



**MBO**



**T700/T800**  
**PERFECTION**

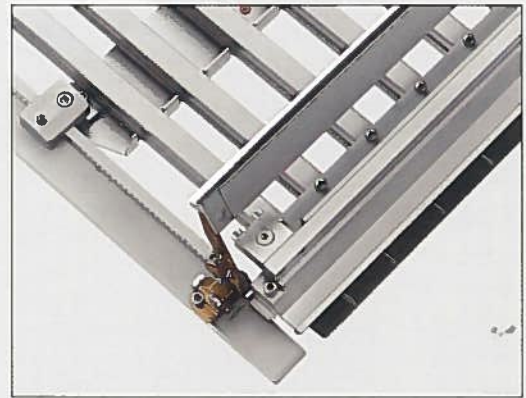
**High-Efficiency  
Buckle Folding Machines**

# T700/T800 PERFECTIO



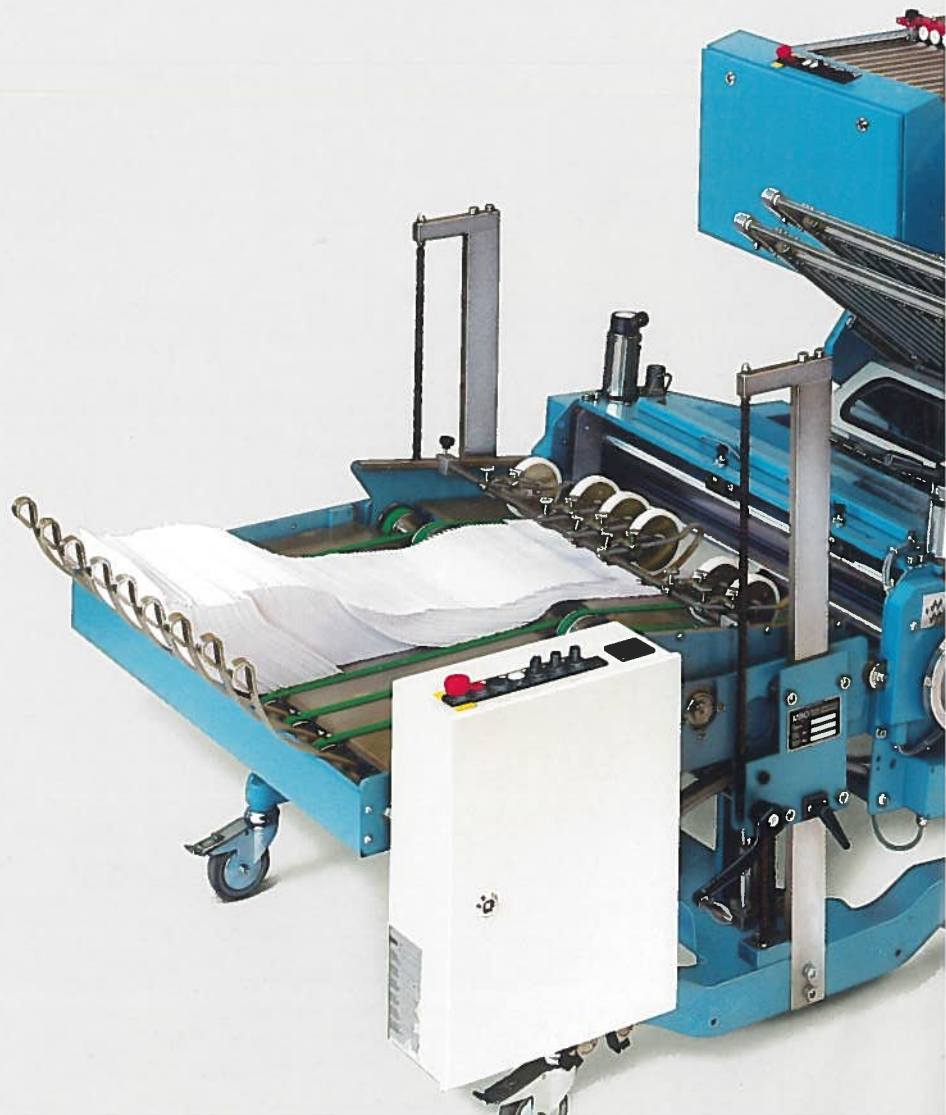
**Combiplate** – Option  
Combination buckle plates

“The economical trick”: Short make-ready times. More comfort. No removal of the buckle plate. The sheet stop becomes a deflector in its 0 position. Better infeed control as the upper plate lip is provided with a continuous sheet contact area. The lower plate lip has less surface contact, minimizing the friction and reducing the static. Reduced sheet contact.



