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Instern Co., Ltd.

Headquarter

18, Sansho-daero 45-gil, Sandong-eup, Gumi-si, Gyeongsangbuk-do, Korea

Asan Factory

441, Asan Valley-ro, Eumbong-myeon, Asan-si, Chungcheongnam-do, Korea

Website

<http://www.instern.co.kr>

CONTENTS

01 Company Overview

2-7

Company Introduction

Company History

Organization Structure

Key Certifications & Patents

02 Our Business

8-14

Main Products

Performance Highlights



01

Company Overview

2-7

Company Introduction

Company History

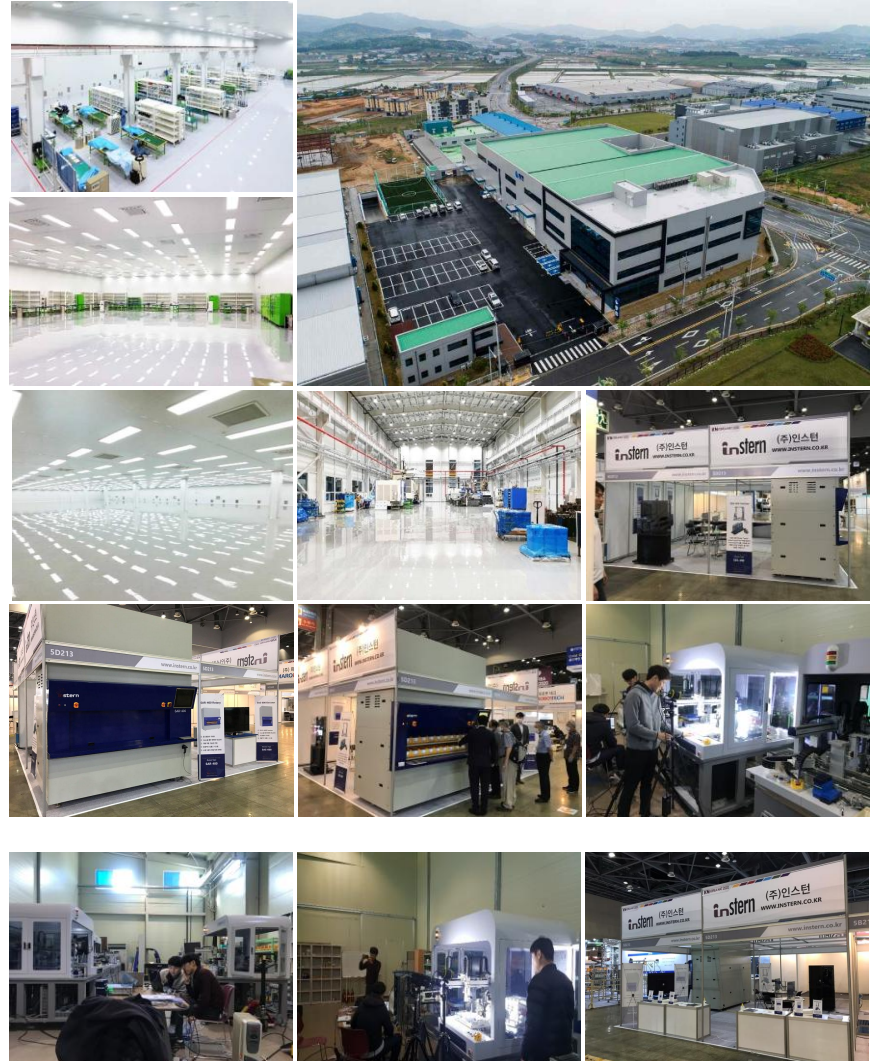
Organization Structure

Key Certifications & Patents



COMPANY INTRODUCTION

Company Name	Instern Co., Ltd.
C E O	Yeonhi Kuk
Established	January 4, 2010
Headquarters	18, Sansho-daero 45-gil, Sandong-eup, Gumi-si, Gyeongsangbuk-do, Korea
Asan Factory	441, Asan Valley-ro, Eumbong-myeon, Asan-si, Chungcheongnam-do, Korea
Capital	1.17 Million USD (as of February 2025)
Employee	Total : 20 employees
Main Prouducts	Smart Automatic Storage, Micro Drill Bit Grinder/Cleaning Equipment, Display Process Equipment, Secondary Battery Modul-Pack Lines
Business Fields	Development and Manufacturing of automatic processing Display and Semiconductor process equipment Secondary Battery Modul-Pack ProceUnit Micro Drill Bit Grinder, Cleaning Equipment R&D and Installation of Smart Factory Systems Smart Automatic Storage Stacker Crane, Conveyors
Business Scale	Headquarters : R&D Lab 99m ² , Factory 826m ² Asan Factory : Land Area 14,760m ² Total Building Area 19,436m ² Cleanroom Ground 1,818m ² (Ceiling Height : 8.5m) 2nd Floor 2,479m ² (Ceiling Height : 4.5m) working Area Ground 1,488m ² ,992m ² 2nd Floor 992m ² Multiple Freight Elevators and Hoists



LEVERAGING EXPERTISE IN MICRON-LEVEL PRECISION PROCESSES
AND EXTENSIVE EXPERIENCE IN PRODUCTION PROCESS DEVELOPMENT
TO GROW AS A SPECIALIZED SMART AUTOMATION COMPANY.

Foundation 2010 ~ 2014

Growth 2015 ~ 2020

TakeOff 2021~2024

Expansion 2025~

- 2010** • Established Instern Co., Ltd.
- 2011** • Founded Corporate R&D Center
- 2013** • Certified as a Management-Innovation SME (MAIN-BIZ)
• Certified as a Technology-Innovation SME (INNO-BIZ)
