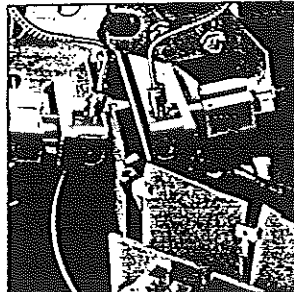
#### POUCH DEFLATION

Tamping paddles gently deflate pouches prior to top sealing.



#### VACUUM PICKOFF AND DISCHARGE

A vacuum pickoff mechanism removes pouches from the dual clamps and places the pouches on a discharge conveyor.



#### TOP SEALING

Opposing heat sealing bars pivot together to form a uniform top seal.

## FEATURES

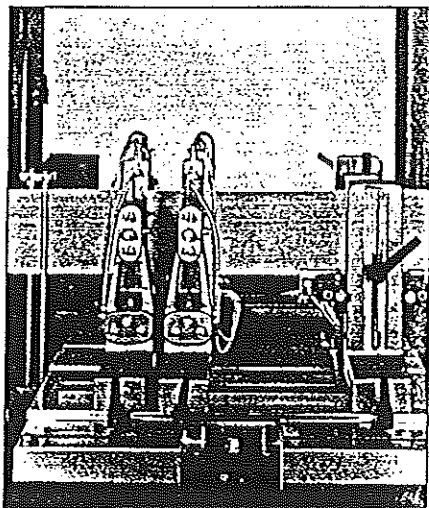
The RPM packager has a variety of features which are designed to deliver ease of operation and packaging versatility.

### **Size Range Versatility and Fast Changeover Features**

The RPM has a broad size range from 2" x 2" (50.8mm x 50.8mm) to 7 1/4" x 10" (184mm x 254mm) on a single model. In duplex packaging modes, the maximum package width is 3 1/2" (90mm). This size range capability enables one packager to produce a variety of products by simply changing over the package size.

Complete size changeovers can be accomplished on the RPM in less than 30 minutes by a single operator. Some of the features included to speed changeover are:

- A pneumatically operated web roll lift to speed web changes.
- Splicing Table.
- A plow height adjustment assembly using a hand wheel for changing pouch height without re-leveling.
- A programmable limit switch for pre-programming timing functions.
- Simple dual pouch clamp design which simplifies changeover from single to duplex packaging modes.

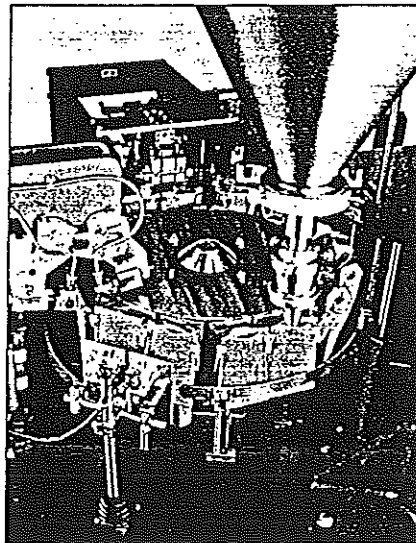


**The Klöckner Bartelt Rapid Change Sealing System**

In addition, the Klöckner Bartelt Rapid Change Sealing System (patent pending) greatly simplifies pouch sealing adjustment. Side and bottom seal bar settings are easily modified as these sealing functions are consolidated on a single platform. This system includes a safety precaution which opens the sealing jaws a full 3" (76.20mm) in the event of a machine stop to prevent web burn.

### **Rotary Design for Compact, Efficient Operation**

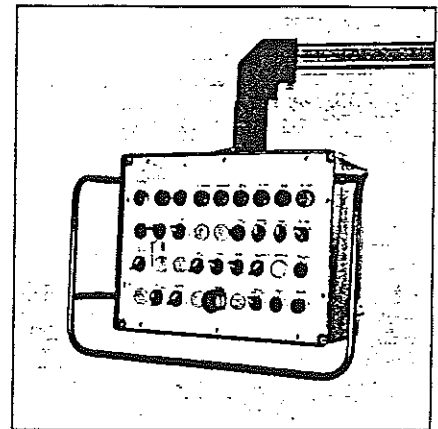
The incorporation of the intermittent motion rotary turret delivers a compact design and versatile operation. The turret utilizes eight stations for package transfer, pouch opening, forming, filling, deflation, top sealing and discharge.



**The RPM Packaging Turret**

### **Convenient Control Locations**

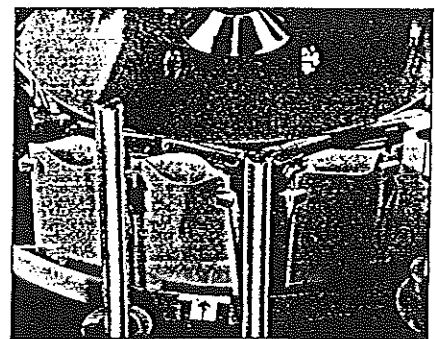
Located on the face of the control cabinet are heat sealing bar temperature controls and a programmable limit switch for on-the-run timing adjustment. Operating controls are conveniently located on a pendent which pivots around the packager to enable operation from nearly any location around the packager.



