

Packaging – Processing

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Lanngen

**B1 Cartoning
Systems**

Langen B1 Convertible

The cartoner re-thought

How do you design a cartoner that is flexible and has enough standard features to make it practical but not expensive? And enough options to allow it to expand to meet a customer's growing production requirements? And still not be expensive?

The Langen B1 Convertible is the answer.

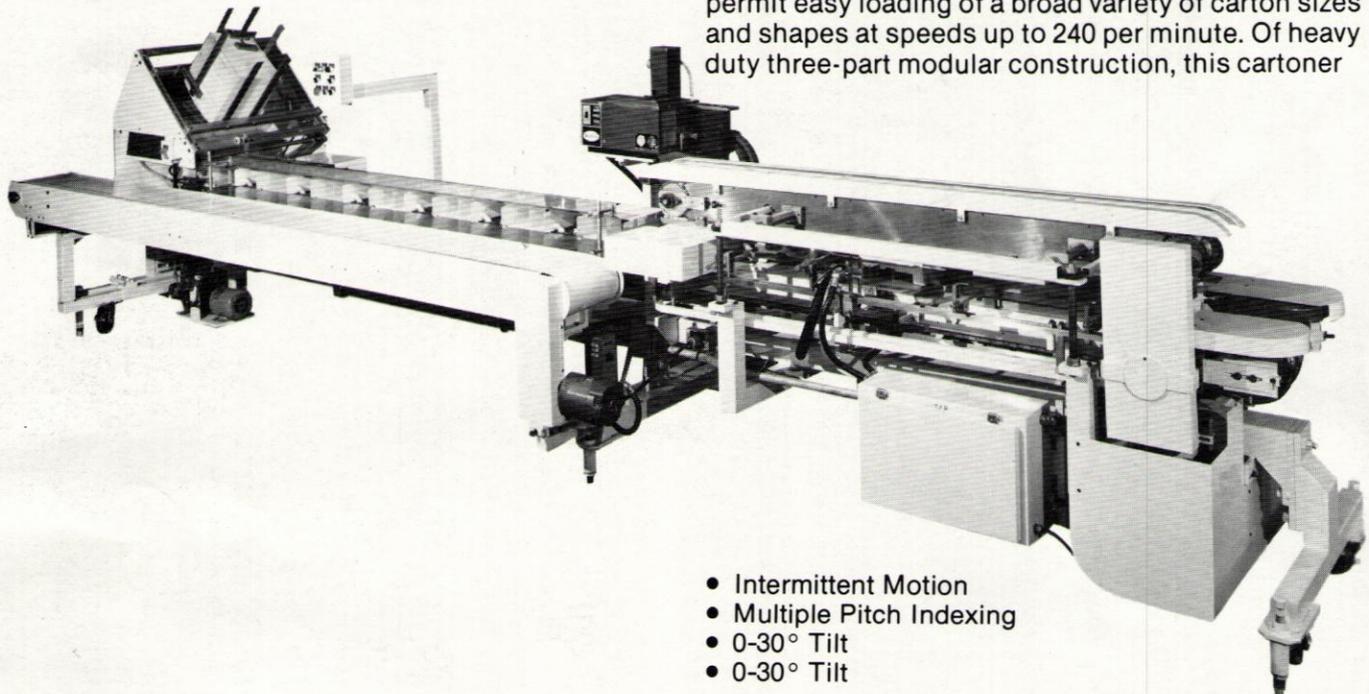
Our first objective in re-thinking the B1 was to make the basic cartoner with as many standard features as possible. By doing that we accomplished two results. One was the ability to inventory modules and set up a kind of assembly line operation for B1's. This permits delivery in as little as eight weeks. It also allows us to keep our prices as low as possible. Our second major objective in the new B1 design was convert-

ibility. That means a customer who has initial low production needs can buy the basic B1 (the Manuload) and later when his production rises we can convert it right in his plant to an automatic version (the Autoload) at minimal cost compared to buying a whole new cartoner.

