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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

Excel Beef 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 Excel Beef 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)