



**BEUMER**  
technology in motion

CONVEYING TECHNOLOGY  
LOADING TECHNOLOGY  
PALLETIZING TECHNOLOGY  
PACKAGING TECHNOLOGY  
**SORTATION AND  
DISTRIBUTION SYSTEMS**

**ROSSMANN**



**High capacity sorting installation  
BEUMER 2D Tilt Tray Sorter**

## BEUMER – Partner for Intralogistics of ROSSMANN Drugstore



The drugstore chain ROSSMANN has a staff of 13.000 people, 1.125 shops, and is number 3 among the German drugstore chains. Rossmann belongs to the Top 20 in the field of German food trade companies. The DIRK ROSSMANN GmbH is owner-managed and in its majority owned by the Rossmann family. The company headquarters are in Burgwedel nearby Hannover/ Germany.

In August 2002 the new logistics centre in Landsberg started official operations with a ceremonial act attended by 600 guests. The German Federal Chancellor Gerhard Schröder, the Prime Minister of Saxony Anhalt Prof. Dr. Wolfgang Böhmer and Dirk Rossmann jointly signaled the start of the approx.



3 km long conveyor belts and the new BEUMER 2D Tilt Tray Sorter.

The BEUMER 2D Tilt Tray Sorter distributes articles for Rossmann branches in several batches per day. The high capacity system is directly connected with the warehouse management system via the BEUMER Sorting System (BeSS). The BeSS receives the batch data from the WMS and returns production data after the process. This production data provides the WMS its basis for stocking and invoicing.

The high capacity sorting system consisting of the BEUMER 2D Tilt Tray Sorter and the BEUMER Sorting System guarantees quick and smooth processes in the central warehouse in Landsberg, nearby Halle.



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## The BEUMER 2D Tilt Tray Sorter as key component of a modern high capacity order fulfillment system

### Logistics

Rossmann fulfills orders using 3 areas of the distribution center:

- Order picking cart for non-conveyable items
- Pick to Light System low volume items
- Pick to Belt System feeding the BEUMER 2D Tilt Tray Sorter



### Pick to Belt area

The pick to belt area designed and supplied by BEUMER is integrated in the high bay storage and consists of 4 order picking aisles on 3 levels.

BEUMER provided each pick to belt aisle with a special low noise belt conveyor and mobile pick tables, each of them equipped with a terminal and a label printer.

Corresponding data is transmitted via BeSS (BEUMER Sorting System) with narrow band radio communication. The articles are then transferred to the BEUMER 2D Tilt Tray Sorter for further sorting process.

The 3-part conveyor destination facilitates the gentle handling of the articles: braking belt to reduce the item's speed, accumulation belt and metering belt. At the end of the destination, an operator places the items into a roller cage.

### The BEUMER 2D Tilt Tray Sorter and its most impressive features:

- gentle handling of the articles
- sturdy design
- patented, low maintenance tilt element with lowerable tilting axis
- driven, two dimensional discharge process
- low maintenance carriage
- low maintenance and low wear linear motor drive
- low noise operation
- modular design

### BEUMER 2D Tilt Tray Sorter

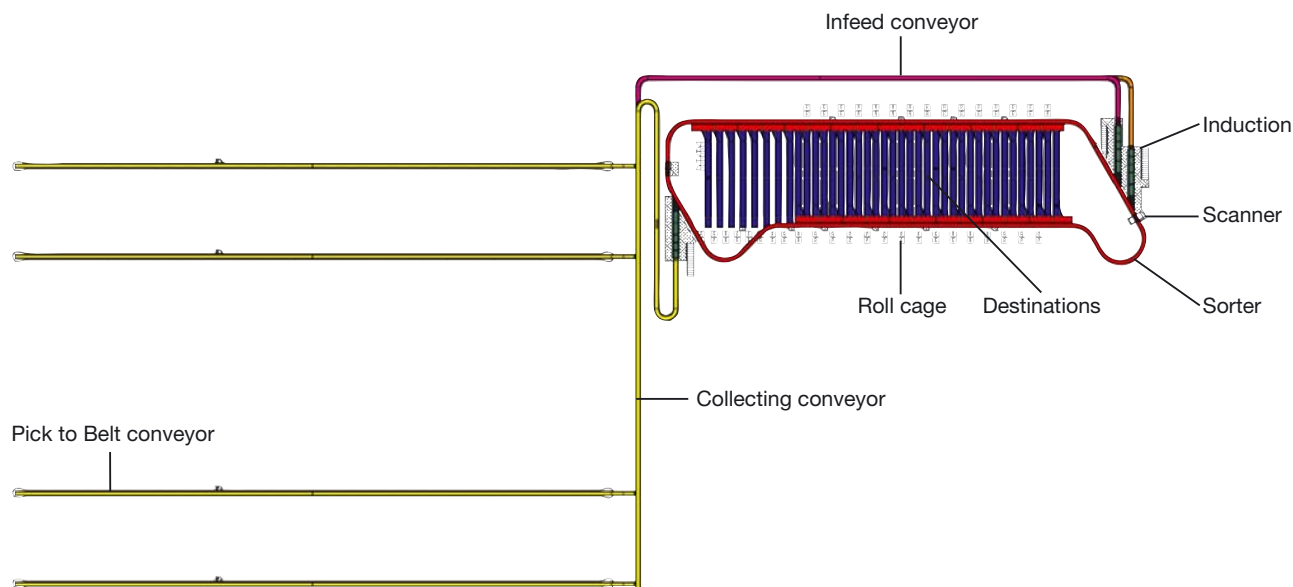
High capacity dynamic inductions permit a precise feeding of the articles to the BEUMER 2D Tilt Tray Sorter. The identification of the articles is made by laser scanner before they are discharged in the branch specific destination.





## Technical data:

Destinations:	30
Destination type:	brake conveyor, accumulating conveyor, discharge conveyor and pick-up table
Sorter speed:	2m/s
Sorting capacity:	9.000 product/h with 3 inductions 12.000 product/h with 4 inductions (future phase)
Peak capacity:	16.000 product/h (short peaks under best possible conditions)
Induction capacity:	max. 4000 product/h
Feeding technology:	12 Pick to Belt conveyors on 3 levels with pick table, terminal and label printer 3 collecting belt conveyors and infeeds to the sorter
Control system:	BSC (BEUMER Sorter Control) with S7-400 with distributed I/O BeSS (BEUMER Sorting System) by HP-ProLiant with RAID 1 function, operating system Windows 2000 Professional BeOS (BEUMER Operator System) as visualization and sorting functions adapted to customer's requirements



The information contained in this brochure merely serves as a non-binding description of our products and is without guarantee. Binding information, in particular relating to capacity data and suitability for specific applications, can only be provided within the framework of concrete inquiries.

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