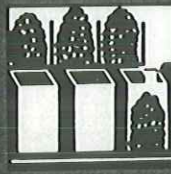
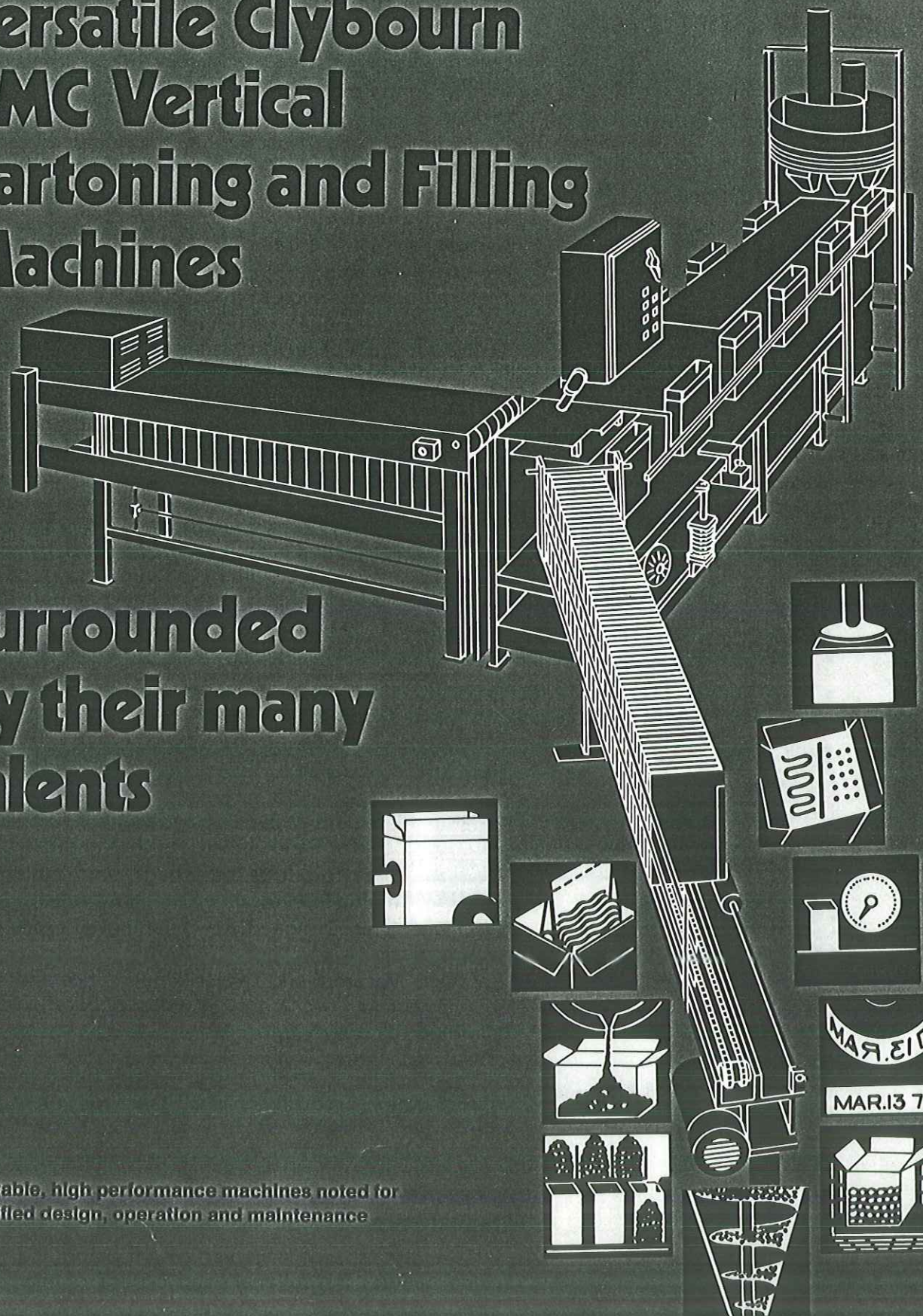
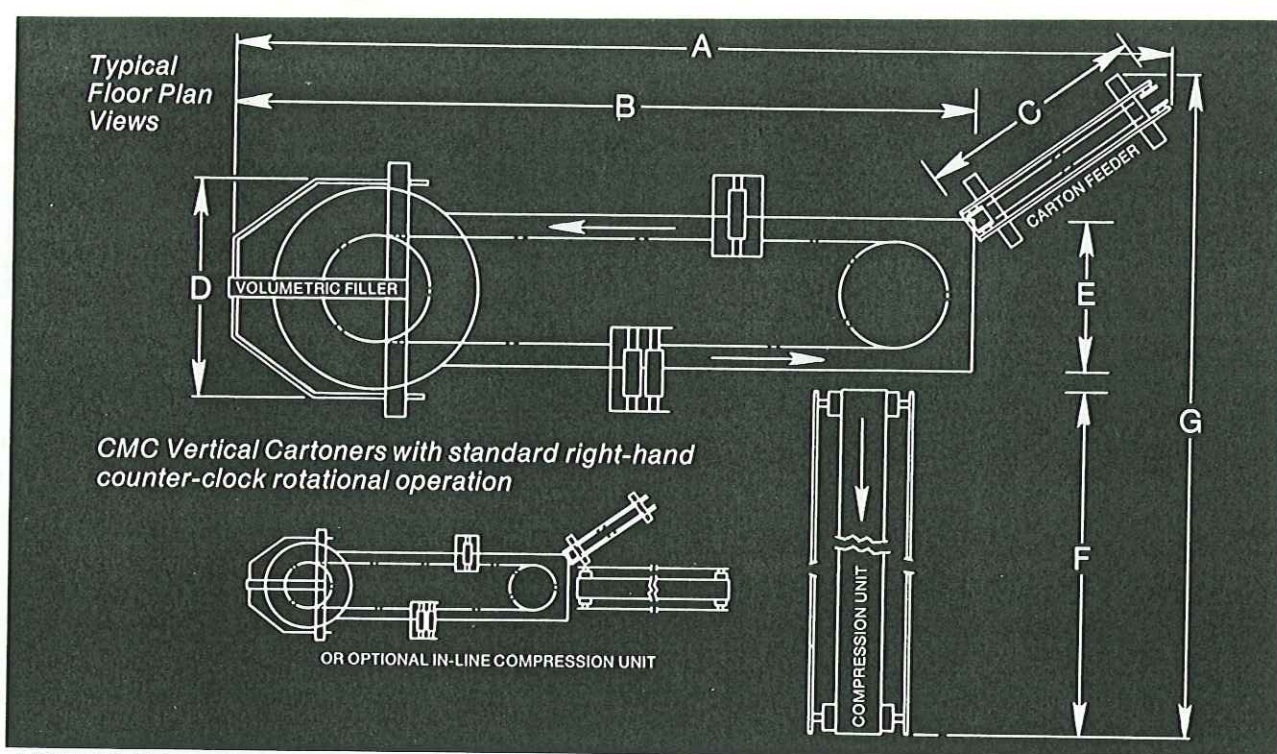


Presenting the versatile Clybourn CMC Vertical Cartoning and Filling Machines

Surrounded by their many talents

Adaptable, high performance machines noted for
simplified design, operation and maintenance





TYPICAL MACHINE DIMENSIONS

CMC Vertical Cartoner Models	A	B	C'	D	E	F	G	A	B	C'	D	E	F	G
	(feet)							(meters)						
AH-6, 8 & 16	9'9"	6'5"	5'1"	2'0"	1'6"	—	5'6"	3.0	2.0	1.6	0.6	0.5	—	1.7
C-4, 8, 12 & 16	13'9"	9'2½"	5'9"	2'6"	1'6"	11'6"	17'8"	4.2	2.8	1.8	0.8	0.5	3.5	5.4
CHL & C-4HL	20'0"	15'5½"	5'9"	2'6"	1'6"	11'6"	17'8"	6.1	4.7	1.8	0.8	0.5	3.5	5.4
C-7 & 14	16'0"	11'6"	5'9"	3'4"	2'6"	15'6"	22'8"	4.9	3.5	1.8	1.0	0.8	4.7	6.9
D-4	19'3"	16'1"	6'3"	3'9½"	2'6"	22'2"	30'7"	5.9	4.9	1.9	1.2	0.8	6.8	9.3

Notes:

- Includes 7 ft. (2.1 m) extended frame for handloading and/or special feed attachments; optional 10 ft. (3.0 m) extended frame is also available.
- Standard carton supply magazines provide capacity for approximately 1,000 cartons, depending on thickness of material; optional 3 ft. (0.9 m) extended magazines are available for approximately 1,500 carton capacity.
- Standard compression units provide appr. 30-45 sec. carton drying time; optional 5 ft. (1.5 m) extended compression units are available for longer drying time.
- CHL & C-4HL — identical to Model C-4 in performance. Dimensionally these machines are longer to accommodate handloading or additional product feed systems.

TYPICAL MACHINE ELEVATIONS

CMC MODELS	AH-6, 8 & 16		C-4, 8, 12 & 16		CHL & C-4HL		C-7 & 14		D-4	
Carton Top score line	3'3½"	1.0 m	3'5¼"	1.1 m	3'5¼"	1.1 m	3'5¼"	1.1 m	4'¾"	1.2 m
Top of machine (over volumetric filler)	6'2"	1.9 m	6'10"	2.1 m	6'10"	2.1 m	6'10"	2.1 m	7'3"	2.2 m

CARTON STYLES

- Straight & Reverse tuck end
- Standard & Economy flap seal end
- Van Buren Ears and zip opening tab features
- Special reverse fold sequence seal end
- Window
- Partitioned
- Extended flap
- Fifth panel
- E flute corrugated

STANDARD ELECTRICS

Main power 230-460 volt, 3 phase, 50-60 Hertz
Controls 115 volt, single phase, 50-60 Hertz
Machines wired to NEC and NEMA-12 minimum standards.
UL approval available.
All electrical voltages available.

Vertical cartoning and filling machines to meet specifications not shown here available upon request.

STANDARD CARTON SIZE AND SPEED RANGES

CMC Models	L x W x H (inches)	L x W x H (millimeters)	
AH-6	min ¾ x ¾ x 2¾"	19 x 9 x 69"	80-200
	max 4 x 1¼ x 7½"	100 x 31 x 188	
AH-8	min ¾ x ¾ x 2¾"	19 x 9 x 69"	100-250
	max 2½ x 1¼ x 7½"	63 x 31 x 188	
AH-16	min ¾ x ¾ x 1½"	19 x 9 x 38	160-400
	max 1½ x 1 x 7½"	38 x 25 x 188	
C-4	min 1 x ¾ x 4¼"	25 x 19 x 106"	40-100
	max 8¼ x 3¼ x 11¼"	206 x 81 x 281	
C-8	min 1 x ¾ x 4¼"	25 x 19 x 106"	80-200
	max 4 x 2½ x 8	100 x 63 x 200	
C-12	min 1 x ¾ x 4¼"	25 x 19 x 106"	120-300
	max 2½ x 2½ x 8	63 x 63 x 200	
C-16	min 1 x ¾ x 4¼"	25 x 19 x 106"	140-350
	max 1½ x 1½ x 8	38 x 38 x 200	
C-7	min 2 x ¾ x 4¼"	50 x 19 x 106	75-190
	max 8¼ x 3¼ x 11¼"	206 x 81 x 281	
C-14	min 2 x ¾ x 4¼"	50 x 19 x 106	120-300
	max 4 x 2 x 11¼"	100 x 50 x 281	
D-4	min 5 x 2 x 6½"	125 x 50 x 163	30-75
	max 10 x 5 x 14	250 x 125 x 350	

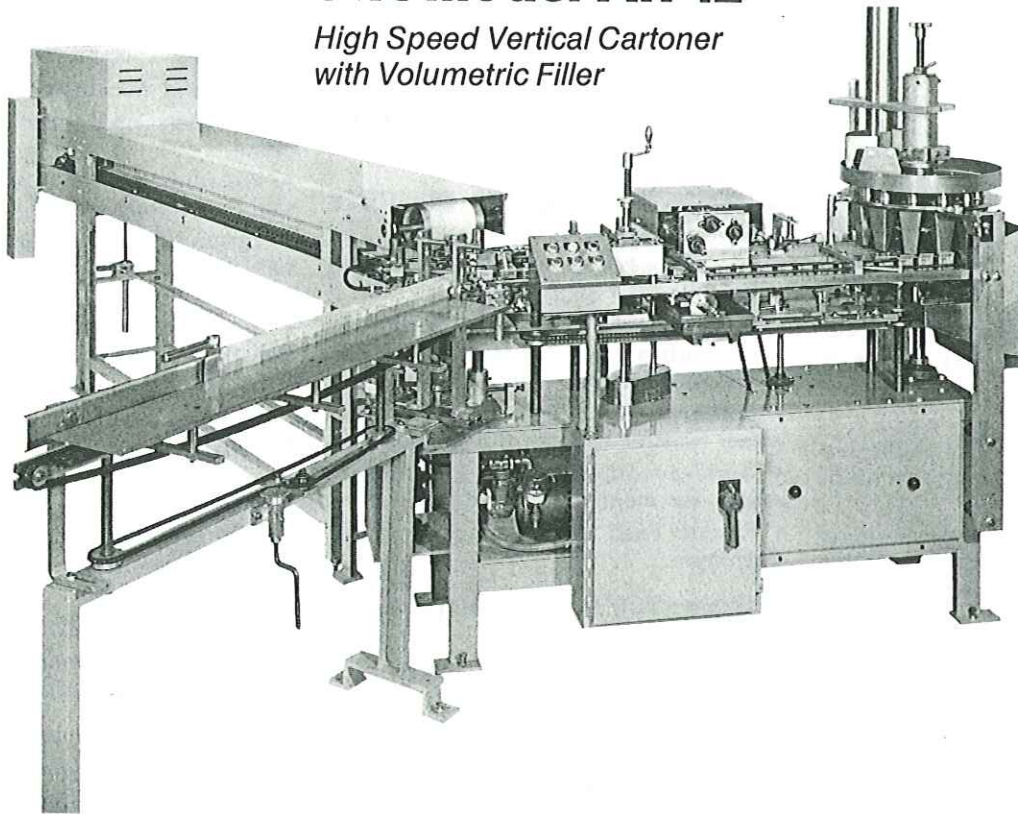
Notes: Ranges include related extended HL and special S models.
*Special adaptations reduce cartons minimum height dimension to 1½" (38 mm) and
**To 3" or 2" (75 mm or 50 mm) for seal end style cartons only.
D-4 max. width dimension is 4" (100 mm) with T-slotted carton pockets.



