

Active protection against wrap-ups and reducing down-time to a minimum



WebCatcher S18 with web break sensor

High-speed web break sensors provide protection against wrap-ups

The WebCatcher – Baldwin’s automatic web catching device – is a press protection system that reliably eliminates the dreaded wrap-ups after a web break. Thanks to the WebCatcher, downtime can now be reduced to a minimum. The WebCatcher, a fully integrated automatic web catching system from Baldwin, is designed for all popular web offset presses operating at web speeds up to 18 m/s (only S18). It can be retrofitted in existing printing lines without any problems. The WebCatcher is distinguished by a very small footprint. It is installed between the last printing unit and the heatset dryer.

The WebCatcher is a fully integrated system. A built-in sensor monitors the web continuously during the printing process. It senses web breaks and instantly activates the web catching system. If a web break occurs, the WebCatcher pulls the broken web from the last printing unit before it has a chance to wrap around the cylinders and guides it to the floor in front of the dryer. Costly, unproductive downtime – which can amount to anything between half an hour and two and a half hours following a web break – is restricted to an absolute minimum, and the press can resume production after only a very short delay.

Advantages

In Practice

- Fastest web break detection
- Protects the printing units against damage
- Active protection against wrap-ups

Economical

- Analysis of paper failures
- Reduced machine downtimes to a minimum
- Short return-on-investment (ROI)

Ecological

- Saving of blankets



WebCatcher

Technical Description

Web break sensor

The heart of this system, an DSA-2 sensor, is a patented, specially developed device that guarantees total reliability. To compensate changes in the web width or movement of the web edge, two laser beams sense the edges continuously and actively adjust the position of the web break sensor. By making sure that the sensor position is always ideal in relation to the edge of the web, they facilitate a lightning reaction in an emergency situation. Web breaks are detected before other web monitoring sensors have had a chance to sense a web break between the last printing unit and the chill roller.

Electronic control

The control electronics form the link between the sensor that detects the break and the mechanism that prevents a wrap-up. They control the sequence of all necessary actions. The electronic control components are clearly and logically arranged in a control cabinet. The WebCatcher is incredibly easy to use. No manual intervention is necessary during operation. Even after a web break, only a few simple steps are needed to restart the press.

Catching system

The third element of the WebCatcher is the catching system. It executes a technically precise response to a diagnosed web break, thereby catching the web securely and protecting the printing units. Since there is no mechanical connection to the press, it can be retrofitted without difficulty. This design also allows the upper web in a two-web configuration to be protected by a second web catching system.



DSA-2 sensor on the exit side of the web catching system



Pneumatic muscle



Catching roller and trolley bridge

Service solutions

- Easy retrofit possibility
- Customized (ROI) calculation (Return-On-Investment)

Options

- DSWP (Dynamic Side Web Protection)
- AAA (Automatic Air knife Adjustment)
- Remote maintenance

Specifications

- WebCatcher S14
 - up to 13 m/sec. line speed
- WebCatcher S18
 - up to 18 m/sec. line speed
- Web width up to 2.860 mm



BALDWIN – Process automation for printing presses

Contact us for:

- Professional advice and support
- Further product information
- Return on investment calculation (ROI)

