

# New all servo W+D 202 RE

Highest level of envelope production performance  
and automation



**W+D**

# The future is about producing more and better-quality envelopes with less resources

The new **W+D 202 RE** is W+D's highest performance envelope machine for converters who are looking to position their operations with the highest efficiency in not only envelope production but printing and end of line packing automation.

The new **W+D 202 RE** is completely servo driven. Settings of each individual station can be made or adjusted while the machine is running eliminating significant start-up waste. The ability to recall individual settings from the job memory and the pre-positioning of the drives allow to cut the time for job changeover in half. This, together with the increased output of 1,750 ppm, make the **W+D 202 RE** the most productive envelope machine with the shortest changeover times.

In combination with the W+D 201 all servo flexo printing units, both medium to long runs of standard envelopes for transactional mail as well as and highest litho like quality envelopes for direct mail can be produced very cost effectively. Option for the **W+D 202 RE** high speed platform is end of line automated packing of envelopes which further increases the productivity and reduces labor costs.

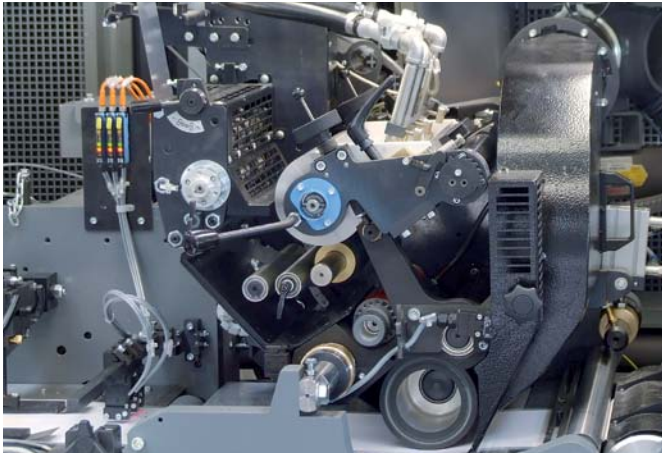


## Features

- / Up to 1,750 env./min
- / Individual servo drives at each station
- / Fine adjustments during machine run
- / New operating panel with clear display of the most important production data and settings
- / Reduced vacuum consumption
- / Envelopes with booklet or envelope cut
- / Seal flap with wet, self-adhesive or pressure-sensitive gumming
- / Single and multiple windows
- / Inside and outside side flaps

## Advantages

- / High productivity – lowest cost per piece
- / Short changeover and setup time
- / Low waste
- / Low maintenance
- / Easy machine operation
- / Connection to W+D remote diagnostics (Expert Online)



