



TAESUNG SYSTEM

Total Solution Provider
Compact Sortation & Factory Automation



Taesung System strives to achieve innovation in the field of logistics and factory automation with a passionate pioneering spirit.

The systems we provide guarantee world-class quality. Our efficient and accurate systems enable our customers to achieve higher efficiency and do more with fewer people.



HISTORY

Taesung System provides innovative and compact sorting solutions and factory automation solutions to customers around the world, which is the culmination of our dedication, research and development on sorting system technology.



- **Foundation**
- **Developed a wheel-sorting control system**
- **Supplied a wheel-sorting system to TNT Express Singapore**
- **FedEx Korea Incheon International**

Supplied of Wheel Sorter System(Export)

- LAZADA Express : Malaysia, Ho Chi Minh in Vietnam(2nd site), Hanoi in Vietnam, Indonesia, Vietnam Terminal
- Eagle Foods(America)
- Roadbull(Singapore)
- SF Express(Singapore)
- QEXPRESS(Qoo10, Singapore)

Wheel Sorter Supply

- KT&G Sintanjin Factory
- GS Retail Gimpo Logistics Center
- GS Home Shopping Gunpo Terminal

Wheel Sorter Supply(Export)

- LAZADA Express : Indonesia GORO Terminal, Marunda Terminal

Thailand, French e-commerce customers

Supplied of High-Speed Wheel Sorter Control System

- CJ Logistics : Bang Na Hub Terminal, Thailand KL Hub Terminal, Malaysia

Supplied a high-speed wheel sorter/ Conveyor lines(turnkey)

- CJ Logistics : Incheon, Paju, Gwangju in Gyeonggi, Suseong in Daegu, Bupyeong, Gimpo, Daejeon, Yeosu
- Coupang : Yongin FC1, Yangji FC3

Supplied a high-speed wheel sorter/ Conveyor lines(turnkey)

- Coupang : Changwon FC4, Daegu FC6, Gwangju FC4, Namyangju Camp, Gwangju FC3, Daegu FC3, Incheon FC18, Incheon FC4, Yangju Camp, Siheung Camp, Ilsan Camp, Incheon Camp etc.
- Blue Express : Exported 7 lines (turnkey) to Chile
- CJ Logistics : Seogu Sub

Wheel Sorter Supply

- Mirae WellLife, Passto yong-in, Coupang
- Majang FC1, Mesh Korea

Wheel Sorter Supply(Export)

- French E-Commerce, Singapore, IKEA Slovak Center, Tunisia, Philippines

Supply Of Tilt Tray Sorter System(Turnkey)

- SSG : Icheon EFC, Pyeongtaek EFC and Manchon EFC

Supplied a High-speed wheel sorter / Conveyor lines(turnkey)

- Coupang : KKW3, KKW5, CHW3, DAE2, INC16, INC23, SE1, PYT4, GWJ2, CHA2, INC7, SPA3,4, USN1, BSN5, DJN3, ISN5, JJU1, JEJ1, AYG1, BSN2, SPA1
- CJ Logistics : GIMPO MP
- Lotte Global logis : Sokcho Delivery Center
- Logen : Incheon, Bucheon Terminal

Wheel Sorter Supply

- Donwon Home Food, Ottogi

Wheel Sorter(Export)

- Norway, UK, Romania

Tilt Tray Sorter Line Supply(turnkey)

- Coupang : NYJ4 Camp

Attend Amsterdam Parcel & Post Expo 2023

Compact Sorting Solution

Smart Factory Total Solution

2011-2015 2016-2017 2018 2019-2020 2021-2022 2023-2024

Company Established

- Certified as a venture company
- Certified with ISO 9001/2008
- For Chosun Refractories
- Developed an automated X-RAY inspection system

MES-based factory automation control - Developed a monitoring system

- Machine vision for small-lots of various products - Developed an automated inspection system

Received an Outstanding Small and Medium Business Award from the Busan Chamber of Commerce & Industry

- Received Busan Mayor's Award for Excellent IP Innovation

Received a Young Entrepreneur Award from the Minister of Education

Exported products to Indonesia

- Received a commendation from the Minister of Commerce, Industry and Energy for technology innovation

Supplied the AGV control systems(ACS) to Samsung Electro-Mechanics and LG Electronics

- Developed an IOT-based intelligent AGV and an AGV control system for Ministry of Trade, Industry and Energy

Developed an image recognition-based shipbuilding and marine process management system for the Ministry of Science and ICT

- Delivered a thickness gauge to the POSCO Magnesium Smelting Plant

Acquired the Innobiz certification as a SME technology innovator

- Relocated the head office to a larger facility with a factory size of 3,874 m2

Received an order for the development of robots and automatic loading systems for IP phone manufacturing automation

- Exhibited AGV as a representative company in the Korean Joint Booth at the Automatica exhibition in Germany

Exported 1 AGV Descartes to company C in China and signed an MOU for technology development

- Exported 5 AGV Onestar-M to Hwaseung Vina in Vietnam

Established an automated production facility for the KEPCO modem business of Nuri Telecom

- Manufactured and installed an automatic packaging system. Automated a high-strength PRJ welding system for Korea Gangsun
- Built a smart factory, and a robot system for standard process manufacturing in Jisa-dong for Busan Techno Park
- Established an unmanned automated grain packaging facility using robots for Daegu Agriculture
- Awarded the Prime Minister's Commendation for contributing to venture start-up and growth

Supplied an automatic casing assembly line for the Fursys Smart Factory Expansion Project

- Delivered 20 AMRs to LG Innotek's Gumi Plant 2
- Automated a lighthouse factory for Autonics

Certified as a Busan-type Hidden Tech Company

- Supplied an automatic CNC injection and discharge machine for Samsung Electronics Co.,Ltd.
- Received an order for an AMR control system for transporting samples and goods from GC Biopharma

