

MANROLAND DRUCKMASCHINEN AG, AUGSBURG

manroland

Manroland is the world's second largest printing systems manufacturer and the world market leader in web offset printing. The company has almost 9,000 employees worldwide. The assembly of web offset presses for newspaper printing and high-value commercial printing takes place at its Augsburg production site.

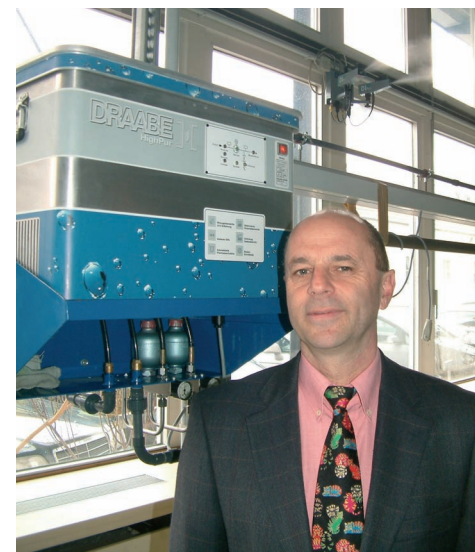
Healthy indoor environment

For Bruno Lutter, trainer in printing technology for manroland commercial printing presses, the correct humidity has always been important: "As a printer, I know what problems can be caused if the humidity in the print hall is too low. These can include paper distortion, electrostatic charges and register differences.

To me it was obvious that optimal humidity of 45-50% must be provided in our training centre." Four DRAABE DI Puls high-pressure atomizers have been installed at Augsburg for ten years. In this time, Bruno Lutter has come to value a positive side effect of the air humidification: "The correct air humidity promotes a very pleasant and healthy indoor environment. When I have to talk a lot, I particularly enjoy the pleasant air in the training centre."

Full service impresses

„In 10 years, there has never been a fault in the DRAABE system - it always runs perfectly," recalls Lutter. In order to ensure full performance and 100% hygiene, maintenance of the DRAABE systems is very simply carried out using the full-service rental system: Every six months, manroland receives completely serviced and disinfected replacement units for the water treatment and high-pressure pulsation systems. Bruno Lutter sees this service as a true "worry-free package", that fits perfectly with the manroland product philosophy.



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DRAABE AIR HUMIDIFICATION AT MAN ROLAND:

- manroland Druckmaschinen AG, Augsburg (Germany)
- manroland Druckmaschinen AG, Plauen (Germany)
- manroland Druckmaschinen AG, Leipzig (Germany)
- manroland Finland Oy, Vantaa (Finland)

DRAABE
success is in the air

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AIR HUMIDIFICATION PUR

KBA
Koenig & Bauer AG

manroland

HEIDELBERG

Leading printing press manufacturers rely upon DRAABE

Heidelberger Druckmaschinen AG,
Wiesloch-Walldorf

Koenig & Bauer AG (KBA),
Radebeul

manroland Druckmaschinen AG,
Augsburg



HEIDELBERGER DRUCKMASCHINEN AG, WIESLOCH-WALDORF

HEIDELBERG

KOENIG & BAUER AG (KBA), RADEBEUL

KBA
Koenig & Bauer AG

With a 40% market share, Heidelberg Druckmaschinen AG is the world's leading supplier of sheetfed offset presses. In addition to precision mechanical engineering, the company also offers complete solutions for software development and workflow optimization. With around 6,400 employees, the Wiesloch-Waldorf plant is the largest printing press factory in the world.

Optimal humidity for test runs

The right humidity plays a crucial role in quality assurance in many production halls on the 860,000 m² site. At 75,000 m², Hall 6 is the largest production hall for the modular and final assembly of the Speedmaster SM 102 and XL 105. The DRAABE DI Puls high-pressure nozzle system has been installed there since 1996 to

ensure a constant, year-round relative humidity of 50%. Currently, 215 DRAABE atomizers are in use. "Optimal humidity is a prerequisite for printing and testing after final assembly. If the humidity is too low, the test runs are disrupted, spoilage increases and both time and money are wasted," explains Nikolaus Görgen from Heidelberg Facility Management Engineering.

365 fault-free days

The hygienic and fault-free operation of the air humidification system is ensured by the specially prepared DRAABE pure water which is also used at Heidelberg for the process water supply to the printing presses. Görgen expects 365 fault-free days a year from an air humidification system and, so far, he's never been disappointed by DRAABE: "Reliability, hygiene and service are the key characteristics of the DRAABE system. We weren't impressed by either the technology or the available maintenance concepts of other systems."

