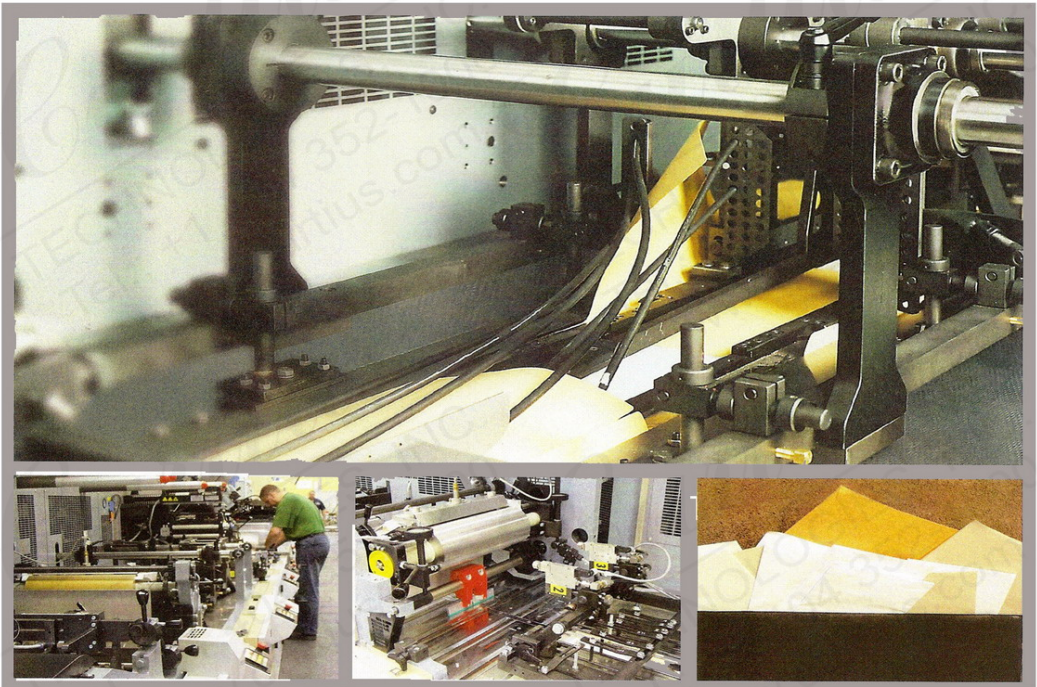


WINKLER+ DÜNNEBIER

WD

341



Envelope and Pocket Machine





Envelope and pocket Machine

HELIOS 341

The modular machine concept of the 341 series suit to the specific demands of the manufacturers of large envelopes and pockets. As detailed below we show three opportunities of combinations:

W+D 341 BC

The basic machine, blank-fed, with center delivery, 1 inside- and 2 outside-flexo-blank printing units, window section as well as remoistenable seal flap gumming

W+D 341 KC

The combination type, reel- and blank fed, with center delivery, 1 inside- and 2 outside-flexo-blank printing units, window section as well as remoistenable seal flap gumming. The flexo printing section StackType-L can be added to this machine as an option.

W+D 341 RE

The reel fed machine, with end delivery, window section as well as remoistenable seal flap gumming. The flexo printing section StackType-L can be added to this machine as an option. The end delivery allows the connection with the automatic packer W+D 910

This series 341 machines has following remarkable benefits

Products

- * Particularly suitable for large-size envelopes and pockets
- * Also particularly suitable for special products e.g. with large multiple windows or special cutting shapes
- * Diamond-shaped envelopes with blank fed machines
- * Center or side seam pockets
- * Straight seal flap and mailing wallets
- * Inner and outer side flaps
- * Gussets
- * Seal flaps with remoistenable gumming, self-seal or pressure-sensitive gumming (hot-melt)