TM Robot signing of an official partnership agreement

- EcoPro HN Order for S-PJT at Chopyeong 2 Campus

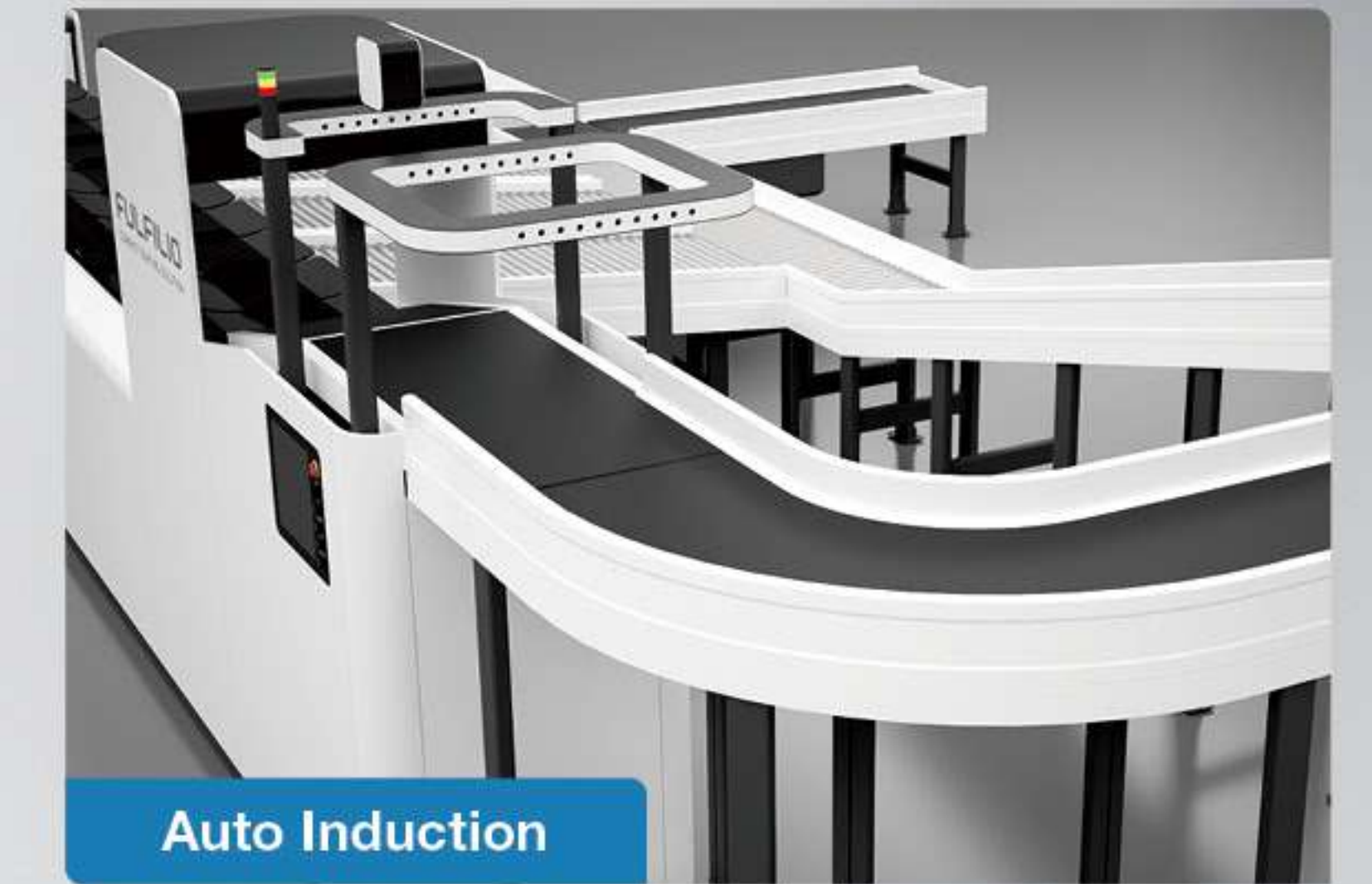
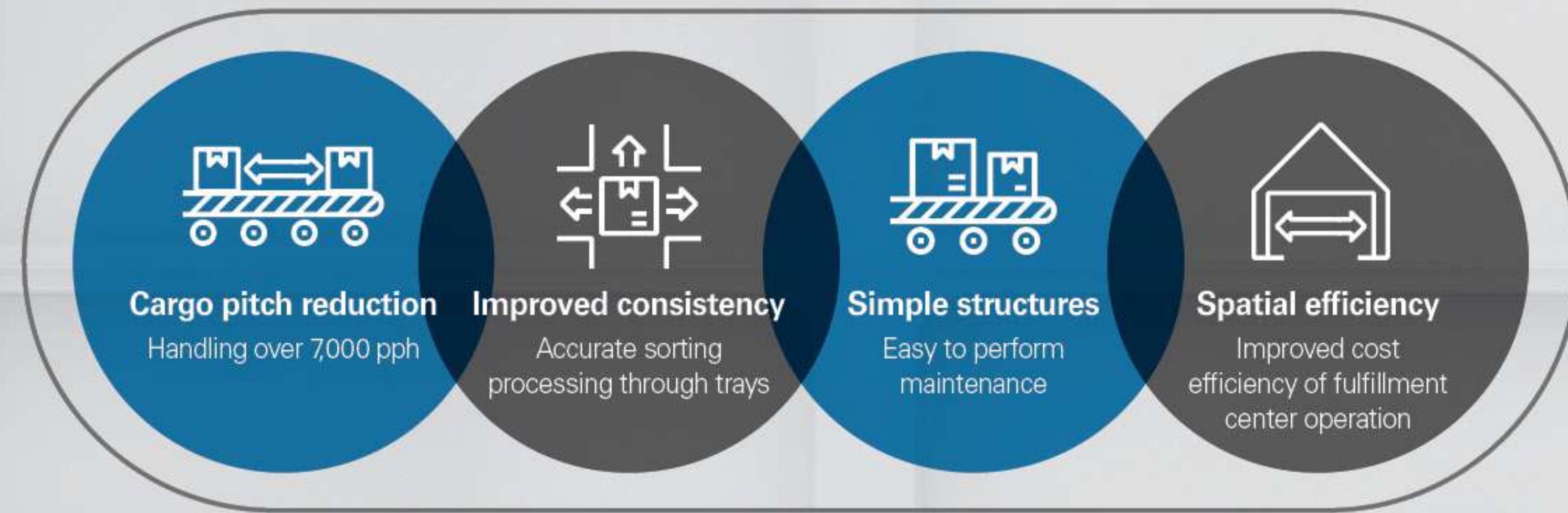


FULFILIO

Vertical Tilt Tray Sorter

FULFILIO SERIES

Fulfilio is excellently convenient to install and transport due to its module configuration and has a high spatial efficiency due to its vertical-type installation. It can also reduce introduction and maintenance costs via domestic manufacturing.