The KBA plant in Radebeul near Dresden is one of the most successful companies in the KBA Group and, with its 2,300 employees, is responsible for sheetfed offset printing business area. The printing presses from the KBA plant at Radebeul range from half-format 52 x 74 cm to large 2 m

sheetfed formats. KBA is an international market leader in large format.

Familiarizing customers

The in-house training centre at Radebeul offers the best conditions for training courses for KBA customers lasting several days. Around 1000 m² is devoted to practical training on a Rapida 105 and a Rapida 142. "The high production capacity of modern printing presses and the continued further development of paper and printing ink require increasingly standardized production conditions," says Ulf Kaminski (head of maintenance), explaining the need for constant humidity. The training centre and the paper store have been fitted with the DRAABE TurboFog air humidification system since 2004. "A second reason for this is also to familiarize our customers from around the world with the subject of 'humidity'," continues Kaminski.

Simple retrofitting

Crucial to the selection of the DRAABE system were the integrated water treatment and the special full-service maintenance package: "All system modules including service come from a single source and are perfectly tailored to each other – this provides reliability," explains Kaminski. Thanks to the modular container system, it is also possible to expand a DRAABE system at any time without incurring major installation costs. A benefit that KBA will also utilize in the construction of its new, additional training centre.



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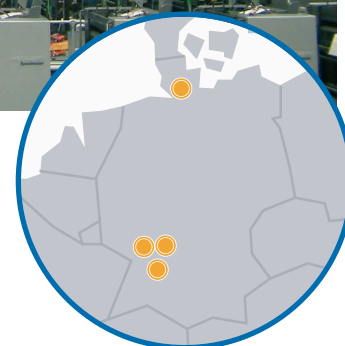
DRAABE AIR HUMIDIFICATION AT HEIDELBERG:

GERMANY

- Wiesloch-Waldorf plant: Halls 2, 5, 6, 10, 45
- Heidelberg: In-house printing, trials/machine testing
- Eppelheim: Training centre
- Norderstedt: Showroom

WORLDWIDE (SHOWROOMS)

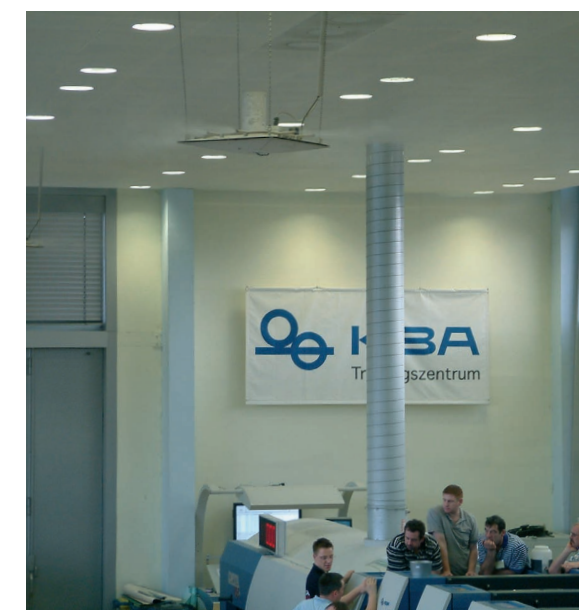
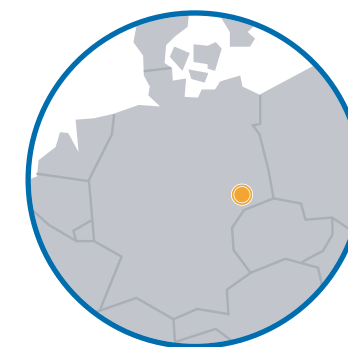
- Heidelberg Canada, Mississauga (Canada)
- Heidelberg China Ltd, Beijing (China)
- Heidelberg Balticum Ltd., Tallinn (Estonia)
- Heidelberg France S.A., Tremblay (France)



Bent Wünsche (l.), Ulf Kaminski (m.) and DRAABE consultant Matthias Tietgen have forged an excellent partnership.

DRAABE AIR HUMIDIFICATION AT KBA:

- KBA North America Inc, Williston, VT (USA)
- KBA, Radebeul (Germany)



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