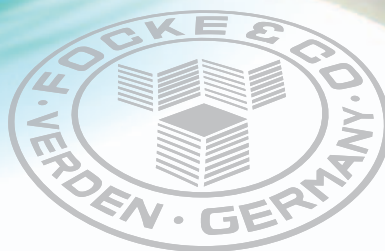
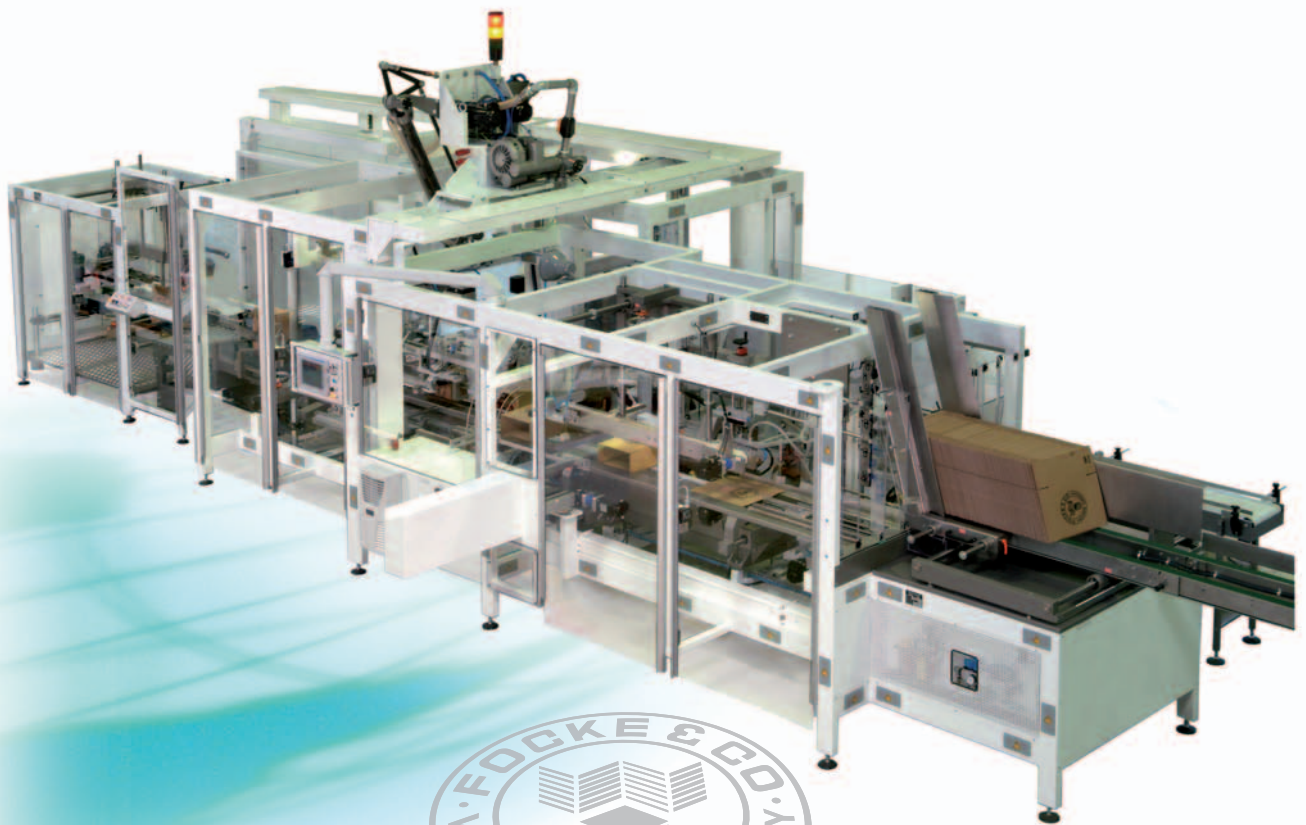




# General Packaging

## TL Series

Top Load Pick & Place  
Case Packer



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# Key Characteristics

**Case Packer TL Series  
for many kinds of products,  
in particular:**

- ▶ Dry Foods
- ▶ Cereals
- ▶ Hygiene & Paper
- ▶ Tissue & Towel
- ▶ Pharmaceuticals
- ▶ Soaps & Cosmetics
- ▶ Candy & Confectionary
- ▶ Tobacco & Cigarettes



Four individual modules provide maximum flexibility of design. The modules consist of a Collation System, a Case Erecting module, Robotic Pick & Place top loading module, and finally a Closing module. Cases are positively transported through erecting, folding, loading, closing and sealing.

