

W+D 320

Modular envelope machine

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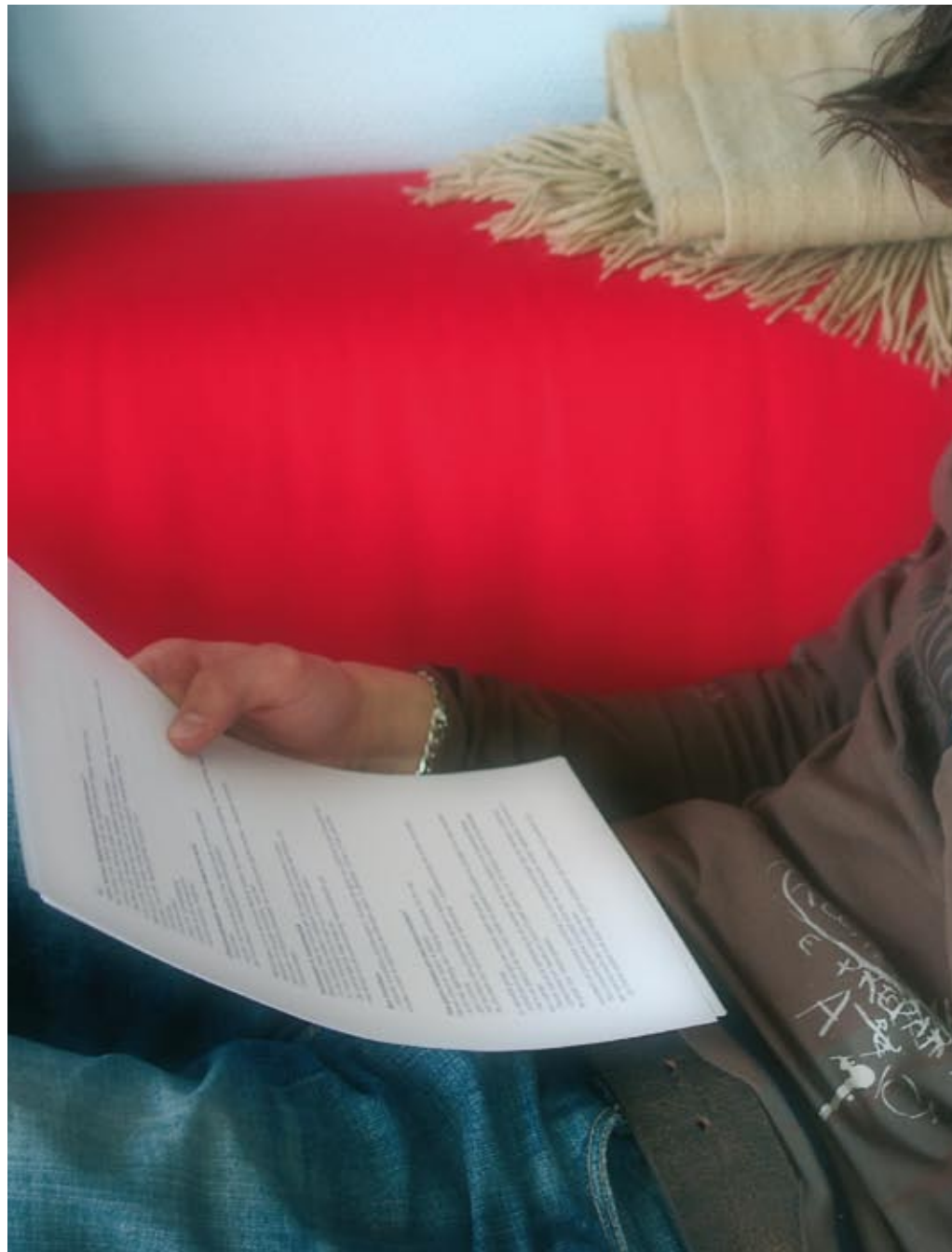


Effective. Benefit-focused. Profitable. We can build your machine

W+D is the worldwide market leader in the envelope industry with nearly 100 years of experience. This experience helps position our customers ahead of their competition by distinguishing themselves in a competitive market.

Our business activities range from market-driven standard solutions to customized developments tailored to our customers' needs.

Customer satisfaction is driven by quality and precision of the highest standards and is the basis for our success. Our mission is to build reliable machines that are supported worldwide with outstanding service.





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Modular envelope machine



**Blank fed envelope machine
with a wide product range**



W+D 320 envelope machine for the manufacture of printed envelopes and envelopes with windows

Concept

The basic version of the W+D 320 allows the manufacture of booklets without windows from blanks. Nozzle gumming is used for the side flaps.