**The pendent mounted controls are fully accessible.**

### **Dual Pouch Clamps Maximize Package Quality**

One of the main features of the RPM is the use of dual pouch clamps on the rotary turret. Utilized on both single and duplex pouches, the dual clamps maximize pouch control throughout the packaging operation. Furthermore, the use of dual pouch clamps in the top seal section insure wrinkle free top seals, as the clamps pull the package closed prior to top sealing.



**Dual Pouch Clamps Maximize Pouch Control**

A number of other features distinguish the RPM as a reliable and versatile packager. Some of these standard features include:

- Automatic web alignment system.
- Programmable servo driven film advance.
- Photo registration system to accommodate registered web.

### Machine Specifications

#### Pouch Dimensions:

Minimum: 2" (50.8mm) wide x 2" (50.8mm) high  
 Maximum: 7 1/4" (184mm) wide x 10" (254mm) high  
 Gussets: Up to 2" (50.8mm) maximum thickness  
 Maximum roll dia.: 24" (610mm), 3" (76mm) core  
 Maximum roll width: 21" (533mm)

#### Speeds

Up to 100 pouches/minute for single pouches  
 Up to 200 pouches/minute for duplex pouches

\* Depending on product fill and packaging material characteristics.

#### Power

230/460V, 60 Hz, 3-phase. International voltages available.

#### Driver Motor

1 HP, totally enclosed, variable speed industrial motor.

#### Pouch Materials

Most self-supported, heat-sealable laminates including polyesters, polyethylenes, polypropylene, foils, cellophane and paper.

#### Control Air

24 VDC Up to 5 cfm at 60 psi

#### Vacuum

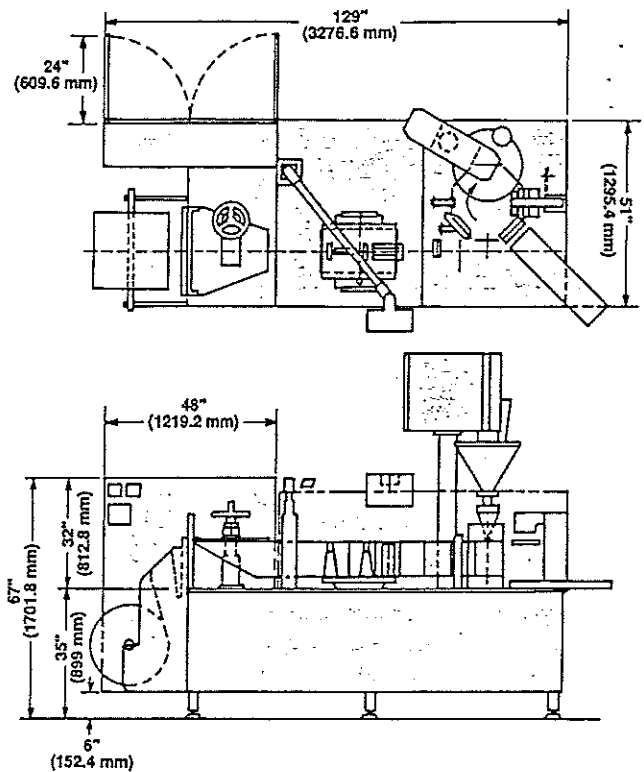
Motor supplied as required

#### Materials and Finishes

Base: Heavy-duty industrial weldment  
 Top Plate: Anodized Aluminum  
 Castings: Grey iron to special alloy as required  
 Paint: Machine primed and painted with high quality  
 Steel-It epoxy as standard finish.

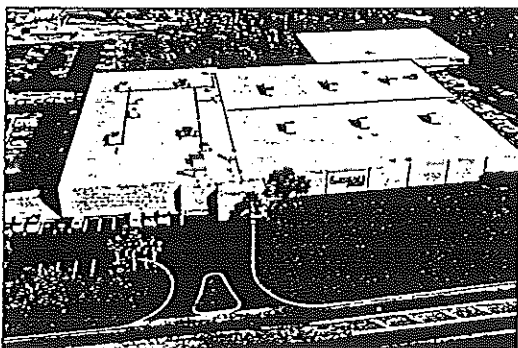
#### Machine Dimensions

Length: 129" (3276.6mm)  
 Width: 51" (1295.4mm)  
 Area: 45.7 Sq. Ft. (4.2 Sq. M.)



### Optional Equipment

- Code daters, printers and debossers
- Special pouch configurations
- Zipper-type resealable packaging capability
- Variety of filling equipment
- Hole punch mechanisms
- Notchers
- Top seal cleaner
- Automatic central lubrication
- Dust collection
- Nitrogen flush system



*Klöckner Bartelt is an established leader in the packaging machinery industry. The company designs and manufactures equipment for cartoning, pouch packaging, filling and many special applications including multi-integrated packaging systems. With over 45 years experience, Klöckner Bartelt has placed over 4000 packaging systems in operation around the world.*

## KLÖCKNER BARTELT

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The types of products pictured in this brochure are capable of being packaged on Klöckner Bartelt equipment. The appearance of any product is not represented to be an endorsement of Klöckner Bartelt equipment by the producers of that product. Any photo shown without guards is shown for illustration only. Complete guard systems are supplied and must be in place before operation. Klöckner Bartelt reserves the right to change or modify specifications without prior notice. Machine changes are the result of continual product improvement.