



**MARKINDO  
REKATEKNIK**  
PACKAGING | CODING | MARKING

# Table of Contents

01

## Summary

About our company, mission & vision, company values and trustworthy global and international partners.

02

## Range of Services

Coding and marking technologies, Packaging manufacturing & solutions, IIOT and Industry 4.0

03

## Competitive Advantages

Our competitive advantages with our in-house manufacturing facility.

04

## Services

Our commitment to Quality  
Efficient Uptime with predictive maintenance, service routine maintenance and on-demand services.

# Summary



Markindo Rekateknik is a leading Industrial Automatization Engineering Firm specializing in the Packaging, Coding & Marking industries.

Our primary objectives are to:

- Enhance business and manufacturing performances through proper implementations of IOT and Industry 4.0 Integration to existing manufacturers and firms
- Effectively reduce manual labor dependencies, while at the same time, boosting throughput and productivity.

## Established

---

April 1997

## Headquarters

---

Jakarta, Indonesia

## Branch Offices

---

Medan, Cikarang, Bandung, Semarang, Surabaya & Makassar

## Employees

---

300+

## Target Audience

---

Small-Medium, Large Corporate



# Mission & Vision

## Company Mission

To automate, integrate and elevate existing manufacturing processes by providing the latest, most impeccable, and vast efficiency and traceability solutions.

## Company Vision

To empower and assist businesses, small-large corporates, in becoming the nation's Industrial Revolution Leaders.

# Company Values

## Customer Oriented Result

Clients' satisfaction is our #1 priority.

## Critical Thinking

Our outstanding teams of experts are dedicated to provide and assist clients with the best solutions.

## Teamwork

Together with clients, our team works exceptionally well in achieving growth and goals.

## Integrity

We stand by our solutions, and we uphold the highest standard of service, provided whenever and wherever, solely for our clients' gratification.



**When it comes to brilliant packaging, coding & marking for your production line, with decades of experience, Markindo is a Maestro in the industry that you can trust to deliver the best service.**

### **100+ Machines**

---

Anything your product needs, we have the machines.

### **11 Brands**

---

High-quality, branded machines only.

### **1000+ Clients**

---

We have served and collaborated with numerous clients throughout Indonesia.

# Our Partners





# Range of Services

## Coding & Marking



## Packaging Machines



## IIOT & Manufacturing Automation



# Coding & Marking

Coding and Marking are essential parts of any line of production. Their smooth functionalities are crucial to ensure product traceability.

- Our Coding and Marking methods guarantee the highest quality, safety, and authenticity of any product.
- Our Coding and Marking, together with our Track and trace Solutions, will help maintain clients' product Quality Assurance (QA) and Quality Control (QC) and to reach the highest quality standard possible in today's highly competitive manufacturing landscape.





# Coding & Marking Technologies



## Continuous Inkjet (CIJ)

Ink-based printing of up to five lines of text and 2D barcodes on a variety of packaging via trans versing system. Applicable to most packaging lines and substrates.



## Thermal Inkjet (TIJ)

High resolution up to 600 dpi, ink-based non-contact printing that is generally used to print DataMatrix, QR code and other barcodes.



## Thermal Transfer Overprinting (TTO)

High resolution up to 300 dpi, thermal ribbon-based on-contact printing, using digitally controlled printhead. Commonly used to print on flexible films, packaging and labels.



## Large Character Marking (LCM)

Low and high resolution large character marking inkjet printer, to print alphanumeric codes, variable data, barcodes, graphics on boxes and shrink wrap.



## Laser Marking System

Beam of laser that creates crisp and clean marks onto packaging surfaces. High print quality marks and permanent, no supplies ink needed.



## Label Printer Applicator (LPA)

Prints and place labels of various sizes on multiple package types. Automated label print & apply onto boxes and shrink wrap.



## Specially Developed Inks and Supplies

Videojet offers 640 application-unique fluids and a wide variety of specialized ribbons to help ensure the right solution for your application.



## Software and Accessories

We offer a broad selection of accessories and a nation-wide service and technical support resources.

