



KEY TO THE FUTURE FACTORY

Solutions For Advancement

CEO MESSAGE

Smart Factory 기술로 한 차원 더 고도화된 융복합 하이테크 솔루션
에스에프에이, 고객의 진보를 위한 최상의 파트너

에스에프에이는 자동화 솔루션 공급에 필요한 제반 기술에 대한 탁월한 융복합 능력을 바탕으로 고객의 진보를 위한 최고/최적의 Solution을 국내외 디스플레이, 반도체, 2차 전지 및 제반 유통/제조 등의 각 산업부문 전반에 공급하며 대한민국을 넘어 글로벌 유수의 종합 장비회사로 성장하였습니다.

이제는 산업혁명 4.0에 따른 각 산업 내 사업 환경 패러다임의 변화에 맞춰 지속적인 R&D 투자를 통해 확보하여 숙성시킨 Smart Factory 요소 기술을 각 산업 부문의 제반 Solution에 접목하여 한 차원 더 고도화된 하이테크 솔루션을 공급하는 글로벌 리더로 비상하기 위한 나래를 활짝 폈습니다.

또한 디스플레이사업 중심의 사업 포트폴리오에서 2차 전지 사업 및 반도체 사업으로의 적극적인 확장을 통해 지속적이고도 안정적인 성장을 추구함을 물론, 명실상부한 종합 장비회사로서의 위상을 강화하기 위한 발걸음을 힘차게 내딛었습니다.

창립 이래 20 여 년간 철저한 고객 지향적 사고와 강한 실천력을 바탕으로 지속적인 기술 개발 노력 기반의 융복합 기술 혁신을 통해 고객의 니즈에 부합하는 최적/최고의 자동화 솔루션을 공급해 온 에스에프에이는 이제 Smart Factory 기술을 기반으로 하는 또 한 번의 융복합 혁신을 통한 최첨단 하이테크 솔루션으로 고객의 한 차원 더 높은 수준의 진보를 위한 최상의 파트너가 될 것입니다.

감사합니다.


Young Min Kim
President & CEO

SFA HISTORY



RESEARCH & DEVELOPMENT

Active R&D activities - the source of technology creation.

SFA is investing many organizations and competence into development activities for sustainable growth, customer satisfaction, and market leading as the world's finest comprehensive manufacturing equipment company.

In particular, aside from an organization in charge of securing short-term new equipment technology and developing mass-production, SFA is simultaneously promoting short-term growth and mid & long-term growth by operating R&D Centers 1 & 2 to discover and develop new mid & long-term businesses and growths items.



In charge of New Business
· New Growth Development

R&D Center 2

- **Smart Factory core element & base technology development**
 - New concept Smart AI algorithm and solution based on Machine Learning and Deep Learning
 - High-speed data collecting and analysing Smart Device such as Smart Sensor, Big Data, and Edge Computing
 - Smart analysis solution such as PdM and Sense
 - Development of analysis algorithms such as advanced statistical analysis

R&D Center 1

- Discovery and development of new mid & long-term businesses
- Development of Smart Factory commercialization
- Advance development of core business equipment /systems
- Development of source technology
- Development of core front-end equipment such as evaporator, laser and others



In charge of New equipment
· Mass production Development

Logistics Development Team

- **Development of MH(Material Handling) and factory automation equipment/system**
 - Development of logistics-distribution equipment/system and solution
 - Development of automated mass production equipment/solution
 - Development of new equipment discovery & mass production
- **Development of Smart Factory mass production**

Process Equipment Development Team

- **Development of process equipment/system for semiconductor, Secondary battery, display, and other industries**
 - Development of process equipment/system mass production
 - Development of front-end equipment/system mass production
 - Development of New process equipment/system mass
- **Development of Smart Factory mass production**

Logistics Research Institute

- **Manufacturing & distribution automation solution review and development**
 - Logistics automation consulting
 - Full automation system design
 - Development of new equipment discovery and new concept

SFA | NEO

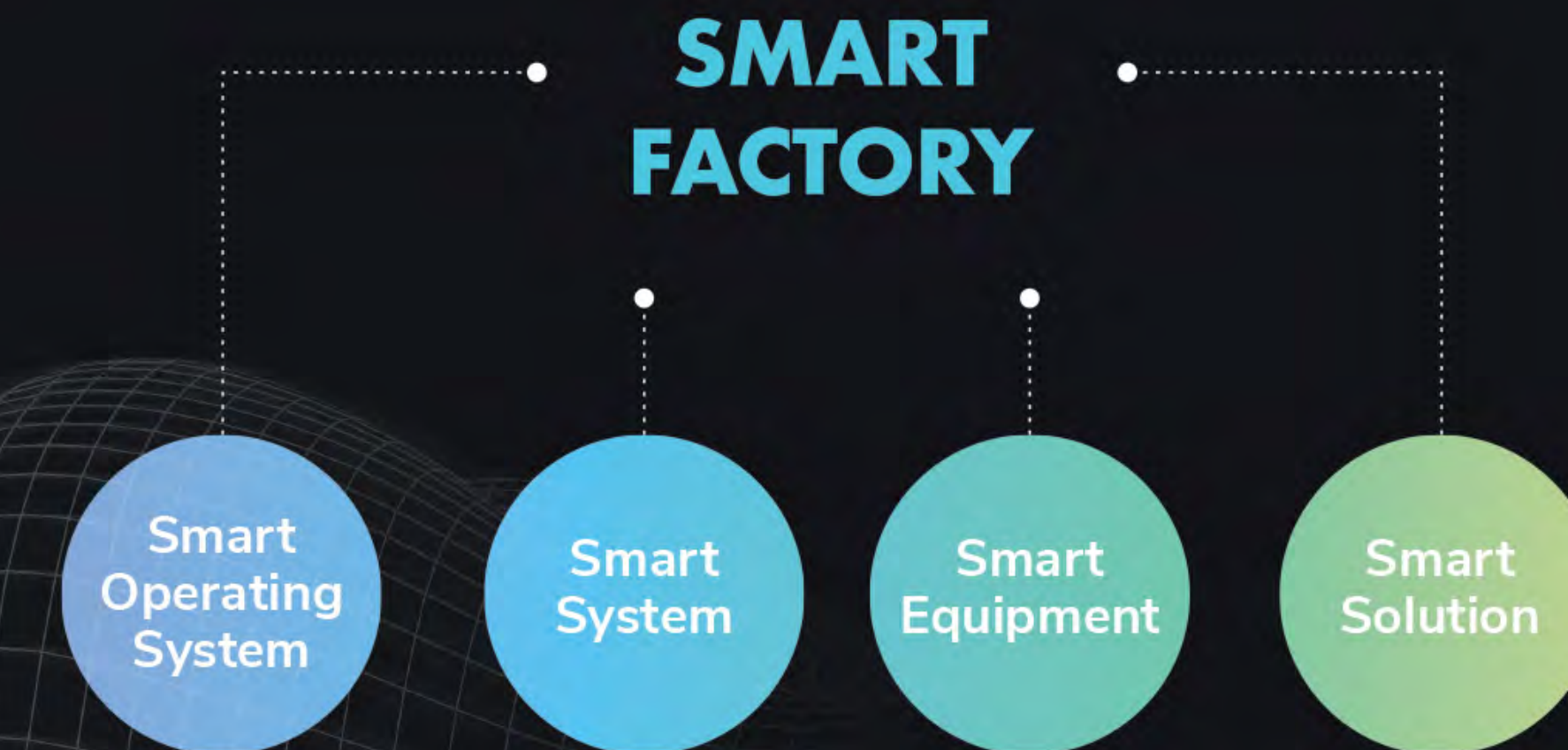
SMART FACTORY

- What is Smart Factory?
- Advantages
- Key Technologies
- Portfolios

WHAT IS SMART FACTORY?

Based on various information and communication (ICT) technologies represented as AI, Smart Factory enables real time status monitoring & analysing by organic connection of diverse objects in all areas of manufacturing including equipment and entire plant data. In addition, it is a future intelligent factory that can think, judge and control by itself in changing environment, and allows automation and unmanned system beyond human limits, which contribute to minimum cost, highest quality and maximum productivity.