Flexibility and performance

- * Up to 600 envelopes/minute
- * Format data recall
- * Diameter-independent separating cut
- * Flexible and easy-to-operate window section EasyCut magnetic cylinder technology with flexible dies for all cutting sections
- * Non-wearing and size-independent aligner section
- * Processing of difficult paper grades
- * As sheet, reel or combination fed machine with center or end delivery

Product quality and operation

- * Push button adjustment with 0.1 mm increments
- * Control monitor for input, control and information
- * Vacuum transport in side flap folding section
- * Register control for high product quality when processing pre-printed reels
- * Feed for blanks and rectangular sheets
- * Cull gate for waste product removal
- * Ergonomic design
- * Use of lubrication-free and low maintenance vacuum cylinders

Curtius
TECHNOLOGIES, INC





Standard Components



W+D 191 W
automatic paper reel splicer
(W+D 341 KC/RE) suitable for
paper reel diameter up to 1,530
mm and a maximum reel width
of 730 mm



Cutting tower
Cutting tower (W+D 341
KC/RE) with size-independent
separating cutting section. W+D
341 KC with blank feed



Printing section
Blank flexo-printing units (W+D
341 BC/KC) with "pull out"
outside printing units





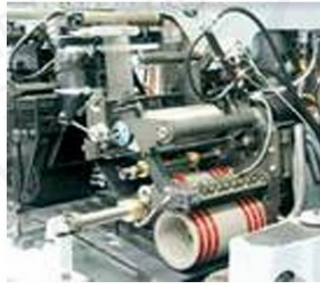
Envelope and pocket Machine

HELIOS 341



EasyCut magnetic cylinder and flexible die

Rotary cutting technology for
form cut on blanks and for
window cut-out



Window section

Window cut-out and window material
patching section for width
up to 190 mm as a standard,
with extra option up to 300 mm



W+D 190

Automatic reel splicer for the
first window section



Side flap folding station

Side flap folding section with
vacuum belt transport



Aligner and seal flap folding section

Maintenance free and size independent
aligner section



Optional Components



Printing

StackType-L: flexo printing stand with individual counter-impression cylinders and a maximum of 6 doctor blade printing units

Second window patching section

Second window patching section, Window cut-out and window material patching width up to 190 mm as a standard, with extra option up to 300 mm



Hot-melt pressure-sensitive gumming section

Section for the application of a silicone paper protection strip with hot melt adhesive for the seal flap



W+D 910 WR

automatic packer for envelopes with end delivery machines(W+D 341 RE)



W+D 930

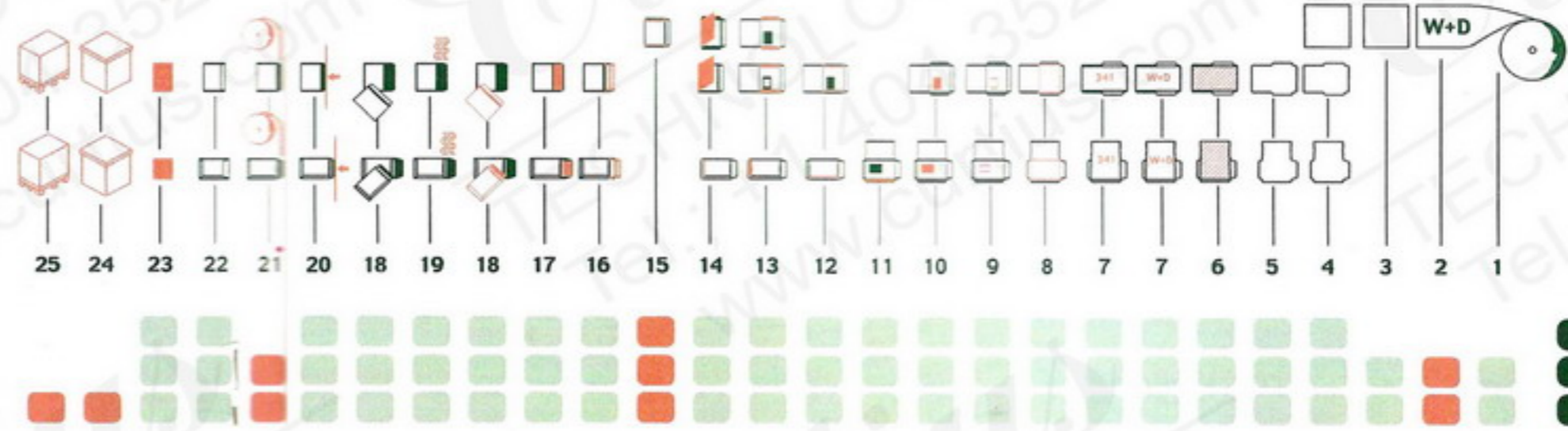
Compact palletizer with automatic pallet change to connect to box output of automatic packer W+D 910 WR