Window patching section



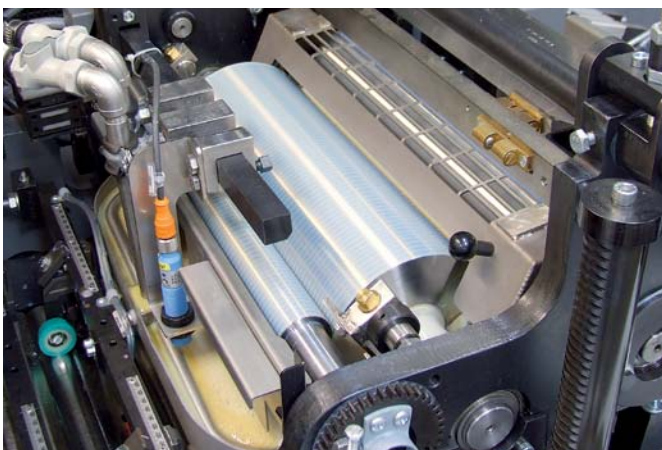
Touch-screen for system control

### Standard components

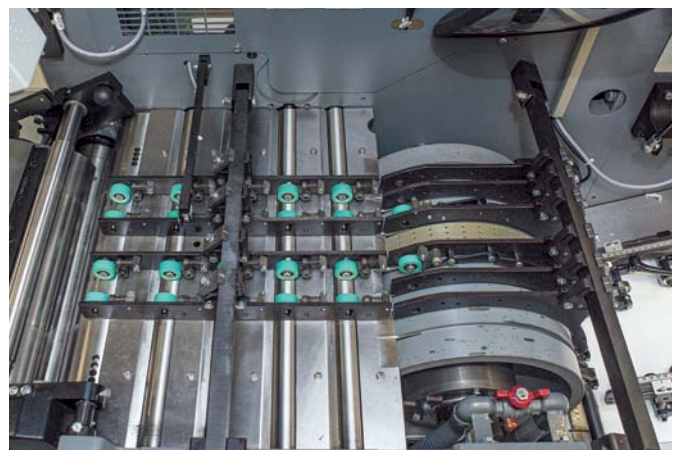
- / W+D 191 N: Automatic paper reelstand with decurler
- / W+D 190: Automatic roll changer for the window material
- / HMI control panel
- / MasterCut® solid knives for all cutting stations or quick change flex die knives
- / Nozzle gluing for side flaps
- / Window cutting and window material gluing station
- / Seal flap gumming station for wet glue gumming
- / 3", 5" and 6" paper core compatibility
- / Swivel drive for cutting bridge
- / Air cushion trolley for reel change
- / Noise protection full enclosure

### Optional components

- / W+D 201: Inline flexo-print-system as CI or stack cylinder for up to a maximum 8 colors outside print and one color inside print
- / Packaging module for the fully automatic packing in folding boxes
- / Easy-Cut® magnetic cylinder technology
- / Hotmelt gluing station
- / Self-adhesive gumming module
- / Integrated register control for pre-printed paper rolls