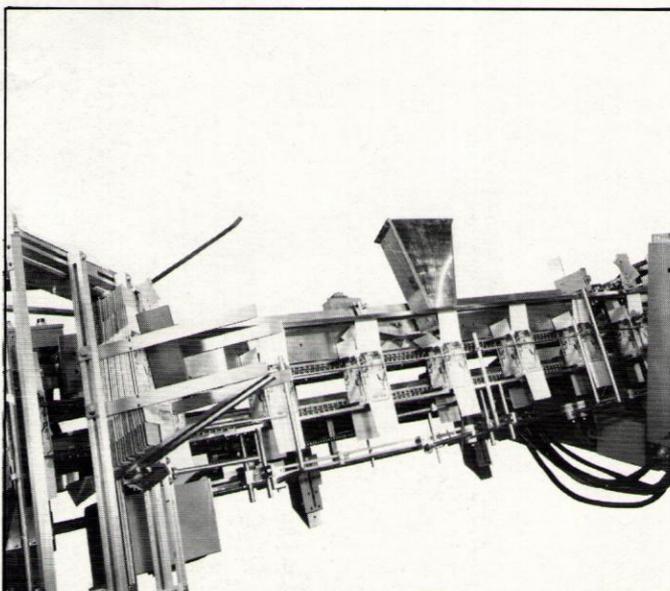
The Langen B1 Convertible. Worth getting into.

Low price is just one benefit you get with the B1 Manuload

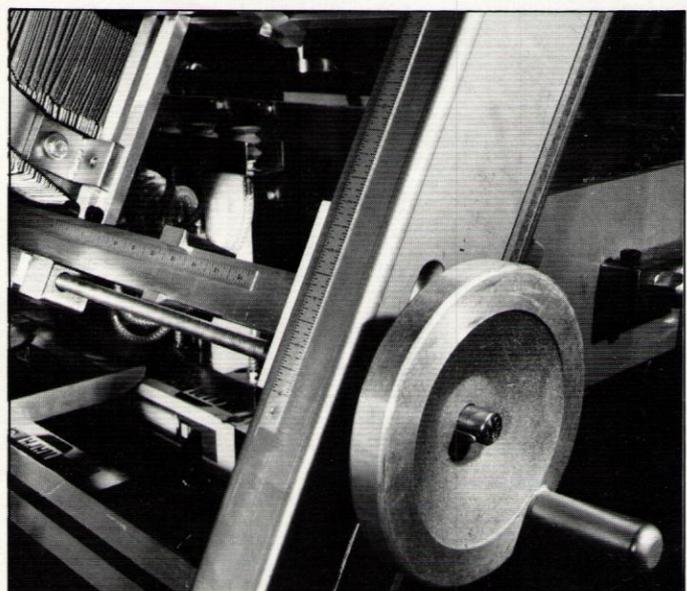
B1 Manuload is the basic cartoner. It's a continuous motion horizontal fill machine that is designed to permit easy loading of a broad variety of carton sizes and shapes at speeds up to 240 per minute. Of heavy duty three-part modular construction, this cartoner