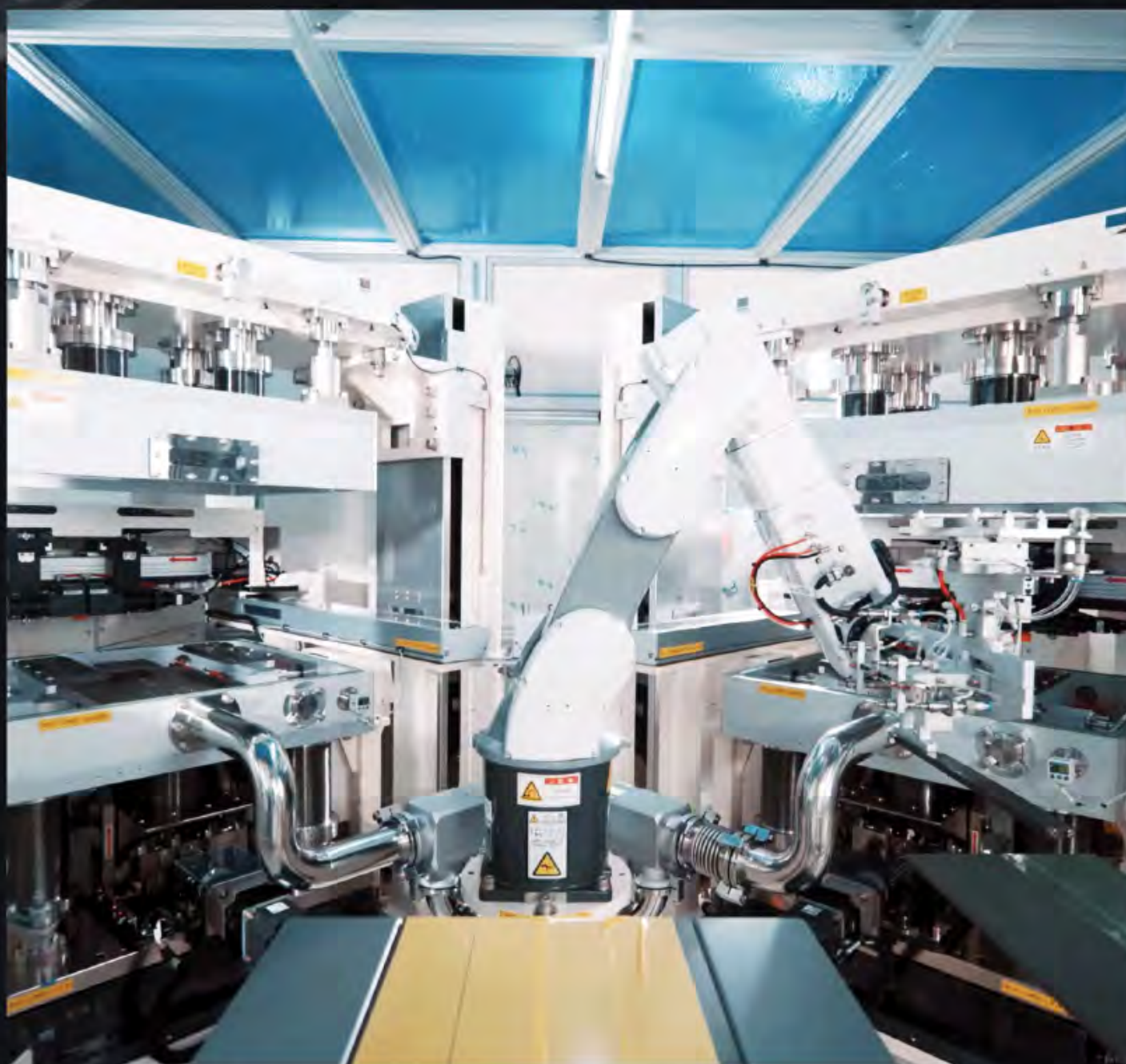
The core values of Smart Factory can be defined as 'Super Intelligence', 'Hyper Connectivity', 'Unmanned System', and 'Non-stop System'.



Current Smart Factory mostly only targets the smartification of ERP, MES and production & management systems. In order to realise a true Smart Factory, it is necessary to be accompanied by smartification of the manufacturing equipment and equipment operation that enables 'productivity & quality improvement' and 'cost minimisation'.

ADVANTAGES

SFA is the world's leading comprehensive manufacturing equipment company, providing Smart Factory Solutions & Systems with new concepts customized to various industries and customers through differentiated capabilities from other companies.



World-class rich and diverse Domain Knowledge

In order to maximise productivity & quality and minimise cost in the manufacturing lines, it is necessary to conceive and execute innovative concepts and systems that are creative and capable of realizing & maximizing efficiency. However, these are not short-term effort, but is only possible with the Domain Knowledge of manufacturing equipment/systems that is attainable from long-term accumulation of plentiful experience and know-how.

SFA, the world's leading comprehensive equipment company, has first, rich experience of manufacturing equipment & system, operation, and manufacturing sites, and second, Domain Knowledge of equipment. As a result, SFA is realising a more innovative and creative future Smart Factory than any other companies.

Full Turnkey System

SFA provides end to end service from consulting, system design, simulation, development, design, production, installation, operation, to domestic & overseas AS in various industries such as display, semiconductor, secondary battery, distribution & logistics, nuclear fusion, solar and special industries.



Convergence System Integration of equipment / systems / operating systems

The ability to integrate various equipment / systems in the manufacturing site is directly related to manufacturing performance such as production efficiency, quality improvement, and cost reduction, and this is one of SFA's greatest strengths, possessing various items and having numerous integration experiences.



Proven Smart Factory Capabilities Performances

- Recognition of Smart Factory capabilities, such as the 2019 Artificial Intelligence (AI) Grand Prize(Manufacturing sector)
- Delivering numerous Smart Factory & AI equipment, and expanding business in Secondary Battery, semiconductor, display, MH(Material Handling) industries