The following options are available to extend the function of the machine:

- Flexo printing doctor blade units
- Cutting section
- Window patching section
- Roller gumming unit for bottom and side flaps
- Folding tools for outside side flaps
- Seal flap gumming section with staggering, drying run and aligning
- Additional parts for the production of pockets
- Hot-melt pressure-sensitive gumming section



Products

- Envelopes in booklet and inserting style with inside side flaps
- Envelopes in diamond and commercial style
- Pockets with center or side seam gumming up to format C4
- Single or multiple windows
- Envelopes with outside side flaps
- Seal flaps with remoistenable and self-seal gumming
- Hot-melt pressure-sensitive gumming

Flexibility and performance

- Up to 350 envelopes/minute
- Up to 250 pockets/minute (up to B5)
- Up to 150 pockets/minute (larger than B5)
- 2 flexo outside and 1 flexo inside printing unit with W+D doctor blade chamber system
- Cutting section for window cut or complete cut in 2 working widths. Equipped with patented **EasyCut** magnetic cylinder technology for flex dies
- Flexible and easy-to-operate window patching section for cut off lengths up to 176 mm

Product quality and operation

- Display for entries, inspections, information and integrated pre-selection counter
- Manual format set-up and fine adjustment
- Non-wearing and size-independent aligner section
- Designed for multi-shift operation
- Compact and ergonomic design with integrated switch cabinet
- Modem for remote diagnostics
- Easy access to all sections

Description of the colors for all following pages: ■ Standard ■ Optional

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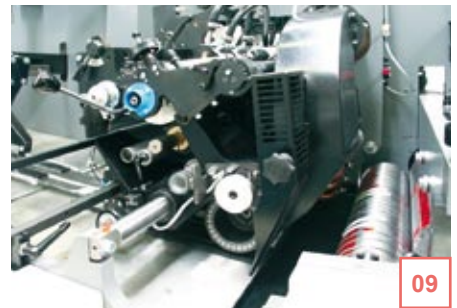
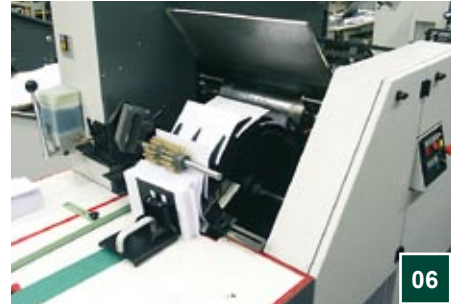
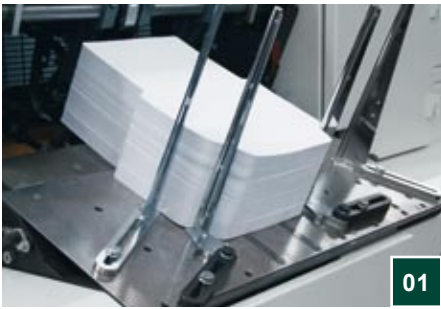
Standard components and optional machine modules

Standard components

- 01 Blank feeder
- 02 Scoring section
- 03 Side flap folding section with folding tools for booklets
- 04 Nozzle gumming for side flaps when producing booklets
- 05 Display for entries, inspections, information and integrated pre-selection counter
- 06 Multi-slit disc delivery

Optional modules

- 07 Flexo printing doctor blade units for inside and outside printing
- 08 Cutting section with patented **EasyCut** magnetic cylinder technology for flex dies for window and complete cut
- 09 Window material patching section
- 10 Roller gumming section for envelope side flaps and pocket bottom flaps
- 11 Staggering and seal flap gumming section for remoistenable and self seal gumming (open seal flaps)
- 12 Folding tools to fold the side flaps for pockets
- 13 Section to apply pressure-sensitive strips (hot-melt)



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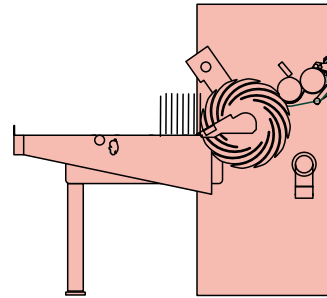


Machine Layouts

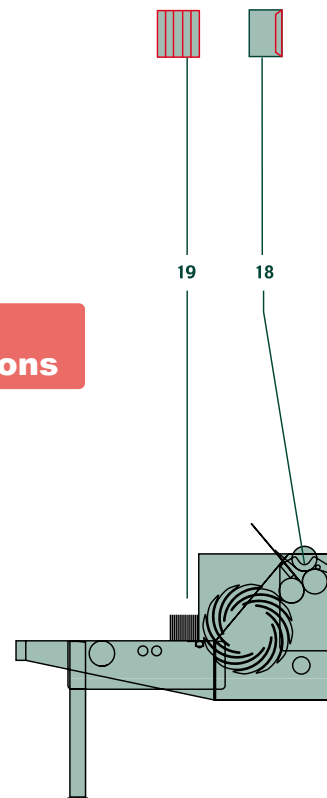
Standard components + Optional machine modules