Envelope and pocket Machine

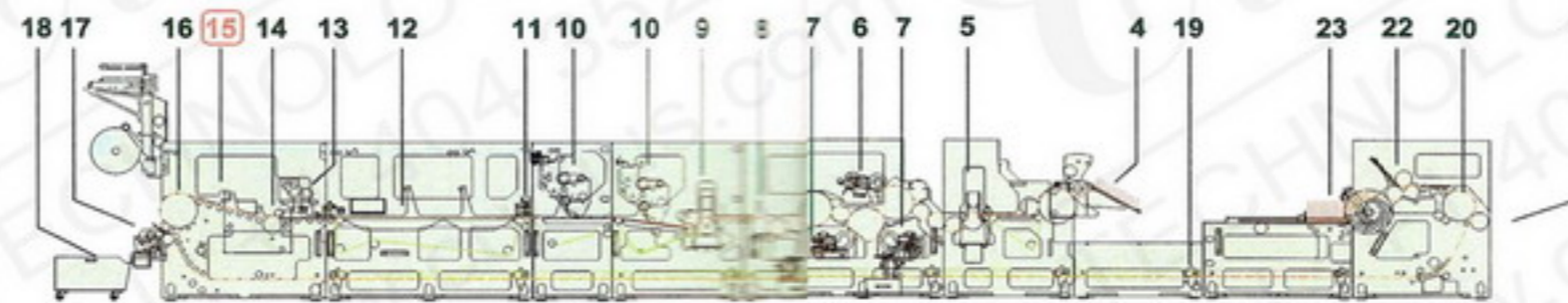
HELIOS 341



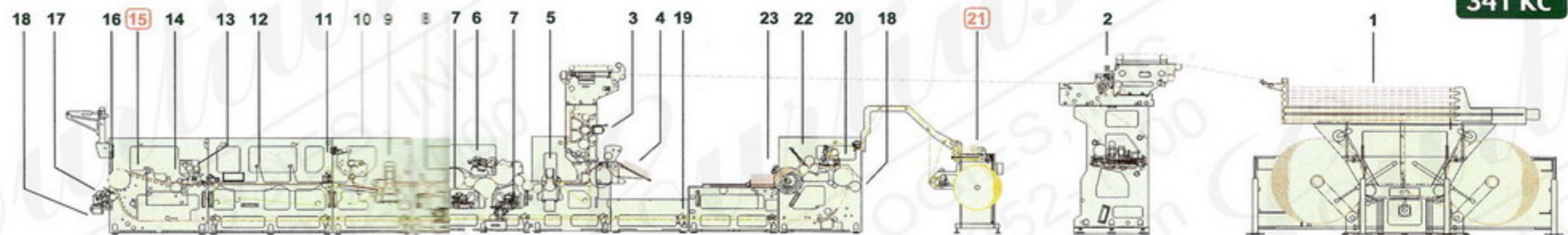
- 341 BC
- 341 KC
- 341 KE

Standard components + optional machine modules

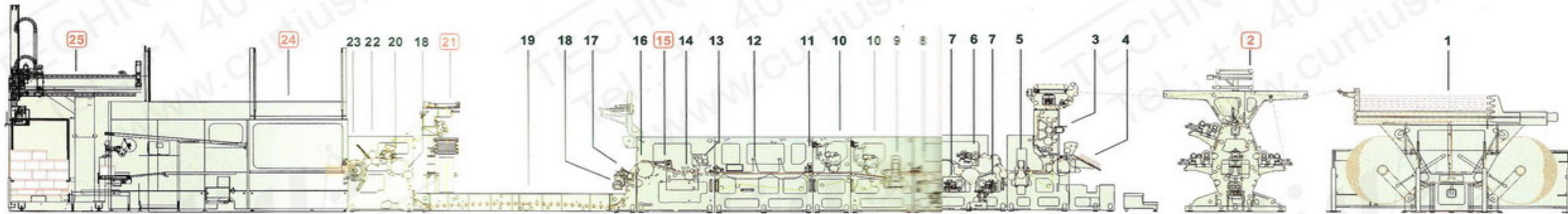
- 01 W+D 191 W Reel splicer
- 02 Flexo printing stack
- 03 Separating cutting section
- 04 Feeder
- 05 Form cutting section
- 06 Flexo inside blank printing unit
- 07 Flexo outside blank printing unit
- 08 Scoring section
- 09 Window cutting section
- 10 Window patching section
- 11 Side flap gumming section (pockets)
- 12 Folding section for inner side flaps
- 13 Side flap gumming section for envelopes, bottom flap gumming section for pockets