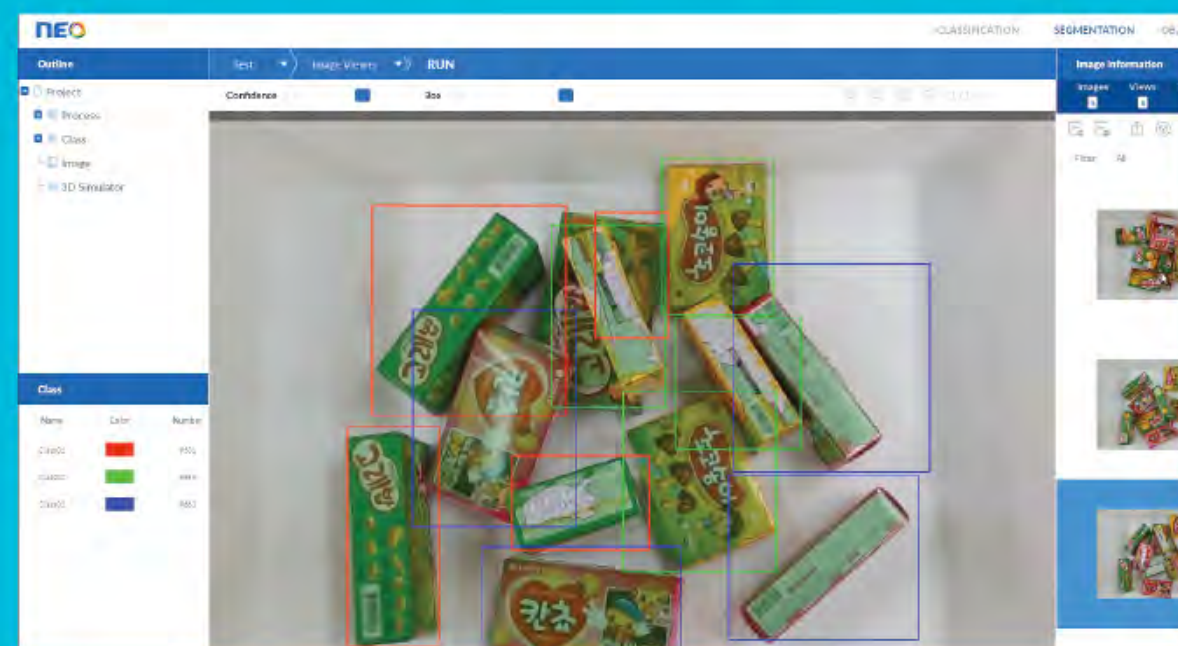
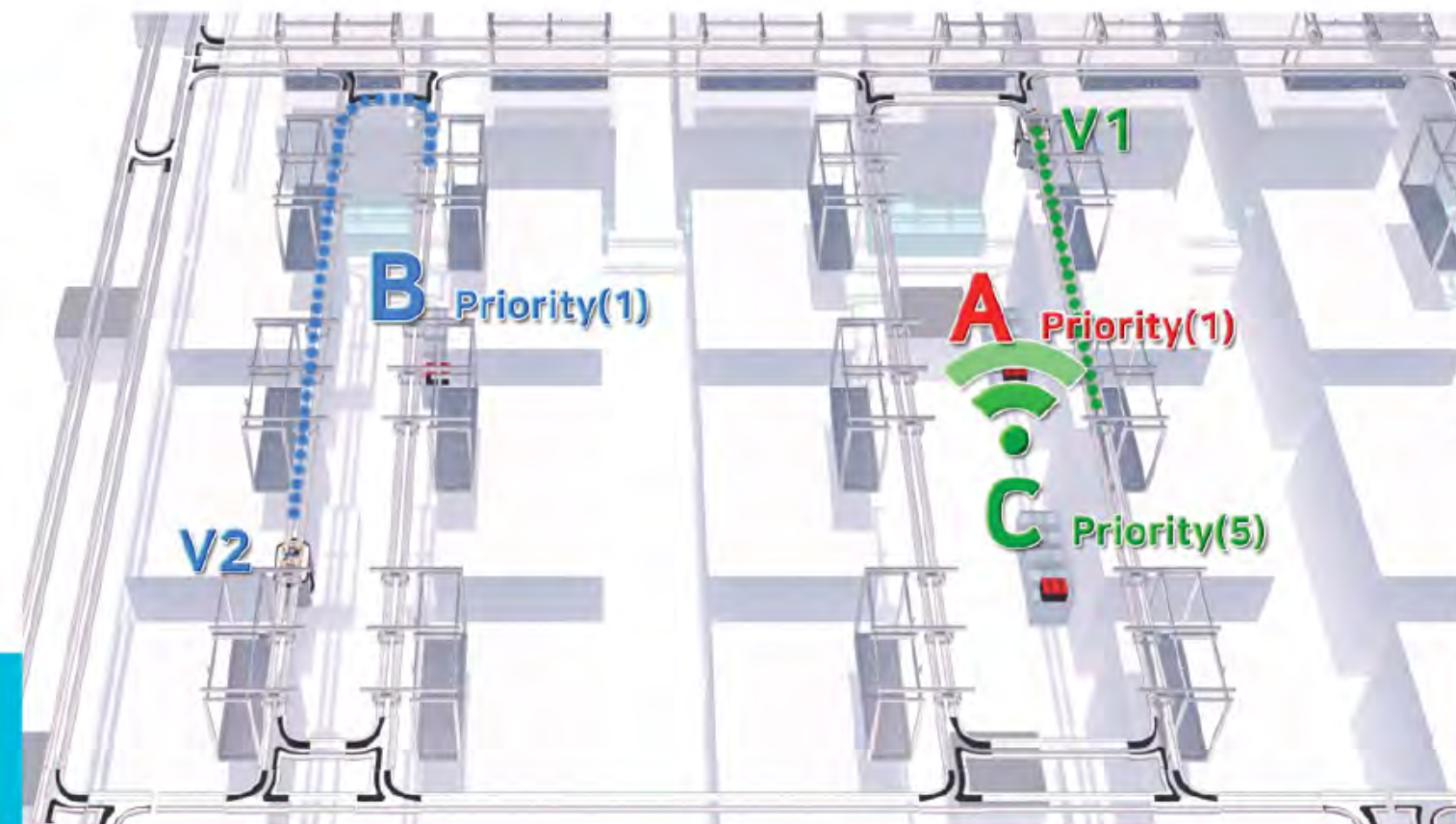
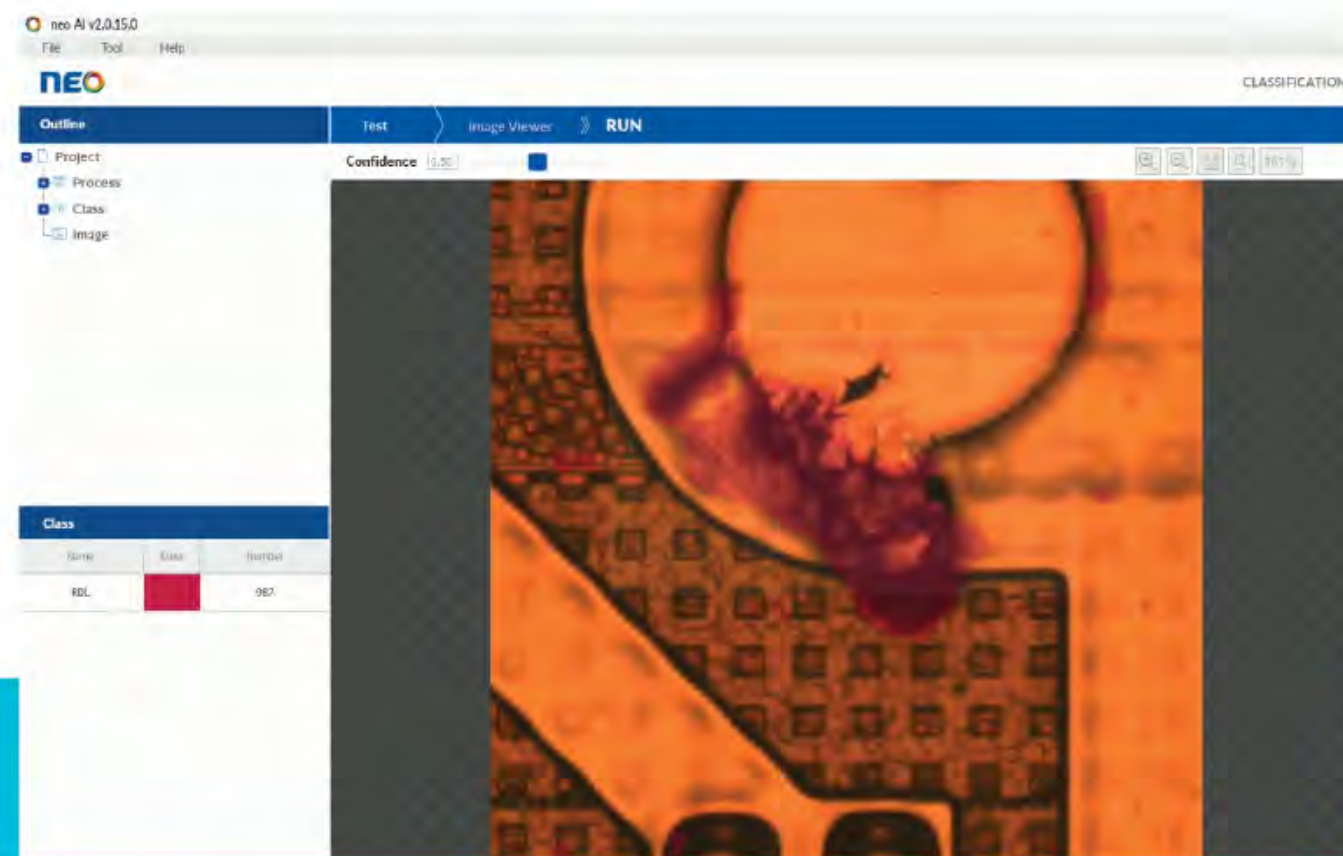
KEY TECHNOLOGIES

With the world's best manufacturing and equipment Domain Knowledge, SFA has independently developed its own AI technology and has applied it to Smart Factory technology which can be categorised into the following two.

First, 'NEO AI', an AI technology that can be applied to various industrial technologies such as image processing. Second, 'NEO Platform', a problem solver at manufacturing sites by collecting & analysing external data from sensors.