CLYBOURN MACHINE COMPANY
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(312) 677-7800

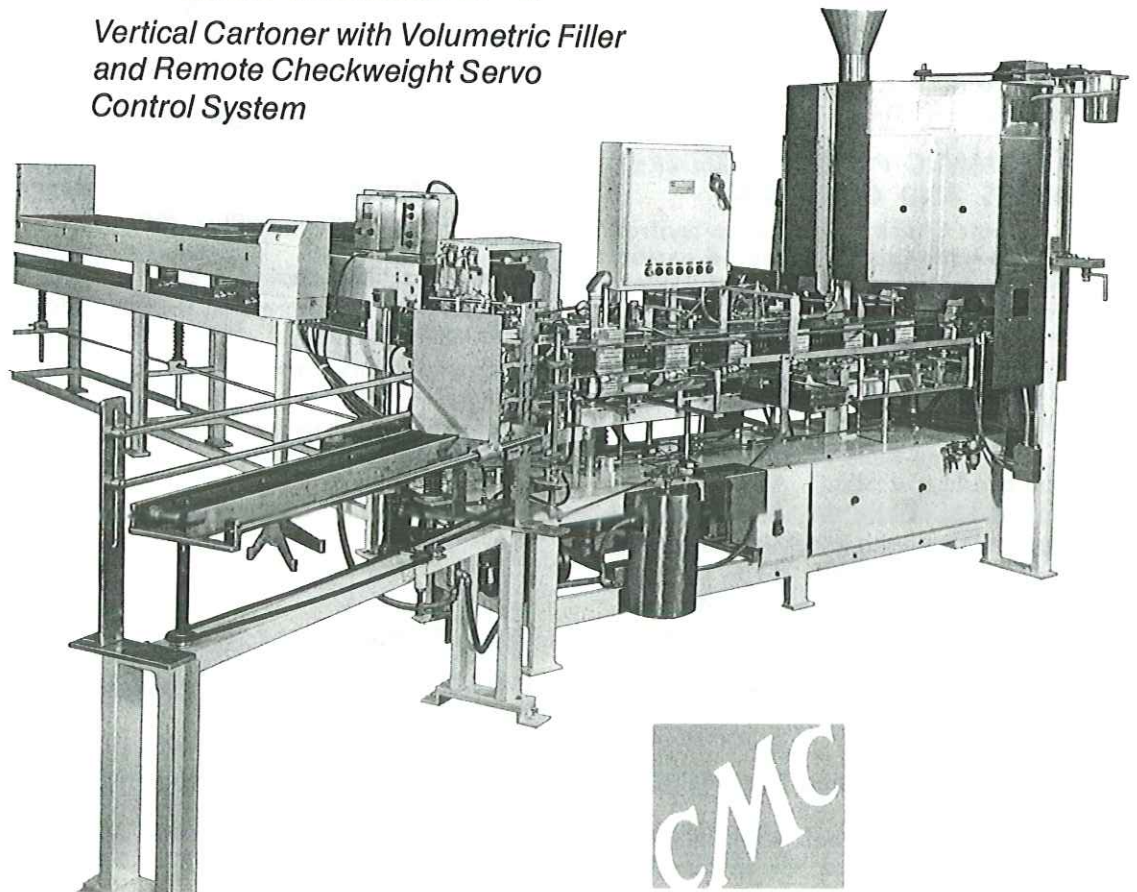
CMC model AH-12

*High Speed Vertical Cartoner
with Volumetric Filler*



CMC model D-4

*Vertical Cartoner with Volumetric Filler
and Remote Checkweight Servo
Control System*



Standard Options and Accessories

CARTON CODING

- Rotary Code Impressing — uses steel type with or without ink.
- Rotary Code Imprinting — uses steel type with ink for greater readability.
- Hot and Cold Printing — for sharp expanded nomenclature.

CARTON CLOSURE AND SEALING

- Twin Intaglio Pattern Cold Glue Roll Applicators — for double seal, sift-proof carton end-closures.
- Twin Intaglio Pattern Hot Adhesive Roll Applicators — for single seal end-closures of small cartons.
- Hot Melt Adhesive Extrusion Systems — use gun applicators for single or double seal carton end-closures.
- Reverse Fold-Sequence Carton Closure and Hot Melt Adhesive Applicators — for sift- and festation-proof carton end-closures.
- Cold Glue Spray Systems — use atomizer applicators for single or double seal end-closures of oversized cartons.
- Van Buren Ear Closure and Sealing System — for cold and hot melt adhesive applications.
- Heat Reactivation Sealing Systems — for preapplied glue and polycoated cartons.

AUTOMATIC PRODUCT FEEDERS, FILLERS AND CONTROLS

- Remote Checkweight Servo-control System — monitors completed carton weight; controls filling, rejects underweights.
- Integral Checkweight Servo-control System — monitors carton weight prior to sealing; controls filling, rejects underweights.
- Net Weight Scale Feeding Systems — with overhead scales.
- High Speed Net Weight Scale Feeding Systems — with integral or tangential overhead rotary scales.
- Metering Systems — with single continuous or twin intermittent auger feeders.
- Exact-count Feeding Systems.
- Special Product Feeders — such as for golf balls.
- Carton Ejection and Retrieval Conveyor Systems.
- Special Filling Spouts — on extended machines to increase fill and settling time.

- Vibratory Pan Feeder Attachment to volumetric filler.
- Underfill and Empty Carton Detector Systems — with carton rejector.

AUTOMATIC PRODUCT DELIVERY AND LOADING

- Pouch Feed Conveyor with tilt transfer trays and spout oval loader.
- Twin, Pouch Cross-feed Conveyors with overhead transfer to interface customer pouch packer with feed conveyor.
- Bottle/can Feed Conveyor with star wheel transfer and spout oval loader.
- Semi-automatic Rotary Premium Loader for manual feed.
- Product Feed Conveyor for handload machines.

AUTOMATIC INSERT/OUTSERT PLACING

- Pre-folded Leaflet, Coupon, Pamphlet Feeders.
- Carton Label Feeder with gluer.

SPECIAL MECHANICAL PROVISIONS

- Quick-change Carton Pockets.
- Set-point Scale Adjustment for volumetric fillers.
- Oversize and Undersize Carton Handling Adaptors.
- Left-handed, Clockwise Machine Rotation.
- In-line Carton Compression Unit.
- Large capacity Carton Supply Magazine.
- Extended Machine Loading Area.
- Extended Carton Compression Unit — increases sealing time.
- High Speed Rotary Carton Feeder for special applications.
- Intermittent Motion Drives for special applications.
- Dust Collector Shrouds for fillers.

- Seal Spout Inserter Attachment for provisions and installation of lease unit affixes metal pour spout into carton side panel.
- Pressure-sensitive Label Applicator to seal metal pour spouts.
- Carton Discharge Rotator — orients cartons 90° or 180° for desired conveying position.
- Slope Adjustable Carton Discharge Conveyor with layover guides.

SPECIAL CONTROLS AND ELECTRICS

- Filler Hopper Level Detector — interlocks with customer's feed system to control feed rate.
- No Carton/skip Loading of insert bottle, can.
- No Pouch/skip Carton Feed.
- No-Insert or Container Monitor — automatically stops machine and/or sound alarm.
- Product Delivery Transfer Jam Monitor — stops machine.
- Machine Guard Interlocks — stop machine.
- Operation and Trouble-indicator Lights.
- Remote Machine Stop Buttons.
- Completed Carton Counter.
- Special Sequential Programming Controls with memory wheel to interlock other line-equipment.
- SCR-DC Variable Speed Drive and Controls.
- NEMA-4 Water-tight Electrics.

WORK-SAVING MAINTENANCE FEATURES

- Clustered Lubrication — hard-to-reach fittings piped to convenient injection manifolds.
- Central Lubrication System — one-shot lubrication of all fittings.

CMC SUPPORT SERVICES

Every CMC vertical cartoner is designed, built and pretested to exacting Clybourn performance standards.

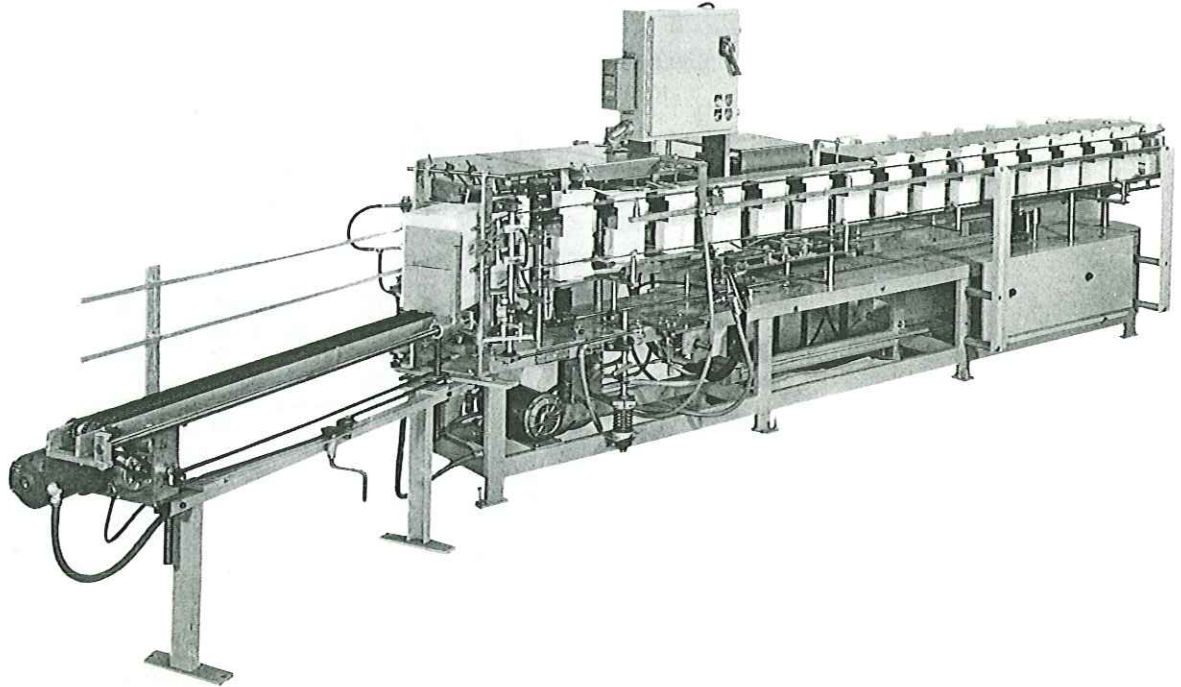
Qualified CMC service technicians are available to supervise installation and make sure each machine is properly adjusted and performing according to expectations. Equally important, CMC servicemen will instruct your personnel in the operation and maintenance of the machine to assure continued high performance.

Should a problem arise at any time, Clybourn's expert assistance is only a phone call away.

Whatever your product filling and packaging needs, you are sure to find a CMC machine to fit your needs. Call us today.