**Buckle plates with swing deflectors**

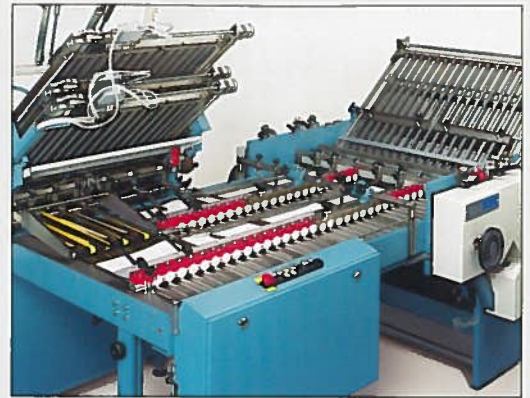
Solid construction. Stainless-steel plate ribs. Ceramic coated top plate lip. The lower plate lip has less surface contact, minimizing friction and reducing static. Reduced sheet contact.





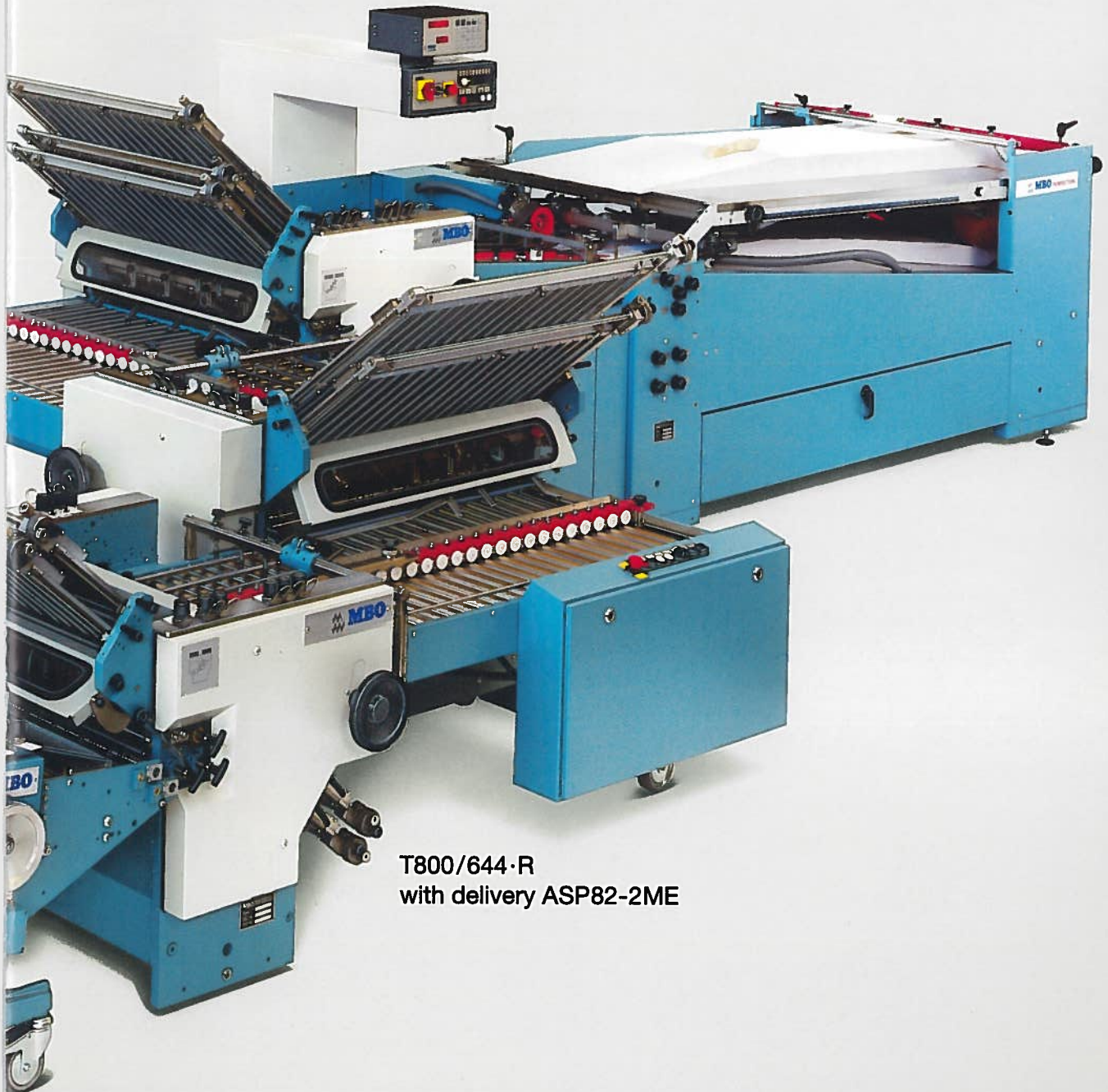
**Noise damping hoods** – Option  
Twin-opening