- 14 Bottom flap folding section
- 15 Folding tools for outer side flaps
- 16 Staggering section
- 17 Seal flap gumming section
- 18 Product removal device
- 19 Drying section
- 20 Aligner section
- 21 Hot-melt pressure sensitive gumming section
- 22 Seal flap folding section
- 23 Delivery with counter
- 24 W+D 910 WR Automatic packer
- 25 W+D 930 Compact palletizer



341 BC



341 KC

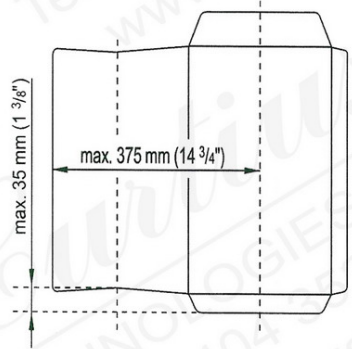
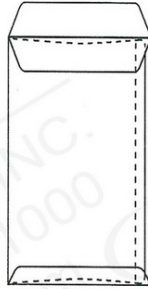
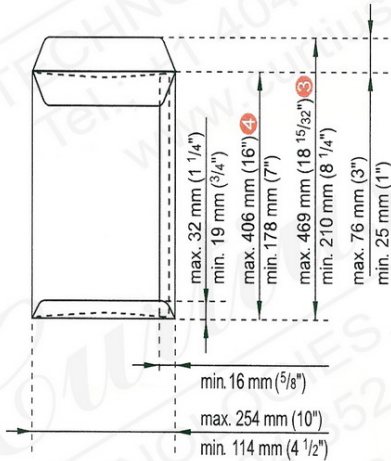


341 KE

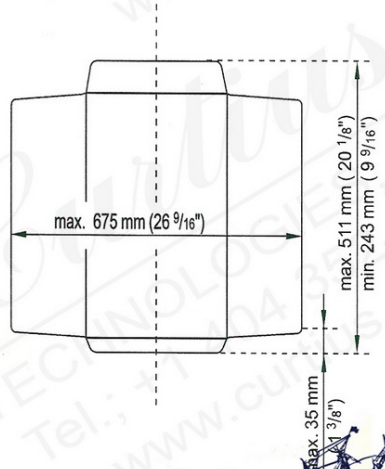
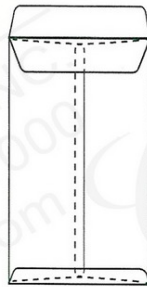
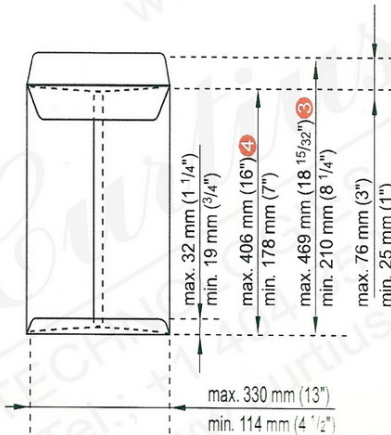