Wave Wheel Sorter

PIVOTLE SERIES

Small Wheel

90° 2 WAY Wheel Sorter

40° 2 WAY Wheel Sorter



Model		Pivotle 90S	Pivotle 40S
Cargo Specification for Handling (W x L x H)	Maximum	31.5 x 47.25 x 23.62in / 66.1lb	31.5 x 47.25 x 23.62in / 66.1lb
	Minimum	4.72 x 5.9 x 0.03in / 0.22lb	4.72 x 4.72 x 0.03in / 0.22lb
Wheel Roller Pitch(mm)		W 2.16 x L 2.75	W 2.16 x L 2.16
Discharging Angle		90°	40° ~ 60°
Cycle Time(sec)		≤ 0.263	≤ 0.174
Classification Direction		2-WAY	2-WAY
Speed		Max. 360ft / min	Max. 426ft / min
Processing Performance		Max. 5,000ea / h	Max. 7,000ea / h
Coating		Low-friction powder coating	Low-friction powder coating
Operating Temperature		-20°C ~ 45°C	-20°C ~ 45°C
E.g.		LAZADA EXPRESS Marunda, Phase2, Indonesia	Coupang FC, LAZADA EXPRESS Goro, Phase2, Indonesia

PIVOTLE SERIES

Wheel Sorter System

Intelligent sorting solution

- A configuration that combined general conveyors with wheel sorters
- Functions that enable diverting, switching, and merging of parcel left to right
- Minimization of parcel damages
- Synchronized diverting processing by detecting conveyor speed and parcel length

Applying the world's smallest wheel pitch

- Easy processing of small goods and polybags (vinyl-packaged items)
- Small and compact wheels can handle large, medium, and small items

Easy to expand, transport & maintain the system

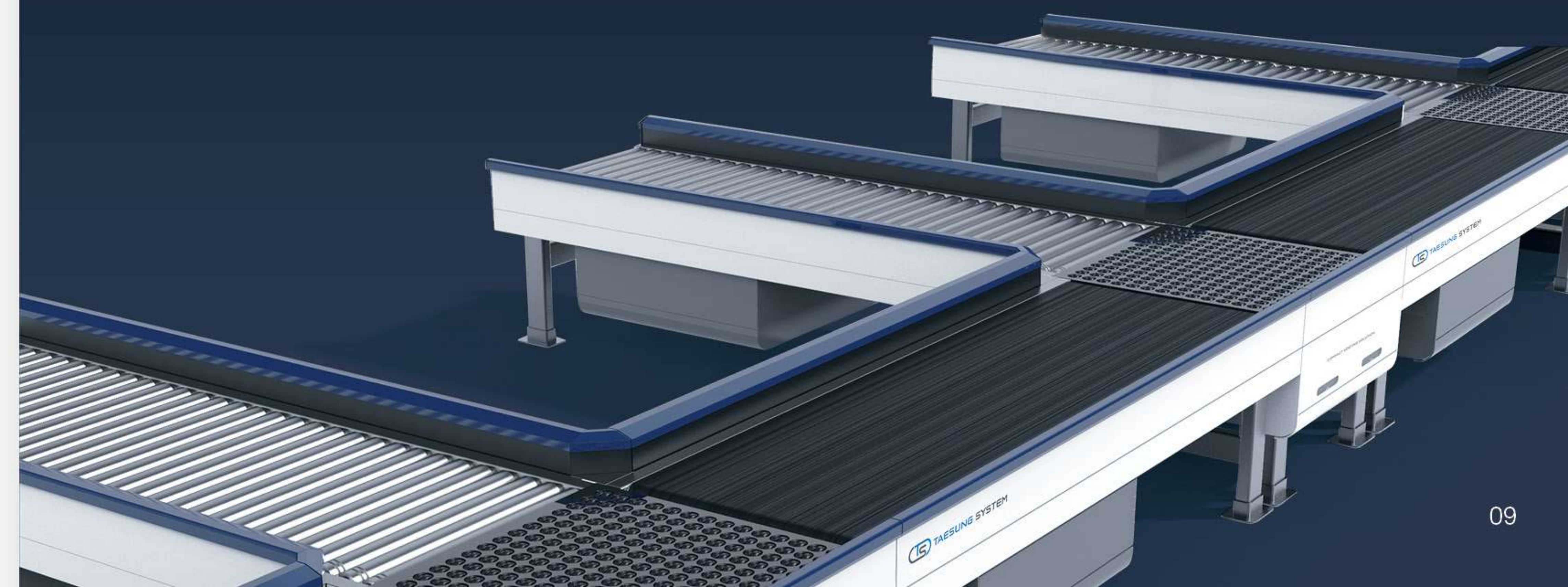
- Easy to expand and transport equipment with the module-type hardware and independent control device
- Easy hardware maintenance and replacement of major parts from the top

High level of quietness

- Minimized noise via o-ring belt operation (noise criteria: equal to or less than 70 dbA)

Simple layout configuration

- Minimized installation area
- The maximum number of chutes can be installed in the limited space