• Received Minister of Trade, Industry and Energy Award
- 2014** • Received KIPO Commissioner Award
• Received KICOX Chairman Award
• Obtained Certificate of ISO-9001
• Obtained Certificate of ISO-14001
• Obtained Patent of Method and Apparatus for Determining Quality of Reprocessed Drill Based on Image
• Designated as a Promising Export SME

Development and Manufacturing of Display Inspection and Process Equipment

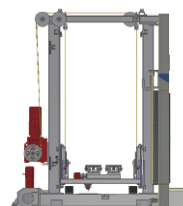
- 2015** • Designated as an Excellent Job-Creation Company
• Obtained Patent of Home network system and signal learning method thereof
• Designated as a Global IP Star Company
• Obtained Certificate of New Excellent Technology(NET)
• Received commendation Award
• From the Chairman of the Regional Development Committee
- 2016** • Renewed as a Venture Business
- 2017** • Received Business Model Best Practice Award
- 2018** • Designated as a Best Practice in the New Growth Engine Technology Commercialization Support Project
- 2019** • Certificated Clean Workplace Project
- 2020** • Obtained Industrial Property Rights Certification
• Obtained Family-Friendly Company Certification
• Obtained Patent of Rotary Type Automatic Warehouse Using Load Support Guide

- Focus on IP Research and Developmnet

- 2021** • Re-Designated as a Venture Business
• Obtained Safety Self-Assurance Mark
• Obtained Patent of Automatic Loading Warehouse Interlocking Manufacturing Execution System
• Obtained Patent of Deep Learning-based Smart Automatic Logistics Warehousing System Linked to User Terminals
• Renewed Certificate of ISO-9001
• Renewed Certificate of ISO-14001
- 2022** • Member of Gumi Industrial Research Association
• Confirmed as a Specialized Material, Component, and Equipment Company
• Acquired CE Certification
• Design Registration - Smart Automatic Storage
- 2023** • Obtained patent of Smart Warehouse for maximizing space utilization
• Obtained Patent of Smart Automatic Warehouse to Lift Loading and Unloading High Heavy Goods
• Applied for Patent on Lift Structure for Automated Warehouses
• Obtained patent of Tray Pickup Structure for Smart Automatic Warehouse
- 2024** • Applied for Patent on High-Speed Retrieval Lift for Automated Warehouses