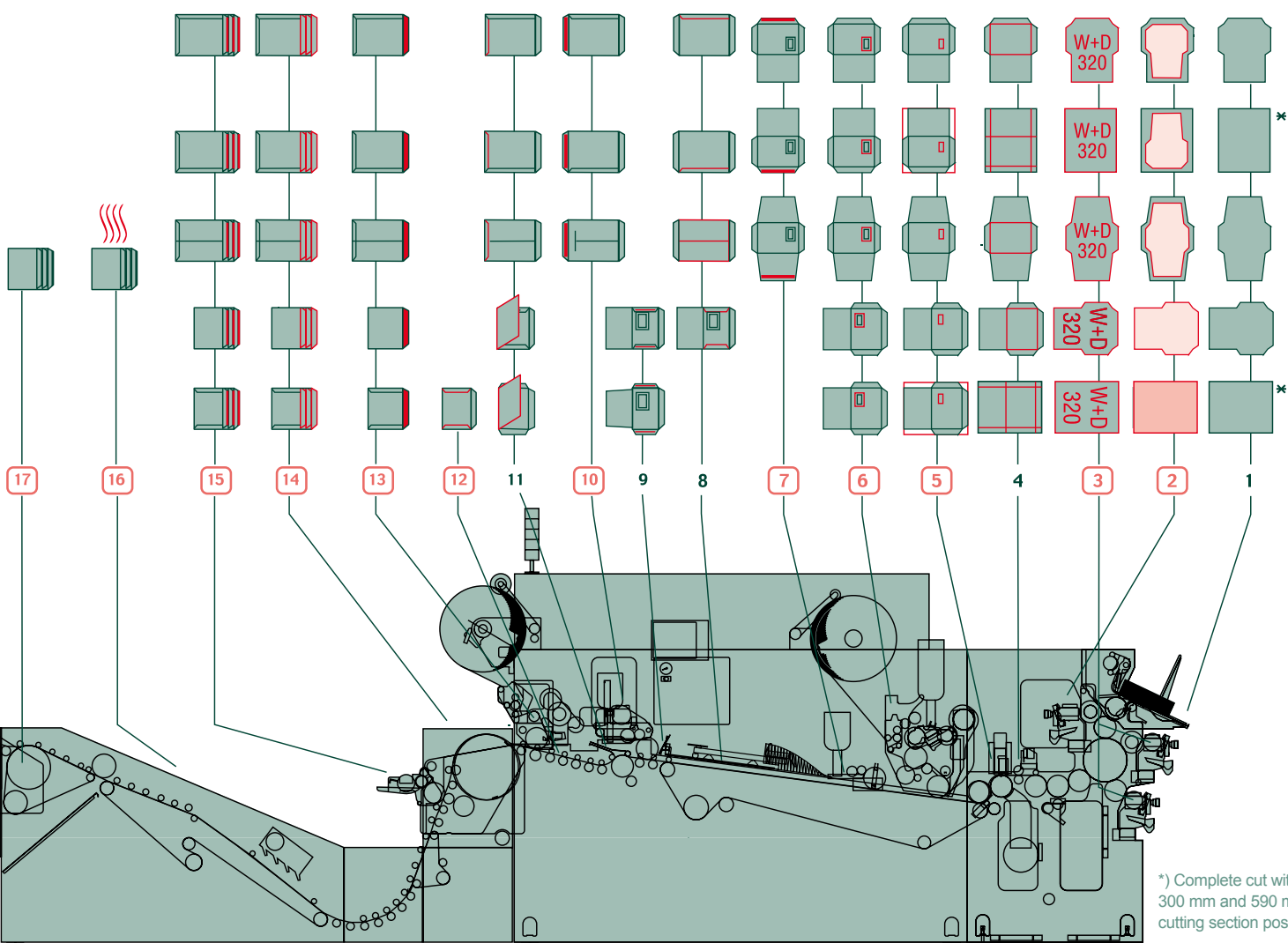
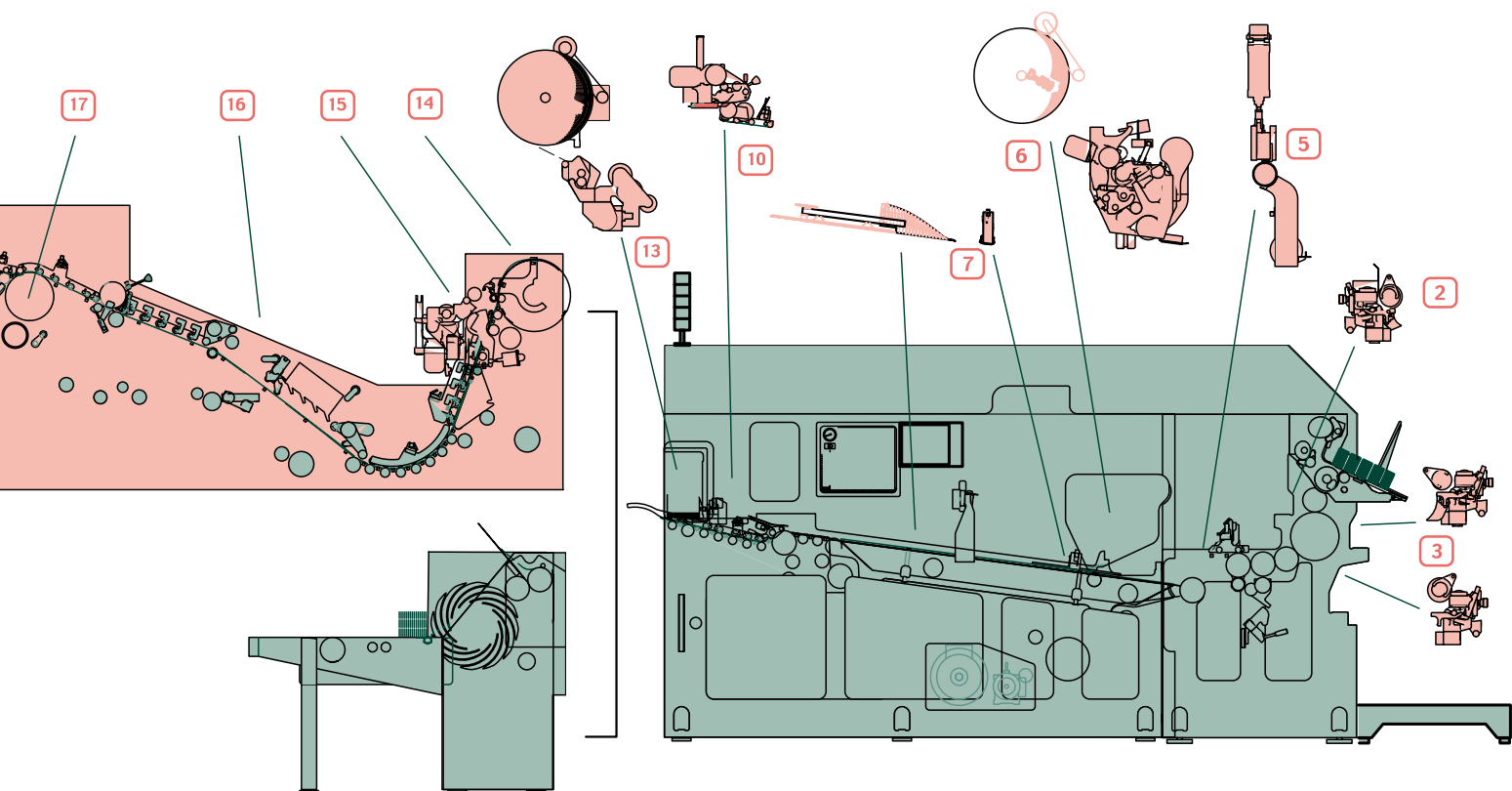
- 01 Blank feeder
- 02 Flexo doctor blade printing unit for inside printing
- 03 Flexo doctor blade printing units for outside printing
- 04 Longitudinal and cross scoring section
- 05 Cutting section for window cut or complete cut
- 06 Window patching section
- 07 Nozzle gumming for side flaps when producing pockets
- 08 Side flap folding section
- 09 Nozzle gumming for side flaps when producing booklet formats
- 10 Bottom and side flap gumming section for pockets, diamond and commercial style envelopes
- 11 Bottom flap folding section
- 12 Folding tools for outside side flaps
- 13 Hot-melt pressure-sensitive gumming section
- 14 Staggering section
- 15 Seal flap gumming section
- 16 Drying run
- 17 Aligner section
- 18 Seal flap folding section
- 19 Delivery

