

# Sprinter

Stand-alone or inline – tried and tested.



The **Winjector** is a completely new, compact system to optimize the process of creating vacuum. The vacuum is decentralized generated out of compressed air, based on a multi-stage ejector technology (COAX® Technology).

Its compact design allows the use direct in the individual stations of the gathering machine **Sprinter e/e XL**, e.g. each station has 2 independent operating **Winjectors**, which create the vacuum right there, where it is needed. In addition this new technology provides the advantage to individually adjust the level of vacuum applied and that the suction cup and the signature is positively separated by a controlled blow off-impulse.

The outstanding characteristics are:

- Distinct increase of the process stability and productivity
- Extreme short reaction times and exactly defined and reproducible switching times
- Significant reduction of the energy consumption of up to 80%
- Low noise level
- No heat emission
- Very low maintenance requirement
- Self cleaning system

**Wohlenberg Buchbindesysteme GmbH**  
Postfach 1209  
27262 Verden

Phone: +49 (0)42 31/775-0  
Fax: +49 (0)42 31/775-29

<http://www.wohlenberg.com>  
e-mail: [sales@wohlenberg.com](mailto:sales@wohlenberg.com)



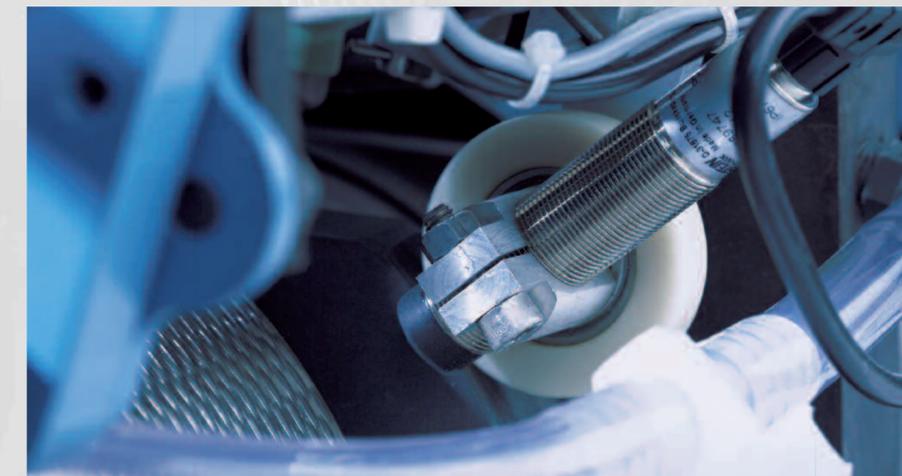
**wohlenberg®**



## Gathering machine Sprinter e/eXL

The **Sprinter e/eXL** gathering machines are designed based on the modular concept. All elements can be combined individually and used both as stand-alone machines, or inline with a perfect binder. The machine's low height, clearly laid out arrangement and functional design represent a visible expression of modern mechanical engineering, always with an eye on technical safety and reliability aspects.

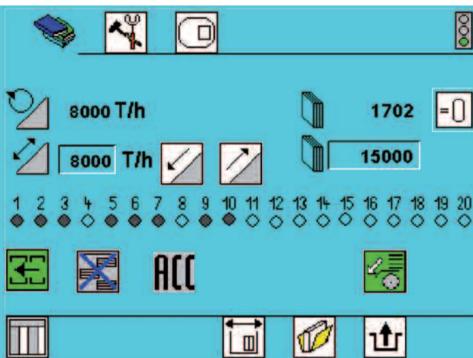
- Universal double gripper system for separating of sections and single sheets without any adjustments
- Separate, shaftless servo drive for use as stand-alone or inline operation
- Upright, smooth product transfer in the transport channel assisted by blowing air. Products do not have to be spiralled upright for feeding into the perfect binder
- Motorized adjustment of the transport channel as standard
- Control system for automatic run-up and run-down as standard
- Handfeeding station with control system for automatic start-and-stop function of the station
- Integrated, patented vacuum technique Winjector for increasing productivity
- Reliable and non-marking separating of sections thanks to the 20° incline of the stations
- Pulsing blowing air in front in the magazine ensure reliable processing of single sheets down to 70 g/m<sup>2</sup>
- Belt drive in magazine for processing web printed or difficult sections (option)
- Automatic quality check by ACC, Imagecontrol or Barcode readers (option)
- Changeover to half drum speed to reduce the separating speed
- Universal criss-cross delivery for pre-gathering of products (option)
- Automatic reject gate for enhancing productivity



**wohlenberg®**

**wohlenberg®**

## Gathering Machine Sprinter e/eXL



Diagnosis terminal with graphic display and touch screen function

### The diagnosis terminal

is for stand alone machines integrated in the switch cabinet. This system is equipped with a multilingual graphic display and touch screen function. All main functions of the gathering machine can be activated or deactivated here at this terminal. In case, that the Sprinter is connected to a perfect binder, the operation is handled at the Navigator terminal of the binder.