- Intermittent Motion
- Multiple Pitch Indexing
- 0-30° Tilt
- 0-30° Tilt



Wine Bag-In-Box B1 - 60° Tilt



Quick change carton magazine

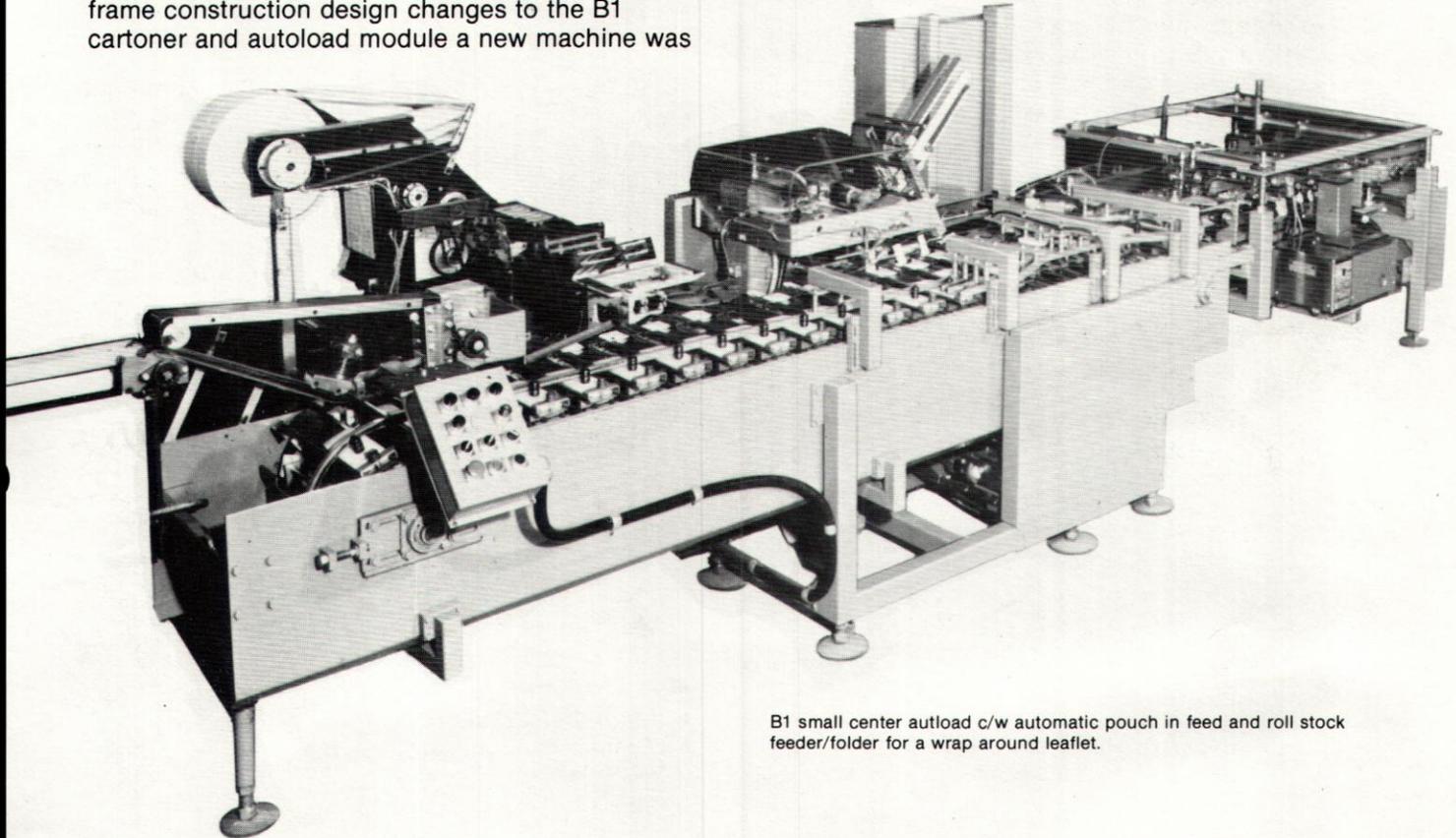
B1 – SCA Small Center Cartoner

Available in manuload or autoload — Langen has a compact B1.