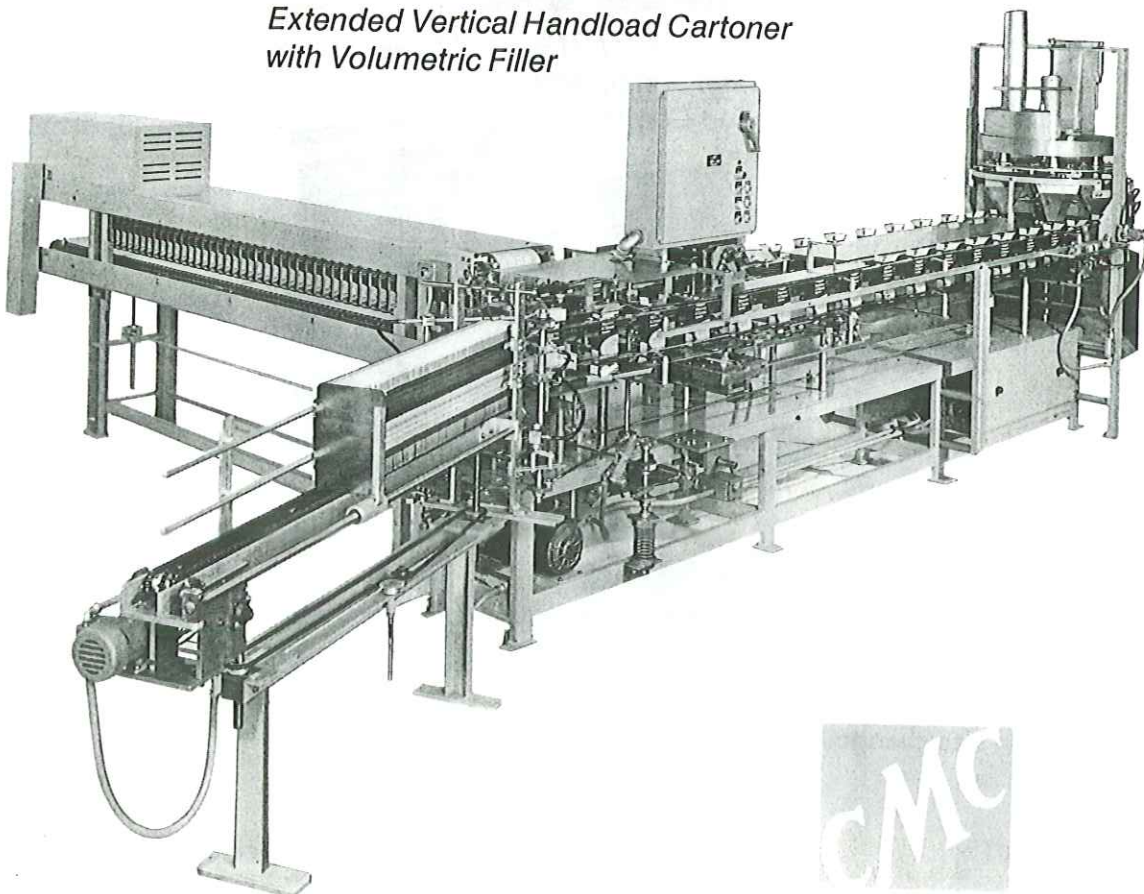
CMC model CHL

Versatile Vertical Handload Cartoner



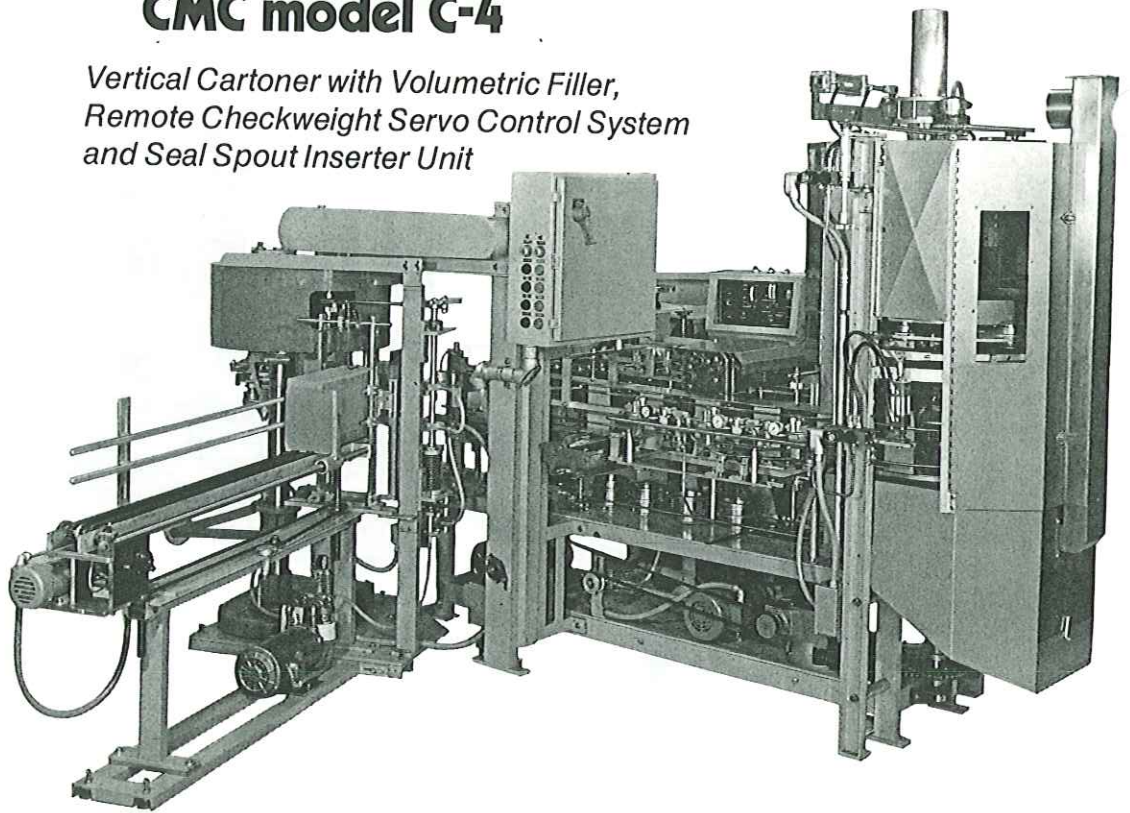
CMC model C-4HL

*Extended Vertical Handload Cartoner
with Volumetric Filler*



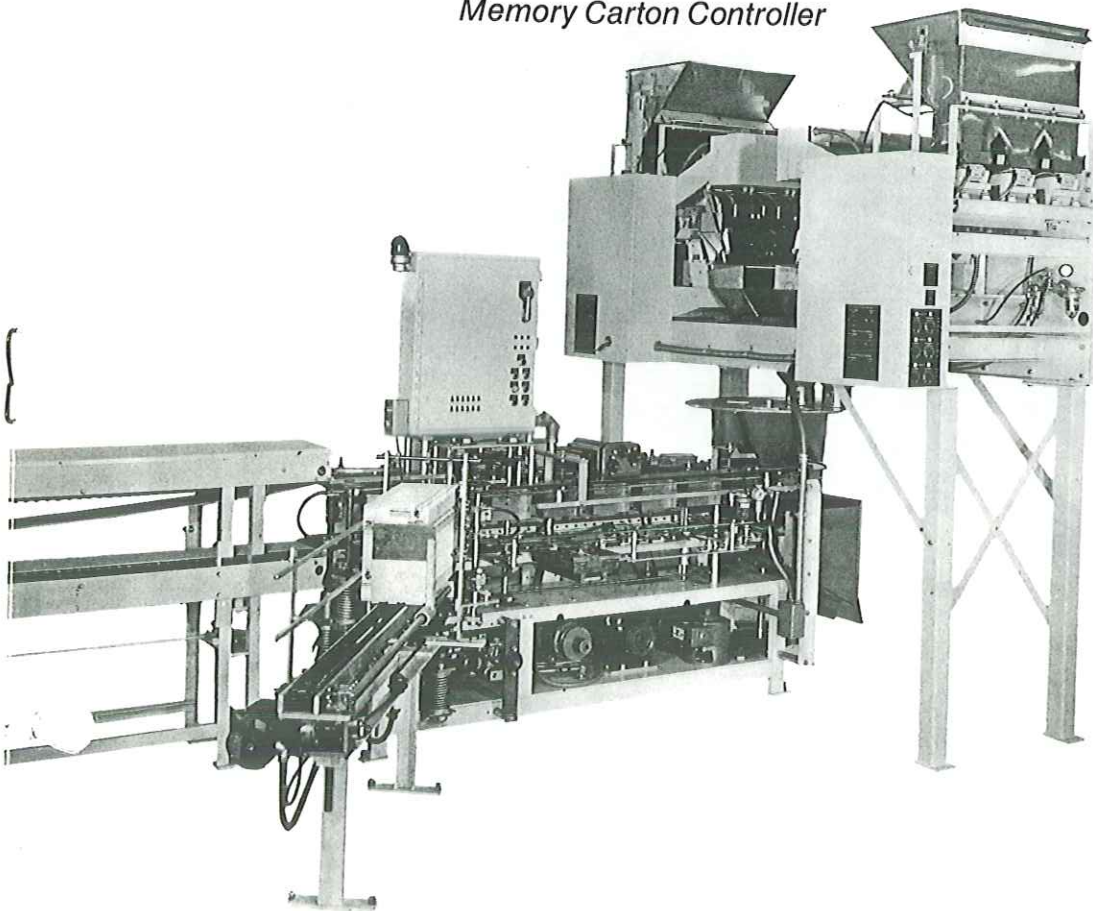
CMC model C-4

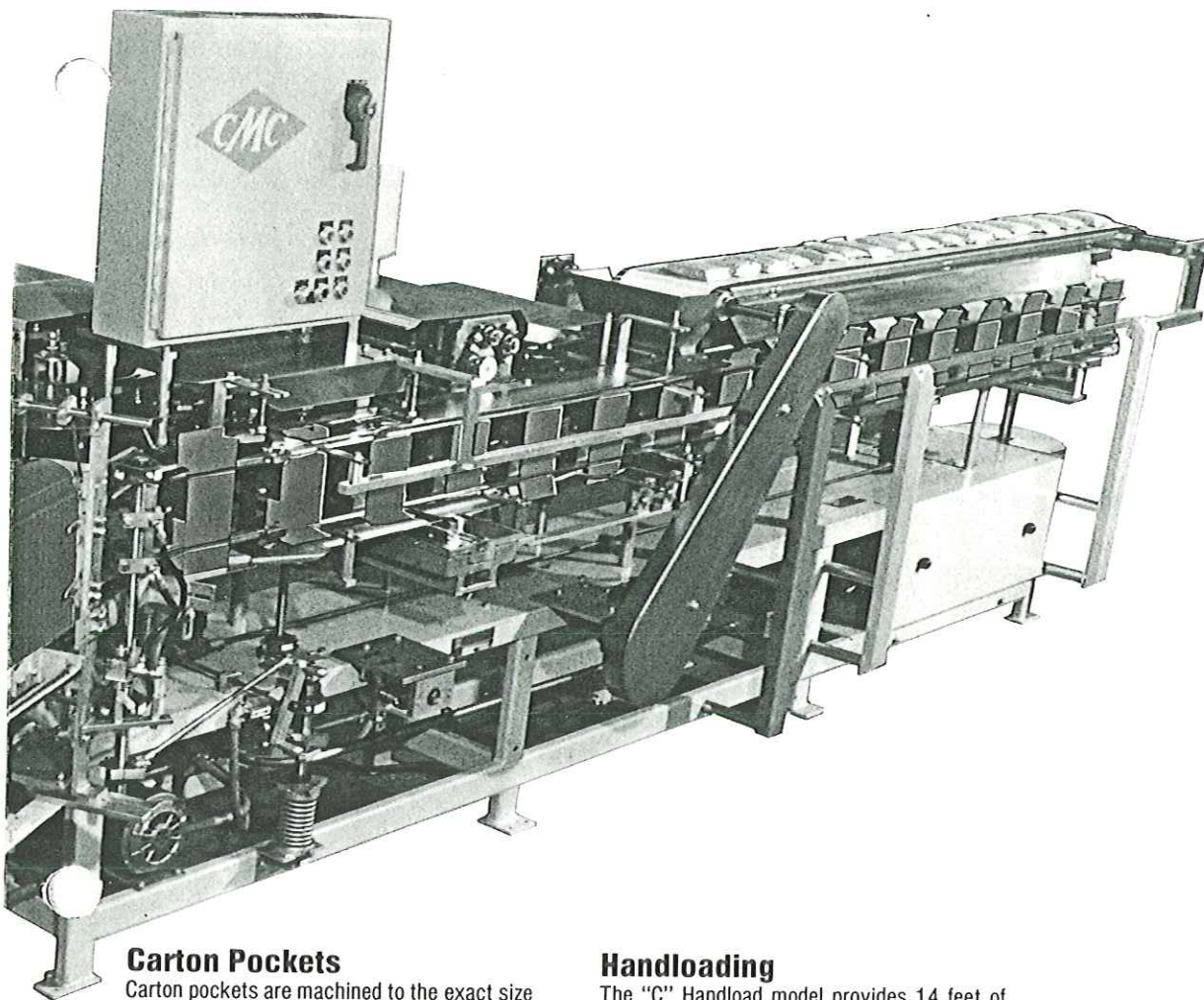
*Vertical Cartoner with Volumetric Filler,
Remote Checkweight Servo Control System
and Seal Spout Inserter Unit*



CMC model C-4S

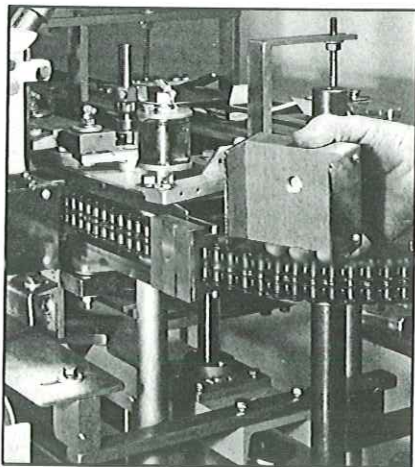
*Vertical Cartoner With Net Weight Scale
Feeding System and Special Twin
Memory Carton Controller*





Carton Pockets

Carton pockets are machined to the exact size of the carton to assure square cartons. Pockets hold cartons firmly during all machine functions. Carton pockets slide into a key slot for easy pocket size changes. Average pocket changeover time is approx. 30 minutes.



