Net Prodo-Pak®

Prodo-Pak Corporation, 77 Commerce Street Garfield, New Jersey 07026 Phone: 973-777-7770 Fax: (973) 772-0471



HORIZONTAL FORM, FILL AND SEAL MACHINES

TUBE FILLING & SEALING





The <u>Real</u> Leader In Pouch and Tube Filling & Sealing Machinery



LIQUIDS • CREAMS • POWDERS • PASTES • PORTION PAKS • CONDIMENTS • TABLETS • OINTMENTS • GRANULAR & SEMI-VISCOUS PRODUCTS



PHARMACEUTICALS • COSMETICS • **DENTIFRICE • FOOD • CHEMICALS** A wide range of quality machines specifically designed to meet your most demanding requirements, including:

• Prodo-Pak's vertical and horizontal form, fill

and seal machines are capable of producing pouches at rates from 20 to 2000 per minute.

• The pouches can be filled with a wide range of products such as:

• liquids • creams • gels • pastes • powders • ointments • condiments • granular & semi-viscous products • tablets • towelettes

• Pouch styles: • three and four sided seal • pillow packs • standup • and flat bottom in small portion packs or large bulk bags.

• **Tube fillers** are compatible with metal, plastic, and laminate tubes. (A wide range of tube diameters and lengths as well as fill volumes can be accommodated. Several product pump styles are also available to meet specific product characteristics.)

• High speed labeling of cans, jars, and bottles.

Our experienced sales and technical personnel are available to assist you in evaluating your application, and to recommend the equipment which best meet your requirements. Prodo-Pak offers demonstration and testing of your products and packaging materials at our facility in Garfield, New Jersey.



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HORIZONTAL

FORM, FILL AND SEAL MACHINES

TUBE FILLING & SEALING

PRODUCT TESTING TRIAL RUNS

> SALES & SERVICE

VERTICAL Form, Fill and Seal Machines

Prodo-Pak's Vertical series machines are designed, built and serviced by American craftsmen for the highest quality four-sided pouch-forming.

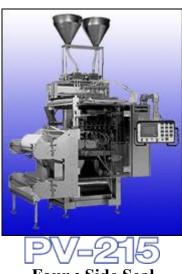
For more information on a particular machine, click on the corresponding photo below.





Vertical/Form/Fill/ Seal Machine Rotary Seal Die Vertical Form, Fill and Seal Machine.

The new model RV-165 features dual axis servo driven rotary heating sealing dies in an intermittent or continuous motion format. It is designed to produce four-sided sealed pouches in multiples of two or twelve across the die face at a rate of 100-1,000 pouches/min. Ideal with the addition of one of Prodo-Pak's many standard fillers or dosing systems, the RV-165 offers the highest quality packaging of tablets, capsules, medical devices, swabs and towelletes, and is ideal for free flowing powders and granular products.



Four • Side Seal Packaging

Platen Seal Die Vertical Form, Fill and Seal Machine.

The PV-215 offers the highest quality four-sided pouch-forming of portion packs or institutional size bags up to 5 gallons such as**liquids, powders, condiments (mustard, catsup, salad dressing) and granulated products** (free flowing and non-free flowing).Features include microprocessor machine control and digital solid state proportioning temperature controllers for accurate heat control on both vertical and horizontal sealers.

2		CAPACITY	FLAT POUCH DIMENSIONS
		1 Pint 1 Quart 2 Quarts 1 Gallon 2 Gallons	5" x 8" 7.25 x 9" 10" x 12" 12" x 14" 10.5" x 16" 12" x 18 " 14" x 16"
		3 Gallons 5 Gallons (METRIC)	14" x 21" 16" x 20" 15" x 28" 16" x 24"
		800 ml 1 Liter 2 Liters	7.25" x 9" 7.25" x 10" 10" x 12"
		4 Liters 5 Liters 12 Liters	10" x 12" 12" x 14.5" 10.5" x 16" 13" x 16" 10.5" x 18" 14" x 28" 16" x 24"

FLAT POUCH CAPACITY GUIDE



Platen Seal Die Vertical Form, Fill and Seal Machine.

Platen Seal Die Vertical Form, Fill and Seal Machine Prodo-Pak's Model PV-250 filler is the most advanced form/fill/seal packaging machine available in the food and beverage industry. It is capable of filling flexible containers ranging in size from 4 oz (120 ml.) to 384 oz. with **sauces**, **catsup**, **relish**, **juice**, **drinks**, **wine**, **tomato paste**, **sliced pickles**, **paint**, **industrial adhesives**, **and more**. A wide range of standard and custom designed dispensing valves and fitments can be utilized.

