ROTARY WINDOW PATCHING
AND LINING MACHINES
WPS

Made in Germany
FLEXIBLE TECHNOLOGY FOR FLEXIBLE MARKETS WINDOW PATCHING AND MORE

DELIVERY
- Laterally movable delivery ensures better ergonomics when mounting heavy film reels or working on the cutting station

SUCTION CYLINDER
- Chemically nickel plated
- Tool steel inserts for suction holes (optional)
- Cleanser resistant
- Minimal wear
- Minimal risk of scratches on the film

PATENTED MONO-SUCTION BELT
- Ensures excellent flatness of the blanks (even when curved). The best application tolerance for the film, both in running and lateral direction
- Maintenance-free air suction system (no vacuum channels or filters)

GRAPHIC USER GUIDANCE VIA TOUCH PANEL
- Film length adjustment via digital input, and during machine operation
- Automatic position alignment of cutting cylinder, suction cylinder in case of cycle change and change of film length reduces set-up times
- Defined machine stop position avoids operating errors and reduces standstill times

GLUING UNIT
- Cleaning in two minutes by means of the integrated cleaning system
- Full splash guard

CHAIN STATION
- Intelligent adjustment-free jam monitoring, safe and time-saving

FEEDER
- Electronically controlled timed belt feeder series BFP. A further development of the most sold feeder in the world (Series BF)
- Automatic compensation of the feeder timing in case of changing friction or belt wear
- Feeding length adjustment via teach-in-button with only one blank. It does not get any easier

WPS - SIMPLY BETTER
**Short and Simple Make-Readies**

**Processor controlled timed feeder**
Timed belt feeder Series BFP, with automatic blank length adjustment via teach-in-function.
The adjustment can be made with only one blank.

**Digital setting of the film cutting length and servo driven cross cutter**
For short make-readies

**Cleaning box**
For cleaning of the gluing unit, in two minutes.

**High Performance**

**Patented mono-belt vacuum blank transport for one or two lane operation, ensures excellent flatness of the blanks even when curved.**
The system operates without vacuum channels, tubes, filters and eliminates maintenance.

**Automatic reel change**
Standstill times for reel change can be eliminated by a patented H+S splicer system (option). Constant web tension during operation and reel change is provided by automatically controlled brakes and dancer rollers.

**High performance static discharge system for film material**
Allows smooth operation even for film material with critical static load.

---

**Integrated Manufacturing**

**H+S offers components for an automatic workflow, between die cutting and length folding process, which reduces manpower.**

**Pre-feeder**
Placed in front of a window patcher, pre-feeders of the series PF will handle pile heights of up to 600 mm, available in one- and two-lane versions. Movable on wheels, these pre-feeders are easy to combine with any window patching machine.

**Automatic stacker**
Placed behind the window patcher, the stacker builds accurately counted piles of windowed blanks and delivers them to a subsequent conveyor system.

---

**Transfer Components**

*A wide range of components are available to meet customers’ requirements of automatic transportation to and from the window patching machine*

- **Load conveyor**
  For manual load of piles

- **Pile turner**
  For automatic turning of piles upside down

- **Pile infeed**
  For automatic transportation of piles into a pre-feeder

- **Transfer conveyor**
  For automatic horizontal transportation of piles including buffer functions

- **Handling components**
  For handling tasks like:
   - Two lanes to one
   - One lane to two
   - 90° direction changes
   - Pile rotation
Continuous product innovation requires flexible manufacturing capabilities. The modular concept of the WPS 1100.

H+S = EFFICIENCY BY FLEXIBILITY

- Folding box with normal window
- Folding box with liner (two passes)
- Window cut from pre-printed reel with register mark control
- Paper sheet application (up to DIN A3 size)
- Window with lengthwise perforation
- Window with cold crease lengthwise (for thin films)
- Pick and place applications
- Handle applications
- Window with intermittent slit
- Window with shape perforation or shape cut
- Window with heated creasing lengthwise and shaped die-cut
- Window with lengthwise perforation
- Tube forming and length sealing for compound material from the reel with sealable coating
- Insertion of coupons
- Pick and place applications
- Handle applications

Continuous product innovation requires flexible manufacturing capabilities. The modular concept of the WPS 1100. Or for retrofit.
## TECHNICAL DATA

### WPS 1100

<table>
<thead>
<tr>
<th>Format Range</th>
<th>Single Lane Operation</th>
<th>Double Lane Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank length</td>
<td>80 – 800 mm</td>
<td>80 – 800 mm</td>
</tr>
<tr>
<td></td>
<td>3 ¼&quot; – 31 ½&quot;</td>
<td>3 ¼&quot; – 31 ½&quot;</td>
</tr>
<tr>
<td>Blank width</td>
<td>80 – 1100 mm</td>
<td>80 – 530 mm</td>
</tr>
<tr>
<td></td>
<td>3 ½&quot; – 43 ⅞&quot;</td>
<td>3 ⅜&quot; – 20 ⅜&quot;</td>
</tr>
<tr>
<td>Window length</td>
<td>40 – 560 mm</td>
<td>40 – 560 mm</td>
</tr>
<tr>
<td></td>
<td>1 ⅜&quot; – 22&quot;</td>
<td>1 ⅜&quot; – 22&quot;</td>
</tr>
<tr>
<td>Window width</td>
<td>30 – 940 mm</td>
<td>30 – 430 mm</td>
</tr>
<tr>
<td></td>
<td>1 ⅜&quot; – 37&quot;</td>
<td>1 ⅜&quot; – 16 ⅜&quot;</td>
</tr>
</tbody>
</table>

Material caliper Paper and cardboard 220 g/m² to 600 g/m², corrugated up to 5 mm

### Output (depending on blank length)

<table>
<thead>
<tr>
<th>Range</th>
<th>1 lane</th>
<th>2 lanes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank length below 230 mm</td>
<td>36,000 Pcs / hour</td>
<td>72,000 Pcs / hour</td>
</tr>
<tr>
<td>Blank length below 370 mm</td>
<td>24,000 Pcs / hour</td>
<td>48,000 Pcs / hour</td>
</tr>
<tr>
<td>Blank length over 370 mm</td>
<td>12,000 Pcs / hour</td>
<td>24,000 Pcs / hour</td>
</tr>
</tbody>
</table>

### Dimensions (Basic machine)

- Length: 5,360 mm
- Width: 1,850 mm

These technical data represent maximum values and are dependent upon the quality of material and blank formats. Maximum and/or minimum indications cannot be accommodated if they coincide in the same blank. Subject to constructional alterations.

### Our manufacturing program

- Window patching and lining machines
- Transportation units for blank piles
- Pre-feeders
- Transportation units for blank piles
- Carton erecting machines
- Special machines for carton and foil handling

©Heiber + Schröder
Maschinenbau GmbH
Feldheider Straße 52
40699 Erkrath - Germany

Tel: +49 (2104) 93 76-0
Fax: +49 (2104) 3 57 49
E-Mail: info@heiber-schroeder.com
http://www.heiber-schroeder.com