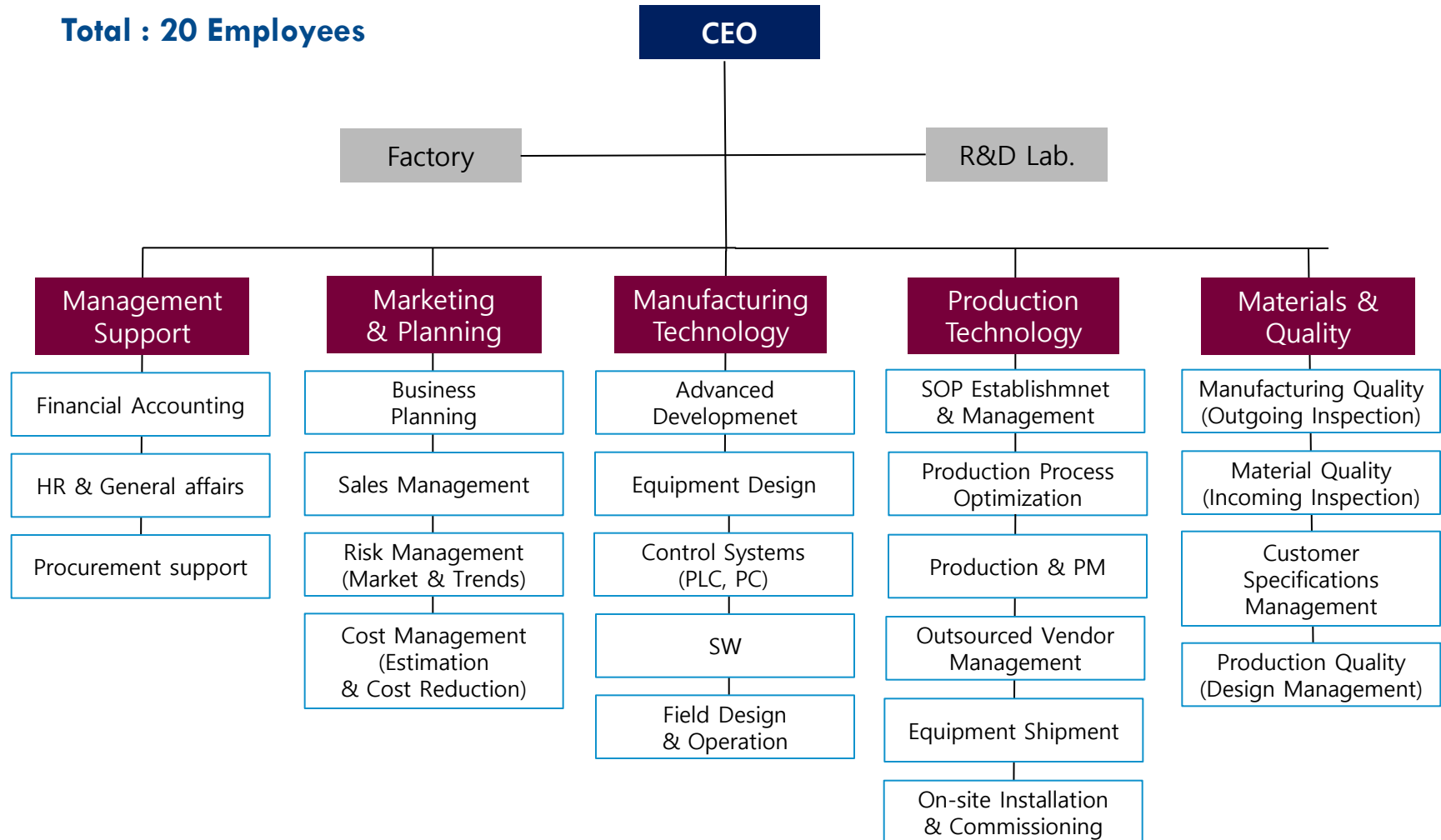
- 2025** • Sales Target : \$10 Million
• Completion of MBS Development and Securing Large Global Clients
• Development of AI Facility Management Module
- 2026** • Achieved \$24 Million in Sales
• Market Expansion through MBS Development and Advancement
• Enhancement of Smart Factory-Oriented Automated Warehousing and In-Line Integration
- 2027** • Sales Target: \$55 Million
• Preliminary Review for KOSDAQ Listing
• Establishment of Subsidiaries in Europe and the U.S.
- 2028** • Sales Target: \$76 Million
• KOSDAQ Listing