Maximum noise reduction. Easy access.  
Uncomplicated and simple handling.

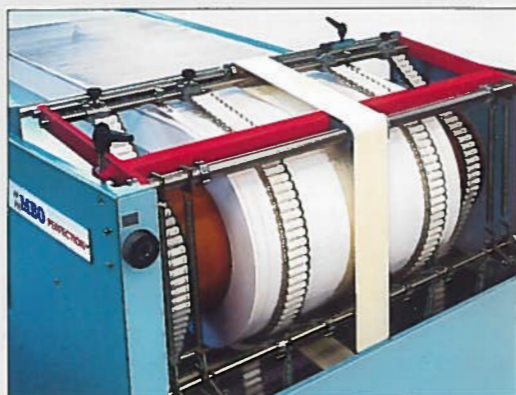


**Double-stream device** – Option

Economical through 2-up production when  
using the double-stream device at folding  
units 2 to 4.



**T800/644-R**  
with delivery ASP82-2ME



**Dualfeed**  
Continuous feeder

Low loading height. Dual paper transfer system around the drum combining a centrally located fixed position transport belt and the easily adjustable roller chain guides. Quick make-ready times, easy handling. Centrally located feeder controls.



**Palletized feeder FP**

Dual-entry loading, front and side. Lateral adjustment of feeder platform. Two speeds for raising pile. Maximum size of pallet 82 x 120 cm. Five front air nozzles, optional side blower. Sheet separation through electronically controlled feeder head "vaculift" with pressure foot. Motorized height adjustment through centrally located pressure foot between the suckers. Pile height incl. pallet preferably 95 cm or 120 cm.

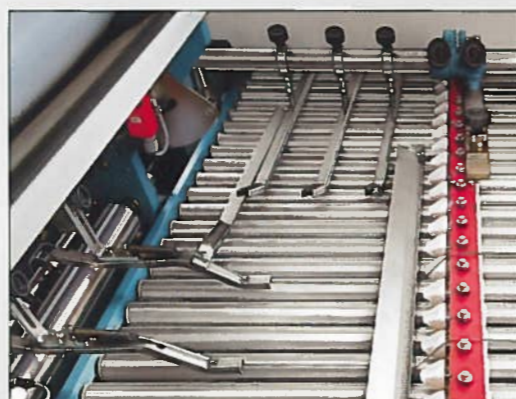


**VIVAS**

Controlled routing: Coordinated Vacu-Infeed and Vacu-Alignment System.

**Vacu-Infeed:** New vacubelt instead of suction wheel. High productivity. Adjustable power of suction and pick-up point. Mark-free and smooth sheet run into the alignment table.

**Vacu-Alignment:** Vacu-alignment belt instead of ball rail. Infinitely adjustable additional vacuum at front pulley for efficient sheet transfer. Short make-ready times. Mark-free sheet transportation. MBO anti-static lattice-type alignment table.