Size ranges for pockets

- 1 Widths exceeding 324 mm (12 3/4") with nozzle gumming only
- 2 When working with rectangular sheets or from the reel max. 560 mm (22 1/32")
- 3 Cut-off length between transfer rollers and separating cylinder max. 496 mm (18 15/32") with nozzle gumming only
- 4 From a format height of 330 mm (13"), formats can be produced with an open seal flap only



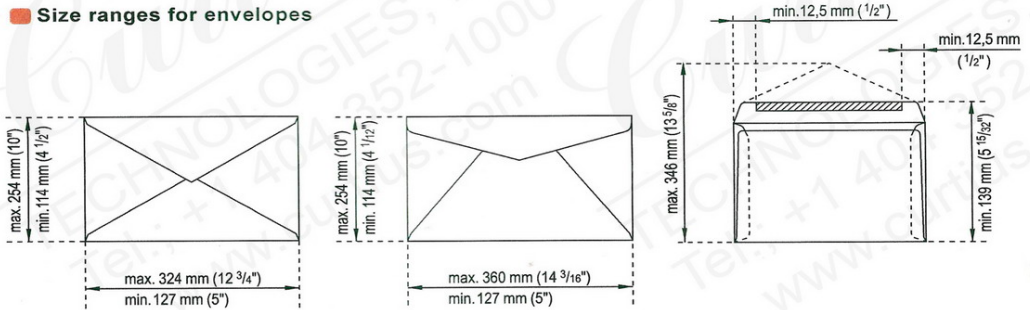
Side seam



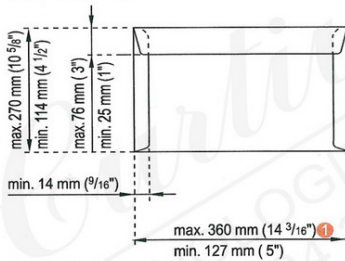
Centre seam



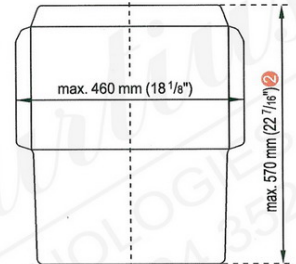
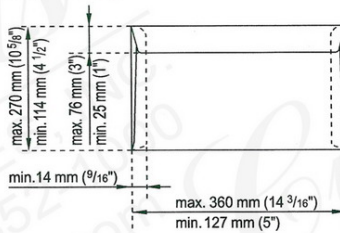
Size ranges for envelopes