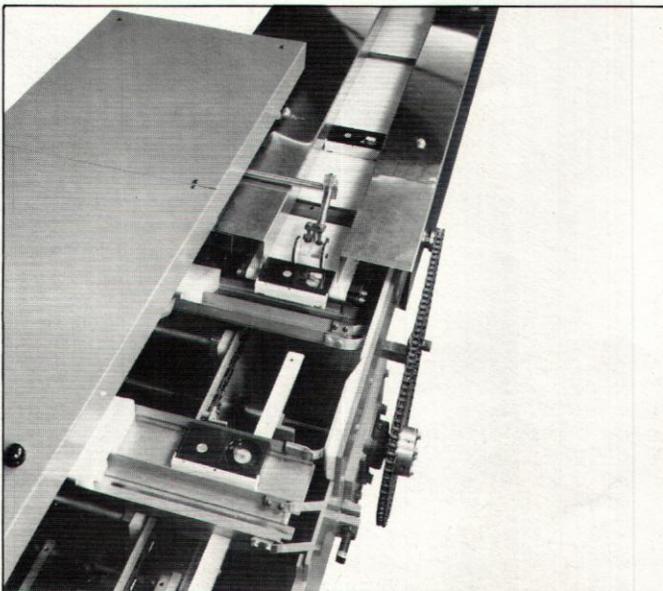
The objective behind the design of the Langen small center cartoning system is to offer the standardized model B1 in a smaller version for small floor space requirements including the pharmaceutical and cosmetic industries. With a few frame construction design changes to the B1 cartoner and autoload module a new machine was

born. The standard length of the small center B1 is 12½ feet. It offers a high speed range capability depending upon the chain pitch requirement and product type. It is capable to run the same carton size range in length and width dimensions as the standard B1 autoload. In depth dimension the size range is still impressive at (2½") 3¾" - 9" for autoload and (2½") 3¾" - 14" for manuload.

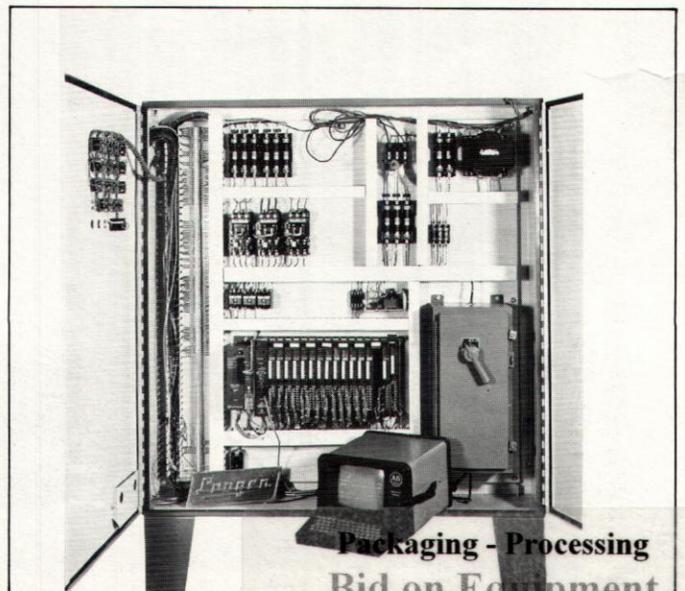
See the chart on the back page of this brochure for carton size ranges and speed ranges at different chain pitch requirements.



B1 small center autoload c/w automatic pouch in feed and roll stock feeder/folder for a wrap around leaflet.



Special infeed systems



Programmable logic controller

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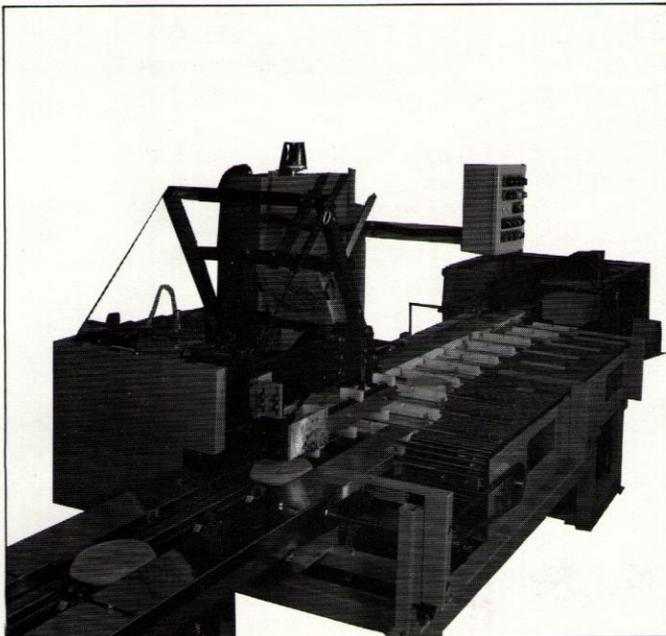
B1 – MTA Magne-Track Autoload