Carton Pocket

Preparing Carton for Filling

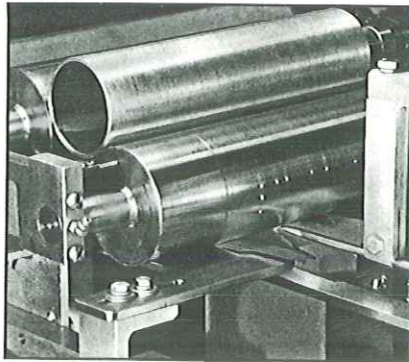
Once inside the carton pocket, the carton is conveyed in a continuous motion through plow plates and bars preparing the lower flaps for gluing. After gluing, the flaps are plowed closed and the carton continues on to the loading section.

Handloading

The "C" Handload model provides 14 feet of handfilling space—7 feet on each side of the 20-foot machine. The cartons travel at constant motion through the handloading section ready to accept premiums, leaflets or product.

Gluing

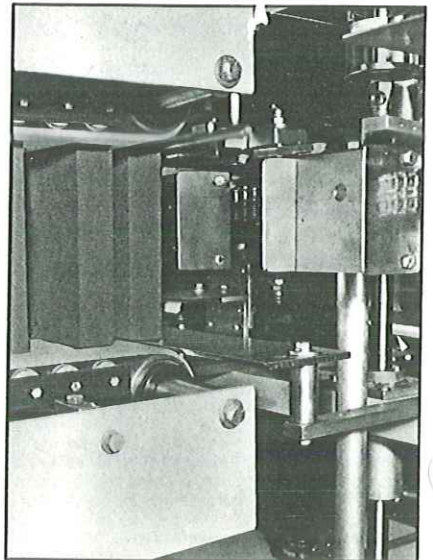
After the top flaps have been prepared for gluing, the carton passes under the upper glue pot applicator roll. When Intaglio pattern gluing is selected, the same pattern is normally used for top and bottom gluing. After the final application of glue, the flaps are plowed closed providing an excellent sift-proof seal. Optional hot melt adhesive applicators are available.



Glue Roller

Compression Unit

Powered carton compression unit seals and orients completed cartons.



Carton Compression Unit

CMC Machines Adapt to Changing Needs

Clybourn vertical cartoning and filling machines are designed to give you maximum production versatility. Each machine is custom built starting with one of several basic designs and a set of standard options. Our broad range of options lets you select the capabilities that will best meet your cartoning and filling needs today. By changing the options package, you can convert your CMC machine to meet a whole new set of requirements tomorrow.

CMC vertical cartoners offer four basic product feeding and filling systems:

1. High-speed volumetric filling system — with precise volume repeatability. Ideal for most free-flowing products such as powders, granules, flakes, pellets, cubes, small chips and chunks.

2. Net-weight scale feeding system — preferred for many free-flowing and multishaped products.

3. Metering auger filling system — recommended for hard-to-feed, semi-free-flowing products like ultrafine powders and mixes with shortenings.

4. Exact-count feeding system — best for many uniformly-shaped solid products such as hard candies, tablets, capsules, small parts and components.

Any of the four basic feeding and filling systems can be easily modified with standard options to assemble a machine that meets your specific feeding and filling requirements.

SERIES AH

Models: AH-6, AH-8, AH-16

High speed, compact vertical cartoning and filling machines. Used extensively in the confectionery industry the world over.

Carton: Vend size tuck-and-seal end cartons and small display cartons.

Products: All types of unwrapped and wrapped candies (including twist wrapped), gum, cough drops, tablets, chocolates, chocolate-coated mixes, shelled and roasted nuts, raisins and similar products.

Carton: Sampler and other types of small-volume packages.

Products: Seasonings, spices, seeds, vitamins and specialty chemical powders such as insecticides.

SERIES C

Models: C-4, C-8, C-12, C-16

High speed, intermediate vertical cartoning and filling machines with a wide range of product handling capabilities.

Products: Sugar and sugar substitutes, salt, frozen and dried vegetables, raisins, flour and specialty mixes, starch, meal, grits, rice, barley, breadcrumbs, cereals, grains, specialty potato products, short cut macaroni and specialty pasta products, popcorn and snack items, gelatins and puddings, tea, spices, pet foods and treats, specialty chemicals like detergents, soaps, sodas, bleach, epsom salts, bath beads and salts, water softeners, mothballs and flakes, fertilizers, seeds, gravel, cement and powdered adhesives plus many other free-flowing products.

Models: C-7, C-14

High speed, extended vertical cartoning machines with or without fillers.

Without filler unit: Many C-7 and C-14 machines are sold without fillers for handloading pouches and bags.

Products: Bakery products, trash bags, combination personal care kits, small parts and other similar products.

With filler unit: Designed for cartoning all types of convenience meals.

Products: Macaroni and cheese dinners, rice and seasoning mix dinners and similar multi-product applications.

Models: CHL, C-4HL

High speed, large vertical cartoning and filling machines are used for high productivity in all the applications noted for the Series "C" machines.

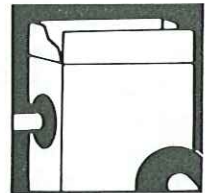
SERIES D

Model: D-4

Intermediate speed, large vertical cartoning and filling machine handles institutional-sized cartons of many products listed under Series "C" machines.

STANDARD FEATURES*

- **Extended machines** — accommodate handloading or the addition of special attachments for multi-purpose packaging.
- **Horizontal carton supply magazine** — large capacity, easy to load, powered demand feed.
- **Right-hand, continuous** counter-clockwise operation.
- **High speed carton feeder** — assures proper expansion of even the most difficult to handle cartons.
- **Sized carton pockets** — assure well-formed, squared cartons.
- **Cold- or hot-melt adhesive applicators** — a variety of standard carton sealing methods are available.
- **Non-stop adjustable volumetric fillers.**
- **Vibrating fill spouts** and rotary doctor brush.
- **No carton/no-fill control.**
- **Carton flap-closure folders and plows.**
- **Powered carton compression unit** — seals and orients completed cartons.
- **Rugged drive components** — prolong service life, minimize maintenance.
- **Product contact surfaces** — stainless steel or hard nickel-plated finish.
- **Easy access** — for cleaning, drying and routine servicing.
- **Safety** — all CMC machines are engineered and built with personnel safety in mind.
- **Centrally-located operator control panel.**
- **Painted machine surfaces** — are CMC light green epoxy enamel finish. Other finishes available upon request.
- **Carton size changes** — require minimal machine adjustments.



High speed, positive carton opening



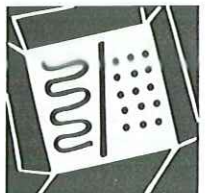
Attachment for inserting coupons, pouches



Precise volumetric filling



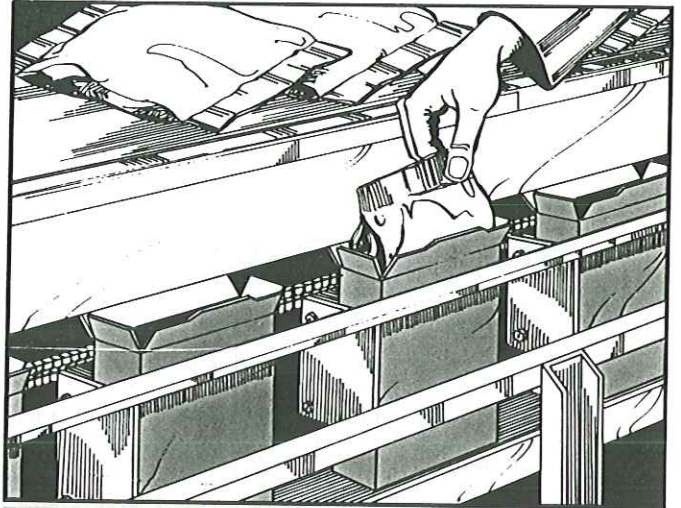
Vibrating track assures proper product settling

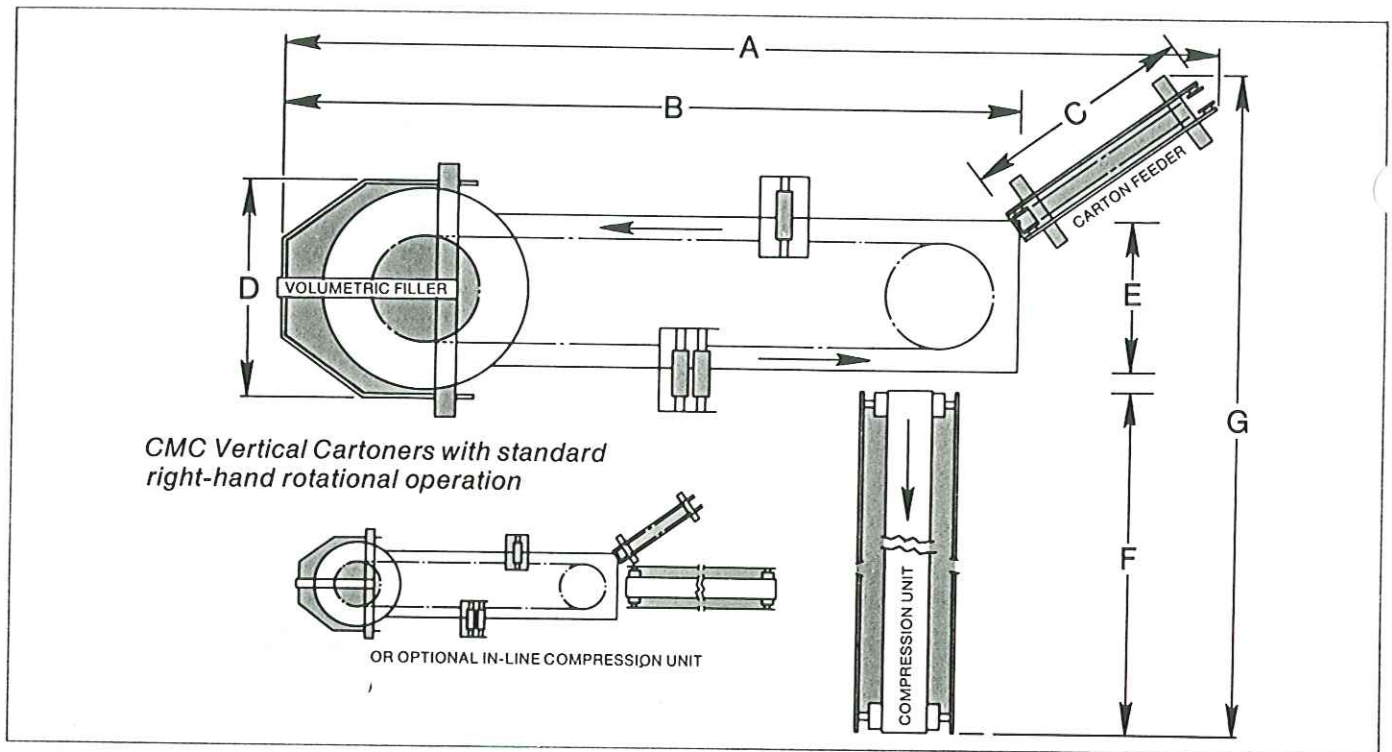


Hot melt or cold pattern gluing

* Available on most CMC vertical cartoning and filling machines.

THE CLYBOURN VERTICAL CARTONER





TYPICAL MACHINE DIMENSIONS

CMC VERTICAL CARTONER MODELS	A	B	C	D	E	F	G
AH-6	9'9"	6'5"	5'1"	2'0"	1'6"	—	5'6"
C-4	13'9"	9'2½"	5'9"	2'6"	1'6"	11'6"	17'8"
CHL & C-4HL	20'0"	15'5½"	5'9"	2'6"	1'6"	11'6"	17'8"
C-7	16'0"	11'6"	5'9"	3'4"	2'6"	15'6"	22'8"
D-4	19'3"	16'1"	6'3"	3'9½"	2'6"	22'2"	30'7"

STANDARD CARTON SIZE AND SPEED RANGES

CMC Models	L x W x H (inches)	CPM
AH-6	min 3/4 x 3/8 x 2¾ max 4 x 1¼ x 7½	80-200
C-4 C-7	min 2 x 3/4 x 4¼ max 8¼ x 3¼ x 11¼	40-100 75-190
D-4	min 5 x 2 x 6½ max 10 x 5 x 14	30-75

LET CLYBOURN CARTONERS GO TO WORK FOR YOU

Clybourn's common-sense approach to machine design and manufacture has earned us wide-reaching success and acceptance of our machines.