# Coding & Marking

Primary

Secondary

Tertiary



## Primary Packaging

Placed **in direct contact** with the products' package.

Example:

Bag, sachet/pouch, can, jar, and bottle.

Our Coding and Marking offers a wide range of services, from printing standard traceability information to reliable and robust serializations, covering a broad range of substrates and various applications.



**Continuous Ink Jet (CIJ)**



**Thermal Transfer Overprinting (TTO)**



**Thermal Ink Jet (TIJ)**



**Laser Marking**

# Coding & Marking

Primary

Secondary

Tertiary



## Secondary Packaging

**Following the Primary and prior to the Tertiary packaging**, the Secondary Packaging system provides exterior covering aimed to further protect the interior of each saleable unit inside the primary packaging.

Example:

Bag, sachet, carton, case, box

To boost up the inventory and supply chain efficiency, having clear and accurate Secondary Packaging is essential. Therefore, **we offer High-Resolution options if additional information on the packing material is needed.**



**Continuous Ink Jet (CIJ)**



**Thermal Transfer Overprinting (TTO)**



**Print & Apply Labeler (LPA)**



**Thermal Ink Jet (TIJ)**



**Laser Marking**



# Coding & Marking

Primary

Secondary

Tertiary



## Tertiary Packaging

Tertiary packaging forms that are universally and most commonly used by our clients are cases and palletized unit-loads. They are easy to arrange and load into transit containers.

Example:

Case, box, pallet

The efficiency of bulk transport inventory and warehouse storage depends on the quality and accuracy that the tertiary coding provides. Here is where our expertise is handy. Our trusted machines guaranteed clear, crisp, and readable Coding and Marking.



**Print & Apply Labeler  
(LPA)**



**Large Character Marking  
(LCM)**

# Coding & Marking



## Serialization

The process where unique, random, and traceable numbers are assigned to every single saleable unit, giving each individual unit a distinctive identity.

Serialization allows each saleable unit to be tracked and monitored through its entire supply chain at any point during its life cycle. Starting from production to retail distribution, all the way to the moment consumers purchase the end product.

Industries:

Pharmaceutical, Food n Beverage, Electronics, Cosmetics.

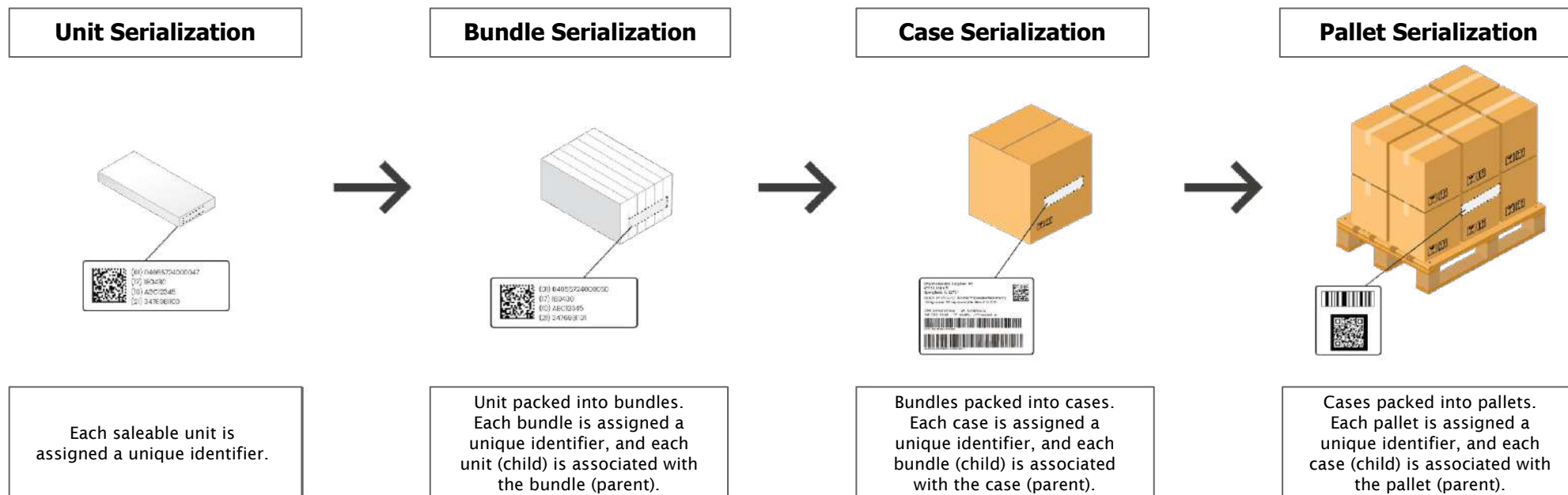
## Aggregation

The process of grouping individual serialized packaging into larger units, such as bundles, cases, or pallets. These units bear a code that contains serialized information about the packaging within the body of the unit.

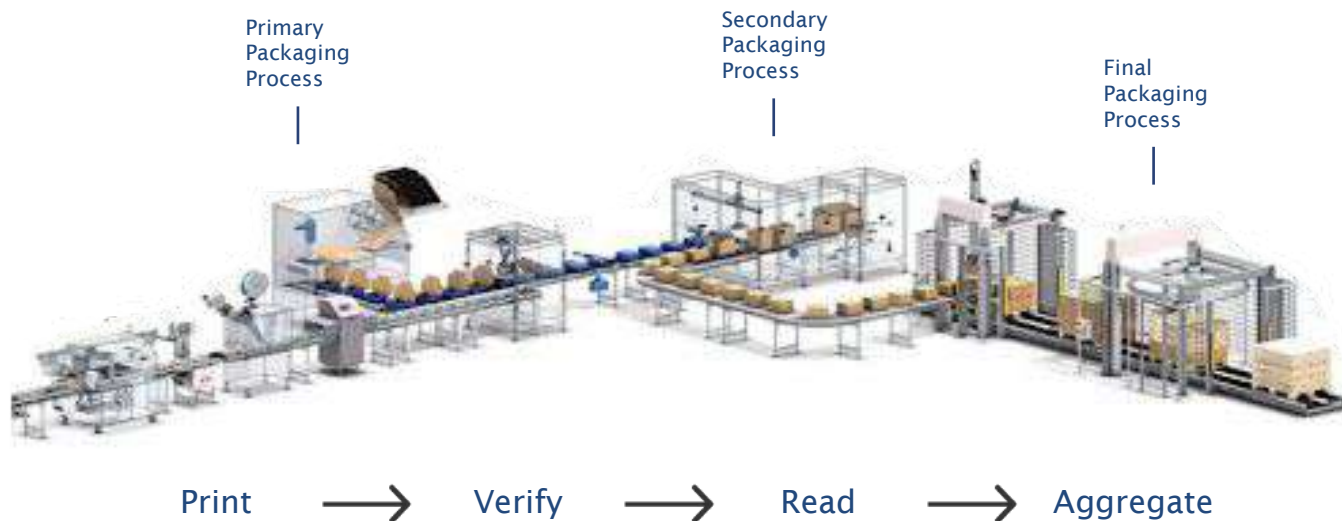
Aggregation builds a macro-micro or parent-child relationship mechanism, identifying every group of product packages. This mechanism creates a new code that works as “parent identity” to the products inside a bundle, case, or pallet.

Therefore, by scanning only the code on a bundle, case, or pallet, information of the product within it will instantly be available without clients needing to open the boxes or pallets.

# Serialization & Aggregation







# Computer Vision & Track and Trace Solutions

Computer Vision protects your production and customers.

- Will immediately flag supervisors during line-faults and production errors. Thereby, maintains product standards and quality as well as ensures Quality Assurance and Quality Control.

Track and Trace Solutions ensures traceability and accountable audit trails down to time, shift, and location.

- Functions to detect and isolate faults immediately and track every product that leaves the plant, even down to distribution, tracking details of every shift and team responsible records.

# Packaging & Manufacturing Solutions



Contemporary packaging and manufacturing methods are constantly playing catch up with society's' modern imaginations and demands in providing more attractive packs design and extending product protection and shelf life.

Markindo partners up with various trustworthy and most innovative brands for Industrial Packaging Solutions.

We offer our clients the freedom of creativity by providing the best-customized packaging machines and complete lines to push new ideas. This commitment reflects the capabilities of our machinery.

Our wide range of solutions and machines' flexibility allows us to act effectively and efficiently for the needs of all industry sectors:

- Various types of Form Fill, covering most types of packaging possible in the market and industry
- High performing (utility, productivity, durability, and efficiency) machines to achieve industrial automation
- Unique and fully customize setups for every custom and requirement.

# Industrial Packaging Solutions



## Filling Machines

- Vertical Form Fill Sealing (VFFS)
- Horizontal Form Fill Sealing (HFFS)
- Multilane Form Fill



## Weighers

- Multihead Weighers
- Check Weigher



## Case Packers

- Automatic Case Packers
- Carton Erector
- Palletizing Solutions
- Conveying Solutions



## Product Safety

- X-Ray inspection System
- Metal Detectors



# Filling Machines

## Horizontal Form Fill Sealing (HFFS)

Flat or stand-up pouches.

A horizontal filing system capable of making pouches in different formats.

- Cap fitments for easy product pouring
- Straw attachments for soft drinks,
- Reclosable zipper systems are available and installable on the bagging machine

## Vertical Form Fill Sealing (VFFS)

Flat or stand-up pouches. Quattro pack, and chain bags.

A vertical automated packaging system, best suited for bagging solids, liquids, and gas products. It is a complete added-value packaging system that uses zip-lock bags for temporary storage and highly functional bags, such as bags with valves.

## Multilane Form Fill Sealing

Stick pack, rectangular 4-side-seal, and shaped sachets.

An automated packaging system with vast, attractive, and unique packaging designs, like bag-in-bag and multi-dose packaging. This Form is capable of filling two or more products into one sachet or into separate twin sachets.



**Checkweighers****Multihead Weighers**

# Weighers

Precise weighers are keys to any production operations. Weigher helps maintain customer safety and compliance as well as minimize waste, at the same time increasing overall equipment efficiency and productivity.

A perfect weigher should achieve the volumetric and/or level fill accuracy straight to the grams, with 0,1-gram tolerance only.

Markindo only uses high quality, high accuracy, and trusted Checkweighers with the best hygiene standards for optimum performance and outcome.

# Product Safety

Ensure your products and customer safety with Foreign Body Inspection System.

Foreign Body Inspection System automatically detects foreign bodies in food, pharmaceuticals, cosmetics, daily necessities, and industrial products.

Various inspections, such as shape inspection for cracks and chippings, weight inspection (estimated mass), and quantity measurement, will spot foreign bodies, such as metals, bones, glass, and stone. And by customizing specific areas of each inspection system in combination, inspecting a wide range of items is possible to be done at once.

## Metal Detector



Ferrous



Non-Ferrous



Stainless

## X-Ray Inspection System



Glass



Hard  
Rubber  
Plastic



Bones,  
Seashells



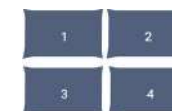
Stone  
Piece



Shape  
Inspection



Mass  
Inspection



Qty.  
Inspection





# Case Packer

Compact and flexible case packing solutions, with countless options to process any product superbly through their final packaging. Ideal for forming, filling, closing, or wrapping products, adaptable according to product type.

How it works :

- Collects and configures units into rows,
- Configures rows into a layer,
- Cleverly stack up layers until the case is filled (if preferred)



# Industry 4.0 & Industrial Internet of Things

**Interconnected sensors, instruments, and other devices networked together with computers' industrial applications.**

The true potential of IIOT is not only to connecting things, but it should be about creating real business value and solving concrete business problems.

Benefits :

- Minimize operational expenses, such as ineffective labor costs.
- Increase productivity, quality, flexibility, and information accuracy.
- Real-time productivity reporting and plant health check-ups.
- Enable preventative maintenance.

Not all plantations are ready to support the new era of industrial 4.0. Markindo specializes in helping clients integrate their compatible machines and systems so that clients can gain the benefits of Industry 4.0 and IIOT.

Depends on the machines & systems used by your production line, Markindo services will help you improve or install the IIOT systems; such as IIOT modules, cloud (database) and hardware controller application; to better suit your production needs.





# Markindo Offers

Improve the efficiency of your decision-making process and boost the profitability of your entire operation through automated robotics and information technology.

Markindo offers highly integrated manufacturing systems that link and provide real-time manufacturing and on-the-job data, predictive maintenance and asset monitoring, and asset performance management and asset tracking to prompt quick return on IoT investment.

## 2 types of IIOT services:

- Full-Process Turnkey Industrial Automation.
- Existing Process Conversion & Digitization.





# Turnkey Industrial Line Automation

A clever and well-interconnected assembly line that connects and manages all manufacturing processes via a single system.

**Markindo** offers clients a Turnkey IIOT system with preconfigured technology bundles and IP to accelerate IIOT implementation. So clients can focus on production uptime and efficiency without depending on manual labors.

To make this possible, clients can one, change their entire legacy systems; or two, add **Conversion & Digitalization technology** to their existing systems to collate and review data from their current controllers and sensors.

# Existing Process Conversion and Digitization

Markindo can convert existing packaging machines into manufacturing processes that support Turn-Key Automation by attaching sensors and PLCs into existing packaging machines.

**This customized service\*** is ideal for Users with heavily aged systems. We will replace the old motors and servos with new

digital parts that can be stitched together with Markindo's Manufacturing Management System, ready for Data Extraction.

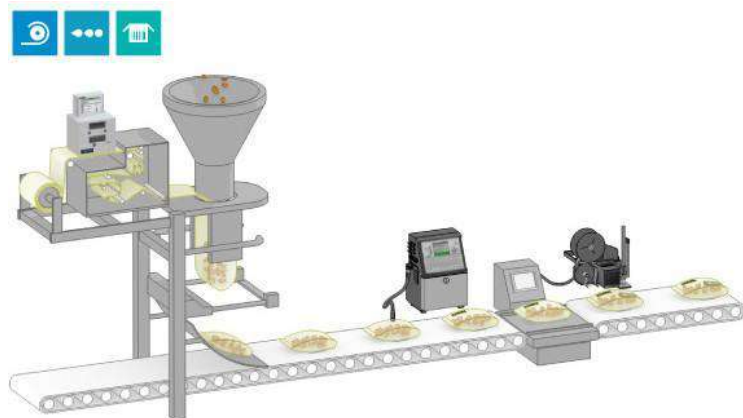
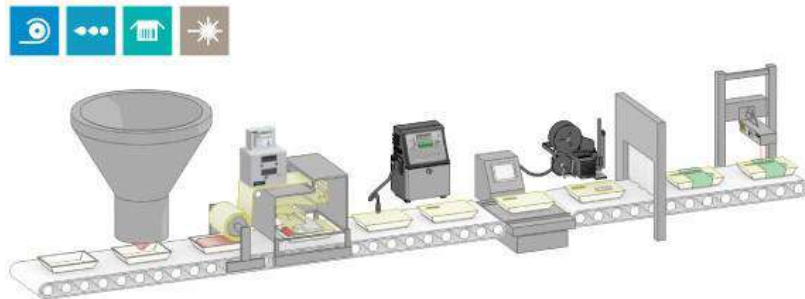
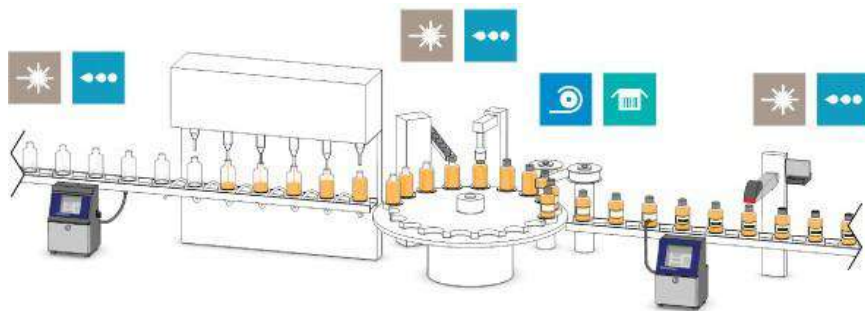
\*This option is only available for specific machines. Hence, users must contemplate their options wisely before deciding whether to revamp or retrofit their whole systems.



Non Industry 4.0 Components



Industry 4.0 Communication



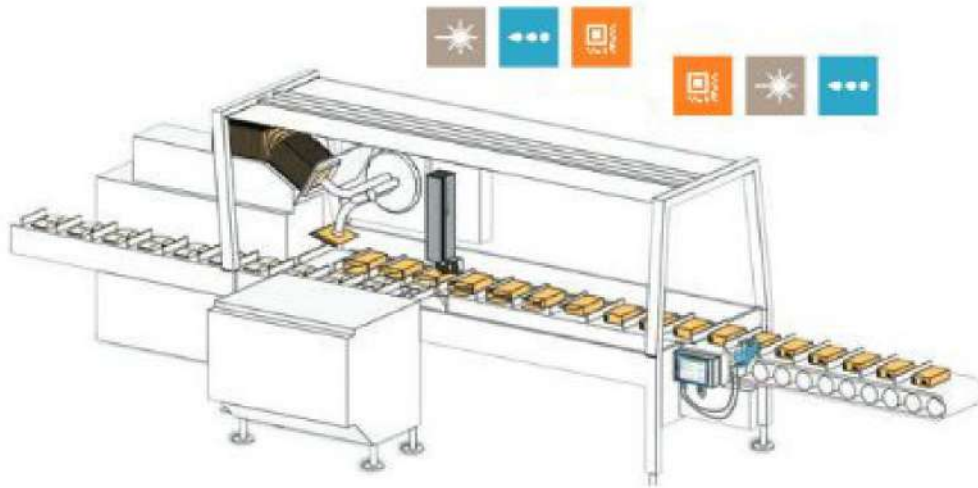
# Manufacturing Automation

Our machines will automate, elevate, and can be easily integrated into any custom manufacturing process, depending on what a production line needs.

Example line integrations for Filling Machines :

- Vertical Form Fill Sealing (VFFS)
- Horizontal Form Fill Sealing (HFFS)
- Multilane Form Fill Sealing

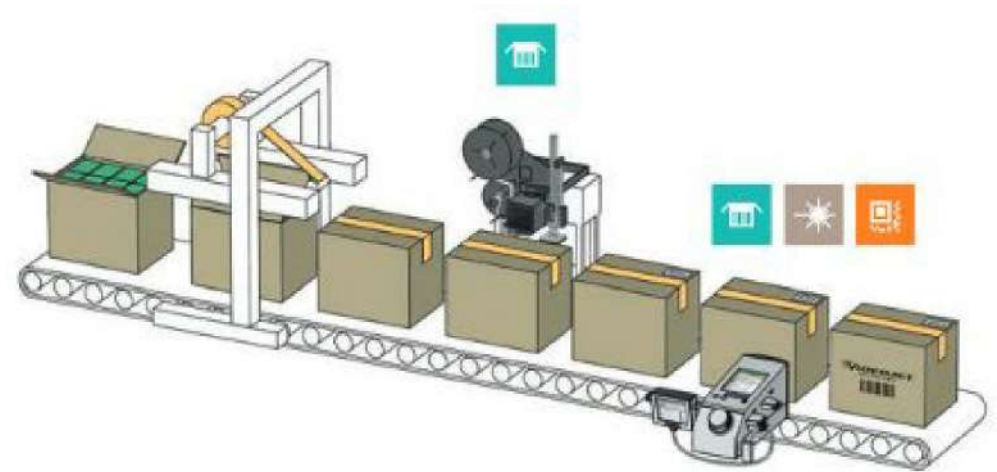




## Cartoner

Most Printing options can work with this application and can be integrated directly into the machine, or positioned immediately downstream on the side of the outfeed.

\*The size of the constraints, the cartoner, and the preferred coding technology will determine the placement of our printers.



## Case Packer & Sealer

Case printers are best to be placed after the case sealer on the conveyor.

The type and the amount of information needed to be printed on your cases will determine the kinds of and the ideal coding solutions for your product.

# Our Competitive Advantage



## 01. Experienced Market Leaders

---

Our twenty-plus years of experience sets us apart from other competitors.

Markindo has been one of the largest and most experienced Industrial Solutions in Indonesia since 1997. And since the beginning, we pledge to become the strongest backbone for the nation's industry players by providing the vastest range of manufacturing solutions.

## 02. Stand-Alone Manufacturing Facilities

---

Quality is controlled, every step of the way.

We independently build our custom-made solutions, brackets, and frames in our In-House Manufacturing Facility, free from the restrictions and limitations of external subcontractors (outsourcing).

## 03. Nation-Wide Scope with 300+ Engineers

---

The core of our impeccable selling points is the care and dedication shown by our 300+ engineers and our commitment to provide accessible coverage.

Markindo's Nationwide Coverage is spread between 7 Branches and Hubs, whereas others only have one or two branches Nationwide.

## 04. International Collaboration with Market Innovators

---

Gain better and greater production values with countless solution options and access to the latest manufacturing technology.

Markindo is partnering with Industrial Engineering Companies in America and Europe, as well as with Asia's finest solution manufacturers.



# Our In-House Manufacturing Facility, Markindo Manufacturing Works

## Markindo Manufacturing - Cikarang

From its expertise in fabricating first-rate brackets and conveyors to its world-class manufacturing machines, Markindo Manufacturing Center remains our main Point of Difference.

- Well equipped with Lathing, Milling, complete (fully automated) CNC, and professional technicians.
- Solutions and custom parts are composed and made In-House.
- Parts are rigorously tested through QC and QA to meet the industry's standards.





# Our Commitment to Quality Efficient Uptime (SLA)

## **Serviced Routine Maintenance**

Our technicians will survey clients' plants, perform clients' bi-weekly/monthly service routines, and work closely with them to ensure that we deliver the most satisfactory service they need for their business.

## **On-Demand Maintenance**

We understand that unexpected things happen, and things may break without a moment's notice. Our Service Team is available 24/7, 365 days a year, to deal with any occurring problems that clients may face.

Guaranteed response time of 1 x 24 Hours.



# Our Commitment to Quality Efficient Uptime (SLA)

## Manned Site Maintenance

- Our Technical Service Team can be placed in-site to help manage, operate, and ensure that Site Operations remain running smoothly
- Remove the need to onboard or train your team and have us manage your plant instead
- This option is popularly used and trusted by many of our Multinational customers.

## Solution Maintenance and Service

Our Special Projects team will ensure all solutions, operating at Customers' plants, stay and continue running and developing. As well as make sure that they hold up and maintain features as requested.

# National Reach, Branches



## **JAKARTA - HEAD OFFICE**

Graha Arteri Mas II  
Jl. Panjang No.68 Kav 6, Kedoya Selatan  
Jakarta Barat 11520  
Telp : (021) 58302664-65  
Fax : (021) 58392667  
Email : sales@markindo.co.id

## **MEDAN**

Komplek Citraland Gama  
City Jl. Boulevard Barat Raya  
Blok R1 No.8, Medan  
Telp : (061) 73381838  
Fax : (061) 73381338

## **BANDUNG**

Jl. Sumber Hegar I  
Kav. 9-4 No.8 Pasir Koja  
Bandung 40222  
Telp : (022) 6016220  
Fax : (022) 6016220

## **CIKARANG**

Jl. Industri Selatan IV Blok  
EE-11 No.N-0, K I Jababeka II  
Cikarang 17530  
Telp : (021) 89842816-19  
Fax : (021) 89842817

## **SEMARANG**

Jl. Muradi Raya No.60  
Semarang 50145  
Telp : (024) 7606059  
Fax : (024) 7609270

## **SURABAYA**

Jl. Jemursari Utara V no.16  
Surabaya 60237  
Telp : (031) 5037877  
Fax : (031) 5054566

## **MAKASSAR**

Jl. Kapasa Raya, Blok F1 No.8  
Komplek Daya Modern  
Makassar 90241  
Telp : (0411) 8947006  
Fax : (0411) 8947006