### Upright product transport

allows the products being gently transported on their spines, supported by nozzles with blowing air. This method is gentle on printed pages and does away with the need for subsequent spiralling upright of the products for feeding into the perfect binder.

Combined with the 20° inclination of the stations, upright transport renders the **Sprinter** a "short-way machine" and thus enhances operating reliability and safety. The option available for changing the drum speed also optimizes separating speed and simplifies overall logistics.

### The criss-cross delivery

delivers pregathered products standing on the spine. The products can be removed at the freely accessible feeding side of the gathering machine. The criss-cross delivery, which is inclined upwards, is 1000 mm (39,37") long and is equipped with a work-saving stacking reserve. Product sorting by offset stacking can be preselected, facilitating manual removal of the pre-gathered products. The height of the removal location is 850 mm (36,46").

### The operating element

of the **Sprinter e / eXL** consist of a station computer with integrated graphically diagnosis display for each station. All important informations about the automatic thickness control ACC, the Imagecontrol and barcode reading system are here clearly displayed (option).

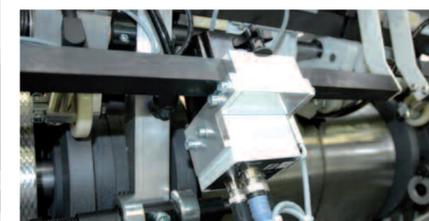
### The magazine

is equipped with adjustable side gauges and a back gauge. Useful options such as front gauges with pulsing air and belt drives at the front of the magazine enhance production reliability with web printed sections, for example. Quality is guaranteed thanks to ACC and Imagecontrol. The new vacuum technique **Winjector** enhances production reliability.



### The Winspector

is a print image control and barcode reading system. The **Winspector** is a high-performance camera system to ensure a nearly fault-less sheet recognition, even in case of difficult products. The Winspector is a self-learning system which is automatically activated during the machine set-up.



Criss-cross-delivery in detail

Operating element with diagnosis- and Imagecontrol-display (option)

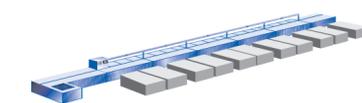


### The reject gate

of the **Sprinter e / eXL** automatically ejects products that are gathered incorrectly without any interruption of normal operation, thus contributing to an enhancement of productivity. The tolerable number of consequential errors can be programmed at each individual station.



Sprinter in inline operation



Sprinter with criss-cross delivery

Technical data - Sprinter e			
Mechanical speed (inline)	1000 - 8000*	cycles/h	
Operation with criss-cross	1000 - 5000	cycles/h	
Product height	105 - 370 mm	4,13" - 14,57"	
Product width	75 - 320 mm	2,95" - 12,60"	
Transport channel width	80 mm	3,15"	
Number of stations	4 - 28*		

Technical data - Sprinter eXL			
Mechanical speed (inline)	1000 - 8000*	Takte/h	
Operation with criss-cross	1000 - 5000	Takte/h	
Product height	105 - 485 mm	4,13" - 19,09"	
Product width	75 - 320 mm	2,95" - 12,60"	
Transport channel width	80 mm	3,15"	
Number of stations	4 - 32*		

\*depending on selected machine configuration

Material range (for all models)		
Single sheets, depending on product	70	g/m <sup>2</sup>
For folded sections (pages)	64	g/m <sup>2</sup>

### Accessories Sprinter e / eXL (standard)

- Automatic caliper control ACC
- Station computer and diagnosis display with graphic symbols
- Low level pre-warning in each magazine
- Motorized transport channel adjustment
- Winjector vacuum technology
- Blowing air nozzles in the transport channel
- Pulsing blow air in front gauges
- Servo drive
- PLC-Control
- Product counter
- Pre-selection of quantity
- Speed indicator
- Automatic run-up and run-down
- Automatic start-and-stop function when handfeeding

### System extensions (optional)

- Handfeeding station with 1 or 2 pockets
- Drive belts in the magazine
- 3. sucker
- Electromagnetic disengaging clutch
- Imagecontrol
- Barcode reading system
- Changeover to half drum speed
- Criss-Cross-delivery
- Automatic reject gate
- Transfer to the binder
- Special grippers up to 12. mm thick products