Our experienced sales and technical personnel are available to assist you in evaluating your application, and to recommend the equipment which best meet your requirements. Prodo-Pak offers demonstration and testing of your products and packaging materials at our facility in Garfield, New Jersey.

Prodo-Pak[®] RV-165

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> VERTICAL FORM FILL AND SEAL MACHINES

NEW! Servo Vertical/Form/Fill/ Seal Machine

Rotary Seal Die Vertical Form, Fill and Seal Machine.



STANDARD FEATURES:

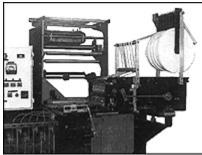
- The Model RV-165 can be equipped to package liquids, creams, ointments,tablets, powders, and granular products with the addition of one of the many standard fillers or dosing systems manufactured by Prodo-Pak.
- Production rates of 100 to 1000 pouches per minute are possible.
- Pouch sizes can range from .50 to 16.5 inches in width however, virtually any pouch length can be accomodated with simple panel mounted adjustment of the servo control for the horizontal sealing die.

• A wide variety of thermoplastic, laminate, and co-extruded films are

compatible with the resistance heat sealing technology incorporated in the RV-165.

- Registered printing on a single side or the front and back panel is available.
- Servo controlled package length and cut-off control.





Towellete Folding Assembly





- Maximum Web Width 33 inches
- Maximum Roll Diameter 20 inches
- Film Web Cores 3(to 6(
- Cycle speed to 150 per minute
- Minimum pouch width .075 inches
- Minimum pouch length 1.0 inches
- Maximum pouch width 16.5 inches
- Maximum pouch length
- (infinite)
- Servo driven rotary seal dies
- Servo driven cutting dies
- Microprocessor machine control



Tablet Feeding Attachment

OPTIONAL ACCESSORIES

- Volumetric slide gate and cup fillers
- Tablet and capsule feeders
- Net weight scales
- Auger fillers
- Swab and pad feeders
- Positive displacement piston pumps
- Slitters and Perforators
- Hole Punches
- Tear notchers
- Coders and Printers
- Photoelectronic print registration, one or both panels
- Special design, custom feeders
- Die cut pouch shapes

Prodo-Pak[®] PV-215

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> VERTICAL FORM FILL AND SEAL MACHINES

Four • Side Seal Packaging

The model PV-215. Designed, built and serviced by American craftsmen for highest quality four-sided pouchforming. Especially suitable for liquids, semi-liquids, powders,

portion paks of condiments (mustard, catsup, salad dressing) and granulated products (free flowing and non-free flowing).



STANDARD FEATURES:

- Digital solid state proportioning temperature controllers for accurated heat control on both vertical and horizontal sealers with individual indicators.
- Easily adjustable vertical sealers accommodate package width changes. No additional parts needed. Pivoted platen sealer assembly offers excellent accessibility.
- Single side or front and back registration.
- User friendly adjustable web tracking system.
- Bag stripper assembly to ensure positive cutoff and bag release.
- Microprocessor machine control





COMPATIBLE COMBO CAPABILITY

Two different products in same packages at same time. Such as peanut butter and jelly, shampoo and conditioner, oil and vinegar, salt and pepper.



UTILITIES

ELECTRICAL: 208/220V, 3 Phase, 60 Hz 40 Amp service

AIR: 40SCFM of free air @ 100psi

SPECIFICATIONS

- 43" Maximum web width
- 20" Maximum OD
- 3" or 6" core ID
- Package length to 18"
- Speeds to 70 CPM

OPTIONAL ACCESSORIES

- Operator Interface Touch Screen Machine Control
- Positive Displacement Piston Pumps for filling liquids
- Auger Filler
- Net Weight Scales
- Volumetric cup filling
- Vibratory Feed
- Special Feeders to provide custom designed feeders of unusual products
- Coders of Imprinters
- Perforators
- Slitters
- Hole Punch
- Tear Notcher

Prodo-Pak[®] PV-250

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> VERTICAL FORM FILL AND SEAL MACHINES

Platen Seal Die Vertical Form, Fill and Seal Machine

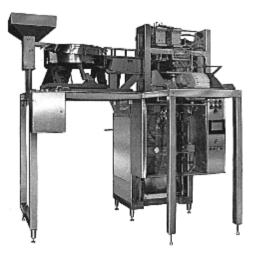
The Model PV-250 filler is the most advanced form/fill/seal packaging machine available in the food and beverage industry. A wide range of standard and custom designed dispensing valves and fitments can be utilized.