This approach enables us to satisfy an amazingly wide range of customer cartoning and filling requirements without the high cost of custom engineering. While most customers' needs are met with variations of basic designs, we engineer and manufacture one-of-a-kind machines to meet specific criteria when a standard design is not suitable.

If you have a product or are developing one that requires horizontal cartoning, we invite you to examine our line of intermittent and continuous motion horizontal cartoners. These machines offer the same simplicity in design and reliability in performance as our vertical cartoners.

For more specific information about our vertical or horizontal cartoners, just pick up the phone or write. We are always ready to assist you in finding solutions to your cartoning problems.

Options

- Hot melt adhesive applicators
- Volumetric filling system
- Metering auger filling system
- Net-weight scale feeding system

Other Models Available



Clybourn Machine Company

7515 N. Linder Ave., Skokie, IL 60077 • 312/677-7800 Telex: 28-9472

a division of Paxall, Inc.

A continuous-motion, reliable, low maintenance cartoner

The Clybourn CHL vertical cartoning and filling machine is designed for handloading or automatic product filling. The Handload machine forms the basis for all other Clybourn vertical cartoner models. Every unit is equipped with a carton-forming section, cold glue rollers, carton "pocket" holders and compression section. These machines are ideal for short or long run operations and where product/carton changes are frequent—perfect for growing product lines.

Clybourn machines are easy to operate, maintain and keep clean. They are compact, yet can provide 14 feet of handloading area. Clybourn cartoners have proven their reliable performance handloading bagged candy, blister packages, bottles and tubes—dog food, detergents and loose candy with automatic filler. (See back page.)

Standard Features

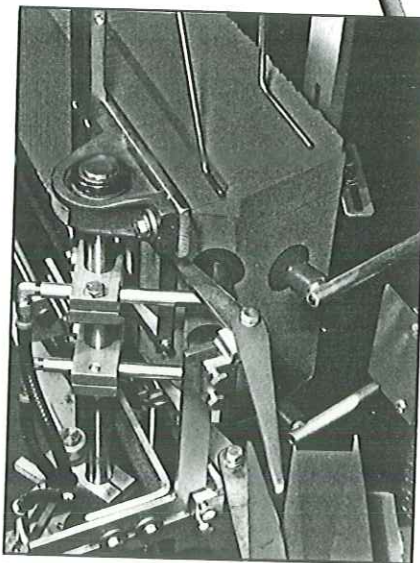
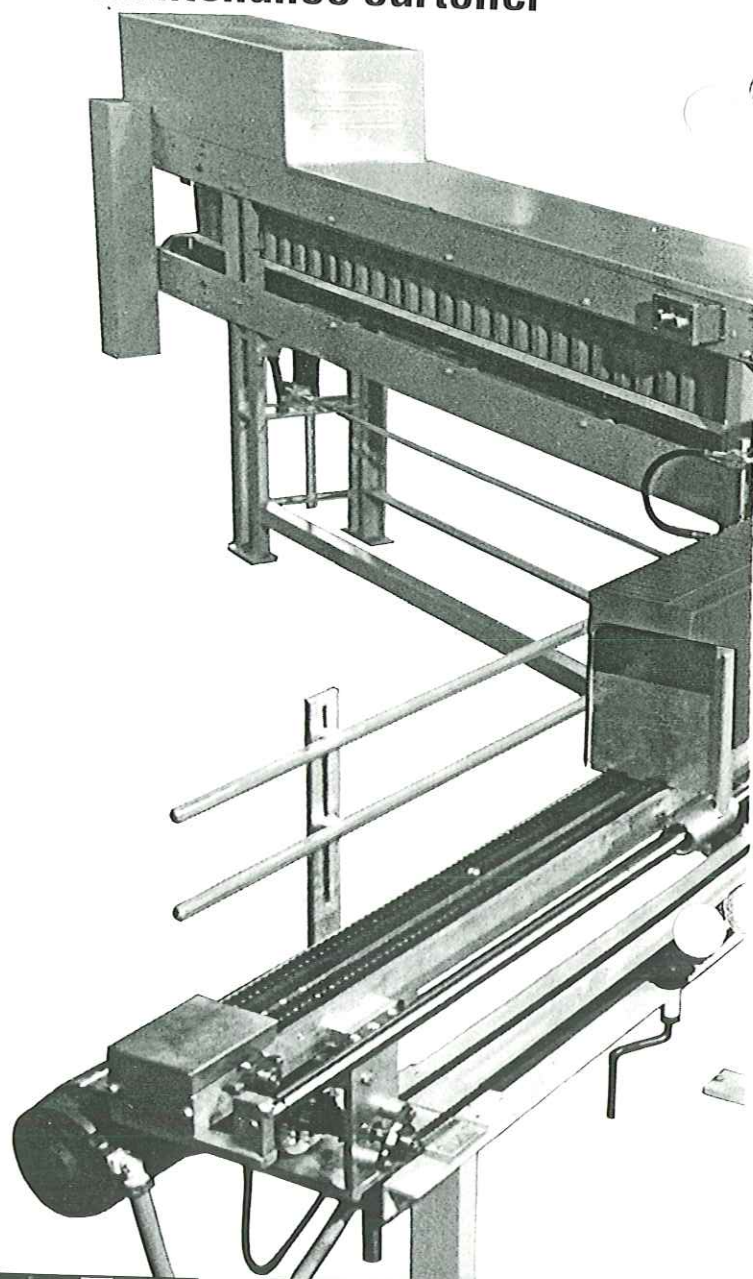
- Vertically powered carton supply magazine
- High speed carton feed, pre-opener and forming section
- Sized carton pockets firmly hold carton through entire machine travel
- Cold glue rollers
- Carton flap-closure folders and plows
- Powered carton compression unit
- Rugged drive components

Carton Magazine

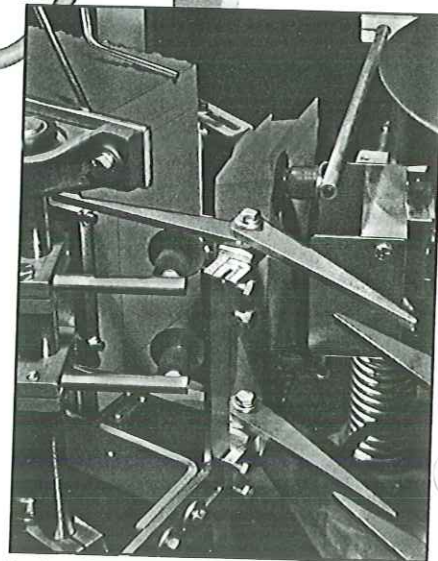
The powered feed carton magazine is designed with safeguards to prevent overfeed. Loading does not interrupt machine operation. Magazine adjusts easily to accommodate other carton sizes. Standard carton magazine holds 600-800 cartons depending on thickness of carton stock.

Carton Forming

A simple, performance-proven carton forming section uses two pairs of suction arms. The first set of arms removes the carton from the magazine. The second set of arms picks up the partially opened carton and smoothly slips it into the pocket.



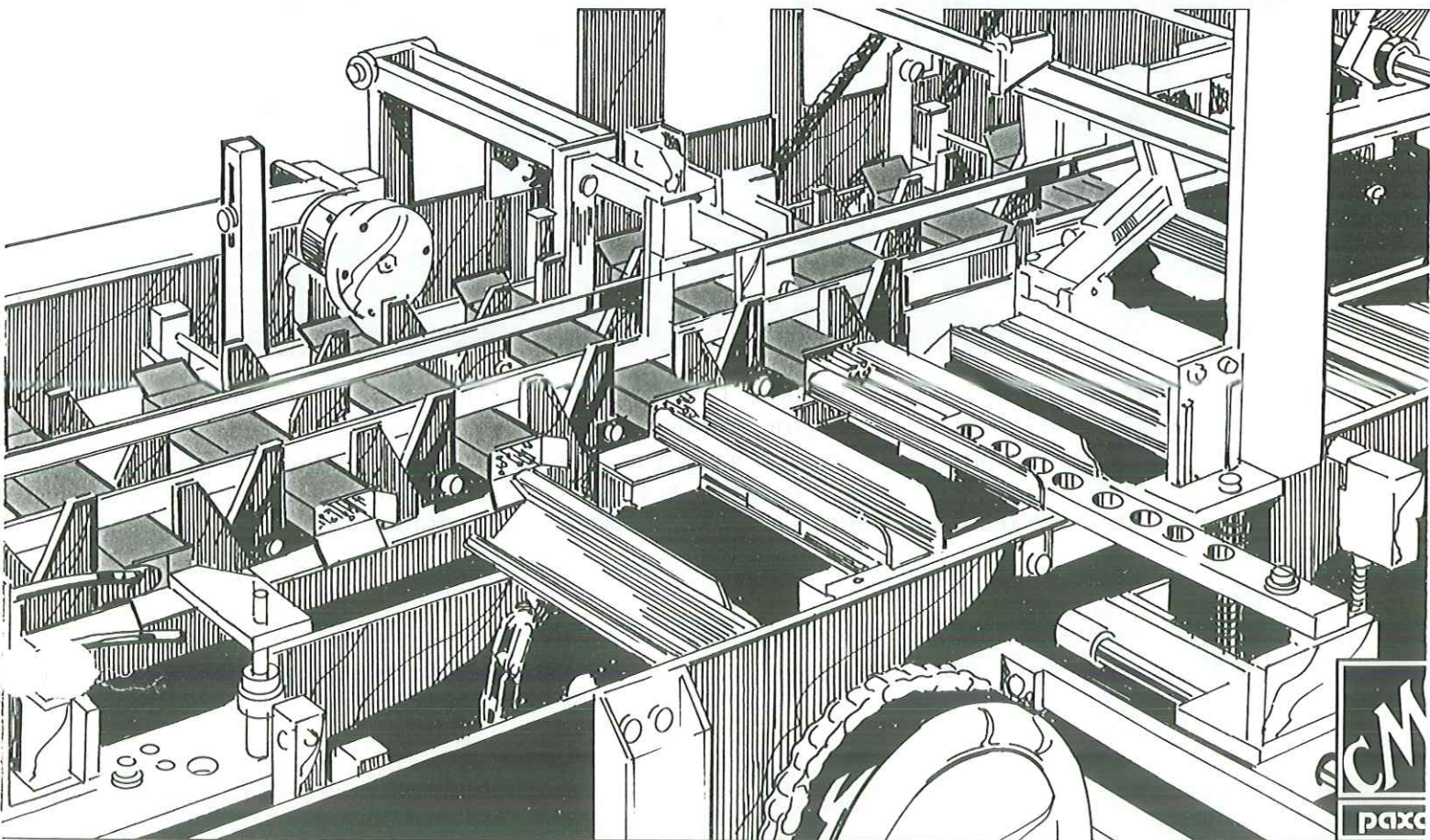
Carton Pre-opener



Carton Opener

CLYBOURN

THE CLYBOURN IMH-50 INTERMITTENT MOTION HORIZONTAL CARTONER



Standard Features

- Large capacity carton magazine—(400-500 cartons)
- Two standard types of product feed systems
- No product/no carton
- No carton/no product
- Safety clutch
- Heavy duty chain drives and rugged drive components
- Mechanically operated carton flap closures
- Stainless steel product trays
- 1 to 1 ½ H.P. drive motor
- ½ H.P. vacuum pump