W+D 320
basic
version
+ options



W+D 320
with options





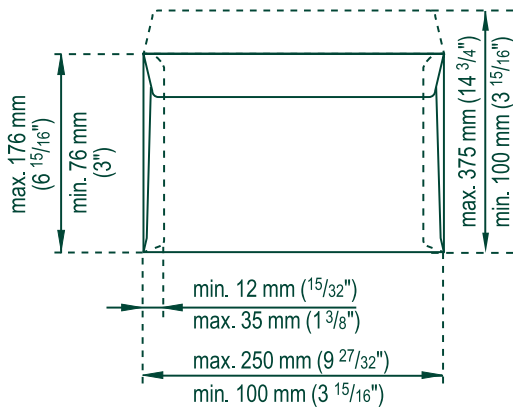
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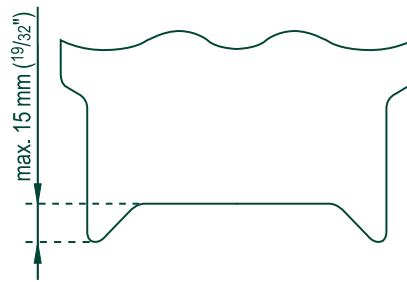


Dimensions and formats

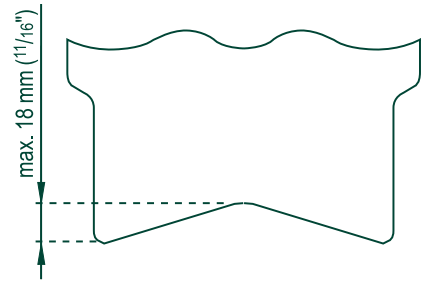
■ Size range of the basic design



Booklet

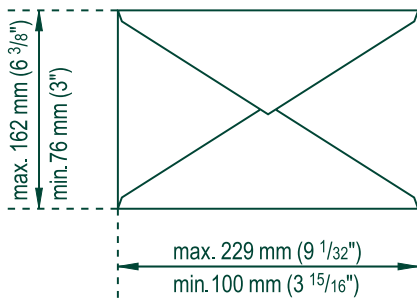


Cut-out depth with trapezoidal cuts

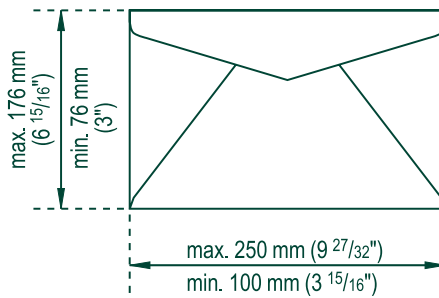


Cut-out depth with V cuts

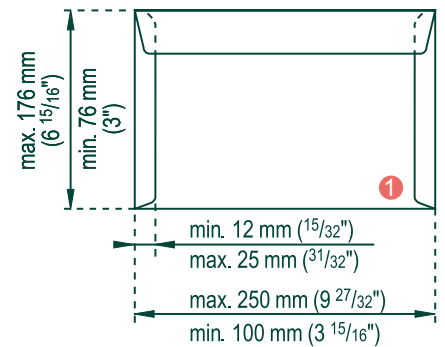
■ Size range for envelopes



Diamond-style

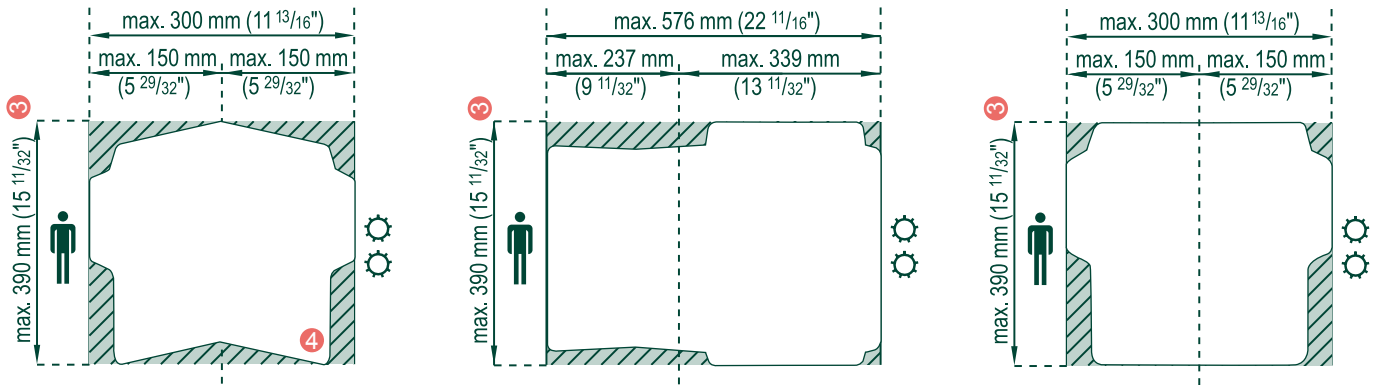


Commercial-style

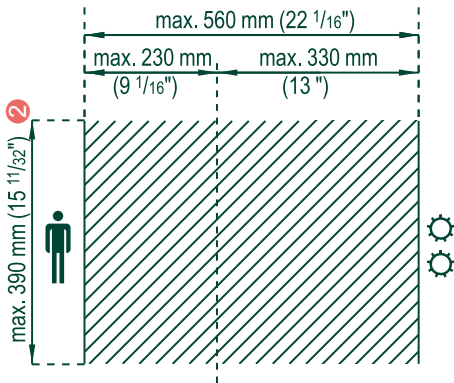


Booklet with outside side flaps

Complete cut

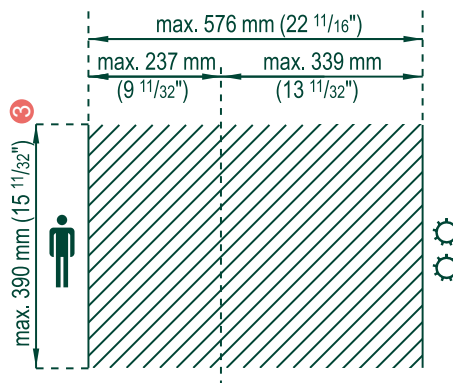


Printing range

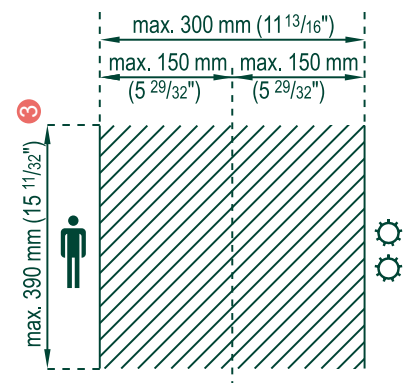


