



- A Company with Consulting capabilities that designs and proposes all the systems required for the client's ICT transformation
- Development/Consignment Mgmt. Center operating on behalf of system operation and maintenance(AMO)

SI Company for B2B Smart Factory

responsible for comprehensive consulting, follow-up and step-by-step advancement

OMS (Order Management System)



- The order data from analog channel, for example Fax, email, etc, is automatically processed by using OCR and AI technology.
- Constructs an order management system that automatically collects order data for each channel and classifies data and automatically generates order data with an AI program based on Python.



03. RTS

RTS (Real Time Scheduling)



- Based on the order data received every day from the custom production factory, a real-time production plan is automatically established according to the facility capabilities of each factory and production instructions.
- A real time scheduling system for a model optimized with rule-based production planning and learning functions.

Auto Scheduling System



Tomson machine : a machine that prints and cuts packaging boxes

MES (Manufacturing Execution System)



- Smart factory management in the paperless environment is possible by utilizing kiosks, barcode/QR codes, and tablet devices for manual production management such as material warehousing, delivery order, production order, and quality control etc.
- Construction of an integrated production management system for material management, process management, and goods delivery management based on orders and production plan results



05. TMS

TMS (Transport Management System)



- After production is completed, the delivery date to customer, the delivery place to the customer and the load capacity are calculated, and the transportation plan is automatically matched with the standby vehicle, and the load cargo/unload cargo/delivery process is managed through APP.
- Establishes transportation plan according to vehicle size(1 ton, 2.5 ton, 5 ton, etc.) by calculating customer delivery time, delivery location, and delivery volume based on completed orders Manages vehicle driver(APP.) in real time Automatically sends notification messages to customers before departure

Standardize master information				
Customer Information	Authority management			
Business office information	Menu/Code Management			
Vehicle information	User Management			
Vehicle loading and Unloading information	New announcements Management			



Location control	
Collection of vehicle location information	Push management of freight driver
Notification of completion time of unloading cargo	Automatic departure/ arrival information
Notification of unload cargo completion time	Departure/Arrival Path Analysis
Real-time traffic conditions	

	MODILE and KIUSK FUNCTION			
	Client company			
	Notification of scheduled Input order			
	Vehicle real-time New announcements position check Management			
	Loading information check			
	Vehicle driver			
nt	Standby registration of free vehicleScan bar code for loading items			
	Loading list check Print out statement of account			
	Print out receipt Vehicle allocation check			
	Mobile App			

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imo Company Profile

Background on the drive	Different order forms, order registration errors, inconsistent productivity, and manual- management were hindering business efficiency and customer satisfaction improver	-based production rent.
Many errors to get and place an order	 Accurate data to get an order and place an order must be entered, but frequent errors in registering order data occur due to manual input processing such as telephone or fax Frequent unnecessary communication between companies for error verification and correction Standardization system such as Flute, Trim, Paper Kind Code, Size, Score, etc. is urgently needed 	FAX E 9 TEL000308-371 9 TEL000308-371
Low productivity and operational efficiency	 Frequent job change due to small quantity batch production. Lack of productivity due to manual-based production Inconsistent productivity based on seasonal order volumes Difficulty to grasp the progress of the preceding process 	정원공가(원단가공) 3,00 25,000,000
Manual-based production management	 Although manufacturing facility of packaging box has been invested, no partner company is implementing the production management system Manual inventory management, quality management, and delivery management make site managers more burdened with work Delay and error in customer response due to manual identification of production progress 	

06. Reference_Corrugated Cardboard Manufacturing T CO.(2/3)

imo Company Profile

Direction



• Standardize master information

(Product information, facility management, various codes, etc)

- ERP/MES system Enhancement
- Interface between new Systems & legacy(ERP/MES)
- Construction of automatic system of order input (OMS)
- Construction of Automatic dispatch system (TMS)
- Construction of rule-based automatic scheduling system(RTS)

Digital Transformation for Corrugated Cardboard Packaging and Manufacturing Operation



* The number indicates the order of introduction of new system

06. Reference_Corrugated Cardboard Manufacturing T CO.(3/3)

imo Company Profile

Effect

Improvement manufacturing process, manufacturing quality and work efficiency, advancement of production site management level



Improves production site flow

Possible to

- get progress of production
- · get the overall situation at the production site
- manage raw materials
- reduce return products and comply
- with delivery dates



Improves the quality of products

Possible to

- prevent errors of work
- find error quickly in field
- help keep track of products and processes



Improves production site work efficiency

Possible to

- increase work efficiency through paperless work and operations
- promote automation of production sites
- increase efficiency of facility maintenance
- Flexible response of system in process change