Standard Carton Range— Others Upon Request

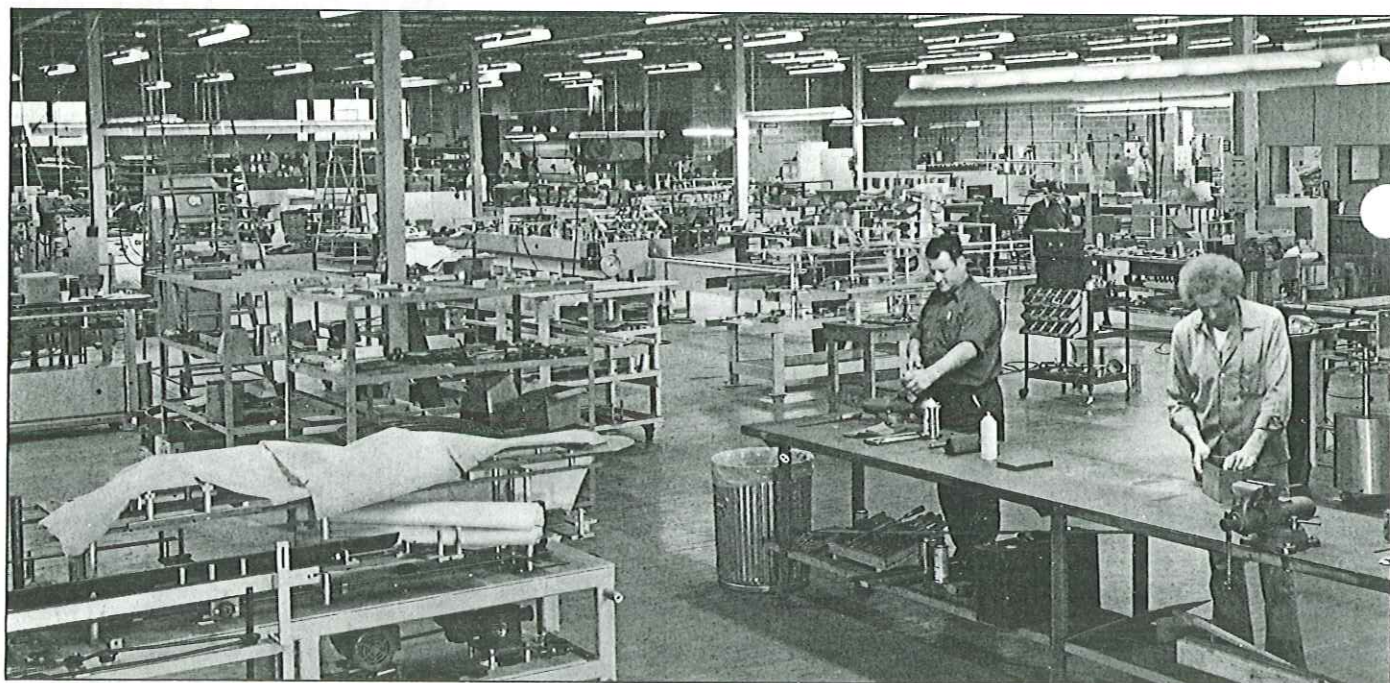
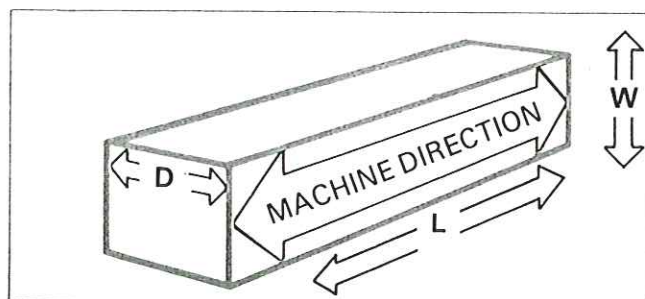
	Length	Width	Depth
Minimum:	2" x ½"	4"	
Maximum:	7" x 3"	10"	



- Lexan and stainless steel guarding
- Durable epoxy paint

Options

- Index drive for high speed requirements
- Adjustable carton carrier and adjustable stainless steel article buckets
- Code daters/printers
- Vertical form/fill/seal—"Bag'n Box" tie-in
- Collation from horizontal wrappers
- A variety of hot melt adhesive sealing systems



Other Clybourn product lines include: Constant Motion Horizontal Cartoners and Vertical Cartoners for Hand Loading, Volumetric, Auger or Scale Automatic loading.

Clybourn Machine Company is located in Skokie, Illinois (a northern suburb of Chicago) in a modern 75,000-square-foot facility including engineering, fabrication, machining and assembly departments. For more information or a quote, contact our local representative or call us direct.



**Clybourn
Machine Company**
7515 N. Linder Ave., Skokie, IL 60077
312/677-7800 Telex: 28-9472

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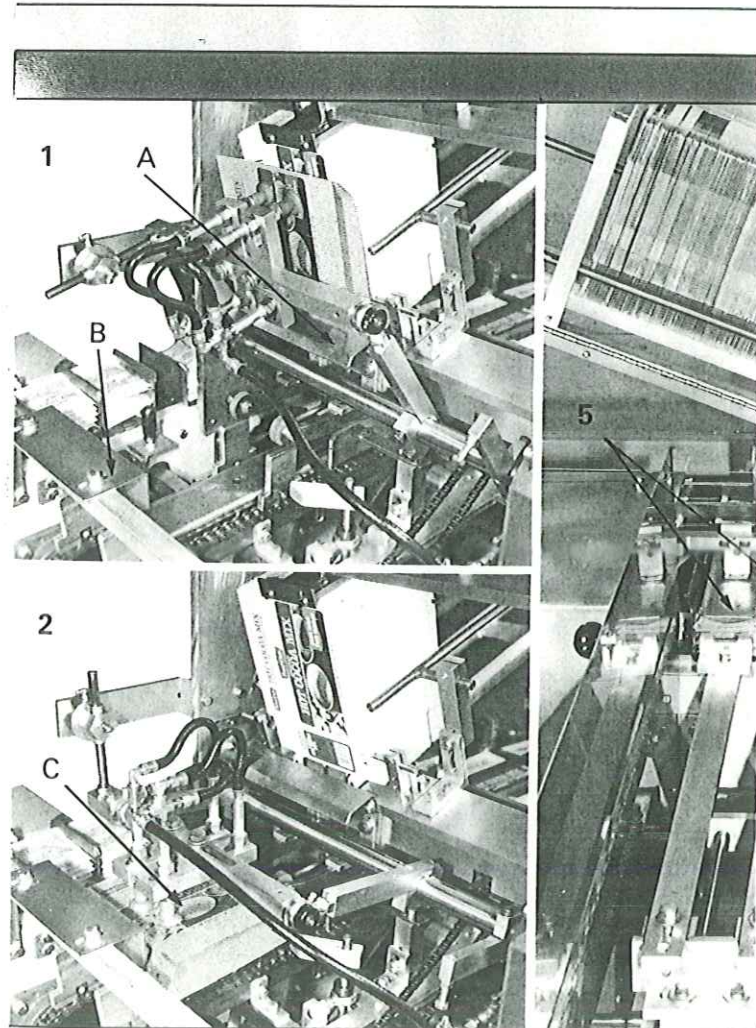
THE CLYBOURN IMH-50 CAR

(1) Carton Feed

A large capacity (400-500 cartons) inclined carton magazine provides constant feed of cartons. The design permits continuous loading and quick set-up for different carton sizes. Suction cups bring the carton from the magazine and in one smooth, continuous motion the carton is drawn across the two (first A, then B) breaker plates for carton opening. The opened carton is placed into the carrier and released by the suction cups.

(2) Carton Holder

Rigid carton carrier platform lugs on a heavy-duty roller chain conveyor with hinged top confining guides hold the carton securely on all four sides, providing well-formed and squared cartons. At the loading station, however, the trailing lugs have not reached the top of the tail sprockets which spread the lugs apart. Cartons are thereby easy to



TON & PRODUCT FEED SYSTEMS

load between the lugs (C). When the cartoner indexes, the lugs become parallel, squaring and holding the cartons securely.

(3) No Product/No Carton

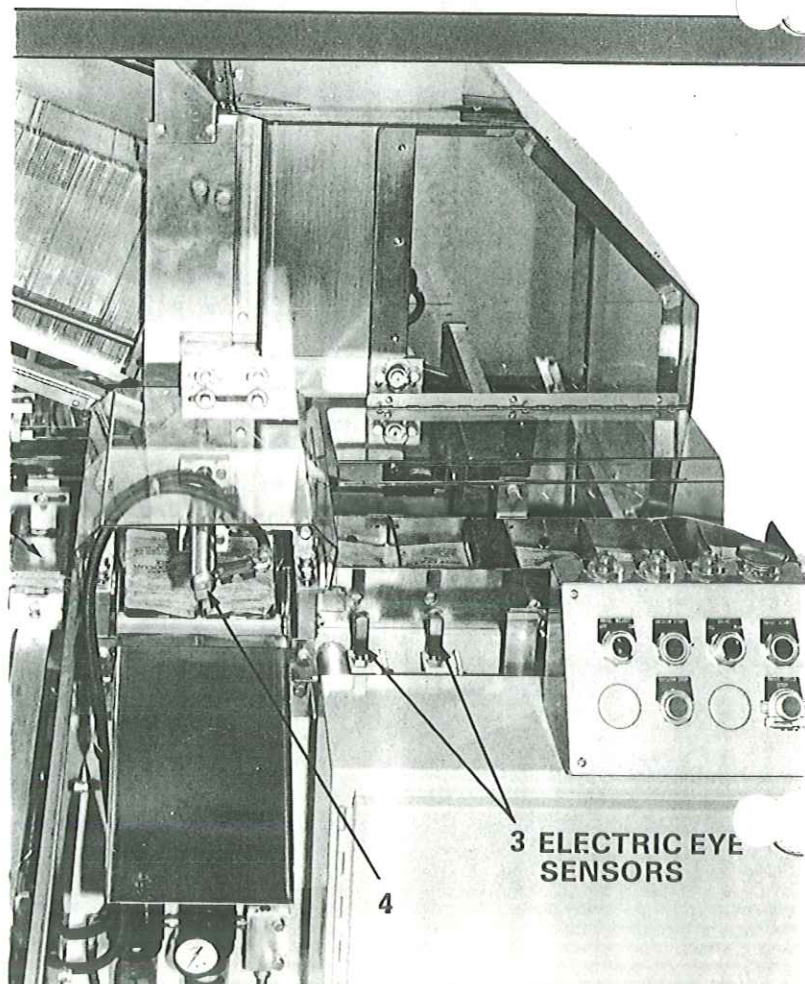
If there is no product in a given tray, the cartoner does not set up a carton for that particular product tray.

(4) No Carton/No Product

If a carton is missing, the cartoner automatically ejects the product from the tray out the side of the machine before it enters the loading station.

(5) Loading Bulky Products

The IMH-50 can be equipped with an overhead confiner at the loading station. It gently confines bulky products such as pouches, cookies or pasta products to insure proper loading into the carton. The confiner shown is typical, raising up while the machine indexes, lowering to confine the product during insertion into the carton.



IMH-50 FLOOR PLANS

The Clybourn IMH's are built right hand, left hand or "U" configuration, depending upon your product, carton or plant layout requirements. The following floor plans are shown as examples of the adaptability of this cartoner. Shown is hand-loaded right hand machine.

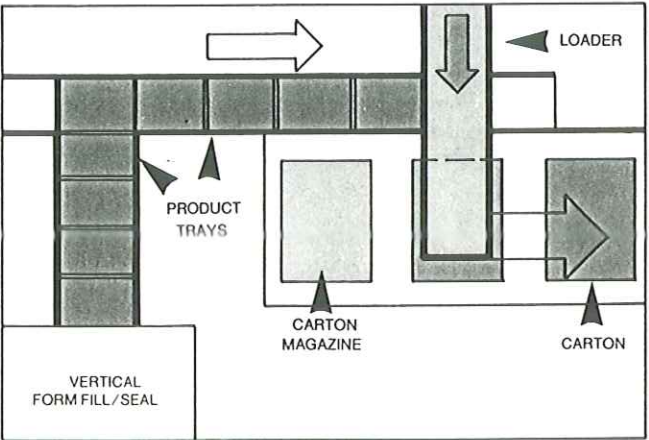
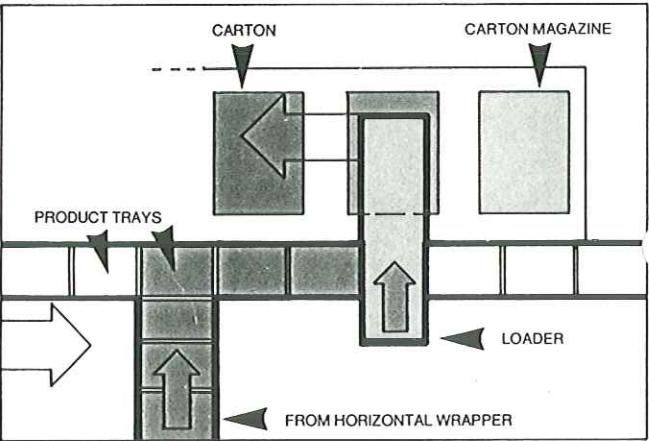
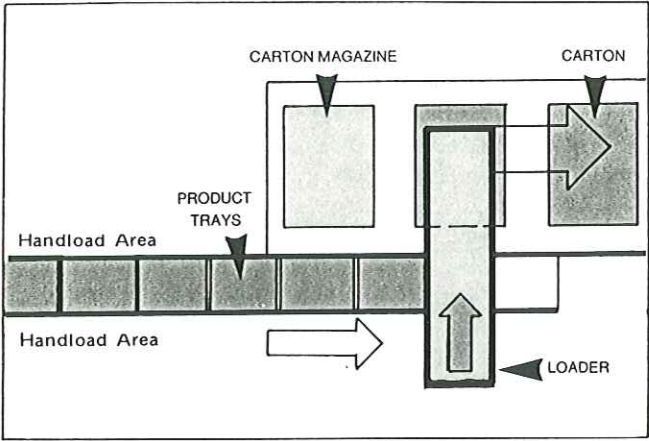
"U" Layout—Horizontal Tie-In

The "U" style cartoner is used when space is at a premium. The machine is compact, with no "outside" article buckets. The article buckets index the opposite direction from the carton carrier. In the floor plan shown, the article buckets move two times to one index of the carton carrier, allowing the horizontal wrapper to place two pastry goods into each tray. At the loading station four pouches are inserted into the carton.

Vertical Tie-In

Controlled by the IMH-50, the Vertical Form/Fill/Seal bag machine stays in time with the cartoner. An "up the hill" conveyor redistributes product in the bag and with the help of an overhead confiner, bag'n box cartoning is an efficient operation for IMH-50 users. Shown is left hand cartoner.





