K.Handle Mail

OMS

Open Mail Handling System – advanced flats sorting and sequencing



# The challenge

For postal service providers it is a challenging task to make flats sequencing a profitable business. An effective solution must optimally support delivery preparation processes and also fit into the overall sorting process.

## **Our solution**

The OMS is an intelligent system for processing flats and other mail streams, including larger items up to a thickness of 32 mm. It can easily handle open and plasticwrapped magazines, allowing a large spectrum of mail to be sorted automatically down to the carrier sequence. The mail is sorted directly into trays, eliminating the manual task to empty outlets. This process is supported by an automatic full tray removal and a tray commissioning and buffering area at the machine's side.

The system architecture ensures that all items are processed without mechanical stress. This starts with a multi-stage singulation at the feeders and continues with a guided injection into the pocket carousel. The items are then smoothly transferred from the pocket carousel via stationary pockets into the mail trays with a low transfer velocity.

#### **Customer benefits**

- Extremely large spectrum of processable items from postcards to magazines and catalogues including items with a thickness from 0.5 to to 32 mm and a weight of up to 2 kg
- High throughput of up to 50,000 pieces per hour with a 4-Feeder configuration
- Advanced sorting accuracy and gentle mail handling
- Efficient flats sorting and sequencing for a reduced number of overall sorting passes
- Image based identification with Fingerprint software to avoid labelling and barcode printing
- Integrated material handling in form of full tray takeaway and empty tray supply
- Excellent ergonomics for minimum operator workload
- · Cost- and space-saving configurations



# OMS with two Infeed Sections (4 Feeder Modules)



## **Cost- and space-efficient sorting**

The OMS allows for a cost-efficient combination of throughput and sorting capability. The counter-rotating tray carousel, which determines the number of outlets, and the pocket carousels for ascertaining the throughput are basically independent sub-systems, linked by the stationary transfer pockets in the sorting section. The high-speed automatic flats feeder achieves an hourly capacity of up to 12,500 mail items per infeed line. Körber offers the OMS with a 2- or 4-Feeder configuration for a total nominal throughput of maximal 25,000 or 50,000 mail items per hour, respectively.

## Full trays with perfect stacks

Full trays are important for minimizing handling and logistics costs. The OMS is equipped with a tray-filling level-measurement system on the tray carousel. In combination with intelligent algorithms, trays are filled optimally. High-quality stacking is achieved through individual control of the transfer from the stationary transfer pockets into the trays.

## Options

- (Pre-)barcode Reader
- Barcode Printer
- Barcode Verifier
- Fingerprint technology
- High-performance reading and coding system
- · High-speed Label Applicator
- Tray Label Printer