For automatic loading of trays and regular shaped products — the Langen magne-track autoload system.

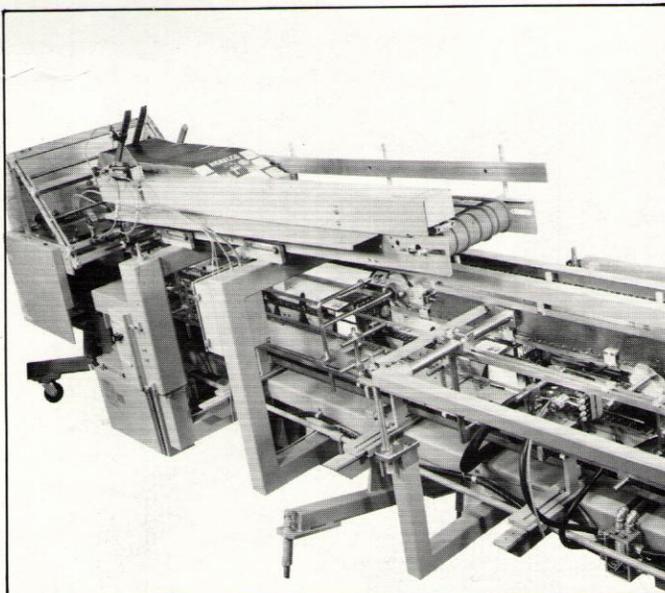
Innovation in design at Langen first involves a thorough study of the application. Then, in the most practical and economical way, design a system that capitalizes on the modular, flexible, convertible and standardized design of the popular Langen B1 cartoner.

Langen has concentrated much of their engineering time to adapting and designing infeed and autoload systems to complement the B1 cartoner.

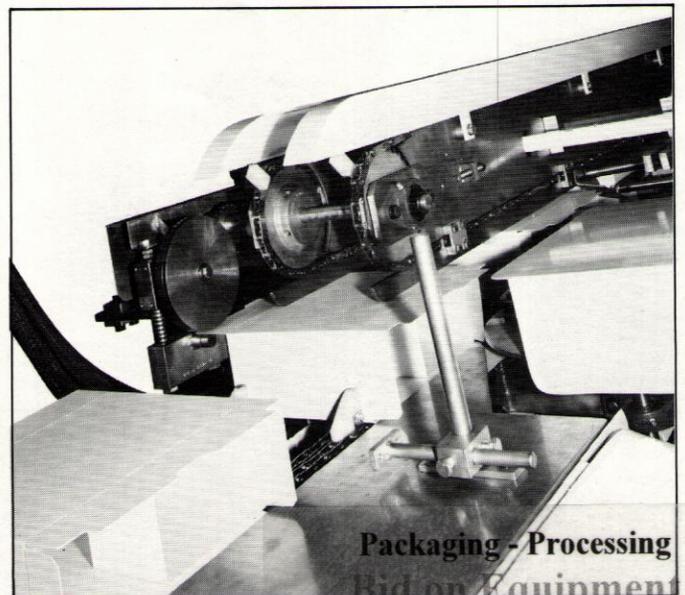
The magne-track autoload module and the accompanying infeed conveyor system are presently being used in many applications. The system is predominantly constructed of stainless steel. Upstream, the infeed system accepts any regular flat bottom shaped product at random (eg. frozen food trays, pizzas, video tapes, etc.). The infeed system spaces and transports the product to a dead plate where a transfer paddle, in time with the magne-track autoload, gently transfers the product in between the product guides on the magne-track module. Magne-track will automatically accept the product from a manual or automatic feeding mechanism and is equipped with "no product — no carton" and "no carton — no load" interlocks. The magnetic loading cam mechanism provides extremely reliable overload protection and accomplishes the "no carton — no load" with no moving parts for a jam-free "gate." The product guides on magne-track are easily and quickly re-positioned for product size change overs.