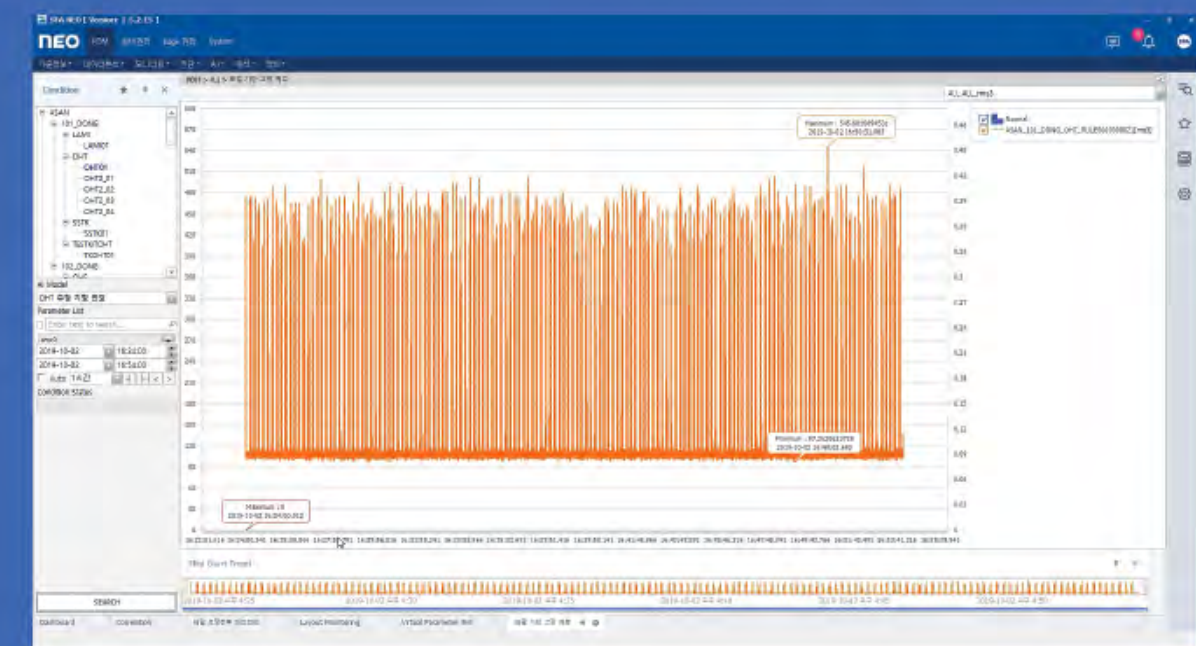
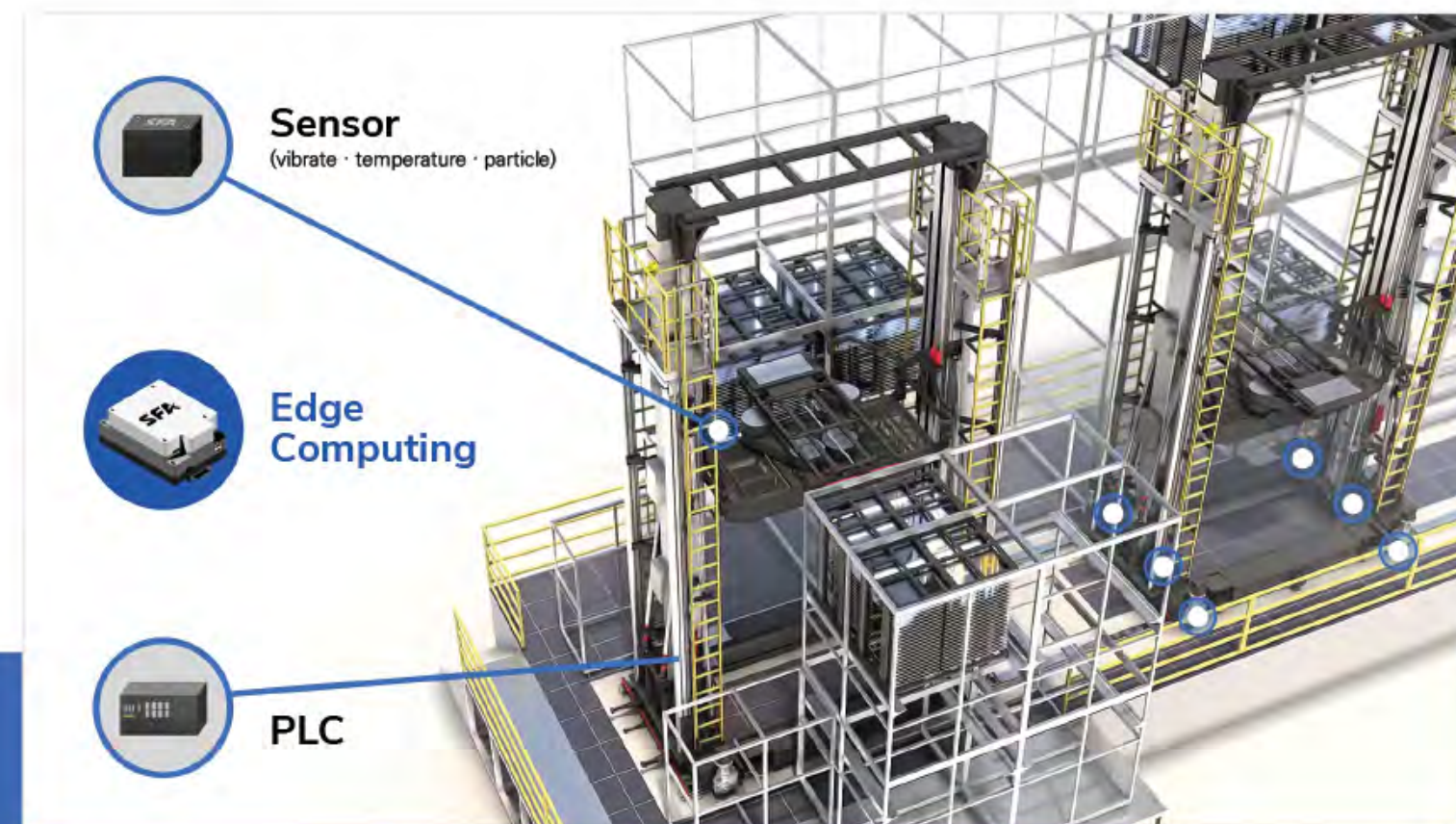
NEO AI

NEO AI is a field-oriented technology solution based on SFA's unique advantages of manufacturing line composition, manufacturing equipment production & operating experience inimitable by software companies. This includes 'NEO Imaging', which is applied to inspection & measurement machines or image & video processing. 'NEO Route', which represents functions such as autonomous driving, route optimisation and dodge/detour of AGV and OHT vehicles. 'NEO Cube', which is applied to space recognition and loading simulation when loading products on pallets.



NEO PLATFORM

NEO Platform is a solution that provides countermeasures by collecting and analysing a large amount of information and raw data of manufacturing equipment, operating systems, management systems and smart systems, and then making self-judgment. This solution includes 'NEO Edge', similar to Edge Computing, it collects, analyses, and processes data from various sensors and PLC at high speed. 'NEO PdM' (Predictive Maintenance), which analyses and predicts the failure time of the manufacturing equipment or systems, and 'NEO Sense', which detects and analyses fine data that is difficult to recognise for correction.



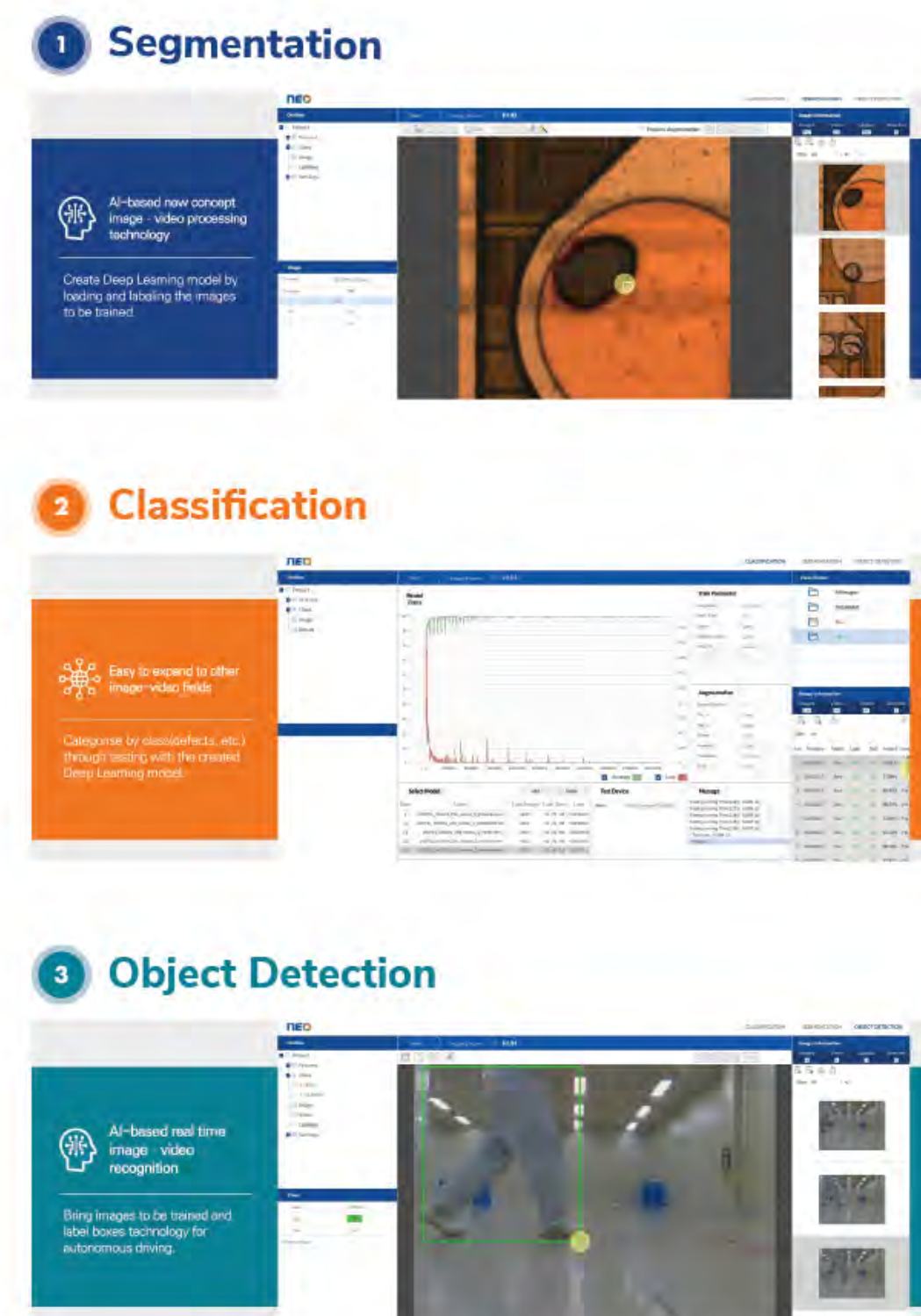
NEO AI Imaging

NEO Imaging is developed based on Machine Learning and Deep Learning algorithms, which are optimised for images and videos. It is an intelligent image processing & analysis solution that overcomes human limitations in image/video recognition & reading, and is capable of learning the features of defects by itself, interpreting the abnormalities of images/videos, and making self-judgement. There are a wide variety of applications including inspection and measurement, as well as image pre-processing and optimisation.

