



## Demag CoilMaster Crane Provides Multi-Level Stacking in an Automated Coil Storage System

### Features and Benefits

Optimal floor space utilization vs. single level storage

Positive inventory tracking

Enhanced product protection

Lower operating cost through Automation

**Industry Group:** Crane Manufacturers Association of America (CMAA)



### System Integration, the Key to Performance

In close cooperation with the end user, Demag Cranes and Components Corp. designed an integrated coil storage system adjacent to an existing coil processing bay. Since the system is capable of stacking coils up to 3 levels high, the available storage floor space allowed the owner to clear space in the processing bay for continued production growth on their property. Demag Cranes & Components designed and delivered all system components as a Single Source supplier:

### Automatic Overhead Crane

A Demag "CoilMaster" top-running double girder crane, rated CMAA Class E duty, designed for 40 metric tons on the motorized coil grab, is used to handle the coils into and out of storage. Stepless variable speed control in all axes (50 FPM full load hoist, 130 FPM trolley, and 330 FPM bridge travel) is employed to meet the throughput needs of a busy coil processing plant.

### Automatic Input & Output Shuttles

Demag developed automatic coil transfer cars which not only link coil receiving, coil processing to storage, but also serve as intelligent identification and sizing stations.

### Automatic Crane Controls

The coil crane is equipped with Demag's proprietary on-board crane controls for automatic operation.

### **Integrated Storage Master System**

The ISMS is responsible for inventory tracking and administration of storage strategies. Each coil has a unique identity in the system for its inventory life. Utilizing sophisticated algorithms, considering coil diameter, material compression of lower units, the ISMS models the actual storage profile to determine proper locations for new, incoming coils. The ISMS also directs the crane automatically to relocate coils that may be located above a specific coil scheduled for the next inventory move.



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