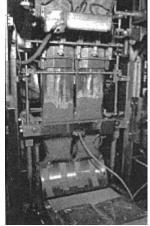


STANDARD FEATURES:

- Four sided for the package
- Multiple webs of one to five independent plys
- Fully interchangeable fill head assemblies for fluids, concentrates, and particulates
- Positive volumetric filling control
- Stainless steel construction
- Integral, online check weighing

- Variable film feed location
- Package width to 25.0" (57.15 cm)
- Package length to 18" (45.7 cm)
- Digital solid state proportioning temperature controllers for accurate heat control on both vertical and horizontal sealers with individual indicators.
- Microprocessor machine control





Two 100 oz. pouches of taco sauce being hot filled with each cycle.



UTILITIES

ELECTRICAL: 208/220V, 3 Phase, 60Hz 40 Amp service AIR: 40SCFM of free air @ 100psi

SPECIFICATIONS

- 25" Maximum web width
- 20" Maximum O.D.
- 3" or 6" core ID
- Package length to 24"

OPTIONAL ACCESSORIES

- Operator Interface Touch Screen Machine Control
- Placement of dispensing fitment or valve on packaging in one-up to two-up configurations.
- Full support of package and contents during filling.
- Seal cooling prior to filling (optional).
- Special feeders to provide custom designed feeders of unusual products.
- Coders or imprinters
- Hole Punch



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HORIZONTAL Form, Fill and Seal Machines

Our horizontal series automatically **packs powders, grains or liquids** in sachets of three or four seals. Starting from a reel of heat-sealable material, in intermittent cycles all models make, fill and seal the sachet. Available with volumetric cup fillers, auger fillers, gravity or piston pumps, and tablet feeders to package a broad range of products.

For more information on a particular machine, click on the corresponding photo below.



Horizontal Form, Fill and Seal Machine.

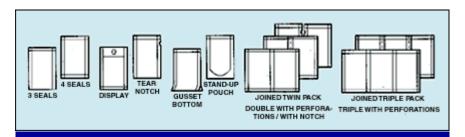
The new, compact Model H-110 is an economical intermittent motion, variable speed machine designed for producing three or four sided seal pouches for liquids, pastes, powders and granular products.Compact design occupies less than 2 sq. ft. of floor space. Pouch sizes can be adjusted from a minimum size of 1.25" x 1.25" to a maximum size of 4.5" x 5.25"



Horizontal Vertical Form, Fill and Seal Machine

The model H-140 is a new addition to the Prodo-Pak line of form / fill and seal packaging machinery. It is a horizontal, intermittent motion, variable speed machine designed for producing three or four sided seal pouches, and can **package virtually any type of product, including tablets, small parts, and towelettes.**

HORIZONTAL POUCH STYLES



Our experienced sales and technical personnel are available to assist you in evaluating your application, and to recommend the equipment which best meet your requirements. Prodo-Pak offers demonstration and testing of your products and packaging materials at our facility in Garfield, New Jersey.

Prodo-Pak® H-110

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> HORIZONTAL FORM, FILL AND SEAL MACHINES

Horizontal Vertical Form, Fill and Seal Machine

The Model H-110. Designed for packaging powders, grains or liquids in sachets with three or four seals. Compact design occupies less than 12 sq. ft. of floor space. Pouch sized can be adjusted from a minimum size of 1.25" x 1.25" to a maximum size of 4.5" x 5.25"



STANDARD FEATURES

- Compact design occupies less than 12 square feet of floor space
- Pouch sized can be adjusted from a minimum size of 1.25" x 1.25" to a maximum size of 4.5" x 5.25"
- The standard machine is capable of producing 110ppm and a twin or duplex conversion doubles this output
- Variable speed A.C. DRIVE
- Precision cam controlled operation
- Intermittent machine motions
- Protective guards with electrical interlocks

OPTIONAL ACCESSORIES

- Liquid, pastes, powders, and granular products can be packaged by selecting the piston pumps, servo driven augers or volumetric adjustable cup product dosing units.
- Special counters for pills, tablets, and small parts.
- A towelette folding and cutting unit can be adapted to the Model H-110.
- Optional features include tear notching, display hole punches, date and batch coding, and gas flushing.
- Tablet and pill counters and dispensers
- Sealing jaw for fourth seal.
- Coder.
- Sachet counting and grouping conveyor.

