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**Operating model**

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For more details, please write to:

**Signode India Limited**

Email: info@signodeindia.com

URL: www.signodeindia.com

Tel: +91 40 67468900/8926

India, June 2015

Serving metals industry, worldwide

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With nearly seven thousand employees working in US, Europe and Asia, our company is a pioneer in the industrial packaging sector with a long history of customer-focused innovations in materials, processes and automation technology.
Signode has been partnering the world’s best metal companies for nearly 100 years. Going beyond just products and services, Signode takes a holistic view of the industry’s competitive needs, delivering ideas and solutions that have earned recognition from many of the world’s best companies.

Leveraging the understanding of finishing processes, Signode has been looking for ways to contribute to metals industry’s business end to end. Reduction of total cost of operations (TCO) is the expanded focus.

For developing global advantage, Indian Steel Industry has identified several key issues. Of these, ‘infrastructure’ and ‘environment’ have been identified as important long term growth enablers.

The focus is on internal logistics process efficiencies - to reduce cost/tone by streamlining the hidden costs in logistics operations and implementing best practices with continuous process improvements. Project appraisals will quantify the impacts of improved throughput/productivity, supply chain visibility and commercial security features, truck/rail turnaround and reduced transaction costs. The offering extends to post-implementation operations also.

To provide these services, Signode has established relationship for marketing, implementation and operational services with global technology partners.

ITLMS is a client-server based system primarily developed for managing the slab, coil, longs yards of any metal industry. It is designed for tracking the movement of metal products through the value chain through real-time material tracking, regulation and reporting.

ITLMS scope includes licensed yard management, scheduling and tracking inventory through various processes, yard location/space management, dispatch planning including load building and material staging and logistic terminal management.

The complete system is part of a supply chain process that plans and controls the efficient flow and storage of finished or semi-finished products and has a broad positive impact on the inventory balance and material transport with better customer delivery compliance.

This is just out a software package but encompasses all control functions related to crane, transfer cars, coil conveyors essentially required for material tracking functions. The main elements of ITLMS are Crane animation, Server, RF Network, Hand held terminal.
Signode - building internal logistics capabilities

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Advantage India - an enabling framework for growth

Advantages

Integrated Tracking and Logistics Management System - ITLMS

- System driven separation of charging activity from unload activity
- Real time availability of slab information
- Improved yield of plates; right slab for each plate
- Slab wise charging – reducing plate sampling for quality assurance and clearance
- Increased crane availability for slab mutation
- WIP visibility
- Congestion free truck movement

Coil Stock LMS

Advantages

- Minimum coil handling from HR stock-in to CR dispatch
- Real time display of coil inventory throughout CRM
- Online stock reconciliation
- Just-in-time(JIT) coil supply and evacuation from process lines
- Optimised crane utilisation
- Real time order progress reporting
- Zero mix-up at coil dispatch
- Reduction in transport turn-around time
- Increased safety through finger trip controls

The ITLMS in CRMs involves more complex optimizations, where material is exchanged across multiple process lines - sometimes as many as twelve. The LMS handles material flow across the process lines depending upon the size of the material, product mix requirements, etc.
Menu driven, people friendly

Vehicle management

Work order management

Vehicle management

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Integrated Tracking and Logistics Management System - ITLMS

Slab Yard LMS

Advantages

- “System driven” separation of charging activity from unload activity
- Real-time availability of slab information
- Improved yield of plates: right slab for each plate
- Sheet wise charging – reducing plate sampling for quality assurance and clearance
- Increased crane availability for slab mutation
- WIP visibility
- Conception free truck movement

Right slab for each charge

Slab tracking

Real time inventory

Staging for dispatch

Coil Yard LMS

Advantages

- Minimum coil handling from HR stock-in to CR dispatch
- Real-time display of coil inventory throughout CRM
- Online stock reconciliation
- Just-in-time (JIT) coil supply and evacuation from process lines

Minimum coil handling from HR stock-in to CR dispatch

Staging for dispatch

Loading

Coil Yard LMS in CRMs involves more complex optimizations, where material is exchanged across multiple process lines - sometimes as many as twelve. The LMS handles material flow across the process lines depending upon the size of the materials, product mix requirements, etc.

Advantages

- Optimized cruise utilization
- Real time order progress reporting
- Zero mix-up at coil dispatch
- Reduction in transport turn-around time
- Increased safety through finger trip controls

Optimized cruise utilization

Real time order progress reporting

Zero mix-up at coil dispatch

Reduction in transport turn-around time

Increased safety through finger trip controls

Coil Yard LMS

Input identification

Coil location

Tracking through value chain

Validation

Trailer tracking

Lead builder

Staging for dispatch

Loading
Replenishment cycle

Steel Replenishment Management System

The web based system is a comprehensive tool to manage steel resale programs. It provides visibility to parts, suppliers, ordering processes, and steel usage with minimal human resources; allowing companies to reduce staffing requirements and the related administrative cost burdens.

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Advantages of downstream logistics management system for steel service centres and distribution hubs include:

- Improvement of storage and retrieval efficiency.
- Accurate storage information and minimization of product mix-ups.
- Optimized usage of material handling equipment.
- Accurate material tracking and optimum manpower utilization.

In-process tracking

- Downstream LMS Services

- Downstream LMS functionality

- Downstream LMS Services

- In-process tracking

- Dispatch management

- RF network based

- Tracking in transit

Advantages

- Index of all parts with current status
- Description of material used to produce a part and a list of all other parts stamped simultaneously from the same blank
- Tier-1 suppliers are able to grant access plus material ordering capability to their Tier-2 parts suppliers
- Finished coil information describes specification, shipping and packaging information
- OEM’s gateway to update master parts list to accommodate platform and engineering changes
- Overview of all releases / orders / ship activity for all parts
- Parts supplier ability to order steel from a system screen that brings together all necessary order detail
- Index of orders along with current status and order detail
- Information for stamped parts including OEM and part supplier identification numbers
- Parts’ specific material requirements plus all packaging and shipping instructions on a part-by-part basis
- Coil detail information

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- Improvement of storage and retrieval efficiency.
- Accurate storage information and minimization of product mix-ups.
- Optimum usage of material handling equipment.
- Accurate material tracking and optimum manpower utilization.

Advantages

- Automated reporting of receiving and shipping via variety of EDI protocols
- Automated load tenders, arrange truck schedules
- Single source for data
- Control of transportation costs “outside the gate”
- Reduced traffic management and increased transportation efficiency
- Performance metrics and analysis

Building Internal Logistics Process Capabilities

The system provides:

- In-feed to bundling operation
- Bundling and identification through the value chain
- Load building
- Staging for dispatch
- Automated loading

Online strapping with marking

In-process tracking

Online strapping with marking

Intelligent loading

Online strapping with marking

Intelligent loading
Replenishment cycle

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Advantages

- Downstream LMS Services
  - In-process tracking
  - Dispatch management
  - In-feed to bundling
  - Bundle identification
  - Online strapping with marking
  - Intelligent loading

Downstream LMS Services

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