Remoistenable seal flap gumming

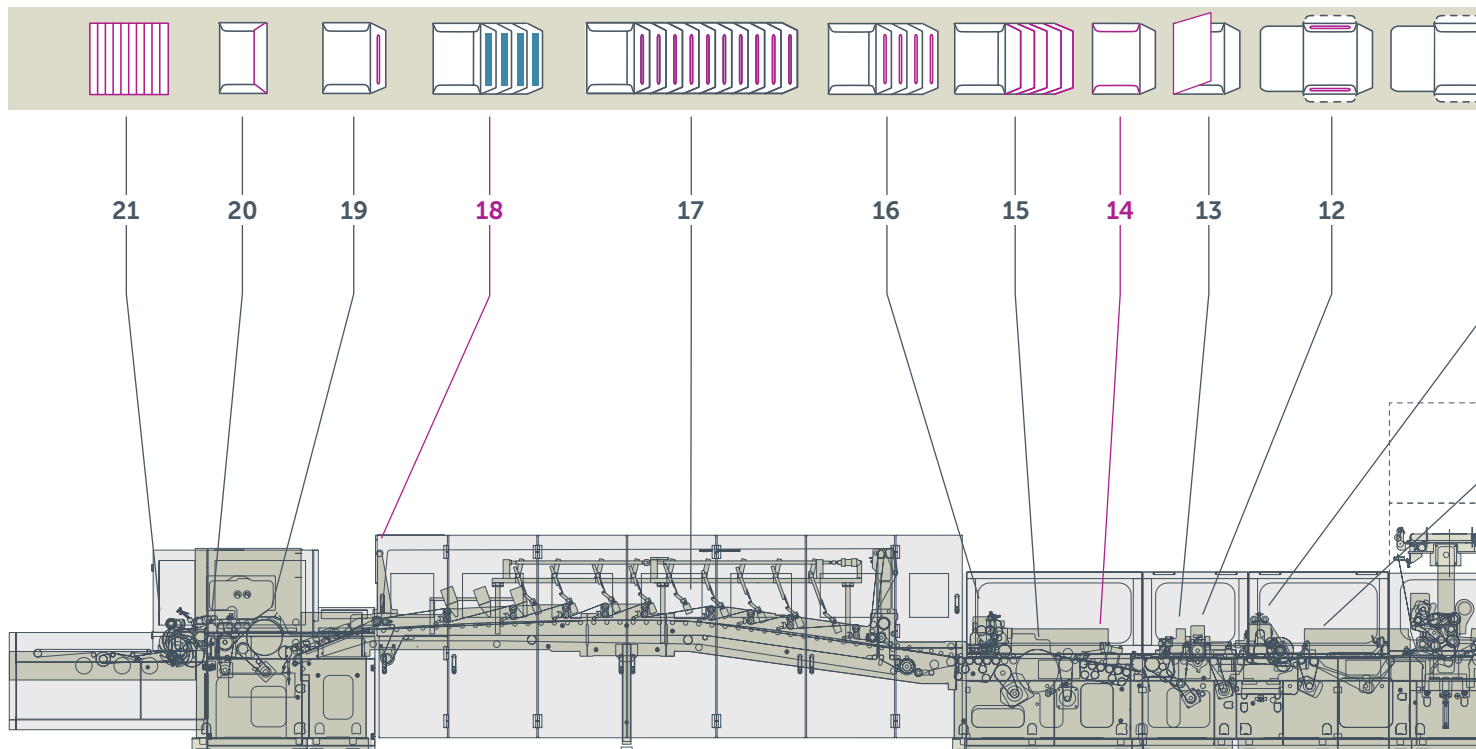


Process optimized seal flap folding section



## Machine layout

- |  |  |
|--|--|
| <b>1</b> Reel splicer W+D 191 N          | <b>7</b> Form cutting section (rotary cut)     |
| <b>2</b> Device for forming a paper loop | <b>8</b> Window cutting section                |
| <b>3</b> Web aligning system             | <b>9</b> Window material patching section      |
| <b>4</b> Flexo printing machine W+D 201  | <b>10</b> Folding section for inner side flaps |
| <b>5</b> Cross scoring section           | <b>11</b> Separating cutting section           |
| <b>6</b> Longitudinal scoring section    | <b>12</b> Side flap gumming section            |