B1-MTA magne-track autoload system



Tiltable extended carton magazine



Carton squaring chain and deboss coder

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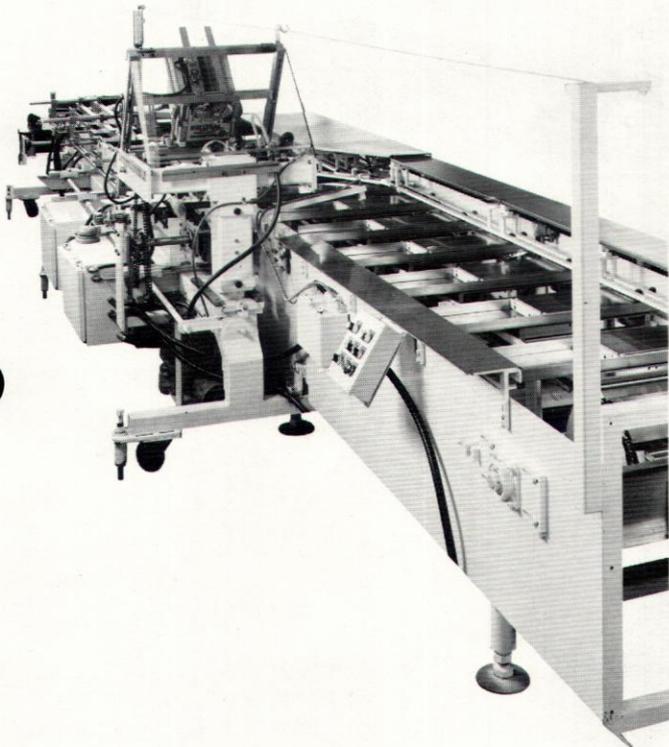
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B1 – Sliding Bucket Autoload

comes with a wide range of standard features that make it fully flexible and adaptable. These include Langen's patented dual position high speed rotary carton feeder, choice of closure systems, quickly and fully adjustable bed to accommodate a wide range of carton sizes without change parts, elevated control panel, plus many others. (See back page for full list of standard and optional features.) And remember, the B1 Manuload has the built-in capacity for expansion to the Autoload when your production requirements go up.

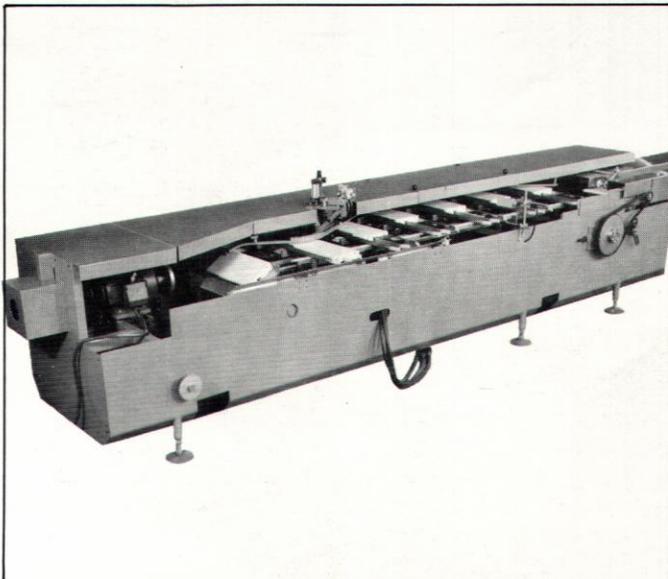
Read about it opposite.