**High-Speed-Guide**

High-speed precision sheet alignment for cross-carriers without transportation balls. Secure sheet transportation by driven large-diameter conical wheels. Non-slip sheet drive from top and bottom. Mark-free production. Precise sheet control even at high speed, beneficial for the subsequent operations, i.e. folding, perforating, scoring, cutting, gluing, etc.

**Sheet guide system**

Optimal sheet guide into the subsequent folding units by newly developed sheet guide elements.



**Spiral foldrollers**

Famous for their excellent grip and quiet running. No marking on sensitive papers. 44 mm diameter.

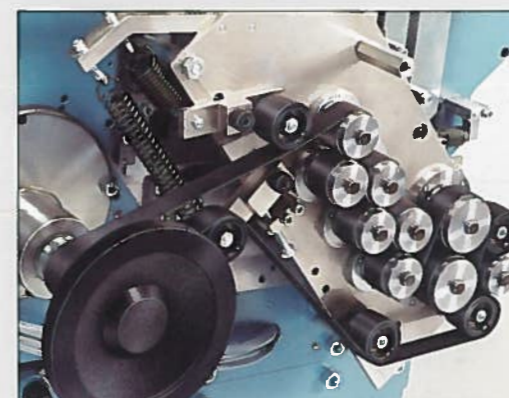
**Slitter shafts with plug bearings**

Quickly removeable in all folding units. Stainless-steel, solid construction. 35 mm diameter.



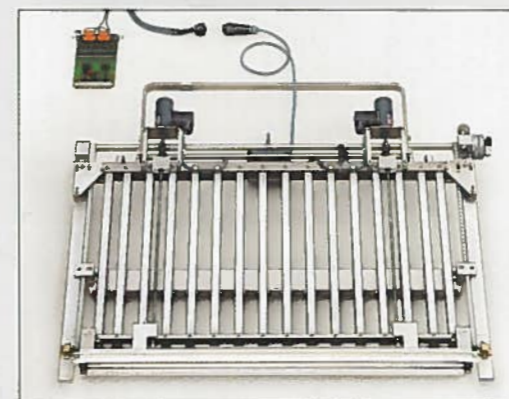
**High-Grip spiral foldrollers – Option**

High-Grip and unproblematic adjustment. Increased productivity for special folding impositions and sensitive papers, such as bible, recycled, web etc. New High-Grip spiral foldrollers by MBO are based on the success of 20 years, with special segmented soft PU foldrollers on large machines.



**Belt drive system**

in the entire machine. Proven system, has been applied to more than 100.000 units over 25 years. Extremely quiet running. Automatic belt tensioning.



**Processor controlled gatefold plate – Option**

For production of a closed gatefold. Short make-ready times. Easy handling. Processor controlled. No installation and setting of photocells are necessary. By entering the first folding length the motion of the moveable top plate lip is automatically calculated.



### MC-Control

Machine control with main control panel

The Micro-Processor-Control MC enables you to achieve an increased economicalness and decreased make-ready time.

The sheet is measured without entering the lengths, paths or times and, in relation to the sheet size, the suction length and sheet gap are determined and adjusted.

Two sheet infeed systems are available:

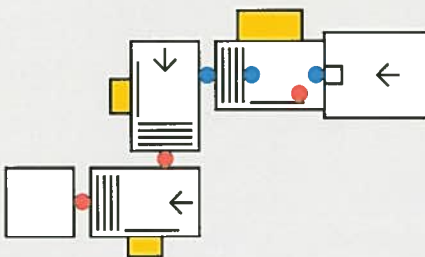
- Photocell control
- Impulse control

The electronic sheet monitoring in the first unit includes sheet monitoring, jam-up and sheet length control. Thereby it contributes to a safe production.

The sheet monitoring system is optionally also available for the subsequent folding units.

An error display as well as a multi-functional batch counter are integrated into the control system.

This batch counter offers the possibility to extend for Production Monitoring and Reporting System BDE. The data output occurs through printer or PC.



- Control panel/processor control  
Batch counter (at main control panel)
- Sensors for sheet infeed control and sheet monitoring
- Sheet control/Double sheet control (electro-mechanically)



### Rapidset – Option

Computerized make-ready system

This system decreased make-ready times and minimized production times. The control is based on automatic machine functions.

The very clearly arranged menu controlled operation permits automatic folding imposition and sheet size programming.