Wave Wheel Sorter

PIVOTLE SERIES

Small Wheel

90° 2 WAY Wheel Sorter



40° 2 WAY Wheel Sorter



90° 40° 4 WAY Wheel Sorter



90° 4 WAY Wheel Sorter



40° 6 WAY Wheel Sorter

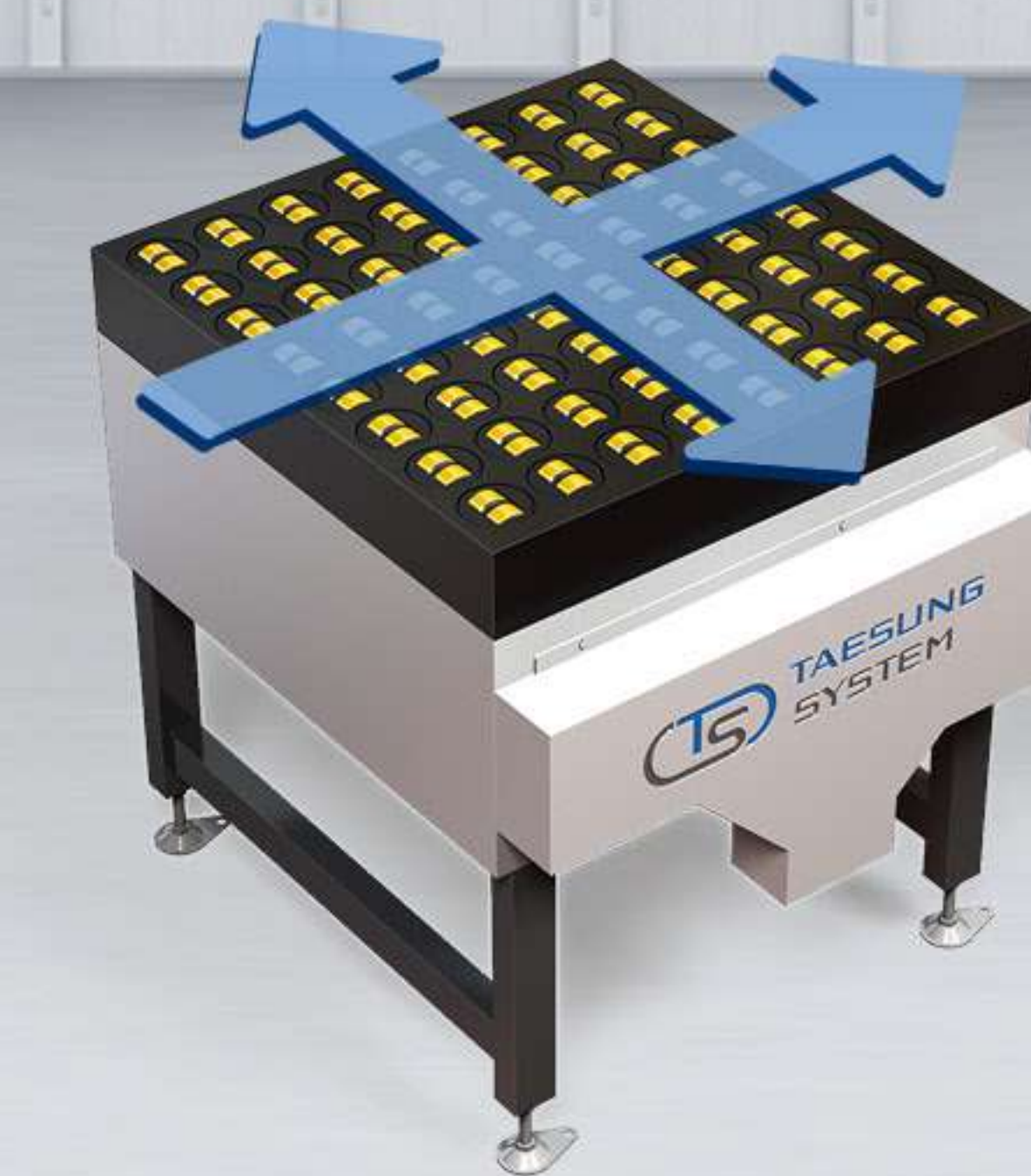


Electrical Wheel Sorter

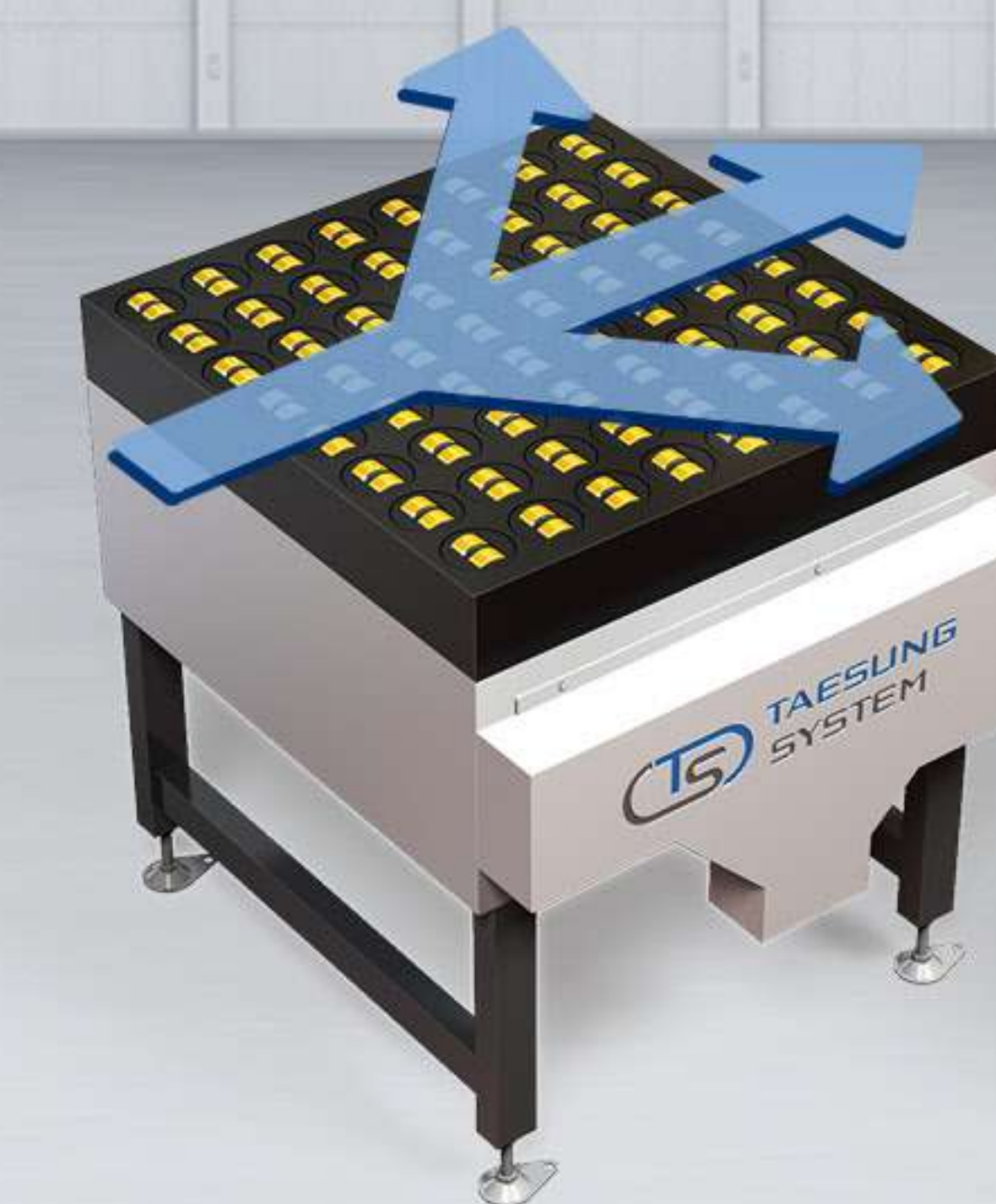
PIVOTLE SERIES

Large Wheel

90° 2 WAY Wheel Sorter



40° 2 WAY Wheel Sorter



90° 40° 4 WAY Wheel Sorter



Model	Pivotle 90S	Pivotle 40S
Cargo Specification for Handling (W x L x H)	Maximum	31.5 x 47.25 x 23.62in / 66.1lb
	Minimum	4.72 x 5.9 x 0.03in / 0.22lb
Wheel Roller Pitch(mm)	W 2.16 x L 2.75	W 2.16 x L 2.16
Discharging Angle	90°	40° ~ 60°
Cycle Time(sec)	≤ 0.263	≤ 0.174
Classification Direction	2-WAY	2-WAY
Speed	Max. 360ft / min	Max. 426ft / min
Processing Performance	Max. 5,000ea / h	Max. 7,000ea / h
Coating	Low-friction powder coating	Low-friction powder coating
Operating Temperature	-20°C ~ 45°C	-20°C ~ 45°C
E.g.	LAZADA EXPRESS Marunda, Phase2, Indonesia	Coupang FC, LAZADA EXPRESS Goro, Phase2, Indonesia