Blank printing units for inside and outside printing

Cutting area

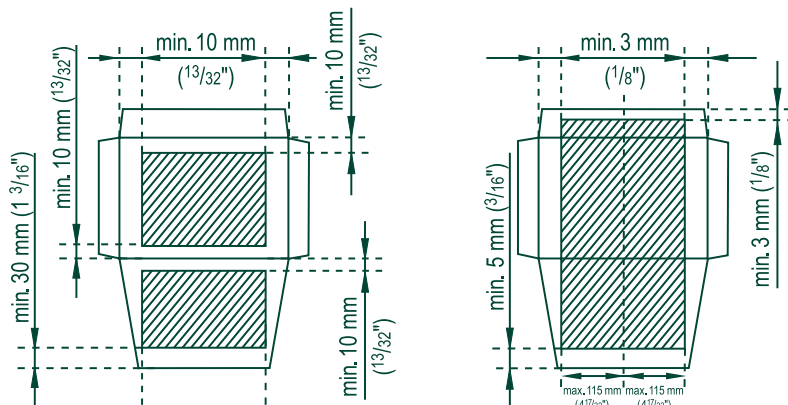


Complete cut with wide cutting section



Complete cut with small cutting section

Window range



Cutting area

Patching area

Optional formats and functions

- ① Special folding tools necessary
- ② For plate cylinders with a clamping device, the printing length will be reduced to 370 mm (14 9/16")
- ③ For a complete cut, the cutting height will be reduced to 373 mm (14 11/16")
- ④ Possible on principle, has to be checked in individual cases

Please send us samples of the products you wish to produce on this machine since the adjustability limits stated relate to standard sizes and do not show all possibilities.

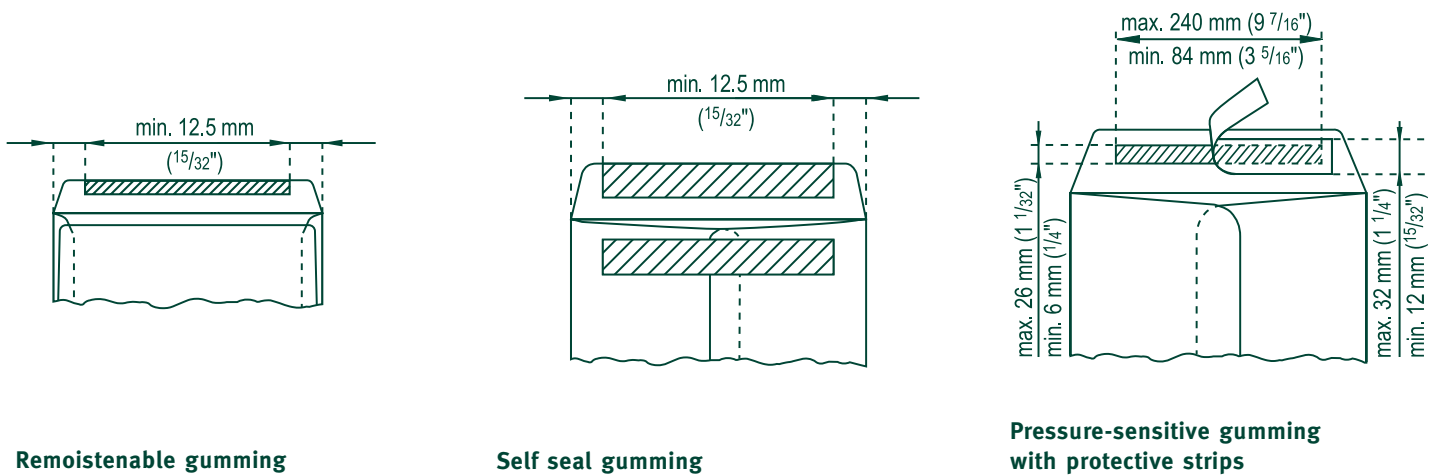
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Dimensions and formats