B1 Manuload. The cartoner for today when you're thinking about tomorrow.

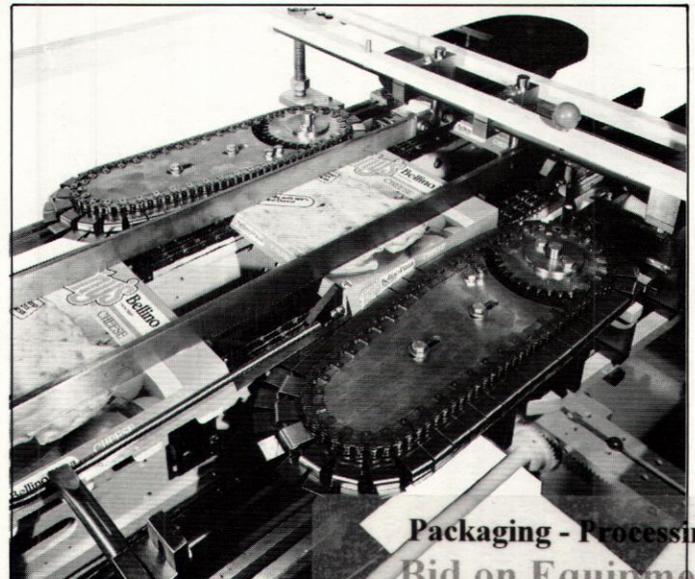


For higher speeds, greater flexibility and reliability at a reasonable price. It's the B1 Autoload

The Autoload is what the convertible side of the B1 is all about. To arrive at an Autoload we add the Autoload module to the Manuload. And because we have designed the B1 cartoner with expansion and modularity in mind, we can convert a Manuload to Autoload right in your plant when your production requirements call for automatic operation or higher cartoning speeds. The cost of doing this is much lower than that of machine replacement. However, you may have requirements for an Autoload right now. Fine. We can build one for you that will give up to 240 cartons a minute. Standard on this machine are such important features as continuous motion for smoother operation at speed, choice of tilting style or sliding style load buckets, choice of closing systems, increased carton size range, increased magazine capacity for higher speeds, plus many others.