- Machine cycle counter.
- Notch device for easy opening
- of sachet.
- Neutral gas flushing.
- Device to produce strips of sachets.
- Products stirrers in hopper 0.125 HP.
- Vibrator to ease product fall.
- Exhaust equipment with product recovery.
- Hopper level probe.
- Display hole punching equipment.
- Filler for grains (volumetric type).
- Filler for powders (auger type).
- Filler for liquids.
- Filler for pastes.

TECHNICAL DATA	H-110	H-110 DUPLEX			
Output	Up to 100 sachets/min	Up to 220 sachets/min.			
Sachet dimensions	Min 1.25" x 1.25" Max. 4.5" x 5.25"	Min. 1.25" x 1.25" Max. 2.5" x 5.25"			
Volume	2.5 to 60 cc	1.5 to 20 cc			
Consumption	1.6 KVA	2.2 KVA			
Operators	1 operator	1 operator			
Weight	Net 995 lbs	Net 995 lbs.			
H-110		H-110/DUPLEX			

TECHNICAL DESCRIPTIONS: MOD. H-110 AND H-110/D/DUPLEX

The automatic machines of series H-110, were designed for packing powders, grains or liquids in sachets with three or four seals.

Starting from a reel of heat-sealable material, it folds the film into a "V" shape. In intermittent cycles, by means of sealing jaws, it makes, fills and seals the sachet.

It may fill volumetrically by interchangeable telescopic cups, by auger filler, by counter, by pump for liquids, etc., depending on the product's characteristics.

The sachets are transported together in a strip, via intermittent motion.

At the end of the cycle, they are cut in units, by means of two blades acting as scissors.

After this, they are prepared for being counted, grouped and boxed.

Prodo-Pak® H-140

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Horizontal Vertical Form, Fill and Seal Machine

The Model H-140. The automatic machines of series H-140 are designed for packing powders, grains or liquids in sachets with three or four seals. This machine with its intermittent motion and variable speed is ideal for producting pouch sized that can be adjusted from a minimum of 2.75" x 4.0" to a maximum of 5.5" x

80."



STANDARD FEATURES:

• Can be equipped with a variety of product feed systems including Positive Displacement Piston Pumps, Time Pressure,

Volumetric Adjustable Cup, or Powdered

- Auger Filters.
- Virtually any type of product can be packaged including tablets, small parts, and towelettes.
- Compact design occupies less than 12 square feet of floor space.
- The standard machine is capable of producing 100ppm and a twin or duplex conversion doubles this output.
- Variable speed A.C. DRIVE.
- Precision cam controlled operation.
- Intermittent machine motions.
- Protective guards with electrical interlocks.
- Programmable Logic Controller (PLC)

HORIZONTAL FORM, FILL AND SEAL MACHINES

OPTIONAL ACCESSORIES

- Tear notching.
- Display hole punches.
- Date and batch coding.
- Sealing jaw for fourth seal.
- Coder
- Sachet counting and grouping conveyor.
- Machine cycle counter.
- Notch device for easy opening of sachet.
- Neutral gas flushing.
- Device to produce strips of sachets.
- Product stirrers in hopper
- 0.125 HP.

- Vibrator to ease product fall.
- Exhaust equipment with product recovery.
- Hopper level probe.
- Display hole punching equipment.
- Filler for grains (volumetric type).
- Filler for powders (auger type).
- Filler for liquids.
- Filler for pastes.
- Stand up pouch style.

TECHNICAL DATA	H-140	H-140/DUPLEX				
Output	Up to 100 sachets/min	Until 200 sachets/min.				
Sachet	Min 2.75 x 4.0"	Min. 2.0" x 4.0"				
dimensions	Max. 5.5" x 8.0"	Max. 2.75" x 8.0"				
Volume	5 to 250 cc	5 to 90 cc				
Consumption	2.05 KVA	3.15 KVA				
Operators	1 operator	1 operator				
Weight	Net 1,225 lbs	Net 1,225 lbs.				
H-140 H-140/DUPLEX						

TECHNICAL DESCRIPTIONS: MOD. H-140, H-140/D and Duplex

The automatic machines of series H-140, were designed for packing powders, grains or liquids in sachets with three or four seals.