Seal flap gumming

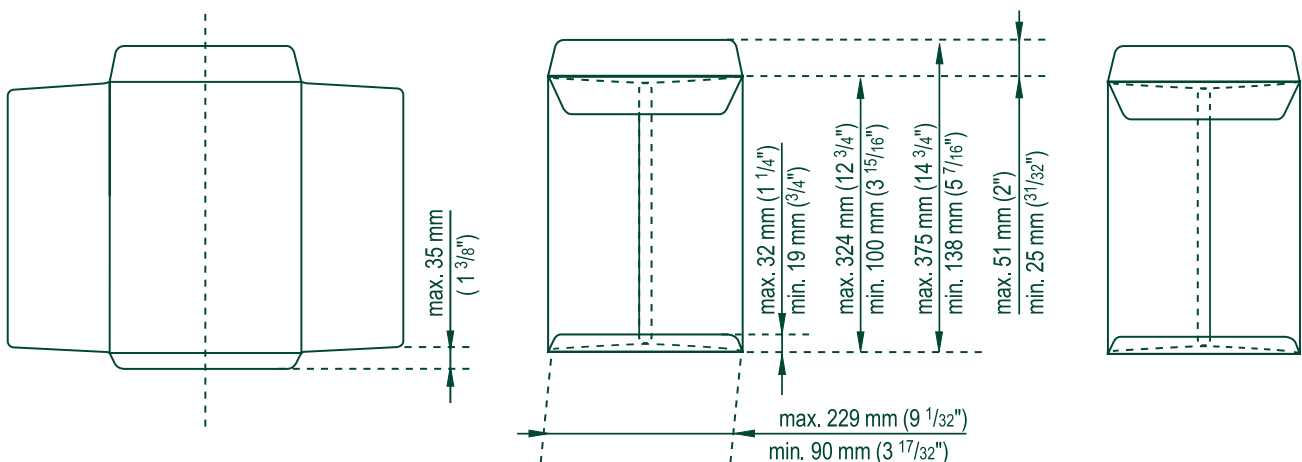


Remoistenable gumming

Self seal gumming

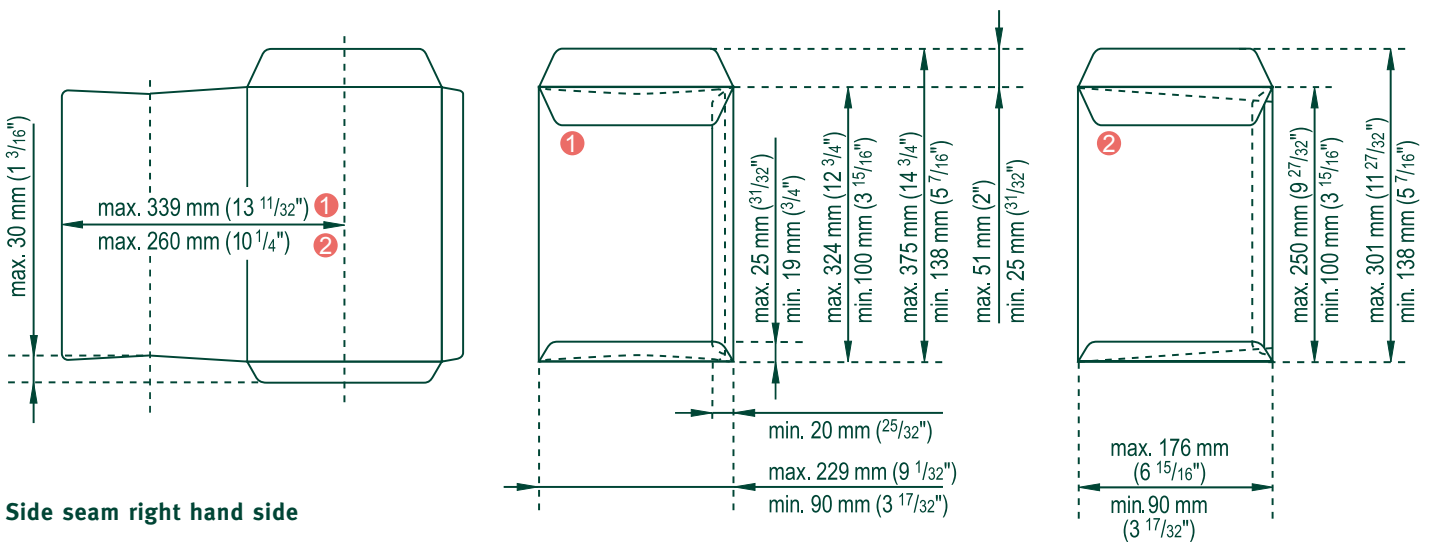
Pressure-sensitive gumming with protective strips