You may fall back directly on 62 pre-programmed folding impositions based on the MBO folding imposition catalogue. In addition, 250 self-designed and programmable impositions can be stored.

Buckle plates and sheet deflectors are currently automated. The precondition of such automation is the use of the combination buckle plate by MBO.

All other setting parameters such as roller settings, sidelay etc. are displayed to the operator.



# Peripheral systems



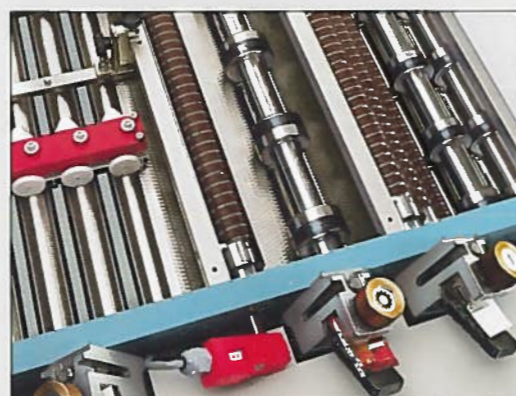
### Mobile knife folding unit Z2 – Option

Knife folding unit Z2 for various purposes, can be rotated through 180°, thus permitting either up- or down stroke folding. Can be used as third folding unit to give U-shaped layout for delivery at operators position. (Attention: size limitation, alternatively Z5 knife unit). Can also be used as folding unit 4.



### Gluing device – Option

The "hhs-Vario-Glue" device enables you to produce 8-, 12-, and 16-pp spine glued signatures as well as edge- and spot-glued signatures. The non-contact glue system applies a precise line of glue dots to the paper.



### Pre-slitter shafts – Option

With an additional set of guide foldrollers. Positive when using timed perforating, cutting-, and gluing systems.

### Twin rear slitter shafts – Option

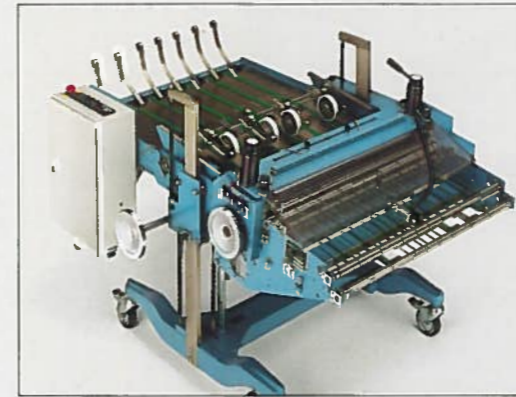
More flexible due to many possibilities to cut, score and perforate, and increased accuracy of processing.



### Mailing device – Option

Simple mailers can be produced with timed perforating-, cutting-, and gluing systems, in conjunction with pre-slitter shafts. The products become an increased advertising appeal and are partially ready for dispatch.

# Delivery systems



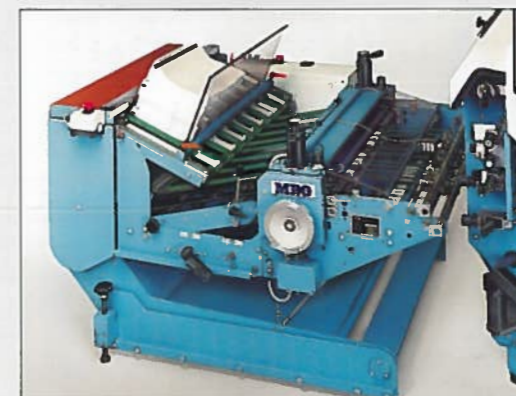
### Mobile stream delivery ASP/2-ME with splitting-, pressing-, and marking device ME

Mobile delivery for one- and multiple-up production, ideal for sensitive products. The sheets are shingled and are slightly vertically with their spine up on the pick-up table. Double pressing rollers, marking device for package movements. Working widths: 66 cm and 82 cm.



### Mobile Vertical Press Stacker Delivery SBAP-ME with splitting-, pressing-, and marking device ME

Mobile delivery for one- and multiple-up production. The signatures are standing vertically down with their spine on the pick-up table. Double pressing rollers, marking device for package movements. Working widths: 46 cm, 72 cm, and 82 cm.