Starting from a reel of heat-sealable material, it folds the film into a "V" shape. In intermittent cycles, by means of the sealing jaws, it makes, fills and seals the sachet.

It may fill volumetrically by interchangeable telescopic cups, by auger filler, by counter, by pump for liquids, etc., depending on the product's characteristics.

In this model, the sachets are formed and cut in units. At the following stations, they are opened, filled and sealed in a fully automatic process.

After this, they can be prepared for counting, grouping and boxing.

Prodo-Pak[®]

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Automatic & Semi-Automatic Tube Filling & Sealing

Ideal for all liquids, creams, pastes and semi-viscous products Prodo-Pak offers the finest Semi-Automatic and Automatic tube filling and sealing machines today. Our Model T-30 and T-60 machines are ideal for filling and sealing metal, plastic and laminate tubes. Features include variable speed, intermittent motion, precision cam controlled operation, precise control of fill volumes, output up to 60 cycles/min.- and more.



The T-30, featuring output up to 30 cycles/min., a variable speed drive, and precision cam-controlled operation - and more - **is ideal for all liquids, creams, pastes and semi-viscous products** for use in a wide variety of industries including pharmaceuticals, cosmetics, dentrifice, food and chemicals





In addition to many of the features offered by the T-30, the T-60 features output up to 60 cycles/min., automatic tube placement, - and more. And, much like the T-30, the T-60 **is ideal for all liquids, creams, pastes and semi-viscous products** for use in a wide variety of pharmaceutical, personal care, food and chemical industries.

	Tube Diameter (Inches)									
Fluid ounces	5/8	3/4	7/8	1	1 3/16	1 3/8	1 1/2	1 5/8	2	cc (App.)
1/4	2 1/2	2								7
1/3	3	2 1/2								10
1/2		3 1/4	2 5/8							15
3/4		4 1/8	3 3/8	3	2 1/2					22
1			4 1/4	3 5/8	2 7/8	2 5/8				30
1 1/4			5 1/8	4 1/4	3 3/8	2 7/8				37
1 1/2				5	3 7/8	3 1/4	3			45
1 3/4				5 5/8	4 1/4	3 1/2	3 1/4			52
2					4 3/4	3 7/8	3 1/2			60
2 1/2					5 5/8	4 1/2	4	3 5/8		75
3					6 5/8	5 1/4	4 1/8	4 1/8		90
3 1/2						5 7/8	5 1/8	4 1/2		105
4						6 1/2	5 5/8	5	4 3/8	120
5						7 5/8	6 5/8	5 7/8	5	150
6							7 7/8	6 3/4	5 5/8	180
7								7 7/8	6 1/4	210
8									7	240
9									7 5/8	270
Tube Diameter (mm's)										
	16	19	22	25	30	35	40	42	50	

Plastic Tube Fluid Capacity Guide (standard orifices & standard tube diameters)

Tube sizing assumes a 5% overall rounded up to the next 1/8" allowance for seal (width). Void volume of tube heads in not included in sizing.

Our experienced sales and technical personnel are available to assist you in evaluating your application, and to recommend the equipment which best meet your requirements. Prodo-Pak offers demonstration and testing of your products and packaging materials at our facility in Garfield, New Jersey.

Prodo-Pak® T-30

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TUBE FILLING

& SEALING

SEMI-AUTOMATED Tube Filler & Sealer

The Model T-30. The finest semi-automatic tube filling and sealing machine available today. Designed, built and serviced by American craftsman for the highest quality workmanship and performance. Ideal for all liquids, creams, pastes and semi-viscous products for use in a wide variety of industries including pharmaceuticals, cosmetics, dentifrice, food and chemicals.



