

**Machine description C-1000-Tape Case Erector**



## ***Machine Selection***

### ***C-1000-Tape Case Erector:***

Thank you for your interest in the Lantech C-Series. The C-Series continues to be the most popular and best performing case erector in the industry. With over 1500 C-Series case erector machines in the field you can feel very confident that this machine will perform to your satisfaction.

### ***Here's how it works:***

The C-1000-Tape Case Erector is a case erector from the standard Lantech series. All standard equipment use proven techniques from the Lantech machine program. With this very compact case erector it is possible to handle a large number of different sizes with a high degree of reliability. The price / performance ratio is excellent.

Its modest dimensions make integration possible in almost every production environment. The set-up time, converting from one box size to the next, is just between 1 and 2 minutes.

The components incorporated in our machine have been selected with the utmost care in order to guarantee our customers years of maximum performance from their installation.

We understand some of the labor challenges facing production managers today. That's why we have spent a considerable amount of effort developing new technologies to make the job of erecting your cases easier and easier. We also know that there may be more than one person operating the case erector, so it is critical that our machines are easy to use.

### **Ergonomic blanks magazine:**



In the ergonomic developed blank magazine, blanks can easily be loaded due to the "walk-in" magazine. The magazine has in basic execution an effective length of 1340mm. With this length about 200 blanks can be stored (B-flute 3mm). The blanks are placed on conveyor belts which transport them step by step towards the pick-up section.



Automated height adjustment is done by the touch screen panel. The adjustments can easily be read from measure scales.



The adjustments of the blank magazine are done by hinged levers. The adjustments can easily be read from measure scales

## The vacuum pick up frame:



The vacuum pick-up frame takes the unfolded blank on the long and the short side by means of 8 suction cups. At this stage these two sides are still in one (vertical) plane. The position of the suction cups depends on the case dimensions and can easily be adjusted with sliding beams.

With the next move the vacuum pick-up frame hinges back to an angle of exactly 90 degrees. This move opens the blank into a case with open flaps. During this move the blank is always held on two sides.

## The flap folding section:



Once the blank is entirely opened, the inner flaps are folded by the inner flap folders. In the forward direction of the flap folder a photo cell checks the presence of the blank. The distance between the inner flap folders is determined by the length of the case and can simply be adjusted by levers with linear counters.

Immediately after that the outer flap folders will come up. The distance between the outer flap folders is adjustable by a hand wheel with a linear counter. Hereafter the outer flap folders will close the long flaps and lock the case into a fixed position. This results in an optimal control over the case. The vacuum on the suction cups is switched off only after all flaps are closed.

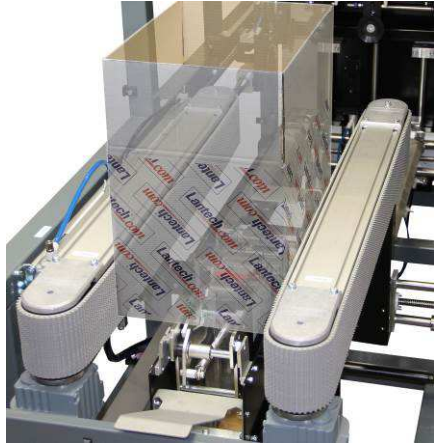
With this the suction cups will retract 5 mm to avoid wear on the cups while the case is being transported. Holding the case on two sides gives the case higher stability, so that cases of a poorer quality can also be erected.

## The pusher:



After the flaps are folded the pusher forwards the case in the direction of the closing section. During this movement the case is slid out of the outer flap folders and pushed between the two transport belts so that the case remains constantly under perfect control.

## Closing unit:



The tape closing unit consists of two super grip conveyor belts which transport the case while tape is being applied on its bottom. The belts are equipped with spring loaded rolls and specially designed to have a maximum grip on the case to avoid the case from going up.

## Safety:



The blank magazine is provided with side curtains and transparent top curtain, mounted on the upper retainer. The curtains will move with the adjustment of the blank magazine in order to prevent entrance in the machine.

## Touch Screen Panel:



The operator control box is standard equipped with a touch screen panel, on which all necessary settings can be made. All messages will appear on the touch screen display with information about the status of the machine and eventual next actions that should be executed by the operator.

The display text will be in the EU language of the country of machine placement. For machine placement outside the EU the display text will be English.