Size range for pockets



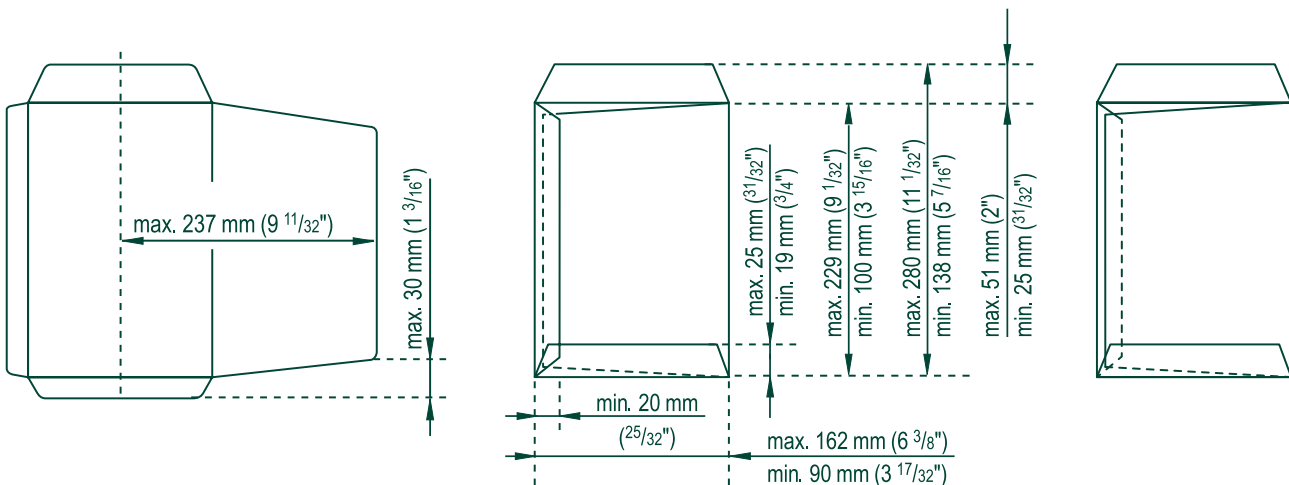
Center seam

Size range for pockets



Side seam right hand side

Size range for pockets



Side seam left hand side

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Technical Data

Maximum output per minute

Envelopes with remoistenable and pressure-sensitive gumming	with self seal gumming	Pockets up to size B5	Pockets larger than size B5
60-120 g/m ² (16-32 substance)	60-120 g/m ² (16-32 substance)	80-120 g/m ² (21-32 substance)	80-120 g/m ² (21-32 substance)
350 pieces	250 pieces	250 pieces	150 pieces

Window material dimensions

Window material reel		Grammage	Winding core Inside diameter	Material thickness	Cut-off length
Diameter	Width				
max. 500 mm (20")	max. 230 mm (9 1/16") min. 45 mm (1 25/32")	30-50 g/m ² (8-13.3 substance)	70 mm (2 3/4")	30-50 µm	max. 176 mm (6 15/16") min. 36 mm (1 13/32")

Pressure-sensitive gumming

Silicone paper reel			Gumming		Adhesive Application weight	Protective strip Cut-off length
Diameter	Width	Winding core diameter	Width	Height		
max. 500 mm (20")	max. 250 mm (9 27/32") min. 90 mm (3 17/32")	70 mm (2 3/4")	max. 240 mm (9 7/16") min. 84 mm (3 5/16")	max. 26 mm (1 1/32") min. 6 mm (1/4")	max. 20 g/m ² recommended: 15 g/m ²	max. 32 mm (1 1/4") min. 12 mm (15/32")

Blank dimensions	
Blank length	Blank width
max. 390 mm (15 11/32") min. 170 mm (6 11/16")	max. 474 mm (18 21/32") min. 128 mm (5 1/32")

Flexo printing unit				
Printing length with seamless plate cylinder	with clamping device	Printing width		
		Inside and outside printing	towards gear side	towards operator side
max. 390 mm (15 11/32")	max. 370 mm (14 9/16")	max. 560 mm (22 1/16")	max. 330 mm (13")	max. 230 mm (9 1/16")

Connected load (standard design)							
Drying section	Material suction	Vacuum pumps	Total excl. drying run with material suction and pumps	Compressed air consumption 6 bar		Vacuum requirement 0.6 bar	Blowing air requirement 1.0 bar
				with blank printing units	without blank printing units		
max. 12 kW	max. 3.5 kVA	max. 47.2 kVA	max. 81.8 kVA	max. 48 m³/h	max. 17 m³/h	max. 790 m³/h	max. 140 m³/h

Dimensions and weight 1			
Basic machine design		Machine with options	
Length	5,540 mm	Length	8,470 mm
Width	2,550 mm	Width	2,550 mm
Height	2,150 mm	Height	2,150 mm
		Net weight	6,750 kg

All performance data indicated refers to the production of a defined reference product under certain circumstances reflecting a possible practice of use. The performances achieved in practice depend on a multitude of parameters which are beyond our control. This includes amongst others the condition of the raw materials to be processed, the shapes of the products, the air humidity and the ambient temperature. W+D reserves the right to make design changes and changes in the performance values.

1 As shown in the machine layout



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