Model	Pivotle 9040S	Pivotle 90SMR	Pivotle 40SCV
Cargo Specification for Handling (W x L x H)	31.5 x 47.25 x 23.62in / 66.1lb	31.5 x 47.25 x 23.62in / 33lb	31.5 x 47.25 x 23.62in / 66.1lb
Wheel Roller Pitch(mm)	4.72 x 5.9 x 0.03in / 0.22lb	4.72 x 4.72 x 0.03in / 0.22lb	4.72 x 4.72 x 0.03in / 0.22lb
Discharging Angle	① ~ ② : 90° / ③ ~ ④ : 40°	90° Multi-Router	40° ~ 60°
Cycle Time(sec)	≤ 0.263	≤ 0.263	≤ 0.174
Classification Direction	4-WAY	4-WAY	6-WAY
Speed	Max.360ft / min	Max. 360ft / min	Max. 426ft / min
Processing Performance	Max. 5,000ea / h	Max. 5,000ea / h	Max. 7,000ea / h
Coating	Low-friction powder coating	Low-friction powder coating	Low-friction powder coating
Operating Temperature	-20°C ~ 45°C	-20°C ~ 45°C	-20°C ~ 45°C
E.g.	LAZADA EXPRESS Goro, Phase2, Indonesia	-	CJ Logistics Daejeon Hub, Yeonsu in Incheon MP, Jung-gu in Incheon MP, Seo-gu in Incheon MP, Paju MP, Gyeonggi Gwangju MP, Daegu Suseong MP

Model	Pivotle 90L	Pivotle 40L	Pivotle 9040L
Cargo Specification for Handling (W x L x H)	31.5 x 47.25 x 31.5in / 66.1lb	31.5 x 47.25 x 31.5in / 66.1lb	31.5 x 47.25 x 31.5in / 66.1lb
Wheel Roller Pitch(mm)	7.87 x 7.87 x 0.39in / 1.1lb	7.87 x 7.87 x 0.39in / 1.1lb	7.87 x 7.87 x 0.39in / 1.1lb
Discharging Angle	90°	40°	① ~ ② : 90° / ③ ~ ④ : 40° ~ 60°
Cycle Time(sec)	≤ 0.263	≤ 0.174	≤ 0.263
Classification Direction	4-WAY	2-WAY	2-WAY
Speed	Max.360ft / min	Max. 426ft / min	Max.360ft / min
Processing Performance	Max. 5,000ea / h	Max. 7,000ea / h	Max. 5,000ea / h
Coating	Low-friction powder coating	Low-friction powder coating	Low-friction powder coating
Operating Temperature	-20°C ~ 45°C	-20°C ~ 45°C	-20°C ~ 45°C
E.g.	KT&G Daejeon Factory, LAZADA EXPRESS in Thailand, GS Home Shopping Gunpo, Wonju Mail Center, Dongwon LOEX Yangsan	LAZADA EXPRESS in Hanoi, Ho Chi Minh, Malaysia, Indonesia PHASE1 & 2, Thailand, Hokusyo, GS Home Shopping Gunpo GS Retail Gimpo, Songpa, Wonju Mail Center	Roadbull, Qoo10, SF Express, Wonju Mail Center

SPING

Secondary Divider

Secondary Divider SPING SERIES

2 WAY Flap Sorter



Model		Sping 01	Sping 02	Sping 03
Cargo Specification for Handling (W x L x H)	Maximum	11.8 x 11.8 x 5.9in / 8.8lb	15.74 x 15.74 x 7.87in / 11lb	11.8 x 11.8 x 5.9in / 8.8lb
	Minimum	3.94 x 3.94 x 0.03in / 0.22lb	3.94 x 3.94 x 0.03in / 0.22lb	3.94 x 3.94 x 0.03in / 0.22lb
Classification Direction		2-WAY	2-WAY	2-WAY
Processing Performance		Max. 5,000ea / h	Max. 5,000ea / h	Max. 6,000ea / h
Coating		Low-friction powder coating	Low-friction powder coating	Low-friction powder coating
Operating Temperature		-20°C ~ 45°C	-20°C ~ 45°C	-20°C ~ 45°C

SMART FACTORY TOTAL SOLUTION

We supply the optimal technology-based automatic robot and logistics solutions that can provide a one-stop solution from consulting, design, manufacturing, delivery, commissioning to after-sales support.

R&D

- At the company-affiliated research institute (Robot Convergence Research Institute), our professional experts develop systematized and tailored technology
- Holding 20 smart factory related patents and 15 programs

Consulting

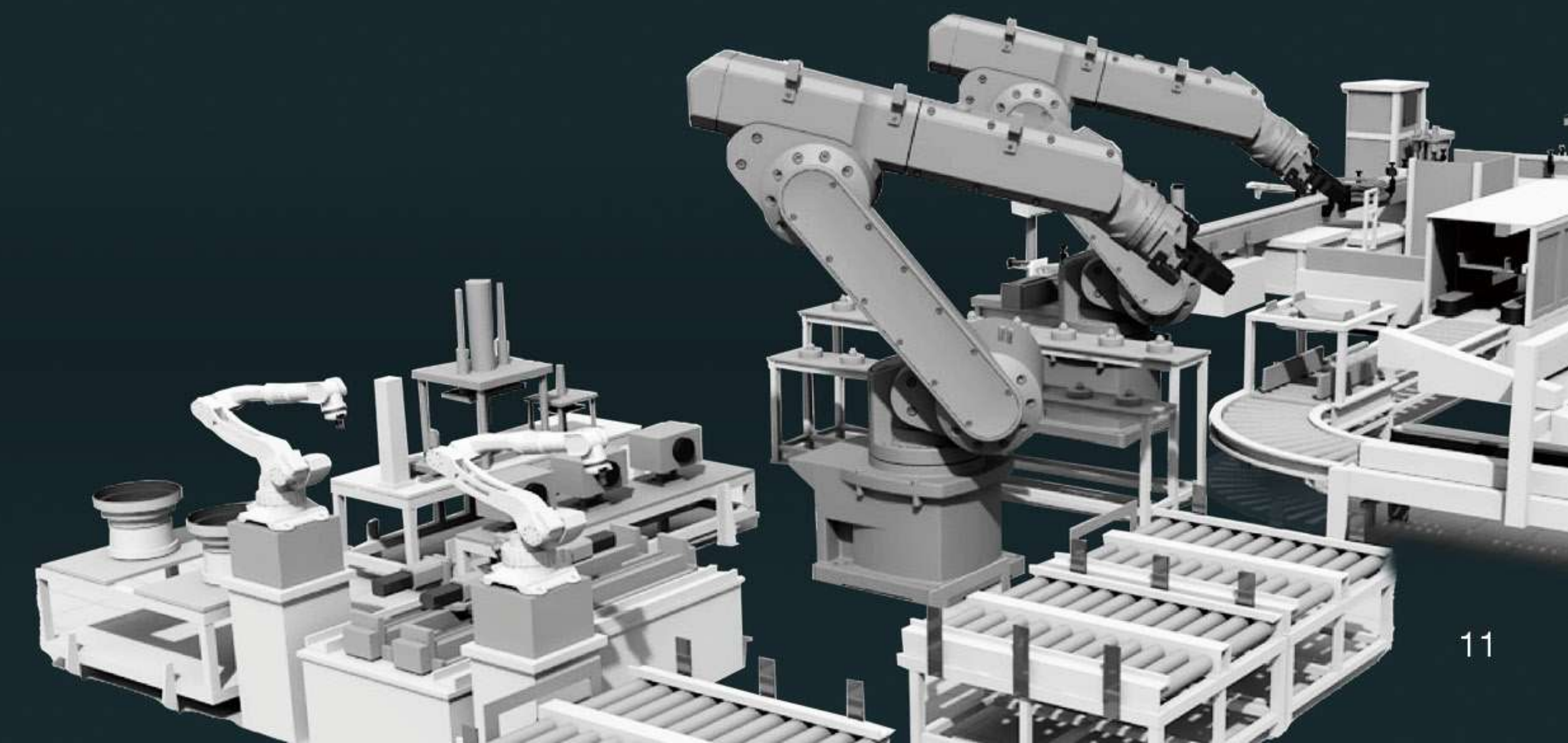
- Engineers with master's or doctoral degrees and at least 12 years of experience
- Automation consulting for optimization at the customer's site
- Simulation and consulting reports can be provided within 3 days