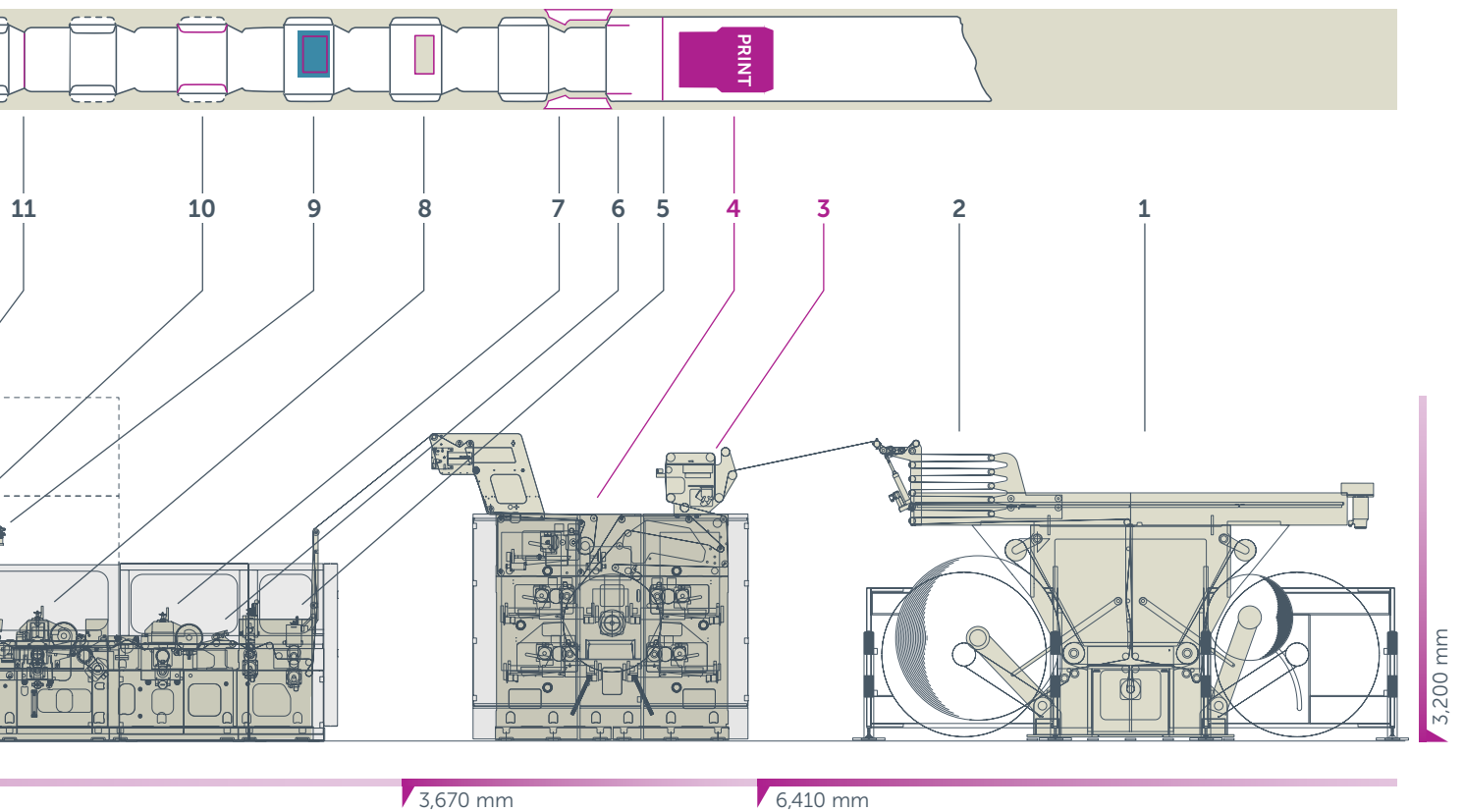
17,184 mm

27,264 mm

- 13 Bottom flap folding section
- 14 Folding section for outer side flaps
- 15 Staggering section
- 16 Seal flap gumming section
- 17 Infrared seal flap drying section
- 18 Hot-melt pressure-sensitive gumming section

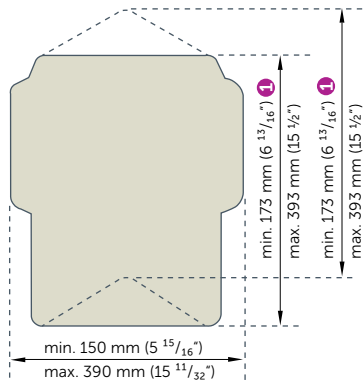
- 19 Aligner section
- 20 Seal flap folding section
- 21 Delivery with counter

● optional machine components

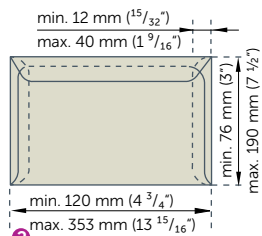


## Dimensions and Formats

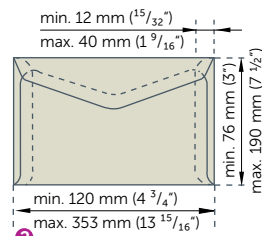
### Blank format



### End format

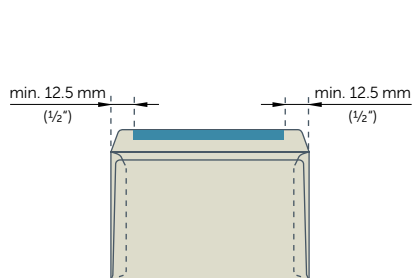


Booklet

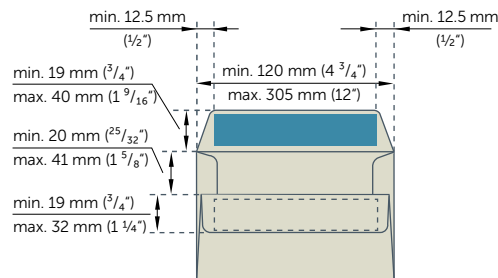


Inserting-style envelopes

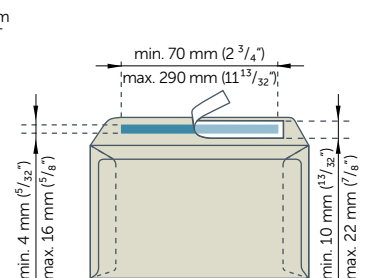
### Seal flap gumming



Remoistenable gumming

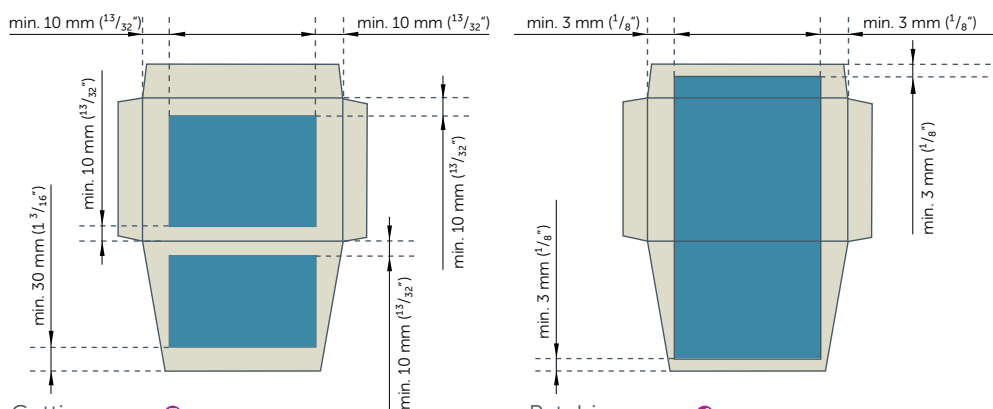


Self-seal gumming



Hot-melt pressure-sensitive gumming

### Window range



Cutting area ③

Patching area ④

- ① When using blank including window, then min. 188.5 mm (7 7/16")
- ② Maximum width in accordance to the side flap width
- ③ Maximum window width within the cut-out area 226 mm (8 7/8")
- ④ Maximum window material cutting width within the patching area 280 mm (11 1/32")