Sliding bucket convertible AL module



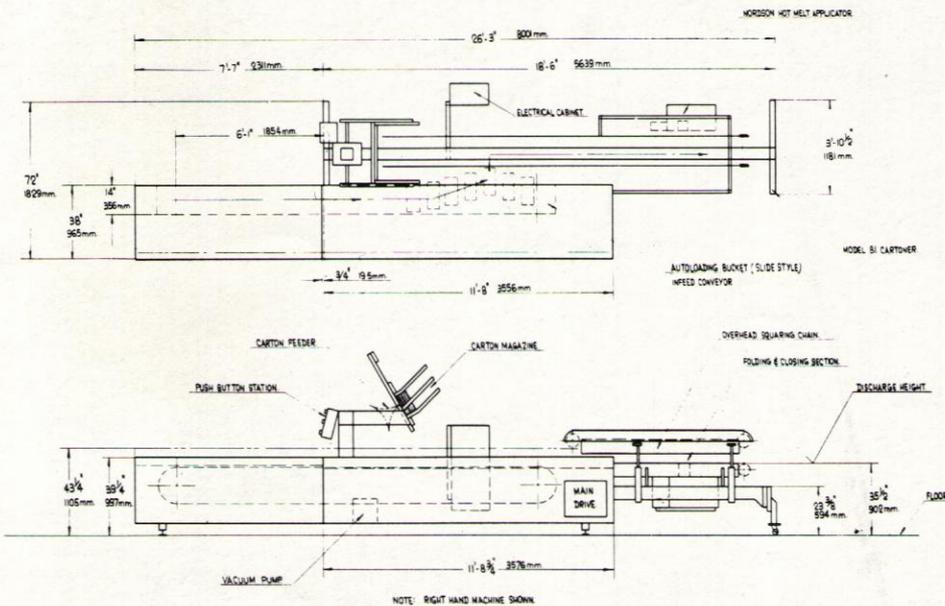
Sure-Track Tuck Mechanism

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B1 Manuload/Autoload



Carton size range for

B1 Manuload

B1 Autoload

B1 Small Center Manuload

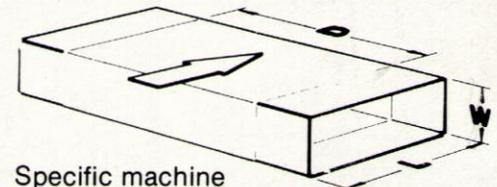
Minimum in. 1 3/4 x 1/2 x 3 3/4 (2 1/2)
mm. 45 x 12 x 95 (64)

Maximum in. 12 x 6 (9") x 14
mm. 35 x 152 (229) x 356

B1 Small Center Autoload

Minimum in. 1 3/4 x 1/2 x 3 3/4 (2 1/2)
mm. 45 x 12 x 95 (64)

Maximum in. 12 x 6 (9") x 9
mm. 35 x 152 (229) x 229



Specific machine arrangements may or may not allow minimums, maximums or combinations to be run. Check with Langen.

Options Available

- Extended or Reduced Pitches
- Open Beam Split Frame, Widened and Other Frame Arrangements
- 0° to 30° Adjustable Tilting Style Frame
- Intermittent Motion, Cylinder Operated Flap Closers, Multiple Pitch Indexing
- Special Carton Size Ranges
- Reciprocating Carton Feeder
- Left Hand Arrangement
- 3', 9' or 12' Load Areas
- Features to Run Corrugated Cartons, Overlapping Dust Flaps, 5 Flap Closures, Special Closures and Wall Constructions, 5 Panel Carton
- Speeds from Less than 10 up to 240 Cartons per minute
- Lengthened Carton Magazines, Inclined or Horizontal
- Foot or Knee Solenoid Operated Vacuum Shut Off
- Skip Carton Feed With Switch
- Special Parts Finishes for USDA and Other Approvals
- 1 Phase Electrics
- Explosion Proof Electrics or Wet Environment, Special Controls and Arrangements
- Cold Glue Adhesive System, Roll or Spray, Compression Conveyor
- Hot Melt Reactivation
- Tuck Closure, One or Both Ends, Straight, Reverse, Base Lock, Tab Lock, High Speed Continuous
- Overhead Squaring Through Closure Area With Quick Change Single Point Raising
- Product Infeed Conveyors to Suit Application
- Automatic Load Modules and Infeed Systems
- 3 H.P. Drive With Autoload Module
- Discharge Speed Up Belts or Rear Lug Travel Extension
- Coupon or Leaflet Folders, Feeders and Placers
- Cammed Carton Bowing Through Load Area
- Special Guarding or Paint Colour to Suit Application
- Single or Double Deboss or Porelon Wheel Ink Type Code Daters
- Carton Counter, Spares Sets, Emergency Stop Cord, Remote Jog Switch
- Full Domestic or Overseas Crating

Speed range for standard and small center cartons.

(speed in cartons per minute)

Pitch	Minimum	Optimum	Maximum
3"	120	600	720*
4 1/2"	80	400	480*
6"	60	300	360
9"	40	200	240
(12")	30	150	180
18"	20	100	120
27"	13	67	80

* The maximum linear chain speeds are fixed to avoid excessive chain wear. Some speed ranges listed in the maximum column are impractical for efficient carton feeding. The chart illustrates the effect of pitch change only.

Langen B1 Manuload/Autoload
Value for your investment

Langen

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