Design

- After analyzing the existing process based on a consultation a customized design is carried out
- About 40 smart factory projects completed directly without outsourcing. Keeping promises with our customers through systematic and thorough design by professional personnel

Production and Delivery

- Products are directly assembled and manufactured in a (3,967 m²) factory before delivery
- Customized installation for easy modification and change
- Performing on-site optimization until the customer is satisfied

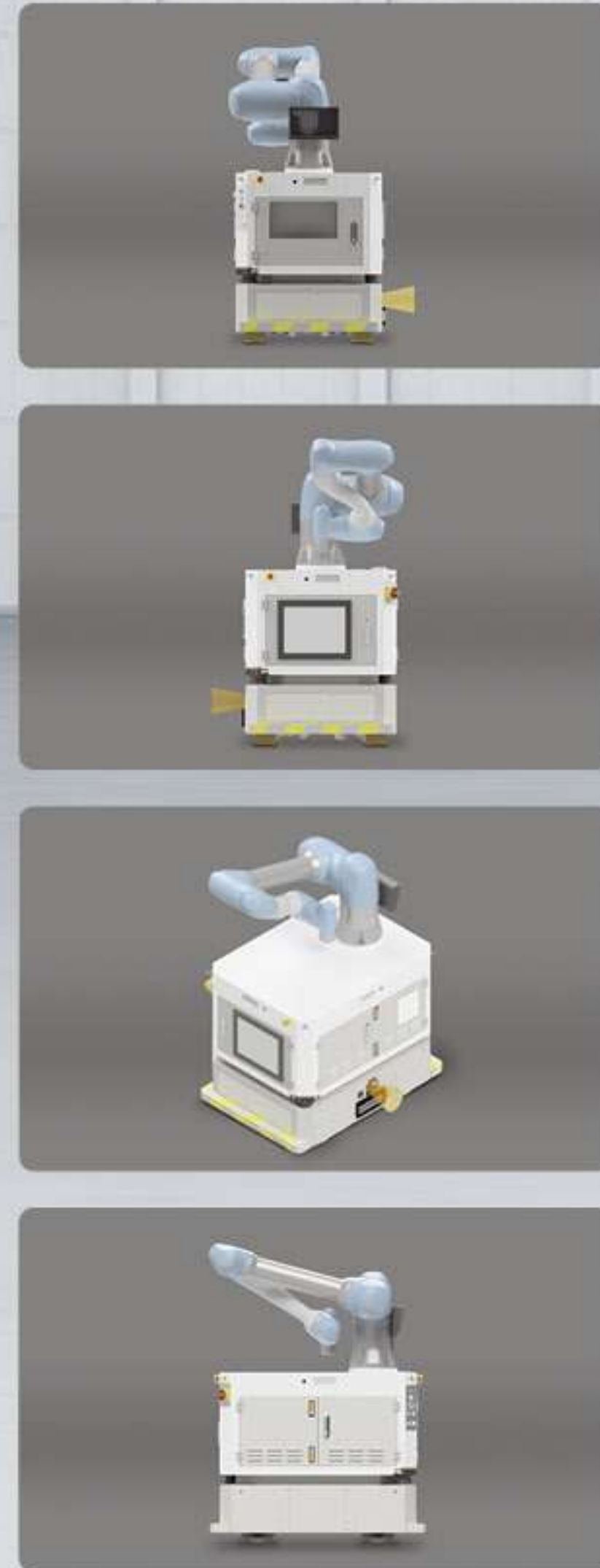


Smart Factory & AMR

GongJang-Jang

This is a mobile robot that combines an AMR and co-bot. It has safety sensors and electric components required for certification by the Korea Institute for Robotics Industry Advancement, and is optimized for obtaining workplace safety certificates.

- Enhancing safety with the LiDAR sensors and flash lights



Safety Device

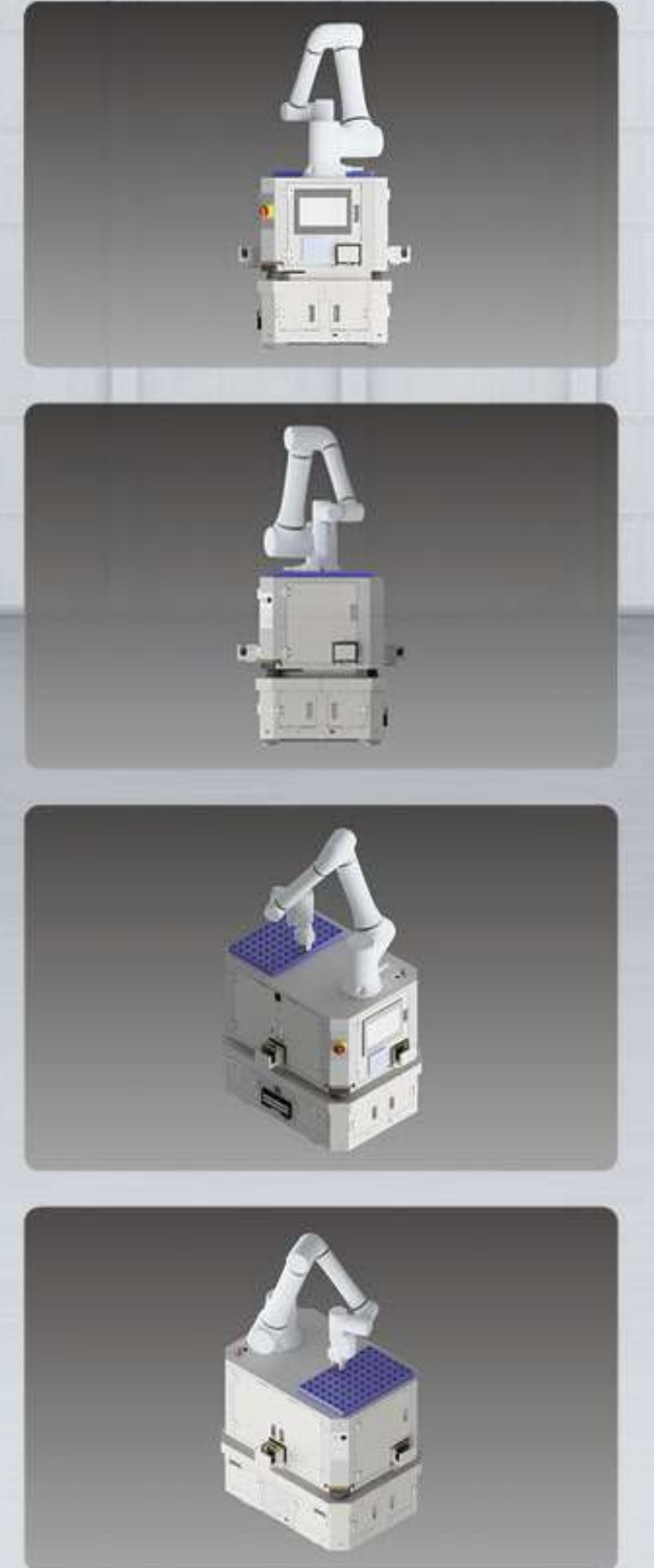
- IR Stereo Camera
- 2D Lidar Sensor x4
- Ultrasonic Sensor x2
- Bumper S/W x16

Smart Factory & AMR

RIEMANN

innovative technology-intensive products are customized to the customer's operating environment. With safety devices in triplicate (LiDAR, proximity laser and bumper) being built in.

- Our products are used in many domestic research institutes and semiconductor processes of large corporations.



Model	GongJang-Jang
Loading capacity	661lb
Robot	TM 45.93ft (30.86lb robot) –OPTION
Specifications(W x L x H)	43.3 x 29.52 x 34.25in
Guide patch	Slam laser guide
Minimum touring radius	25.59in R-360° TURN
Power supply	48V DC
Velocity	Max 196.8ft / min
Safety device	Lidar Sensor, Bumper S/W, Black Box, E-stop, Ultrasonic Sensor, Depth Camera
How to control	PC CONTROL (ROS2 SOURCE apply)
Conditions of use	Indoor only, 0-40°C, 30~80% humidity - no dew point
Floor condition	Surface roughness 10mm or less between min.&max. height Slope 5% or less
Location accuracy	Using vision sensor : WITHIN ±3mm

Model	RIEMANN
Loading capacity	661lb
Conveyor Spec	24.6ft / min
Specifications(W x L x H)	RIEMANN
Guide patch	Slam laser guide
Minimum touring radius	32.87in R, 360° TURN
Power supply	48V DC
Velocity	Max 157.2ft / min
Safety device	LiDar Sensor, E-stop, Bumper S/W
How to control	PLC + PC CONTROL
Conditions of use	Indoor only, 0-40°C, 30~80% humidity - no dew point
Floor condition	Surface roughness 10mm or less between min.&max. height Slope 1% or 5%
Location accuracy	Using vision sensor : WITHIN ±3mm

Smart Factory & AMR
DESCARTES

As a solution combining the AMR and conveyor, it is suitable for a line that produces many kinds of products in small lot units. Repeatability within ± 5 mm is achieved using our self-developed control program, vision sensor, and displacement sensor.

- Simultaneous control of more than 100 units at the same time is possible
- Product loading and unloading can be carried out independently
- Used in automobile manufacturing and semiconductor processes
- Safety standards of the Korea Robotics Industry Advancement are applied to autonomous driving
- Triple safety devices(LiDAR, proximity laser and bumper)



Model	DESCARTES-15	DESCARTES-25	DESCARTES-40
Loading capacity	3,306lb	5,512lb	8,819lb
Conveyor Spec	-	-	-
Specifications(W x L x H)	59 x 39.37 x 15.74in	66.93 x 47.24 x 16.92in	70.86 x 47.24 x 19.68in
Guide patch	Slam Laser guide		
Minimum touring radius	27.55in R, 360° TURN		
Power supply	24V DC		
Velocity	Max 147.6ft / min		
Safety device	Lidar Sensor, Flashing light, E-stop, Bumper		
How to control	PLC Control		
Conditions of use	Indoor only, 0-40°C, 30-80% humidity - no dew point		
Floor condition	-		
Location accuracy	Surface roughness 10mm or less between min.&max. height Slope 5% or less		

DESCARTES-C1	DESCARTES-C2	DESCARTES-L1
661lb	661lb	661lb
39.37ft / min (adjustable)	24.60ft / min (adjustable)	-
33.46 x 27.55 x 31.5in	37.4 x 37.4 x 78.35in	29.3 x 47.24 x 55.12in (cargo size : 25 x 30.9in)
Slam Laser guide		
21.26in R, 360° TURN	24.8in R, 360° TURN	26.18in R, 360° TURN
48V DC		
Max 196.8ft / min	Max 157.4ft / min	Max 157.4ft / min
Lidar Sensor, E-stop, Bumper S/W		
PLC + PC CONTROL	Using vision sensor : WITHIN ± 0.12 in	PLC + PC CONTROL
Indoor only, 0-40°C, 30~80% humidity - no dew point		
Surface roughness 10mm or less between min.&max. height Slope 5% or less		
Using vision sensor : WITHIN ± 0.12 in		

Smart Factory & AMR
ONESTAR

- AGV for low floor loading
- Various payloads: 750 kg to 4 tons
- Magnetic tape guide

- A product with built-in function to measure real-time air quality (LNG, hydrogen, carbon monoxide, carbon dioxide, and fine dust). A self-driving robot on site monitors the systems in real-time with IP cameras.



Model	ONESTAR-07	ONESTAR-15	ONESTAR-25
Loading capacity	1653lb	3307lb	5512lb
Specifications(W x L x H)	66.93 x 17.32 x 6.69in	66.93 x 17.32 x 9.84in	66.93 x 17.32 x 11.81in
Guide patch	Magnetic tape guide (Course search when AGV starts)		
Minimum touring radius	29.52in R, 180° TURN		
Power supply	24V DC		
Velocity	Max 147.6ft / min		
Safety device	Audible warning, Lidar sensor, Flashing light, E-stop, Bumper		
How to control	Magnetic command tapes		
Function	-		
Conditions of use	Indoor only, 0-40°C, 30-80% humidity - no dew point		
Floor condition	Surface roughness 10mm or less between min.&max. height Slope 5% or less		

ONESTAR-M-15	ONESTAR-M-25	ONESTAR-M-40	ONESTAR-L
3307lb	8819lb	1654lb	661lb
66.93 x 17.32 x 6.69in	66.93 x 17.32 x 9.84in	66.93 x 17.32 x 11.81in	35.43 x 26.77 x 47.24in
Magnetic tape guide (Course search when AGV starts)			Slam laser guide
19.68in R, 180° TURN			17.72in R, 360° TURN
24V DC			
Max 147.6ft / min			Max 131.2ft / min
Audible warning, Lidar sensor, Flashing light, E-stop, Bumper			Lidar sensor, Flashing light, E-stop, Bumper
Magnetic command tapes			PLC Control
-			Air quality detection, Remote video surveillance, Remote sector patrol, Integrated control monitoring
Indoor only, 0-40°C, 30-80% humidity - no dew point			
Surface roughness 10mm or less between min.&max. height Slope 1% or less			

COMPACT SORTING SOLUTION

SMART FACTORY TOTAL SOLUTION

Yong-in FC1 Pivotte 40S
coupang
Color Your Days

Yong-in FC3 Pivotte 40S
coupang
Color Your Days

Pivotte 40SCV
CJ LOGISTICS

Pivotte 40SCV
Blue express

Pivotte 40L
Lazadaexpress

Fulfilio
SSG.COM

Unmanned operation of the Gumi Plant 2 (20 AMRs)
LG Innotek

Unmanned CNC injection and discharge using AMRs
SAMSUNG

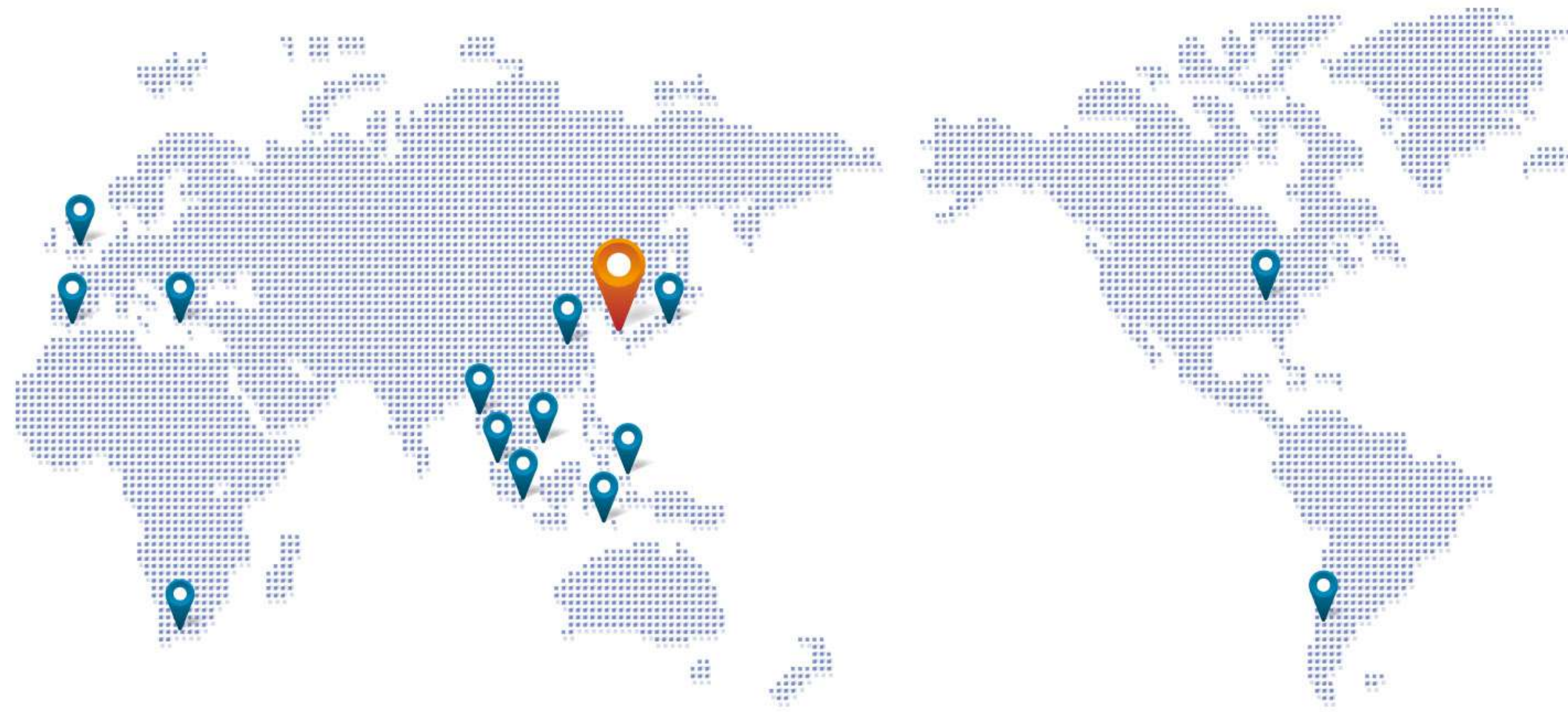
Successful development of a labor-friendly smart manufacturing test bed based on data analysis
부산테크노파크 BUSAN TECHNO PARK

Construction of automatic lines for IP phone assembly
Nuri Voice

Certificate



GLOBAL REFERENCES



Europe & Africa

- France, United Kingdom, Turkiye, South Africa, Slovakia, Romania, Tunisia, Norway

Asia

- Korea, Japan, China, Malaysia, Singapore, Indonesia, Thailand, Philippines, Vietnam

America

- United States, Chile

INNOVATION · TECHNOLOGY · CUSTOMER

As the global logistics environment is changing daily, innovation is essential for all customers. Therefore, at Taesung System, excellent talents and experts are exploring and developing technologies with a passionate pioneering spirit in various fields such as product planning, research and development, marketing, and production.



Partners





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Tea sung system