- Advancing Smart Factory Logistics Systems through the Enhancement of Smart Automated Warehousing Development and Commercialization of Large-Scale Logistics Systems Based on Smart Automated Warehousing

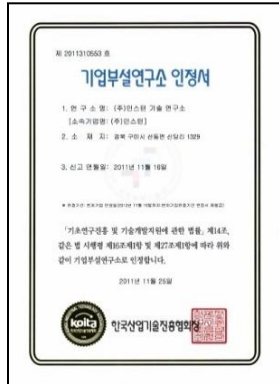


A SYSTEMATIC ORGANIZATION WITH EXTENSIVE ACCUMULATED EXPERTISE

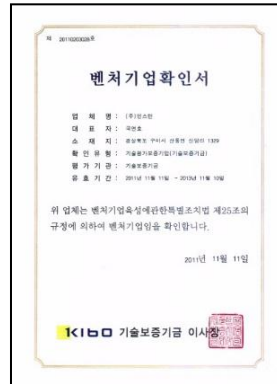
Total : 20 Employees



ETHICAL MANAGEMENT THROUGH SYSTEMATIC OPERATIONS AND CONTINUOUS RESEARCH FOR NEW TECHNOLOGY DEVELOPMENT, WITH CONSIDERATION FOR QUALITY AND ENVIRONMENT.



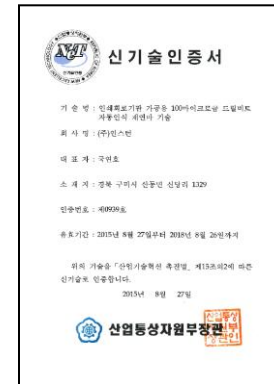
Corporate
R&D Accreditation



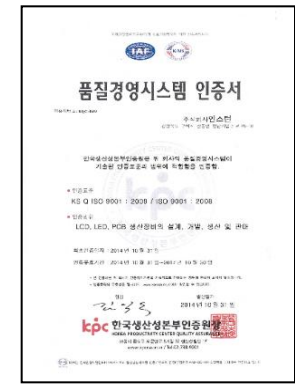
Venture Business



MAIN-BIZ
(Management)



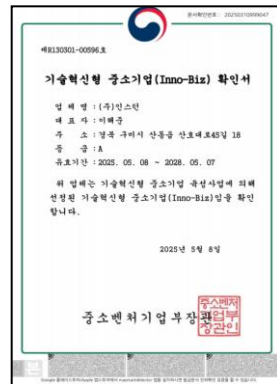
New Excellent Technology



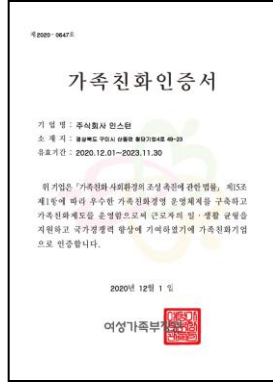
Quality Management System
(ISO 9001)



Promising Export



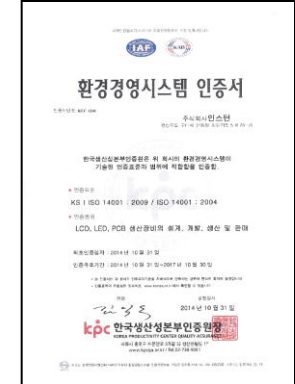
INNO-BIZ
(Technology)



Family-Friendly
Company



CE Certification



Environment Management System
(ISO 14001)

NUMEROUS PATENT APPLICATIONS AND REGISTRATION THROUGH CONTINUOUS R&D

**PATENT
11**

**APPLICATION
10**

Registration No.