## Mode of operation

### Collation

Positive counting and grouping is controlled by variable speed conveyor belts and servo-controlled pusher and holder plates. A range of orientation devices enables the product to be turned and collated in six different orientations.

### Case Erecting

A mechanical driven case erecting mechanism ensures positive and repeatable case opening and positioning. Design ensures rapid and repeatable size changes without the need for tools. Sensors check the case for position prior to case loading.

### Pick & Place

The top load module is equipped with a high speed robotic pick & place unit. Product handling by either vacuum or mechanical pick-up heads enable a wide variety of products to be handled. Product guides ensure that even the most awkward of products are positively guided into the case.

### Case Closing

Top and bottom sealing with hotmelt and/or tape. The hotmelt system is equipped with an automatic pellet feed. Automatic tape splicing systems which allows a tape roll change without stopping the machine are available.



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### Speed

TL 1: up to 10 cases/minute,  
TL 2: up to 20 cases/minute,  
TL 3: up to 30 cases/minute,  
all depending from product and collation.

### Control system

Siemens  
Allen-Bradley

### Power consumption

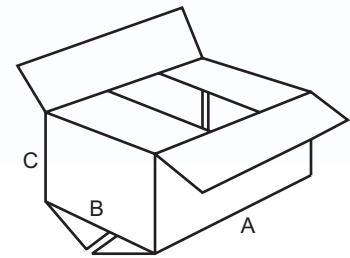
machine: 10 kW  
hotmelt: up to 7 kW

### Air consumption

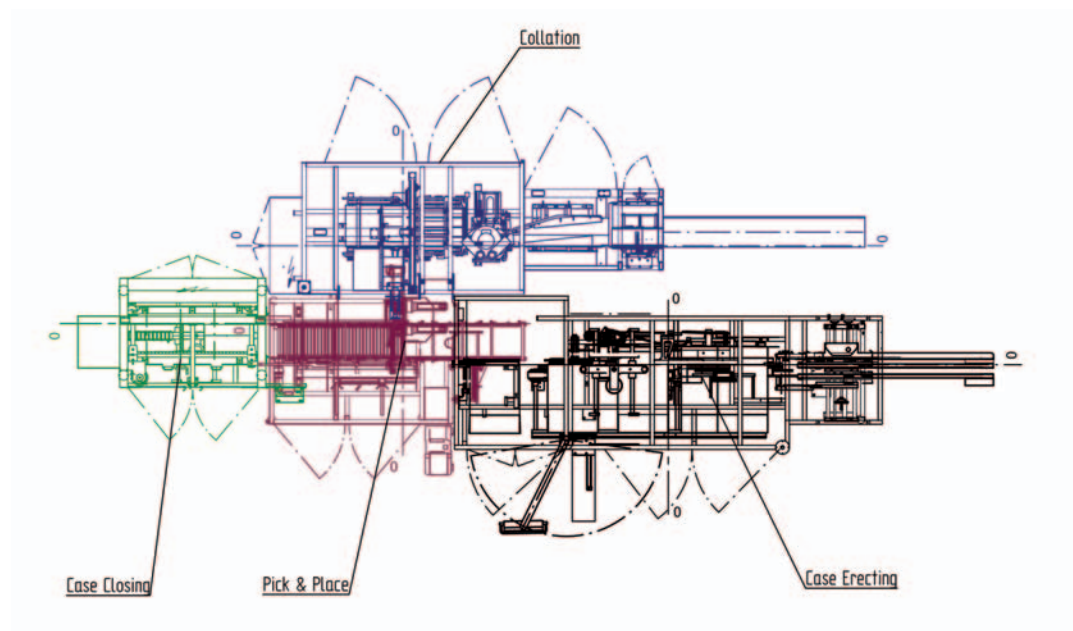
5 NL/case, 6 bar,  
½" - connection

Size range	from	up to
A	180 mm	620 mm
B	150 mm	400 mm
C	150 mm	620 mm

other sizes on request



# Technical Data Basic Layout



Subject to changes

## Locations

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