## Technical specifications:

Machine outfeed height	: Machine outfeed height 600 mm ± 30mm
Electrical connection	: 3 x 400v - 50hz. - n - earthed
Compressed air connection	: 6 Bar
Noise level	: ≤ 80 Dba

## Protective coating and environment:

Protective coating colour ral nr. 7011

The machine is suitable for operation in a dry environment at a temperature between +3°C and +40°C.

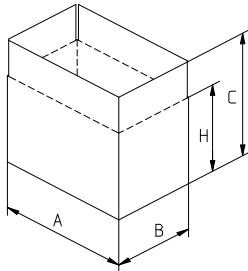
## Machine components:

Control cabinet	: Rittal (colour RAL nr. 7035)
Operator display	: Siemens KTP-400 color
Switches (thermal, main, magnetic)	: Eaton (Moeller Electric)
Safety relays	: Pilz
Connecting terminals	: Weidmüller
Cable trunking	: Tehalit PVC grey (closed with a lid, open at both ends)
PLC	: Siemens ET200s
Frequency controllers	: Control Techniques
Photo cells	: Sick
Proximity switches	: Sick
Pneumatic components	: Festo / SMC
Drives	: Nord
Door switch	: Schmersal
Closing unit	: Lantech TH-250

(unless specified different in the Machine Configuration section)

## Specifications

### Case dimensions:



FEFCO 0201 / 0200

The case dimensions of cases that can be erected on this machine are:

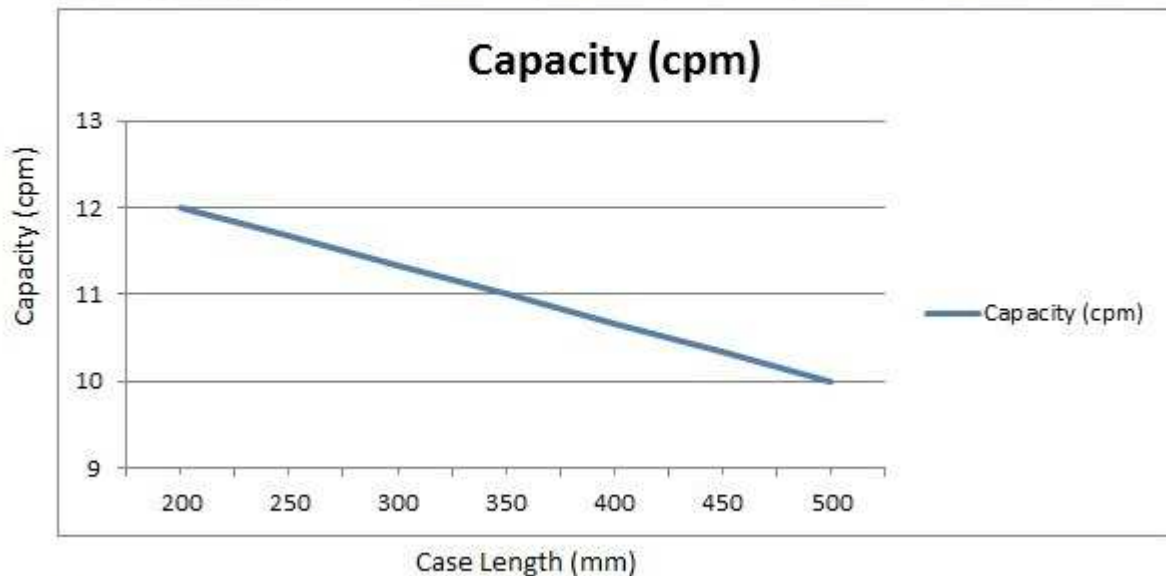
	Minimum	Maximum
Length outer (A)	200 mm	500 mm
Width outer (B)	150 mm	325 mm
Height outer (C)	150 mm	520 mm

All sizes mentioned are based on the outside dimensions of the case.

Corrugated quality:

B-flute, C-flute, E-flute or Combinations of these.

C-1000	Case Length (mm)						
	200	250	300	350	400	450	500
Capacity (cpm)	12	11,67	11,33	11	10,67	10,33	10



\* This Speed Matrix is valid only in combination with the new design pick-up frame with movable arm

### Speed range:

8 – 25 cases per minute

## Machine Lay-out

For proposal purposes only:

