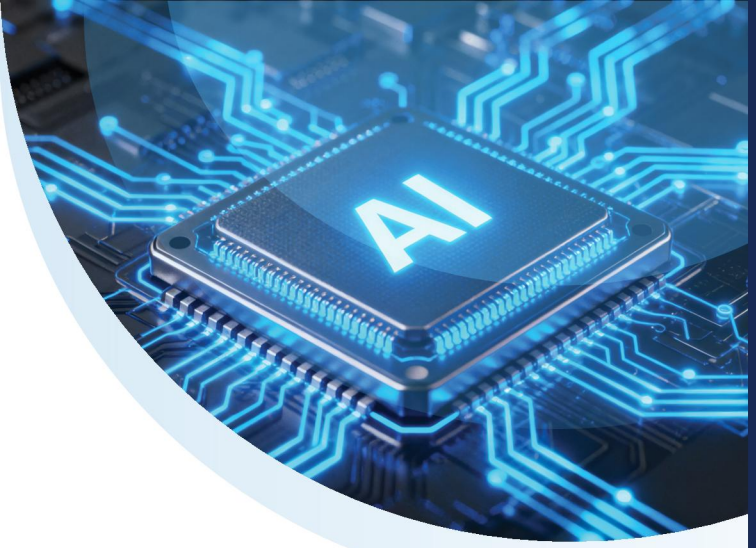


About LANSING BUSINESS SYSTEMS

Founded in 2010, **Lansing Business Systems (LBS)** is an IT consulting and technology solutions provider specializing in **Software Development, AI & Robotics, and IT Staffing.**

With over **400 IT professionals**, we deliver innovative technology solutions backed by expertise in software engineering, AI, robotics, IT infrastructure, and solution architecture.

We serve clients across Thailand, with strong experience in the **Healthcare and Financial sectors**, supported by our commitment to quality and information security through **ISO 9001 and ISO/IEC 27001 certifications.**

Lansing Business Systems is an investee company of Bangkok Dusit Medical Services Public Company Limited (BDMS).

LBS Lansing Business Systems | BDMS Bangkok Dusit Medical Services | CERTIFIED ISO 9001 ISO 14001 ISO 27001

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LBS Lansing Business Systems

LANSING ROBOTICS & ARTIFICIAL INTELLIGENCE

Produced by **Lansing Business Systems**
AI and Robotics Research Group



DINOs

Automatic Pill Dispensing Robot

Our **Automatic Pill Dispensing Robot** is designed to automate the inpatient (IPD) medication dispensing process, accurately preparing prescribed medications into individual sachets for each meal.

Powered by advanced robotics and AI technologies, the system streamlines the entire pill dispensing workflow, minimizes human error, and ensures high levels of accuracy, efficiency, and reliability.

Key Features & Capabilities

- **Customizable Machine Design:** Machine dimensions can be customized to fit the hospital's existing pharmacy workspace.
- **High Medication Capacity:** Supports more than 88 types of pills, with the capacity to expand according to hospital requirements.
- **Large Storage Capacity:** Each pill slot can store up to 300 pills of the same type.
- **Manual Dispensing Slots:** Equipped with 30–60 manual slots for irregularly shaped, sticky, or unsupported medications.
- **Smart Warning System:** Visual warning lights alert operators when medication trays are placed in incorrect slots.
- **Multi-Pill Sachet Packaging:** Supports up to 13 pills per sachet.
- **Multiple Sachet Types:** Supports up to four different sachet types.
- **Bilingual Label Printing:** Prints medication labels in both Thai and English.
- **Flexible Sachet Compatibility:** Supports custom sachets, not limited to the standard sachets supplied with the machine.
- **AI-Powered Verification:** Built-in AI cameras inspect and verify the accuracy of the pill dispensing process.
- **Mobile Application:** Operates through an Android/iOS application compatible with tablets.
- **Remote Monitoring:** Enables remote machine monitoring via an internet connection.
- **HIS Integration:** Supports integration with Hospital Information Systems (HIS), including TrakCare HIS, through our experienced HIS integration team.

LANSING
ROBOTICS & ARTIFICIAL INTELLIGENCE

AI is the brain; Robotics is the arms and legs. We have the expertise to develop both.

Artificial Intelligence (AI)

We develop customized AI models and image-processing solutions for business applications, including pill recognition, image recognition, face detection, and text processing.
Our team of PhDs and PhD candidates specializes in Machine Learning, Wolfram Mathematica, and Google Vision.

Robotics & Automation

We design and develop customized robots and automation systems with specialized movements, sensor integration, and IoT capabilities. Using 3D printing, mechanical design, and various sensors, we tailor solutions to meet specific business requirements.

Our Innovation in Action

Our **Automatic Pill Dispensing Robot** demonstrates our combined expertise in AI and Robotics, transforming advanced technology into practical healthcare solutions.





mini DINOs

Pill Filling and Counting Robot

Our **Pill Filling and Counting Robot** automates pill counting and bottle filling, reducing pharmacists' workload while ensuring fast, accurate, and reliable dispensing through advanced robotics, AI, and precision sensors.

Key Features & Capabilities

- **Capsule Compatibility:** Supports sizes 0, 1, and 4, with customization for other sizes.
- **Barcode Verification:** Matches prescription and bottle barcodes to ensure correct medication dispensing.
- **Smart Operation:** Pause/Resume functions and intelligent alerts.
- **AI Accuracy:** AI-Powered image recognition and precision sensors verify pills during dispensing.
- **Real-Time Alerts:** Instant notifications of system errors or abnormalities.
- **Remote Control:** Mobile application for remote monitoring and operation.
- **HIS Integration:** Seamless integration with TrakCare HIS and other Hospital Information Systems.