NEO AI, applied with SFA's Deep Learning-based inspection software function capable of image/video analysis, provides an embedding API that can easily implement Deep Learning, distinction integrated environment and equipment application. With the implementation of revolutionary processing speed and accuracy, it is widely applied to inspection/measurement equipment in various industries.

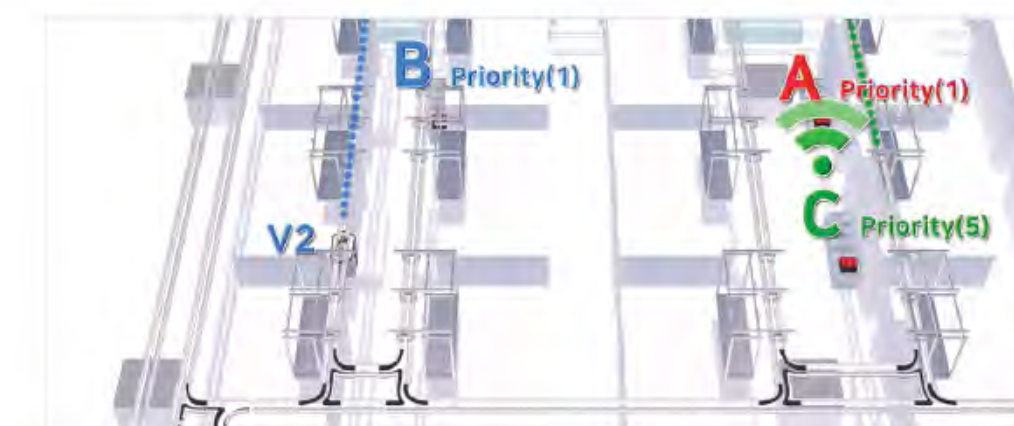
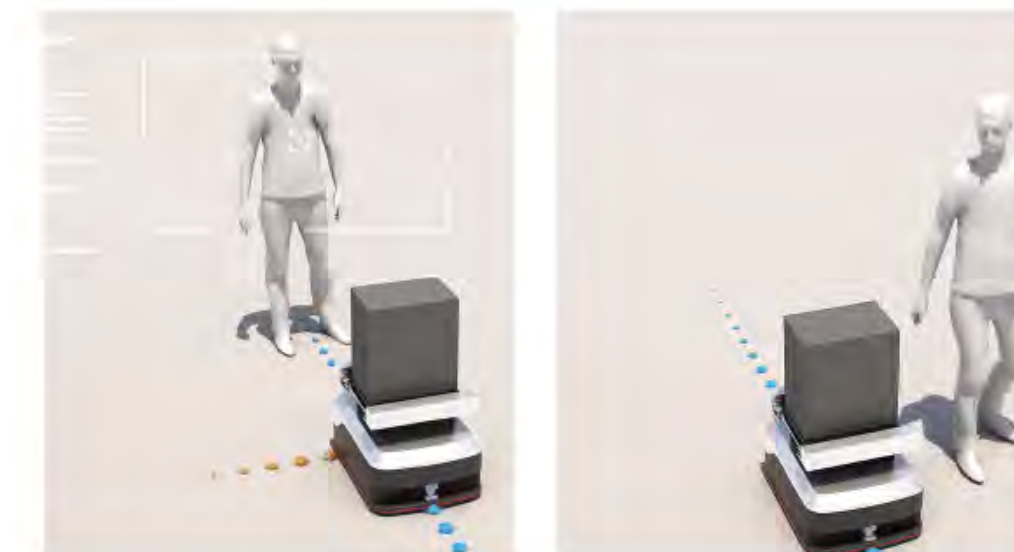
Furthermore, it is not only used in Image / video analysis field, but also used as an innovative pre-processing technology for images/videos.

On top of that, NEO AI Imaging is applied to automated systems such as Robot Picking, and by applying AI functions, including NEO AI Imaging function, to the recognition, learning, separation, and sorting of the picked objects, SFA provides the world's best unmanned picking and sorting system that can dramatically increase picking accuracy and extract optimal picking points.



NEO AI Route

This is an optimal operation solution for transportation equipment to maximise the operation efficiency of various transportation equipment used in manufacturing sites. It provides optimal operation by analysing & predicting future congestion and estimated arrangements & operation methods of the vehicles, as well as route optimisation, obstacle dodging/detour, and autonomous driving functions. This optimal operation, first is cost effective by operating with the minimum vehicle in scale, and second, improves logistics productivity by optimising the AI-based operating paths, and third, predicts current & future environmental changes, therefore it can prepare the optimal operating scenario in advance, enabling the realisation of smart manufacturing logistics.



01 Real time obstacle dodge autonomous driving

Even when obstacles that are not in the prior information occur while driving, the vehicle is capable of real time obstacle avoidance autonomous driving by using IoT and AI, so that it can prevent accidents, and the vehicle is also possible to optimise the moving route/order of the vehicle in real time. This can prevent and control material damages, injuries to workers, and breakdowns of the vehicles caused by collision. As a result, reducing operating costs, minimising loss of opportunity costs, and securing safety of workers can be achieved.

02 Transport route optimization and optimal operation/allocation

- Real time control/management of the minimum time and optimal operation
- Provide detour route through real time checking of congested sections
- Optimal & minimum quantity operation control management system
- Minimise driving loss and improve productivity

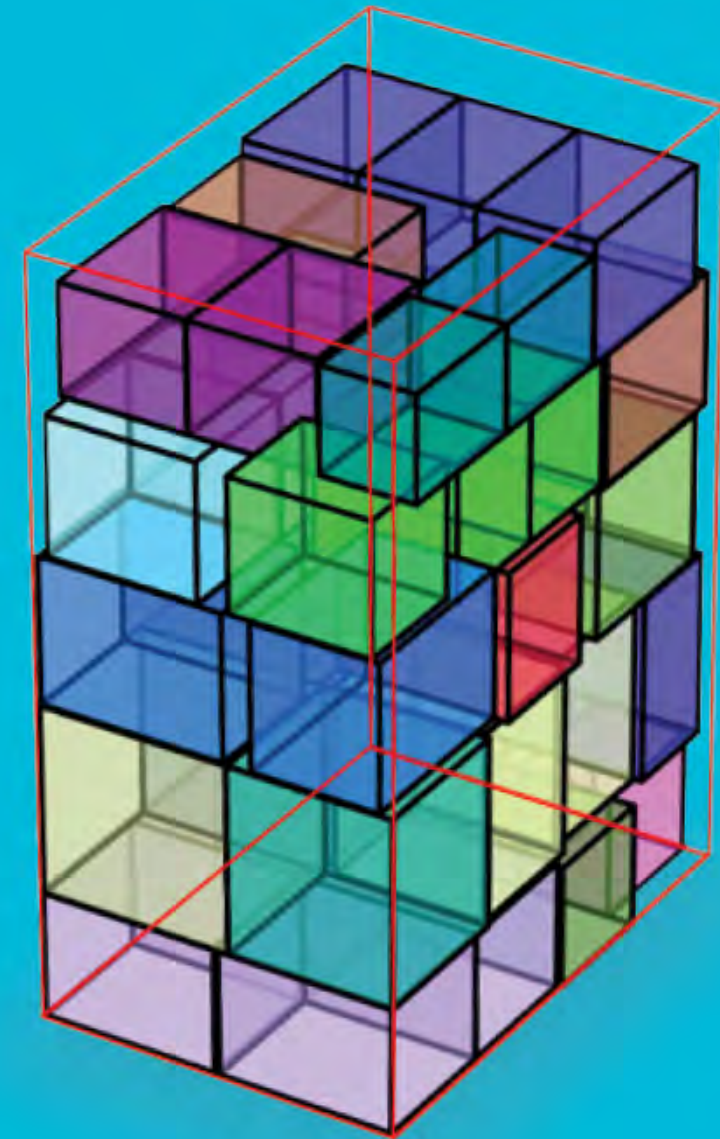
03 Future congestion prediction system

It is possible to minimise congestion and optimise transport allocation/operation by analysing the operation status of the entire line and the movement flow of the transport vehicle and predicting the future.