Title

10-1426385

Method and apparatus for determining quality of reprocessed drill based on image

10-1884216

Home network system and signal learning method thereof

10-2080555

Automatic warehouse with adjustable the storage position according to the height of luggage

10-2168939

Stacker type automatic warehouse system driven by control application

10-2283530

Contact lens automatic packaging system

10-2424281

Rotary type automatic warehouse with chain support rollers

10-2441356

Rotary type automatic warehouse using load support guide

10-2425156

Automatic loading warehouse interlocking manufacturing execution system

10-2685300

Deep learning-based smart automatic logistics warehousing system linked to user terminals

10-2713130

Elevator type Automatic Storage

30-1206601

Design Registration - Smart Automatic Storage

02

Our Business

8-14

Main Products

Key Achievements



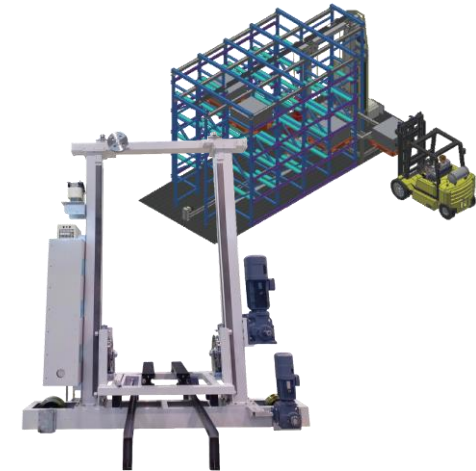
Smart Automatic Warehouse



SAS- Elevator Type



SAR- Rotary Type



SSS- Stocker Type

Features

- Increased storage capacity through space minimization
- Accurate inventory management using the Vision system
- Workplace safety system
- Efficient material inflow-outflow management
- Easy operation and high visibility

Key Advantage

- Customization for individual clients
- S/W integration with MES and ERP for management efficiency
- Optimized warehouse system
- Various function options adaptable to different environment
- Intuitive operation and modularization for enhanced management efficiency

Mirco Drill Bit Re-grinder



〈 Before 〉

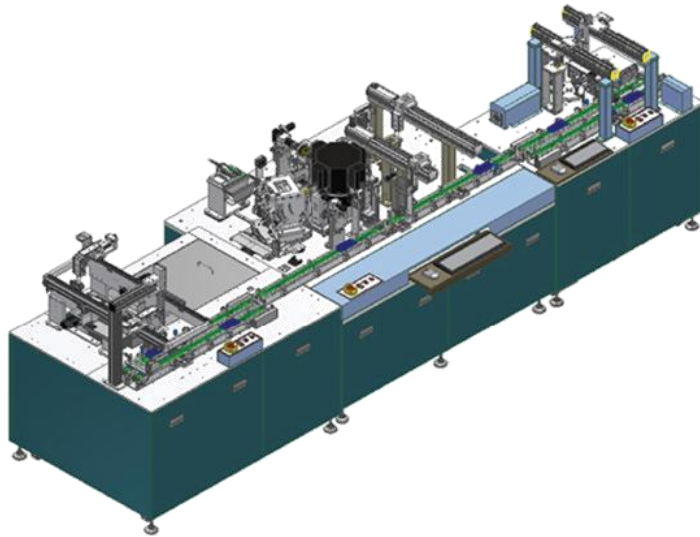


〈 After 〉

Features

- Equipment for re-grinding micro drill bits used in PCB and semiconductor manufacturing processes.
- Real-time monitoring via internet connectivity, applying control technology to evaluate equipment conditions and provide prompt maintenance support.
- Reduced tact time with transfer robots, robot hands, and automatic cutting point detection.
- Ensures higher yields by precisely controlling machining parameters through fuzzy control and a proportional controller.

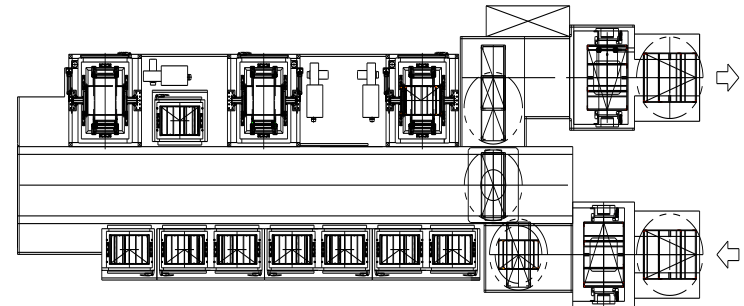
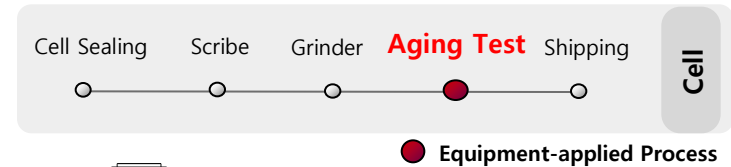
Mirco Drill Bits In-Line System