Diamond-shape

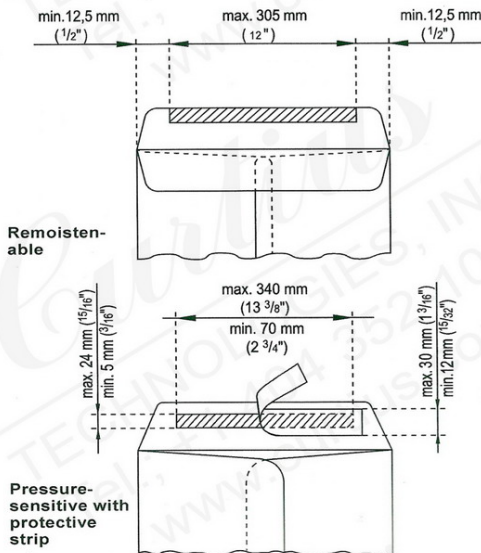


Commercial-style

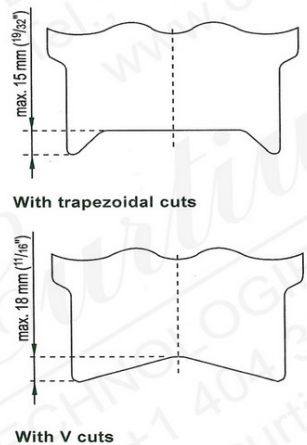


Booklet

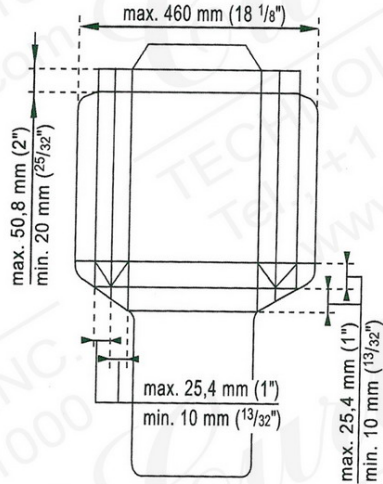
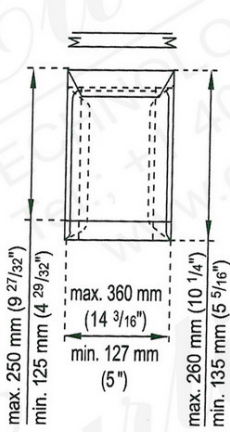
Seal flap gumming



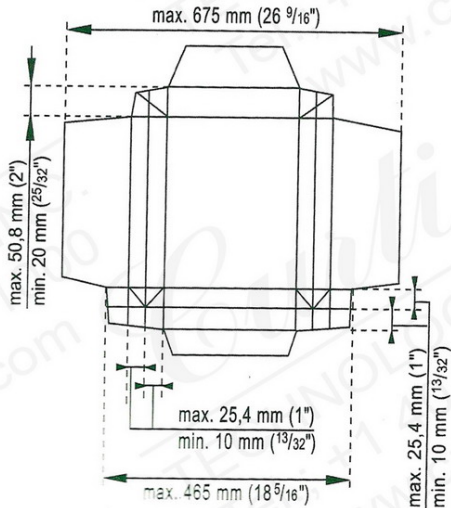
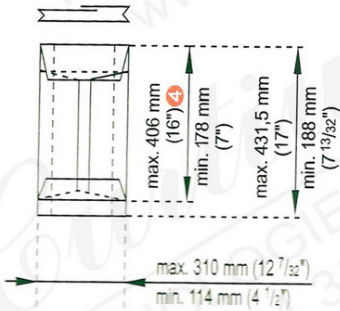
Cut-out depth