All binding data concerning the dimensions and formats for each machine type can be found in the performance data sheet.

## Technical specifications

Type		RE
Maximum output envelopes per minute	Remoistenable gumming	< 80 g/m <sup>2</sup> (< 22 lb) 1,000 pieces; ≥ 80 g/m <sup>2</sup> (≥ 22 lb) 1,750 pieces ❶
	Hot-melt pressure-sensitive gumming	< 80 g/m <sup>2</sup> (< 22 lb) 1,000 pieces; ≥ 80 g/m <sup>2</sup> (≥ 22 lb) 1,300 pieces
	Self-seal gumming	1,000 pieces
Paper weight	Standard	60 – 120 g/m <sup>2</sup> (16 – 32 lb)
Size range		min. 76 mm (3") x 120 mm (4 23/32") – max. 190 mm (7 1/2") x 353 mm (13 15/16")
Size height	with open side flap	min. 100 mm (3 15/16") – max. 240 mm (9 7/16")
Paper reel	Diameter	max. 1,530 mm (60 1/4")
	Width	max. 390 mm (15 11/32")
	Winding core inner diameter	min. 127 mm (5") or 152.4 mm (6")
Blank dimensions	Total length	❷ min. 173 mm (6 13/16") – max. 393 mm (15 1/2")
	Total width	min. 150 mm (5 15/16") – max. 390 mm (15 3/8")
Window material	Window material reel	Diameter max. 500 mm (20")
		Width min. 45 mm (1 25/32") – max. 280 mm (11 1/32")
	Winding core inner diameter 70 – 77 mm (2 3/4" – 3 1/32")	
	Cut-off length min. 36 mm (1 13/32") – max. 178 mm (7")	
Silicone paper	Silicone paper reel	Diameter max. 500 mm (20")
		Width min. 80 mm (3 5/32") – max. 305 mm (12")
	Winding core inner diameter 70 – 77 mm (2 3/4" – 3 1/32")	
	Protective cut-off length min. 10 mm (13/32") – max. 22 mm (7/8")	
Printing length	W+D 201 optional	The web can be completely or partially printed within the maximum printing width
Printing width	W+D 201 optional	max. 380 mm (14 31/32")
Dimensions and weight	Length 27,264 mm (85.4 ft) ❸	
	Width 3,800 mm (12.5 ft)	
	Height 2,800 mm (9 ft)	
	Net weight with switch cabinet approx. 28,000 kg (61,729 lb)	
Compressed air	6 bar	approx. 17 m <sup>3</sup> /h
Vacuum requirement	0.6 bar	approx. 1,000 m <sup>3</sup> /h
Blowing air	0.8 bar	approx. 100 m <sup>3</sup> /h
Connected load (50 Hz)	Machine base	118 kVA
	Material suction	7.5 kVA
	Vacuum pumps	35 kVA
Noise emission	According to specification EN 13023	89,6 dB (A)

❶ max. 450 m/minute (1,475 ft/minute)

❷ When using blank with window min. 188.5 mm (7 7/16")

❸ As shown in the machine layout on page 4/5

All performance data published 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 other factors, 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 to the performance values.

**Winkler+Dünnebier GmbH (W+D)**, part of global equipment manufacturer Barry-Wehmiller and its BW Converting Solutions platform of five industry leading brands, specializes in the design and manufacture of high-performance converting machinery for the tissue, nonwovens, hygiene, package-printing and bag-converting industries worldwide.

With more than 100 years of experience, W+D is the only engineering company to cover the entire envelope mail production value chain: from converting, printing and value ad enhancement systems for the manufacturing of envelopes to highly intelligent mail inserting technology. All with the aim to produce the most complex and personalized letter mail packages for postal system intake.

**For more about W+D, visit [w-d.de](http://w-d.de).**

## Locations

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