



THE POWER OF DELIVERY

viastore.
systems

Distribution Center Cargill Meat Solutions, Friona, Texas/USA

References

Nº 19



19

References

Food and Beverage
New Installations



Cold Storage Warehouse with Speedy and Efficient Order Processing

Initial situation

Cargill Meat Solutions is a leading premium beef producer headquartered in Wichita, Kansas (USA). In order to provide highly efficient and reliable processing of customer orders, a new overall system was to be developed for the company's facility in Friona, Texas, which processes more than one thousand head of cattle per day.



System Solution

The new system enables Cargill to sort, store and dispatch the cartons and track each shipment in real-time. After the beef has been processed, the cuts are vacuum sealed in plastic bags, deposited in corrugated cartons and labeled with a bar code. The boxes then travel by conveyor from production into the new distribution center which is cooled to around 28 degrees F (-2.2 °C). The control system determines the destination of each carton, some are sent directly to shipping and others are stored in the AS/RS by means of viaspeed storage and retrieval machines. Each aisle stores 3,920 individual cartons with a capacity of 115 lb. (52 kg) each. The load handling devices, inbound and outbound lanes as well as the rack system are all suited for three different carton dimensions.

The Result

The successful concept of the system results from excellent cooperation with the customer. Thanks to the introduction of the new software, which is directly connected with the S/R machine control, it is possible to precisely keep track of inventories.

Scope of Supply:

- Storage and retrieval machines
- Conveyor system
- Rack system
- Fire protection equipment
- Material flow control system

Essential Features:

- Automated carton warehouse:
 - 20 viaspeed S/R machines, each with two single deep lateral load-handling devices (belt transfer)
 - Height 50 ft. (15.2 m), length 110 ft. (33.5 m)
 - 78,400 storage locations for cartons
 - Maximum capacity per carton: 115 lb. (52 kg)