DEPENDABLE CARTONING FOR A WIDE VARIETY OF PRODUCTS

It takes special know-how to build intermittent motion horizontal cartoners so they last. Our IMH-50's have been cartoning products under all kinds of conditions for 30 years. There are hundreds of them cartoning products day in and day out. One of these work-horses could be cartoning your product.

What makes the IMH-50 such a dependable machine?

Design & Craftsmanship

DESIGN SIMPLICITY—We know from experience where the stresses are, and which parts take an ex-

tra beating, so we design the IMH-50 accordingly. We design the IMH-50 cartoner around *your* product and carton specifications.

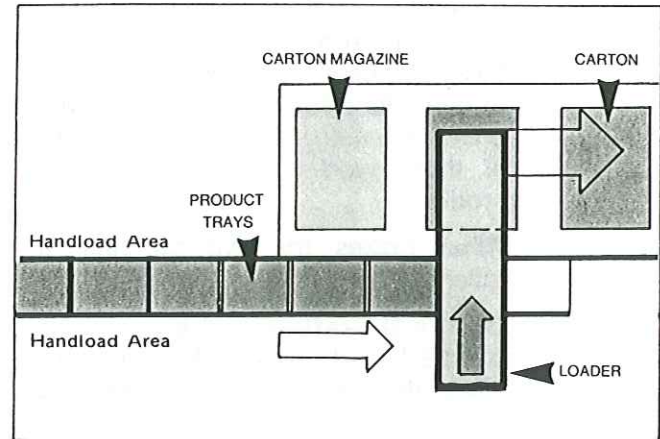
CRAFTSMANSHIP—Every machine is hand built by one or two men from beginning to end. These machines aren't just assembled, they are fitted, and adjusted, and checked, and rechecked and tested. The result is a product we can be proud of and our customers can count on.

That's why we say it takes special know-how to build an IMH cartoner that lasts, and we've done it hundreds of times. We'd like to build one for you.



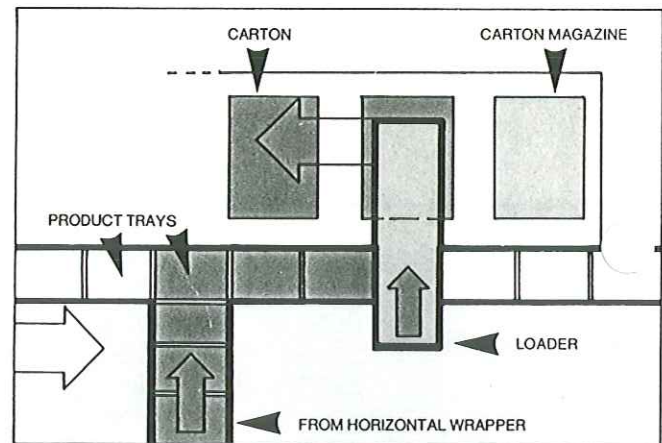
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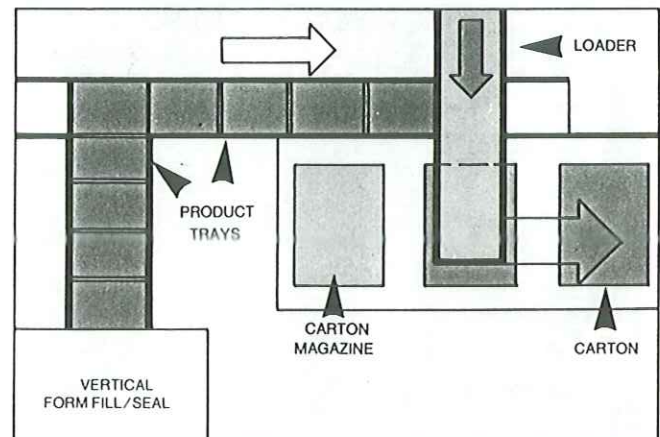
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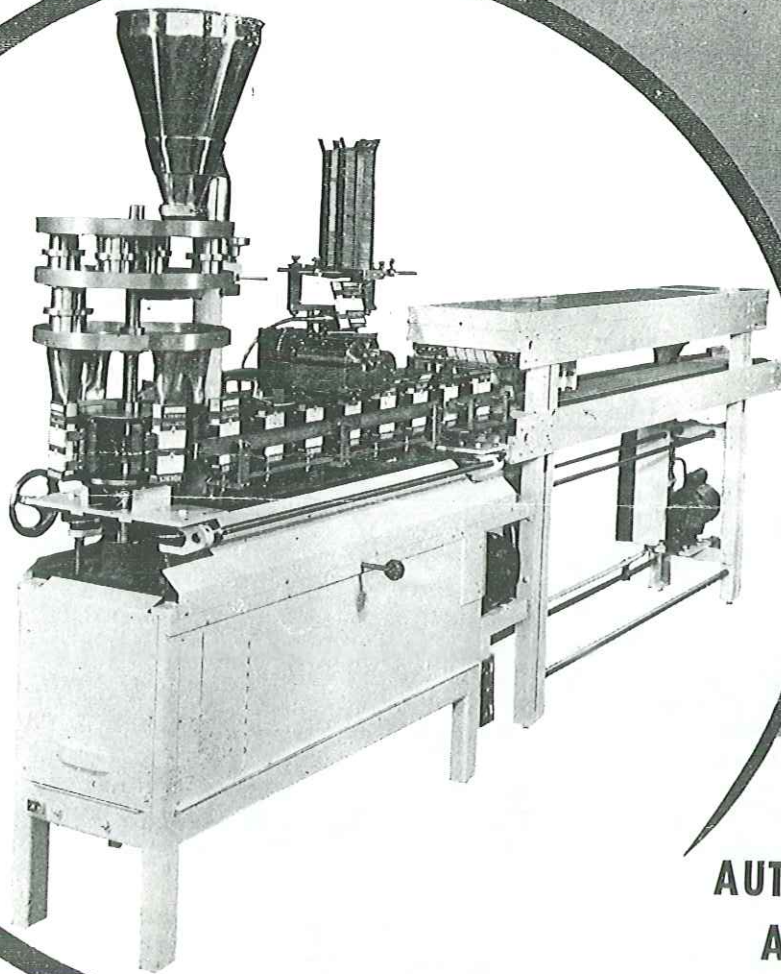
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***FAST
ACCURATE
DEPENDABLE***

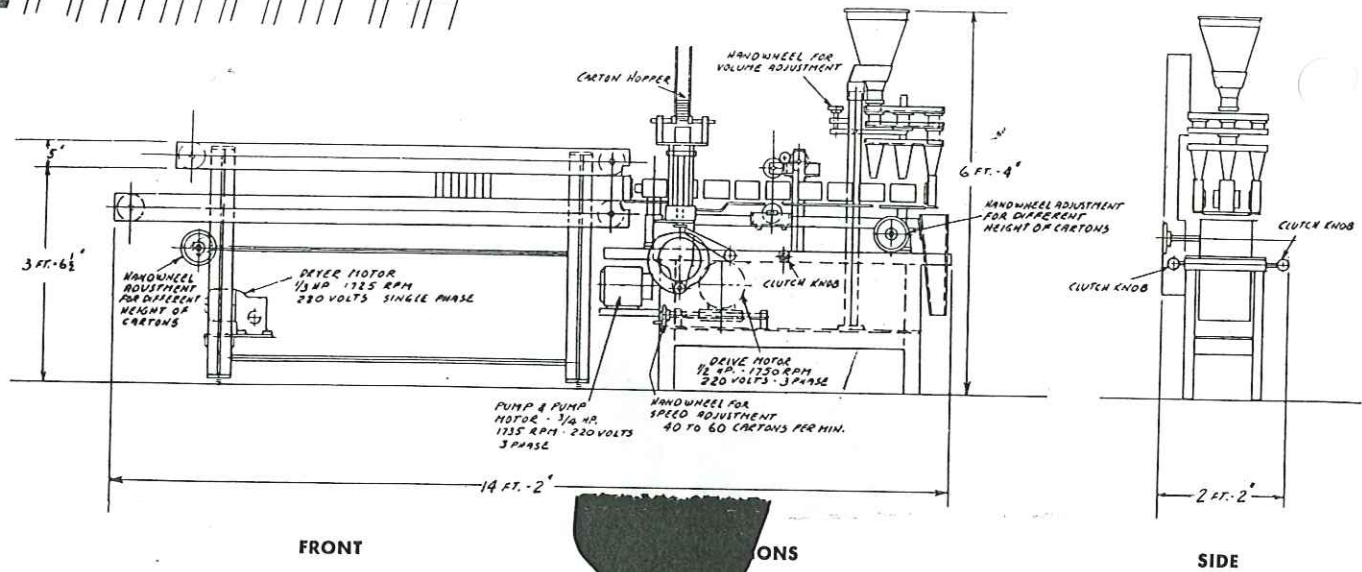
CMC



**THE CONTINUOUS
AUTOMATIC CARTON FILLING
AND SEALING MACHINE**

**CLYBOURN MACHINE CORPORATION
6479 N. AVONDALE AVENUE
CHICAGO 31, ILLINOIS**

specifications



OUTSTANDING CMC FEATURES

- 1 — Simplicity
- 2 — Continuous Motion
- 3 — Fully Adjustable
- 4 — Variable Speed
- 5 — Easy Filler Adjustment
- 6 — One Attendant
- 7 — Low Maintenance

CARTON SIZE	MODEL A		MODEL B	
	Min.	Max.	Min.	Max.
Height	3"	5"	5"	8"
Width	2"	3 1/2"	2 1/4"	5 1/2"
Thickness	3/4"	1 1/2"	1"	2 1/4"

WRITE US FOR FURTHER INFORMATION REGARDING OUR LARGER MODELS "C" AND "Q".

Other sizes special
 Speed — 60 and more per min.
 Motors — 3 — 3/4 HP, 1/2 HP, 1/3 HP
 Floor Space — 14'-2" x 2'-2"
 Weight — 2360 lbs.