NEO AI NEO AI Cube

This is a loading simulation solution with Deep Learning algorithm application optimised for 3D spatial area recognition to enable optimal space utilization through an optimal loading sequence when loading products on pallets.

The weight and size of various products are considered when arranging the loading sequence and area to maximise loading stability and space efficiency.



Real time data collection through IoT equipment

NEO Edge is installed inside the equipment and collects data such as vibration, noise, deformation, and heat generated in each important part in every 100ms (maximum of every 30ms). Then, it provides analysis and reports through Edge Computing that is applied with Big Data, AI Machine Learning, and advanced statistical analysis algorithms.



In addition, NEO Edge has no restrictions on installation location due to wireless network and Bluetooth, and it collects and transmits data without losing any. Furthermore, it has a variety of sensor protocols and is designed in an expandable structure to provide various measurement data of the equipment to enable analysis.

It is also used as a basic platform device such as 'NEO PdM (Predictive Maintenance)', which can predict and prepare for equipment/system failure, and 'NEO Sense', which recognises and analyses changes in conditions such as ultra-fine vibration. Accordingly, SFA is expanding its application to various fields.

NEO PLATFORM NEO Platform Edge

This is a next generation Edge Computing System that collects and analyses a large amount of various data, generated from manufacturing equipment or systems in factories, with high speed and accuracy. The collected data is synchronised with Edge Device and enables real time visualisation to monitor the status of the manufacturing equipment or systems. It provides data status and analysis reports through Big Data and AI Machine Learning analysis.

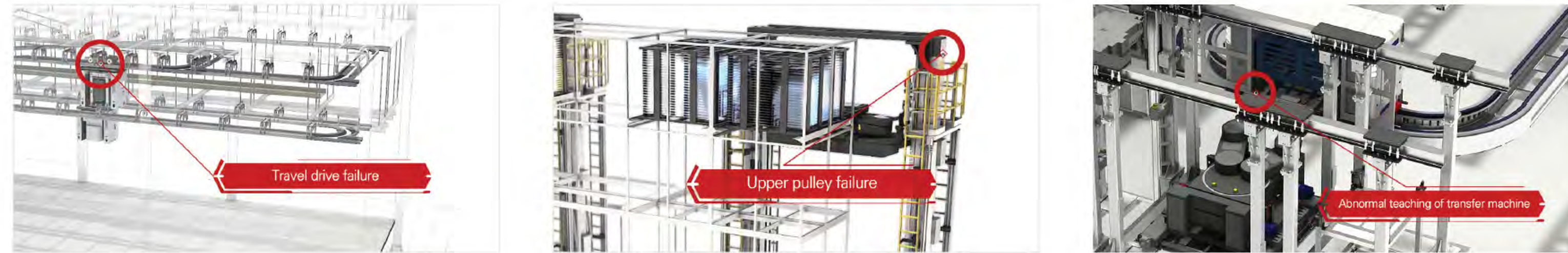
In addition, it can function as a basic platform that synchronises with NEO PdM and NEO Sense.



NEO PLATFORM

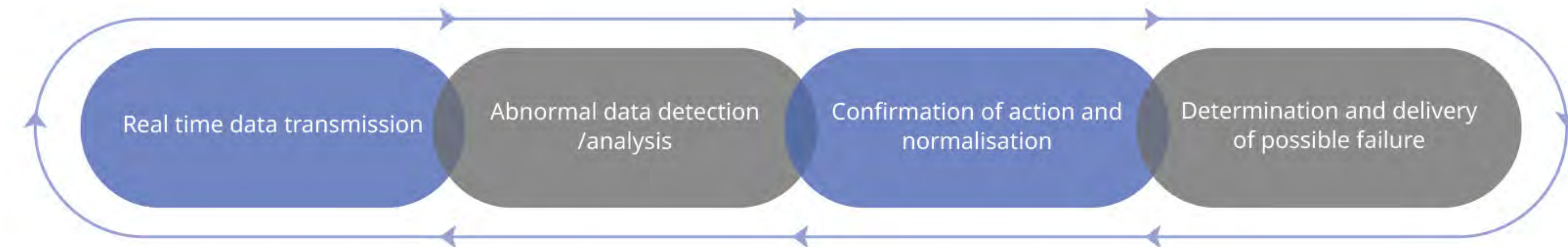
NEO Platform PdM

This solution rapidly processes large amount of data and AI failure prediction model based on high-performance Big Data processing engine. In addition, it not only provides specialised condition and trend management for each equipment and various auto diagnostic functions, but also provides lifecycle management of the parts and predictive maintenance.



PdM (Predictive Maintenance)

- ✓ Predict appropriate timing of maintenance/repair
- ✓ Optimal use of parts life
- ✓ Minimisation of downtime
- ✓ Maximisation of productivity/operation efficiency



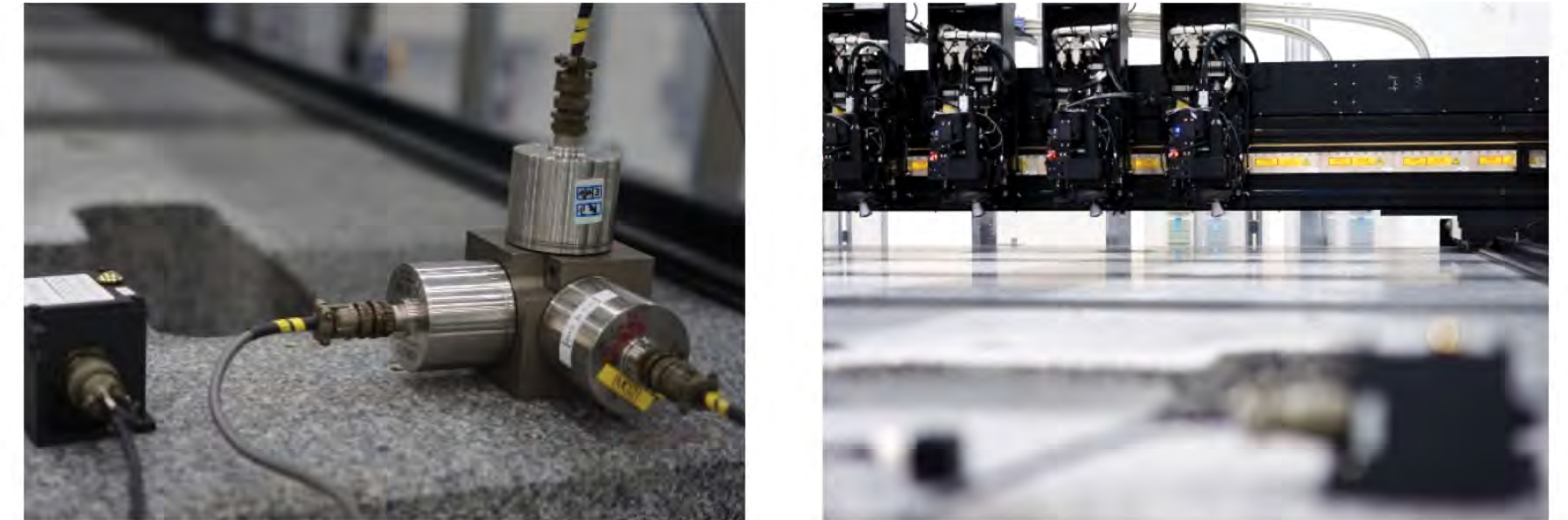
It prevents sudden downtimes by predicting failure time of equipment, to enable establishment of manufacturing environment that allows maximum productivity and efficient management. NEO PdM is also capable of handling from simple applications such as system operation to manufacturing equipment as well as transportation system operation, which is the highest level of difficulty.

NEO PLATFORM

NEO Platform Sense

This is a precise measurement & control solution for correction/improvement that measures fine data of process and equipment in real time. It supports various protocols (Serial, TCP/UDP, SECS/GEM, etc.) and provides high resolution data visualisation views.

It also supports Proxy Relay method which enables remote checking of real time data. NEO Platform Sense supports monitoring and real time control by transmitting data necessary for quality control in high-resolution inspection machine and ultra-fine process equipment.