Features

- An integrated In-line system that combines cleaning, polishing, and ring-setting processes for micro drill bits. The system is capable of automatic polishing, inspection, cleaning and ring-setting based on diverse user requirements.
- Fully automated operation of the micro drill bits re-polishing process.
- Efficient cycle management with sequential re-grinding by drill bits length

M.A.S (Multi Aging System)



Features

The M.A.S (Multi Aging System) is designed for the aging process of completed OLED panels from the cell process within a Multi-Chamber environment. It disperses irregular liquid crystals to enhance panel quality, providing precise uniformity and temperature control adjustable to specific user requirements.

No.	Equipment Name	Delivery Date	Qty	Client Name	Remarks
1	Micro Drill Bit Re-grinder	2011. 05	1	Zaiatek	
2	Micro Drill Bit Ring Setter	2012. 04	1	KCC	
3	Leak & Temperature Tester	2012. 06	1	KELIM CERAMICS	
4	Micro Drill Bit Polisher	2012. 11	1	KCC	
5	Micro Drill Bit Re-grinder	2013. 05	2	BandoTech	
6	Micro Drill Bit Re-grinder	2013. 05	3	Unitech	
7	Micro Drill Bit Polisher	2013. 05	1	Unitech	
8	Micro Drill Bit Ring Setter	2013. 05	1	Unitech	
9	Micro Drill Bit Re-grinder	2014. 08	1	HUINS	
10	Automated Faucet Production Line	2014. 08	1	KELIM CERAMICS	
11	Micro Drill Bit Re-grinder	2014. 11	15	Tripod	
12	Bidet Line Loading Machine	2015. 06	1	KELIM CERAMICS	
13	Nano Coating Machine	2017. 01	1	Timetech	
14	Molding Machine Transfer Conveyor	2018. 10	1	KELIM CERAMICS	
15	Toilet Inspection Line Loader	2018. 12	1	KELIM CERAMICS	
16	WET Vision Automated Inspection & Bonding	2019. 01	1	SHINJIN Mtec Co. Ltd	
17	Screw Tightening Machine	2019. 04	1	KELIM CERAMICS	
18	Glass Cleaner Conveyor System	2019. 06	1	DEVICEENG Co. Ltd.	

No	Equipment Name	Delivery Date	Qty	Client Name	Remarks
19	High Frequency Ultrasonic Bonding Machine	2019. 06	1	FOSYS	
20	Injection Line Leader	2019. 09	1	KELIM CERAMICS	
21	High Frequency Ultrasonic Bonding Machine for Card Sheets	2019. 12	1	KELIM CERAMICS	
22	X,Z-Axis Automated Glaze Spraying Machine	2020. 03	1	KELIM CERAMICS	
23	Chip Mounter	2020. 03	1	FOSYS	
24	Rotary Type Automatic Warehouse	2021. 07	1	NATIONAL 119 RESCUE HEADQUARTERS	
25	Rotary Type Automatic Warehouse	2021. 10	2	Junghwa Engineering	
26	Rotary Type Automatic Warehouse	2021. 12	1	KAI	
27	Rotary Type Automatic Warehouse	2021. 12	1	RNC	
28	Rotary Type Automatic Warehouse	2022. 08	1	YOUNG JIN HI-TECH	
29	Rubber Track Separation System	2023. 07	1	JUNGDO INDUSTRY	
30	Medical Tape Rolling System	2023. 09	5	SeoHwan Co. Ltd.	
31	Stocker type automatic warehouse	2023. 12	1	GYEONGBUK RESEARCH INSTITUTE OF VEHICLE EMBEDDED TECHNOLOGY	
32	Fill Valve Leak Tester	2024. 02	1	KELIM CERAMICS	
33	Fire Prevention Capsule Automatic Insertion Unit	2024. 04	8	WOOSHIN SYSTEMS CO., LTD.	
34	Fill Valve Leak Tester	2025. 01	1	KELIM CERAMICS	
35	Feeding Conveyor	2025. 02	1	TCL	



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