CMC

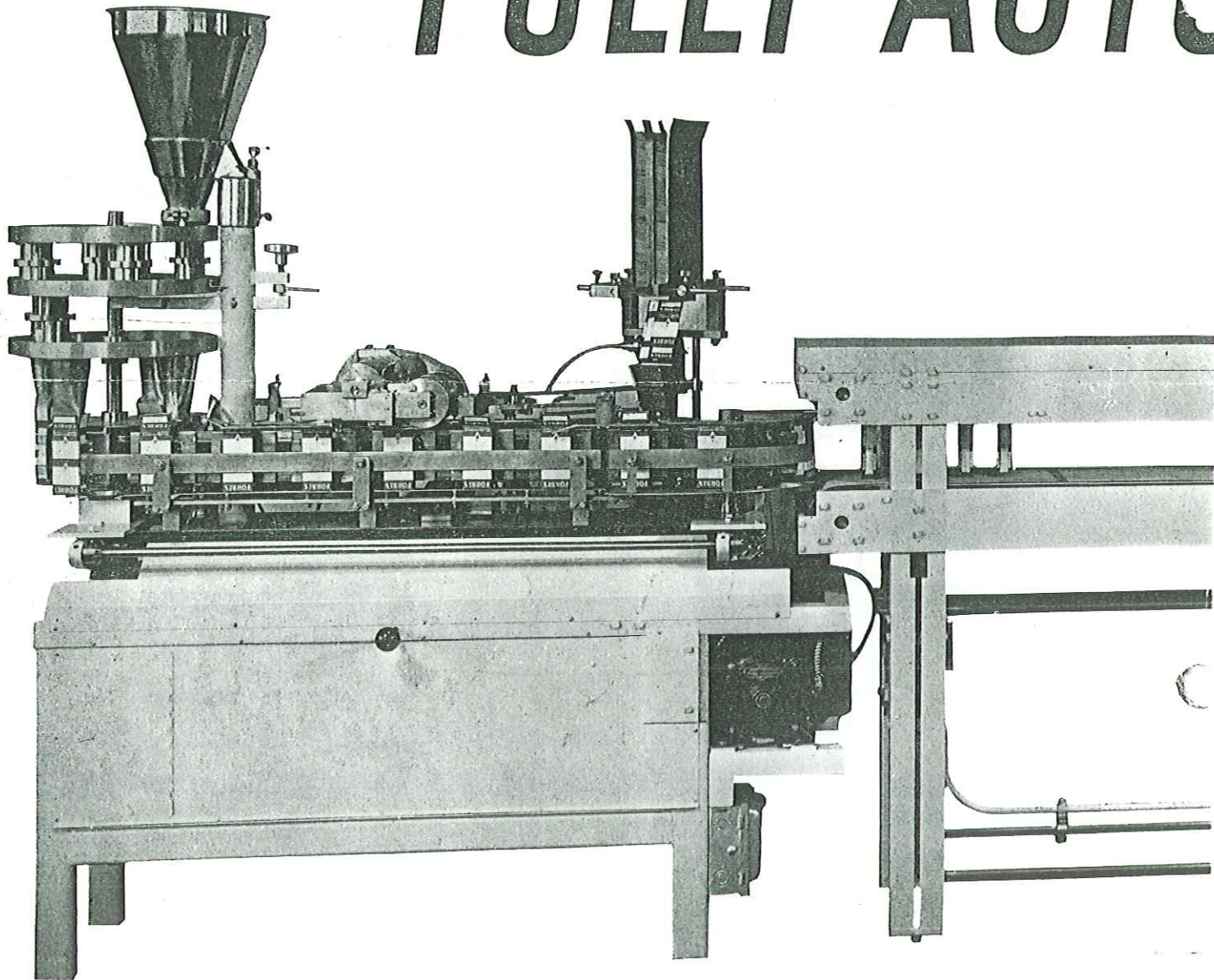
CLYBOURN
MACHINE CORP

6479 North Avondale Avenue
CHICAGO 31, ILL.



Megs Macaroni Company
 Harrisburg,
 Pennsylvania 12,750

FULLY AUTO



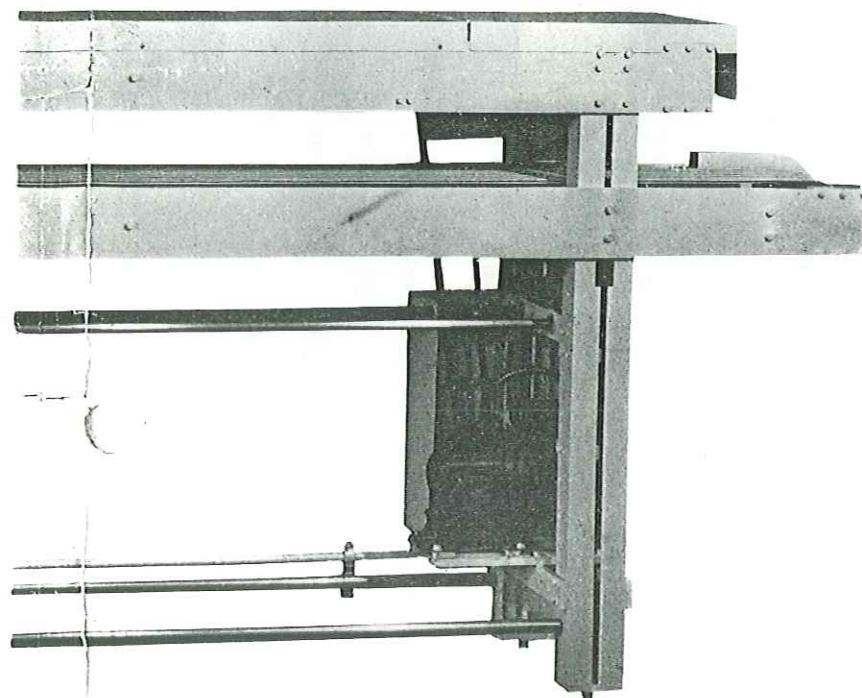
OPERATION: Cartons are automatically vacuum fed from a vertical carton feed into pockets of the carton former; glue is automatically applied to the two outer flaps of the carton; the flaps are folded; as the carton travels around the filler end of the machine, the product to be packaged is metered and filled into the carton while it is in motion; glue is automatically applied to the top flaps; the flaps are folded and the carton is fed into the dryer to set the adhesive.

OMATIC

packaging of granular products . . .

such as rice, peas, beans, whole spices and similar products is done economically and trouble free due to the advance design of the

CMC machine

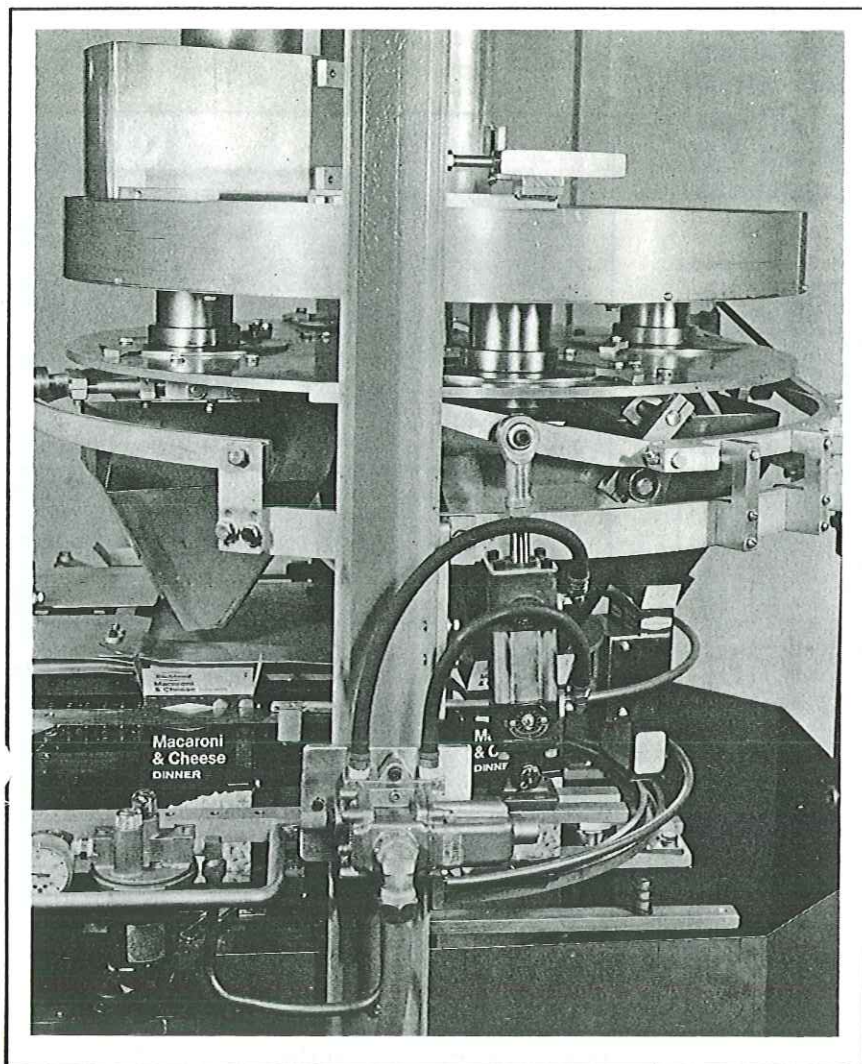
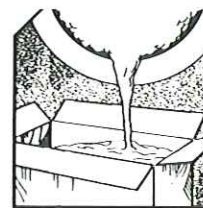


★ This machine can also be supplied with a special filler to package powders.

REDUCES PACKAGING COSTS 7 WAYS

- 1 — Automatically feeds the carton from magazine.
- 2 — Automatically glues bottom flaps.
- 3 — Automatically fills carton.
- 4 — Automatically glues top flaps.
- 5 — Readily changed from one size carton to another.
- 6 — Low maintenance cost.
- 7 — Uses little floor space.

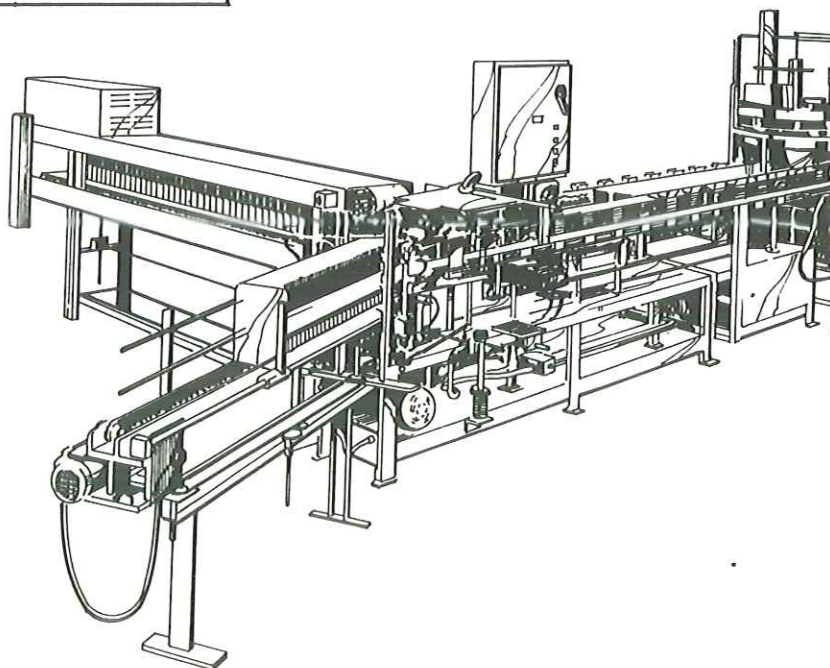
VOLUMETRIC FILLING



**Suitable for
Numerous Products;
Adjustable to
a Range of
Target Weights**

Volumetric filling is the simplest, most effective high-speed filling system for a wide variety of dry, free-flowing products. The PCM Volumetric Filler automatically feeds the product into cups adjusted to the required volume. Cups are filled to slightly over capacity and levelled off for accurate volume measure.

Among the many products successfully cartoned are powders; granules; detergents; soaps; pet food; sugar; cocoa; soup and cornmeal mixes; gravel; raisins; rock salt; candy; baby cereals; baking soda; powdered milk; seeds; macaroni, and rice.



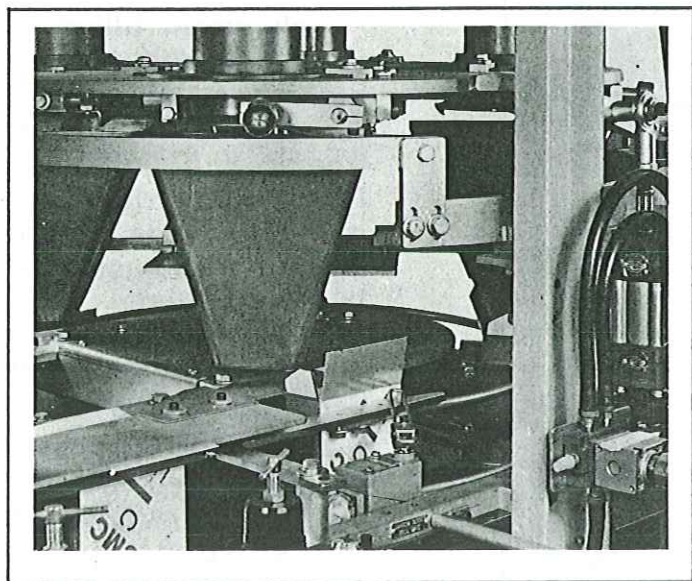
Paxall Clybourn Machinery



Paxall

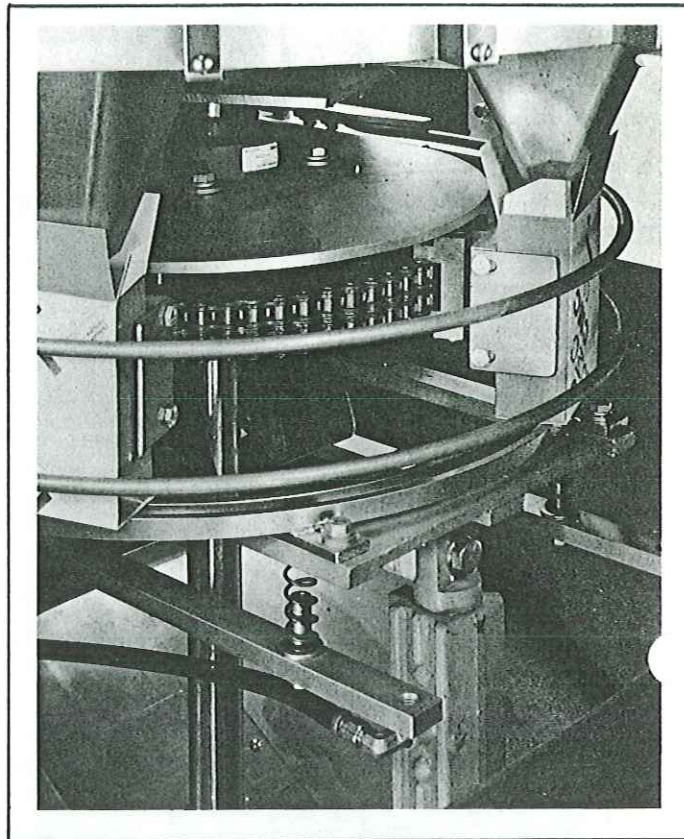
Carton Fill Spout

Fill spout directs product from the cup into the carton. Sometimes volume and carton size changes necessitate a change in fill spouts. Fill characteristics of a particular product may require close fit between spout and carton opening. If the product does not warrant special treatment, a single set of fill spouts may be used for a wide range of carton openings.



No-Carton/No-Fill Device

An automatic control system senses the presence of the carton and signals the trap gate on the volumetric cup to release the product. If a carton is missing, the cup retains the product for the next pass.



Settling Carton Vibrator Track

A variable amplitude vibrator mounted on the lower carton guide rail assists product settling. The vibrating track can be extended to allow for more settling time.

If you would like to see the Paxall Clybourn Volumetric Filler in action, give us a call. We'll be happy to show it to you.

Paxall Clybourn Machinery

7515 North Linder Avenue
Telephone: 312/677-7800

Skokie, Illinois 60077
Telex: 28-9472



Paxall