Case studies

Printing

"The Fog Engineers"
H. IKEUCHI & CO., LTD.

Process: Newspaper printing

Eliminating risk of newspaper press stoppage using fog

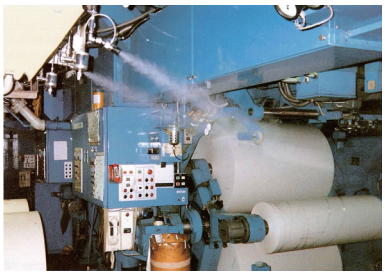
How to prevent paper web breakage resulting in press stoppage and newspaper delivery delay?

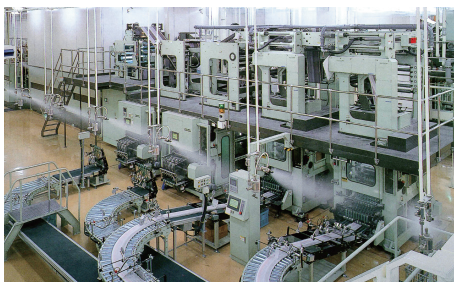
Ensuring roll paper feed continuity is a key to avoiding press stoppages in a newspaper web press plant. Using a piece of double-sided adhesive paper, a flying paster (splicer) connects a new roll onto the expiring one on a rotary press running at high speed.
One problem is that dryness around the splicer area weakens the tape adhesive strength causing two rolls not firmly stuck with each other that results in a paper web breakage.
Once the web breakage occurs, a significant amount of time is lost in getting the press ready again and the printing done during this resetting cannot be sold, and is thrown out as waste.

Spot humidification (localized humidification) helps maintain paper adhesion.

IKEUCHI proposed its unparalleled spot humidification approach to spray Dry Fog directly to the splicing area to counteract dryness, to prevent the weakening of the splicing paper adhesion, to maintain paper strength by retaining moisture content and to avoid the web breakage.

As a result, they prevented paper connectivity trouble, avoided the risk of the web breakage and achieved zero machine stoppage.
Operators felt relieved from anxiety of the web breakage and the productivity increased.





Dry Fog Humidification System AirAKI®

Controlling humidity either in a large space or narrowly defined locations eliminates problems caused by dryness.
For use in newspaper printing, localized humidification (spot humidification) is more effective and cost-saving than humidifying an entire space.

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