Gussets



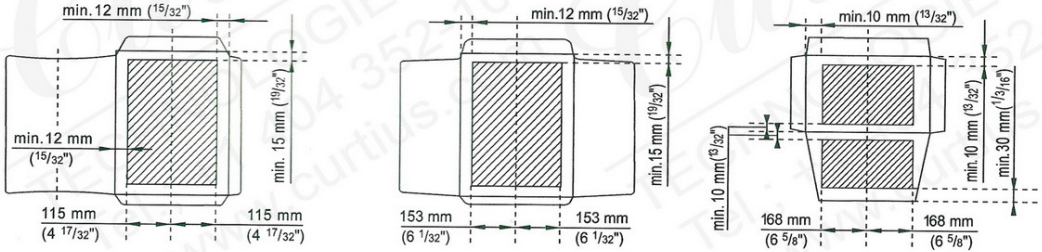
Wallets



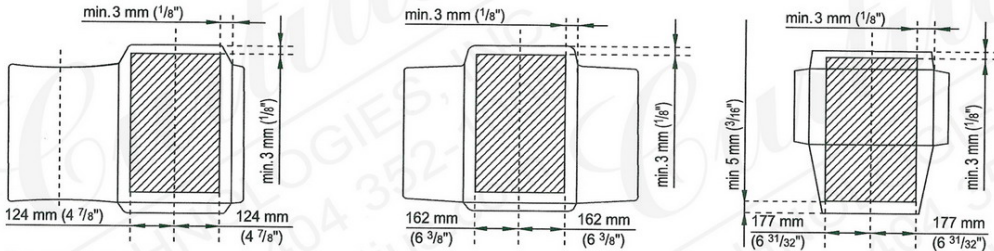
Centre seam pockets



Window range

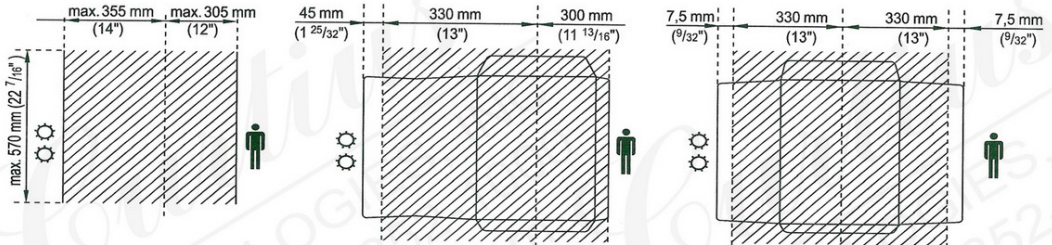


Cutting area



Patching area

Printing range



Blank printing units for inside and outside printing

Printing Section StackType-L with reel machines

- 1 Widths exceeding 324 mm ($12 \frac{3}{4}$ ") with nozzle gumming only
- 2 When working with rectangular blanks or from the reel max. 560 mm ($22 \frac{1}{32}$ "
- 3 Cut-off length between transfer rollers and separating cylinder max. 496 mm ($18 \frac{15}{32}$ ") with nozzle gumming only
- 4 From a format height of 330 mm (13"), sizes can be produced with open seal flap only





Envelope and pocket Machine

HELIOS 341

According to the shown three machines see machine layout the series 341 machines has specific and common technical data:

Maximum output per minute - Envelopes or Pockets

- * Remoistenable gumming
80–165 g/m² (21–44 substance)
600 pieces
- * Self-seal gumming
80–165 g/m² (21–44 substance)
400 pieces
- * Cycle gumming
80–165 g/m² (21–44 substance)
400 pieces
- * Gusset formats
80–120 g/m² (21–32 substance)
300 pieces

Window material

- * Diameter window material reel
max. 500 mm (20")
- * Width window material reel
max. 300 mm (11 13/16")
- * Winding core - inner diameter
70–80 mm (2 3/4–3 5/32")
- * Basis weight
30–50 g/m² (8–13,3 substance)
- * Material thickness
30–50 µm
- * Cut-off length first window section (*1)
max. 265 mm (10 14/32")
min. 50 mm (1 31/32")
- * Cut-off length second window section
max. 250 mm (9 27/32")
min. 50 mm (1 31/32")
- * Cut-off width narrow patching device
max. 190 mm (7 15/32")
min. 45 mm (1 25/32")

Pressure-sensitive gumming

- * Diameter silicone paper reel
max. 800 mm (31 1/2")
- * Width silicone paper reel
max. 350 mm (13 25/32")
min. 80 mm (3 5/32")
- * Winding core - inner diameter
70 – 80 mm (2 3/4–3 5/32")
- * Protective strip cut-off length
max. 30 mm (1 3/16")
min. 12 mm (15/32")
- * Application weight hot-melt
max. 20 g/m²
recommended 15 g/m²
- * Gumming length
max. 24 mm (15/16")
min. 5 mm (3/16")
- * Gumming width
max. 340 mm (13 3/8")
min. 70 mm (2 3/4")

*1)

The minimum dimension does not apply in versions without suction bar in the window knife cylinder.