STANDARD FEATURES:

- Output up to 30 cycles per minute
- Variable speed drive
- Intermittent motion, single station rotary table layout
- Precision cam-controlled operation
- Precise control of fill volume
- No tube/ no fill
- Auto ejection of filled tubes sealed end first
- One set of size parts with PVC tube holders
- CAMCO indexer, six position rotary table
- Stainless steel product hopper polished inside 10 gallon capacity

- Choose from a wide range of standard dosing pumps including positive displacement piston, peristoltic style, gear and time pressure
- Welded tubular steel frame base, machine painted in "Steel-it" stainless steel paint
- Manual tube loading and print orienting into tube-holders
- Lifting of the tube under the nozzle for bottom up filling
- Nozzle with positive shut-off for stringing products
- Folding heads for metal tubes

with single or double fold

- Modular design allows for easy access to all components
- Hand wheel for manual cycling during set-up and testing







UTILITIES

ELECTRICAL: 110 V, 1 phase, 60Hz or 208/220 V, 3 Phase, 60Hz, 30 Amp service NEMA 4 electrical enclosure

SPECIFICATIONS:

- Speeds to 30 tubes per minute
- Tube length minimum 2.25" (60mm) and maximum 10" (255 mm)
- Tube diameter minimum .25" (6.5mm) and maximum 2.0" (51mm)
- Fill volumes (standard) .25 ounces minimum and maximum
- 12 ounces plus or minus .1%

OPTIONAL ACCESSORIES

- Complete set of size-parts for additional tube size, including nozzle and tube holders
- Filling nozzle with blow-of insert for positive shut-off with compressed air
- Product mixing unit for hopper with feed screw and scraper
- Water jacketed thermostatically controlled stainless steal product hopper. 10 gallon capacity
- Manifold for direct feeding of the product instead of a hopper
- Hopper cover of stainless steel
- Coding digits letters or numerals
- Machine finish in stainless steel with some parts treated with non-corroding finish (no exposed painted surfaces)
- Embossing block with spacers and digits for coding of the sealed area on one or both sides of tube
- Sealing group for plastic or laminate tubes using heated jaws including a tube seal trimming station
- Ultrasonic sealer for plastic and laminate tubes
- Hot air sealer for plastic and laminate tubes



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TUBE FILLING

& SEALING

COMPLETELY AUTOMATED Tube Filler & Sealer

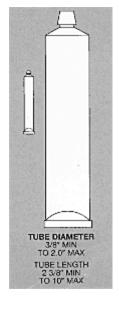
The Model T-60. The finest automatic tube filling and sealing machine available today. Designed, built and serviced by american craftsman for the highest quality workmanship and performance. Ideal for all liquids, creams, pastes and semi-viscous products for use in a wide variety of industries including pharmaceuticals, cosmetics, dentifrice, food and chemicals.



STANDARD FEATURES:

- Output up to 60 cycles per minute
- Variable speed drive AC variable frequency
- Intermittent motion, single station rotary table layout
- Precision cam controlled operation
- Automatic tube placement
- Precise control of fill volumes
- Product contact part of 316 stainless steel
- Tube filling by diving nozzle

- No tube / No fill
- Electrical interconnect for operation and other packaging machinery
- Automatic ejection of filled tubes, sealed end first
- Tube length, minimum 60mm (2 3/8" maximum 250mm (10")
- Fill volume (standard) minimum .05
- oz., maximum 12.0 with plus or minus .3% accuracy
- P.L.C. machine controls



STANDARD EQUIPMENT

- size parts for tube size and one filling product
- Nine (9) working stations available
- Rotary table indexer with variable speed 1.5 HP, AC drive
- Automatic tube loading device from inclined plane with automatic tube placement
- Tube seating device for positive placement of tubes in holers.
- Photo-electric tube print registration before filling for maximum accuracy
- Overload protection on pump drive
- Overload protection on tube sealing group
- Stainless steel volumetric dosing group for filling volume;

Range A: .05 oz to 1.15 oz Range B: .40 oz to 8.0 oz Range C: 2.0 oz to 12.0 oz

• Filling nozzle with insert for positive shut-off and air blow

to eliminate product "stringing"

- OMRON Programmable Logic Controller
- Jogging control with remote cable for set-up and testing
- Protective covers an Lexan safety guards with electric inter locks to prevent machine operation when opened or removed
- Plastic and laminate tube sealing with two station heated

jaws, one cooling and one trim station

- Coding one side not including code digits.
- One manual, adjustment tools, and wear parts.

OPTIONAL EQUIPMENT AVAILABLE FROM PRODO-PAK

- Product scraper stirrer, 50 RPM
- Split cams hardened steel
- Fully automatic tube infeed by cassette if ordered in place of the semi-automatic infeed for incline plane.
- Mechanical safety joint for main drive of the indexing table

AIR REQUIREMENTS • 80 PSI ELECTRICAL EQUIPMENTS • 220 Volt, 3 Phase, 60 Cycle