PORTFOLIOS

NEO has converged SFA's existing/new business items with smart technologies including AI technology to provide world-class smart products. There are a total of 7 representative smart business groups and are expanding to other new products and business fields.



NEO Move

NEO Move is product transporting & sorting equipment such as C/V, AGV, OHT and Sorter. With the applications of AI-based autonomous driving and new concept logistics operation solution to these equipment, it enables logistics productivity improvement, cost minimisation, and operation & management optimisation.



NEO Inspect

This is an AI-based Inspection System equipped with AI functions such as Deep Learning in the traditional Rule-based Algorithm Inspection method. As a result, it has improved the detection and discernment to levels unimaginable in the past, and is now actively used in various industries including Secondary battery with the application of SFA's unique optical system.



NEO Pick

NEO Pick is applied in business area where products are picked up by robots for loading and sorting purpose. With the application of AI, which can accurately determine the target products, and then make self-judgement & determination of picking method, it minimises human errors, operates non-stop and improves productivity.

Its field of application and effectiveness are significant as it enables combination with transportation vehicles.



NEO Place

There are various types of product storage and loading equipment such as Stocker and MSC. With the applications of Predictive Maintenance (PdM) and operation efficiency improvement solution to these equipment, they enable the establishment of Smart Factory.

NEO Precision

SFA has a variety of core process equipment in diverse industries such as Secondary battery, display and semiconductor and other industries which perform manufacturing processes to make materials and semi-finished products into finished products in the manufacturing line. Predictive Maintenance (PdM) and quality management systems are applied to these equipment to enable stabilised equipment operation, productivity improvement, and cost reduction.



NEO Measure

Various measurement machines with AI-applied precise measurement image pre-processing technology are used in diverse industries such as display and semiconductor. In addition, a solution, which accurately analyses and responds to the limitations of the measurement environment, has been applied for the revolutionary improvement of measurement precision and stability.



NEO Logis

NEO Logis is an integrated management system solution for logistics equipment & system, logistics operation & management system of logistics such as automated warehouses, distribution centers and logistics systems. As a unique advantage of SFA, AI solution, in particular, is applied to maximise logistics productivity and stable management.

NEO Key Techs

NEO AI



AI Imaging
Video / image
specialised solution



AI Route
Optimal loading
simulation software



AI Cube
Optimal route
suggestion solution

NEO Platform



PLATFORM Edge
Real time data
collection and
lean solution



PLATFORM PdM
Atypical fine data
detection solution



PLATFORM Sense
Real time equipment
status monitoring
and maintenance
time prediction solution

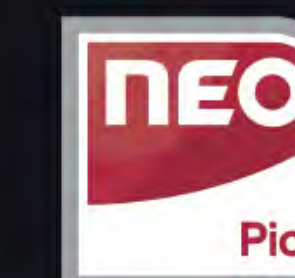
NEO Portfolios



Inspect
Smart inspection
equipment



Move
Smart transferring
equipment



Pick
Smart picking
equipment



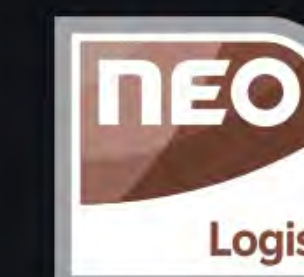
Place
Intelligent product
transferring & sorting
equipment



Precision
Smart process
equipment



Measure
Smart measurement
equipment



Logis
Distribution center
integrated control
and operation system

SFA BUSINESS

- Display
- MH(Material Handling)
- Secondary Battery
- Special Purpose Business

PORTFOLIO

- Semiconductor

1

Display

SFA provides preeminent display logistics and manufacturing equipment from CRT to PDP, LCD and OLED to domestic and overseas customers.

In particular, we also deliver a variety of products from layout consulting and design of the entire production line to clean equipment, module equipment and front-end equipment, which is a core process.

In addition, we apply new concept of Smart Technology that enables the highest level of quality and productivity.

Key to The Future Factory

- Clean Logistics Equipment
- Front-end Equipment
- Module Equipment

Stocker



OHT



OHS



Clean Logistics System

Clean Logistics System

SFA delivers a full turnkey solution to domestic and global customers from Stocker, recognised as world-class technology, to OHS, OHT, as well as basic logistics equipment/systems that require extensive field experience.



Stocker

Front-End Equipment



Deposition



Vacuum Laser Equipment



Imprinter

Front-End Equipment

SFA is actively developing the core front-end equipment of display business such as evaporator and laser equipment, and is providing equipment/systems with differentiated technology and productivity to domestic and overseas customers.

Inspection/Measurement Equipment



Laminator

Module Equipment

Laminator



Module Equipment

One of the main business areas of SFA, where we provide diverse types of laminators, the core technology of OLED manufacturing. Moreover, SFA holds various inspection and measurement technologies used in the module process.

2

Secondary Battery

Secondary battery field aggregates various technologies and experiences of SFA. A variety of products from raw materials/product storage, logistics equipment of electrode, assembly and formation processes and process equipment to inspection / measurement machine are provided.

SFA delivers the best productivity, quality and stability to customers through the applications of technologies such as world-class and independently developed AI, autonomous driving integrated operation system, predictive maintenance (PdM).

Key to The Future Factory

- Logistics Equipment
- Process Equipment
- Inspection Equipment

MSC



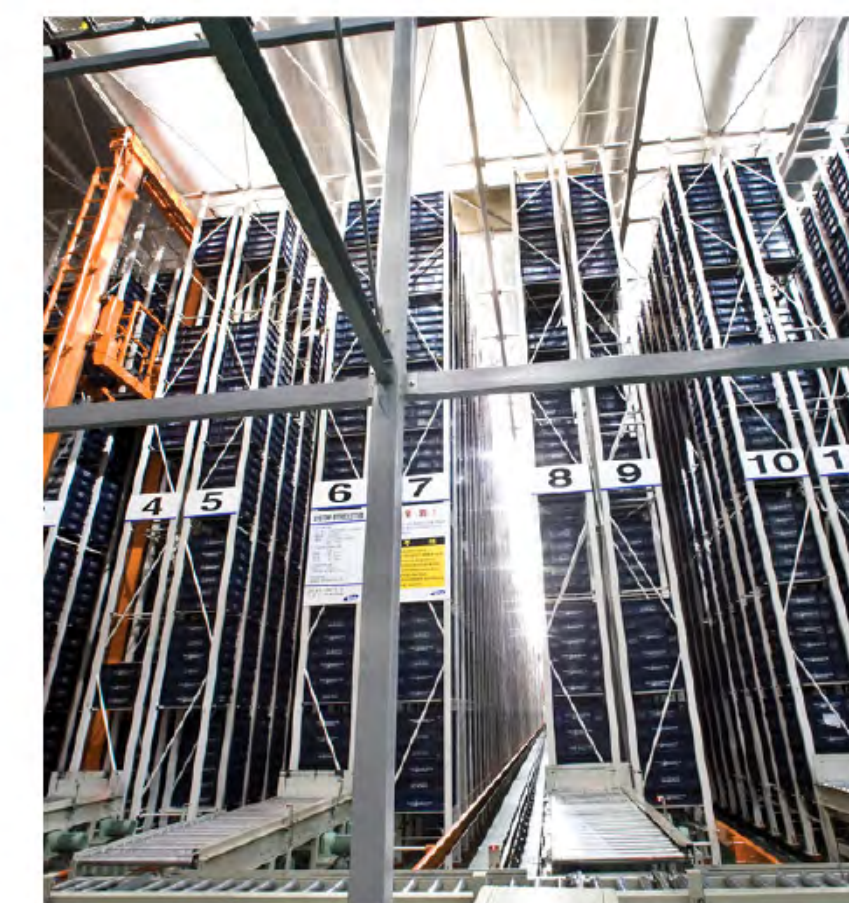
OHT



Logistics System

Logistics System

Based on proven capabilities in display industry, SFA provides a variety of logistics equipment and systems required for the secondary battery production line consisting of raw & subsidiary materials and semi-finished products storage, and electrode/assembly/formation processes.



Bucket AS/RS



AGV(autonomous)



AGV(autonomous)

Stacking Equipment



Process & Precision Equipment

Process & Precision Equipment

SFA provides a variety of core process equipment with differentiated process technology and production capabilities, such as stacking and degassing equipment, which are essential for Secondary battery production.



Degassing Equipment



Degassing Equipment

Inspect / Measure Equipment

Inspect / Measure Equipment

Applications of world-class AI and smart technology such as NEO AI Inspect and NEO Sense enable revolutionary improvement of detection capability that goes beyond human limits and securement of stable measurement environment. SFA provides these extraordinary inspection and measurement equipment to domestic and overseas customers.