### Mobile pile delivery with marking device FA-ME with splitting device, pressing and marking device ME

Mobile delivery for one- and multiple-up production. The sheets are resting horizontally on the pick-up table. Double pressing rollers. Marking device for package movements. Working widths: 46 cm, 66 cm, and 82 cm.



### Mobile bundling delivery BA 700 System by Palamides

Fully automatic delivery system to create pressed, counted and bundled packages. One-, two- or three-up production. Working width: 70 cm. Package lifter (optional).

# Technical data

## Options/Alternative equipments

Palletized feeder FP, pile height 95 cm or 120 cm

6 buckle plates for folding unit 1 and 2

2 buckle plates for folding unit 3

Sheet-return device RFE for folding unit 3 (various working widths)

More than 6 buckle plates upon request

Pre-slitter shafts with twin-rear slitter shafts

Folding unit 2, 82 cm working width

Noise damping hoods

Double-stream device

Gluing device

Mailing device

Combiplate

Rapidset

Computerized make-ready system

Processor controlled gatefold plate

Production Monitoring System BDE

Printer and cable for Production

Monitoring System BDE

Linkage to a PC for Production

Monitoring System BDE

## Additional equipments

Various peripheral units

Various delivery systems

## Perforating, scoring and cutting devices

Centre bleed trim device

Edge trim device

Multiple perforating device

Punch perforating device

Special scoring device

Crimplack device

## Drive/Speed

Frequency controlled A.C. motors, speed regulation through push buttons for the control of the entire machine.

Settings from all terminals.

10-205 mtrs./Mte.

## Power supply

360-440V AC three-phase/50 Hz

25 Amps totally.

## Maximum sheet size

Continuous feeder

Palletized feeder

## T 700

68 x 104 cm (175 cm)

68 x 104 cm (120 cm)

## T 800

82 x 115 cm (175 cm)

82 x 120 cm

## Minimum sheet size

Continuous feeder

Palletized feeder

\*with small sheet-size device

## T 700

15 x 15 cm

15 x 27 cm

15 x 16 cm

## T 800

15 x 15 cm

15 x 27 cm

15 x 16 cm

## Working widths

Folding unit 1

Folding unit 2

Folding unit 3

Folding unit 4

Knife folding unit Z2

Knife folding unit Z6

Knife folding unit Z5

## T 700

68 cm

68 cm

56 cm

56 cm

48 cm

48 cm

65 cm

## T 800

82 cm

68 or 82 cm

56 cm

56 cm

48 cm

48 cm

65 cm

## Folding lengths of buckle plates

Minimum folding length 6,5 cm

Maximum folding length

Folding unit 1 plate 1-2 65 cm

plate 3-6 44 cm

Folding unit 2 plate 1 65 cm

plate 2-6 44 cm

Folding unit 3 plate 1+3 44 cm

plate 2+4 30 cm

Folding unit 4 plate 1 30 cm

plate 2 25 cm

## Power requirements

Continuous feeder R 0,75 KW

Palletized feeder FP 4,80 KW

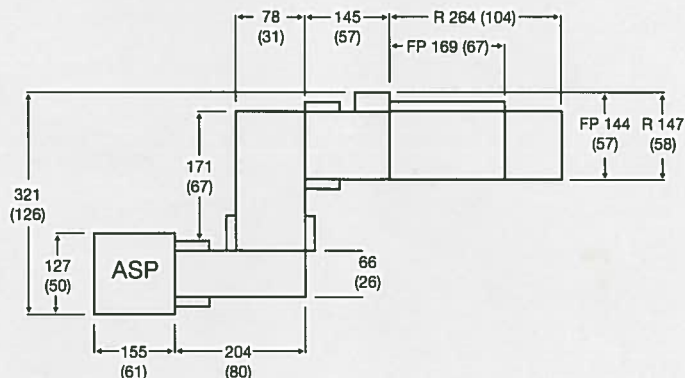
Air pump at R feeder 1,80 KW

Air pump at FP feeder 4,80 KW

Folding unit 1 1,00 KW

Folding unit 2-4 0,75 KW

## Floor plan T 800/444 (Measurements in cm/inches)



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