

**JNE****Automation**

FULLY AUTOMATED COIL STORAGE MANAGEMENT SYSTEM (CSMS)

JNE provides a complete, fully automated coil storage management system (CSMS), factory-tested and validated.

A **CSMS** offers significant benefits to manufacturers, improving operational efficiency by automating the storage and retrieval process, reducing errors, and speeding up the overall process. The system optimizes storage space and full time equivalents, resulting in cost savings, and workplace safety is improved by eliminating the potential for manual handling injuries. A CSMS package enforces safety protocols and offers better inventory management, reducing the risk of lost or misplaced coils.

A fully automated handling system improves efficiency, reduces costs, and enhances workplace safety. The CSMS package is a reliable solution that can be adapted for slab storage, roll shop operations, plate handling, and more.



PROVIDED SERVICES

- Storage + Logistics Planning
- Product Tracking
- Crane Automation
- Control System Integrators
- Health + Safety Engineering
- Complete Installation Engineering (Mechanical, Electrical, Structural)
- Project Management
- After-Sales Services
- Crane Retrofit and New Build Engineering Specifications

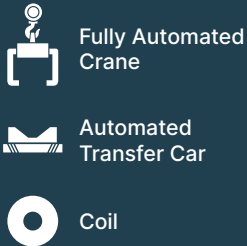
ON-SITE SERVICES

- System and Panel Supply
- Installation Support
- Start-Up and Commissioning
- Construction Management
- Certified electricians to support JNE's commissioning needs
- Fabrication Shop for any required structural modifications

EXAMPLE FACILITY LAYOUT

This example identifies some of the aspects of the mass storage systems, including inventory consolidation and storage optimization.

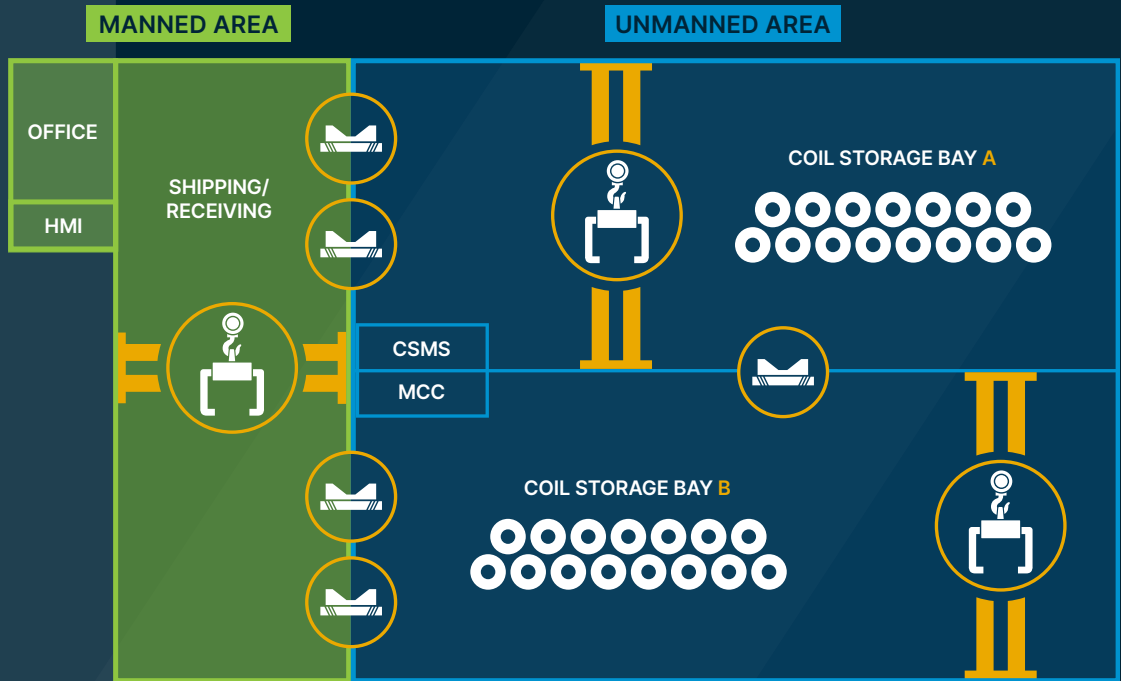
SYSTEM RESOURCES



KEY PROCESSES + FEATURES

- Receive into Facility
- Ship from Facility
- Cross Bay Activities
- Consolidation
- Even Distribution

*There are a total of 82 Processes available in the system.



CSMS = Coil Storage Management System MCC = Motor Control Center

RECEIVE INTO THE FACILITY

Coils arrive to the facility by truck and are manually loaded onto one of four transfer cars. Each coil carries a unique barcode which is scanned using an RFID device. Information is passed to the PLC (Zone, OD, Width) and from this point onwards coils are stored entirely through automation.



SHIP FROM FACILITY

If a coil is on the bottom level and requires a dig to take place (1–2 coils on top), the system automatically finds free space for these coils and moves them to their new locations.



ADD-ON FUNCTIONS

Even Bay Distribution

Consolidation

Map Management

Zone Allocation