

# CASE STORY

## Digital | Graphic

### Al Nisr Publishing Dubai, United Arab Emirates

**Al Nisr Publishing has equipped the printing centre near Dubai with a fully automated disposal- and compacting plant. Hunkeler Systeme AG was entrusted with the mechanical and software-engineering. Print waste, off-cuts, rest rolls and roller sleeves, wood, aluminium printing plates as well as synthetic foils are separated and sorted and then compacted in seven stationary presses.**

In a printing centre outside the city of Dubai Al Nisr Publishing produces newspapers and commercial printing jobs in coldset and heatset techniques. The production causes large quantities of diverse waste materials. Print wastes, off-cuts from cutting drums, rest rolls and roller sleeves from the printing machines, wooden pallets, aluminium print-

ing plates and synthetic foils are separated and sorted according to type, and then compacted in a fully automated large plant disposal system. The Swiss engineering company, Hunkeler Systeme AG, planned, conceived and installed this large system.

Included in the contract was not only the entire mechanical installation but also the development of the interfaces to the LGV (Laser Guided Vehicle). The disposal and compaction system works fully automatically from taking the waste from the respective production lines to filling different types of waste in the container. At no single point is manual intervention in the process necessary.

To dispose of the various materials as efficiently as possible, the most appropriate transport method is used: conveyor belts from the printing machine move the printing waste; the off-cuts from the cutting drum are removed from the production area by pneumatic, negative pressure suction; aluminium printing plates, rest rolls and roll sleeves, wood pallets and foils are transported to the skips via LGV. Even printed and unprinted paper are disposed of separately.

Seven stationary presses compact the material and transferred to a mobile container, which is then transported to the appropriate recycling point by lorry. Ten containers are always ready for the seven presses. This ensures that both production and the filling of the containers with the waste material is a nonstop operation. The weight of each of the containers is determined. Al Nisr Publishing always knows exactly how much of each material is deliv-



Al Nisr Publishing has fully automated the disposal of printing waste. No manual interference is necessary, from receiving the waste material at each production line to filling the container.

ered to a contracted recycling agent. The suction technology that is connected to the cutting drum functions with the proven negative pressure principle. The fan is placed at the end of the system. In comparison to a system working with positive pressure, a higher degree of efficiency is achieved.



The LGV-controlled disposal of rest rolls and roll sleeves is in safe 'hands' thanks to an interface programmed by Hunkeler Systeme AG.

Furthermore, the suction effect ensures that the paper dust is completely removed by the filter system and cannot return to the work area. The cleaned transport air is then fed back into the production area.

All the disposal and compaction components are

connected via secure line with the service department at Hunkeler Systeme AG. The service technicians can access the controls at any time, and are thus able to give valuable to the operating personnel at Al Nisr Publishing when necessary.

Al Nisr Publishing is a publishing company with its headquarters in Dubai. The company was founded in 1984 and, a year later, took over the newspaper title Gulf News from the previous founder and owner. Today, Gulf News is reputedly the highest-circulation English-language newspaper in the United Arab Emirates. Al Nisr Publishing issues another ten publications.



Ten containers serve seven stationary presses, ensuring non-stop production.