AI AOI System

AI AOI System



CT Inspection System

3

Semiconductor

SFA delivers various types of clean equipment and test systems for front and back-end, and test process of semiconductor. In order to maximise the efficiency of the semiconductor production line, we are creating new values for customers by integrating our independently developed AI and smart functions such as Route and predictive maintenance (PdM).

Key to The Future Factory

- Clean Logistics Equipment
- Test Equipment

OHT



Clean Logistics System

SFA is continuously developing and commercializing new concepts of logistics equipment /systems with improved productivity and operational stability with customers.

Clean Logistics System

Interlayer Lifter



N2 Stocker

Clean Logistics System

Clean Logistics System

In addition to providing the highest quality logistics equipment/systems considering the nature of semiconductor manufacturing lines, where the stability of logistics equipment / systems is crucial, SFA offers optimal production environment and operational competitiveness to domestic and global customers with applications of NEO AI Route and NEO PdM.



Clean Module C/V

AGV(autonomous)



Interlayer Lifter



Stocker



N2 Stocker

4

Material Handling

As a key business of SFA, we are creating diverse values for customers through applications of Smart Factory technologies to distribution centers, automated warehouses and factory automation equipment/system. Continuous development and commercialization are underway for new concepts of equipment / systems that meet customer's core needs of unmanned and unparalleled productivity and quality.

Key to The Future Factory

- Distribution Center
- Automated Warehouse System
- Factory Automation System

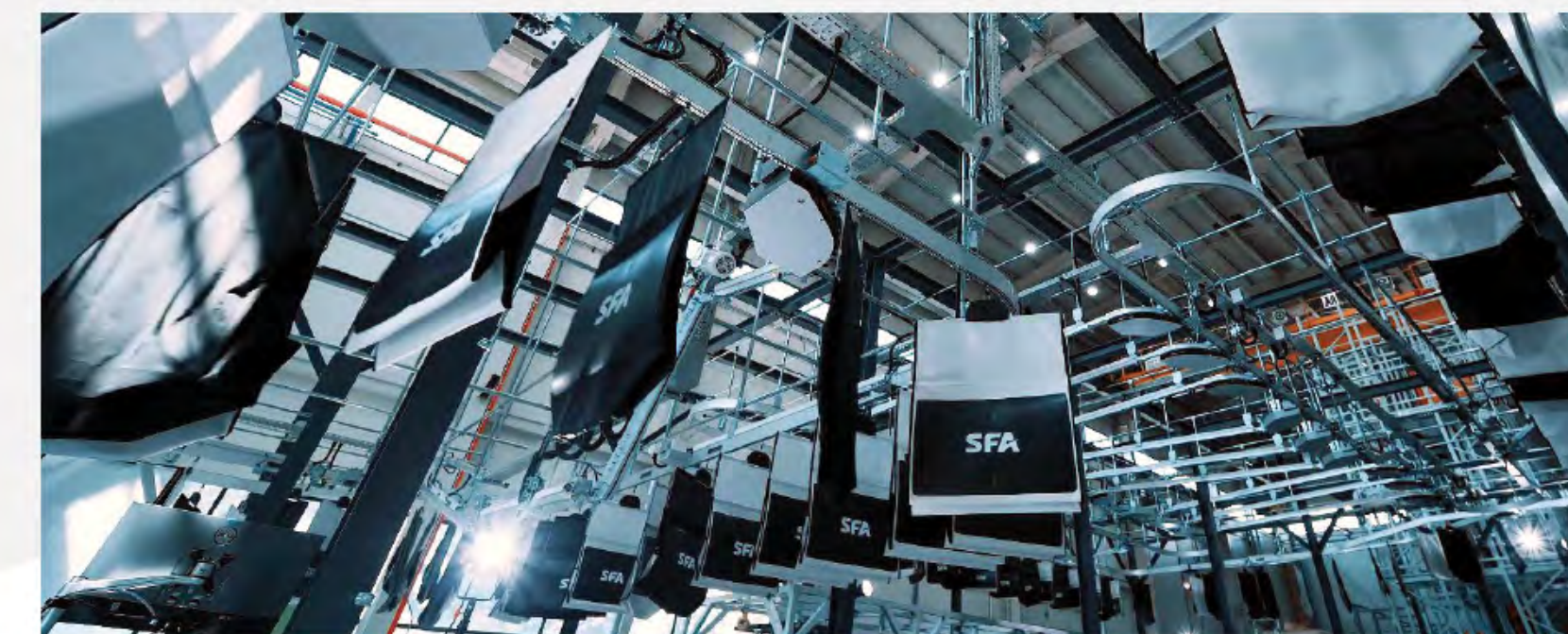
Picking System



Logistics System



Pocket Stocker



Distribution Center

Picking System



Distribution Center

Rapidly changing delivery systems require unmanned, immediacy, and ultra-low cost operations. Therefore, SFA provides unmanned systems and new concept of logistics equipment / systems that maximises operational efficiency.

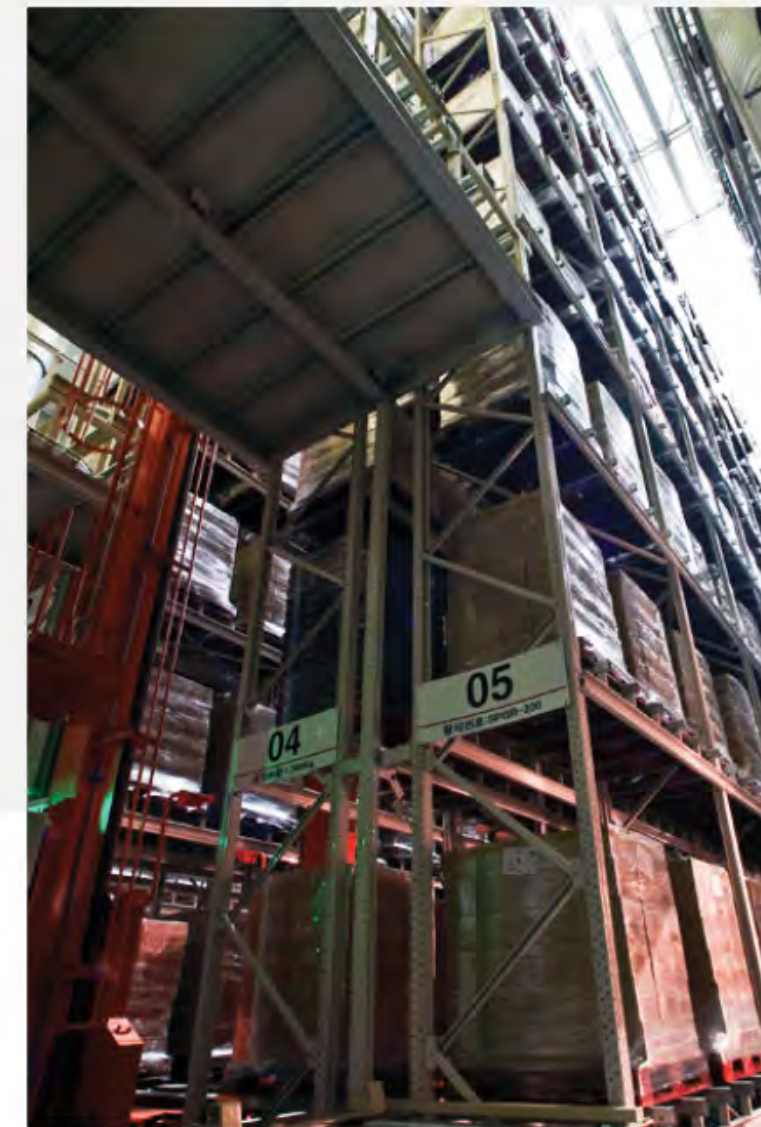
Automated Warehouse System

Automated Warehouse System

Based on leading technology and experience, SFA offers various automated warehouses such as of room temperature, cold, and heavy goods to domestic and global customers. SFA operates largest scale of full turnkey business in the coun try, from consulting to system design, production, operation, and to C/S.



Pallet/Bucket Type System



AS/RS for Cold Storage

AS/RS for Heavy Goods



AS/RS for Heavy Goods

Automation System



Staff-free Store

Factory Automation System

Mixed Robot Palletizer



Factory Automation System

SFA is continuously developing & commercialis ing various methods and types of automation systems / solutions for productivity improve ment, unmanned operation and cost reduction.



RTV

5

Special Purpose Business

Besides the general manufacturing industry, SFA is developing businesses in various fields that can expect mid & long-term growth momentum and business expansion.

SFA holds a diverse business portfolio including nuclear fusion and aerospace-related businesses with the world's renowned technology that benefits the reputation of the world's leading comprehensive equipment company.

Key to The Future Factory

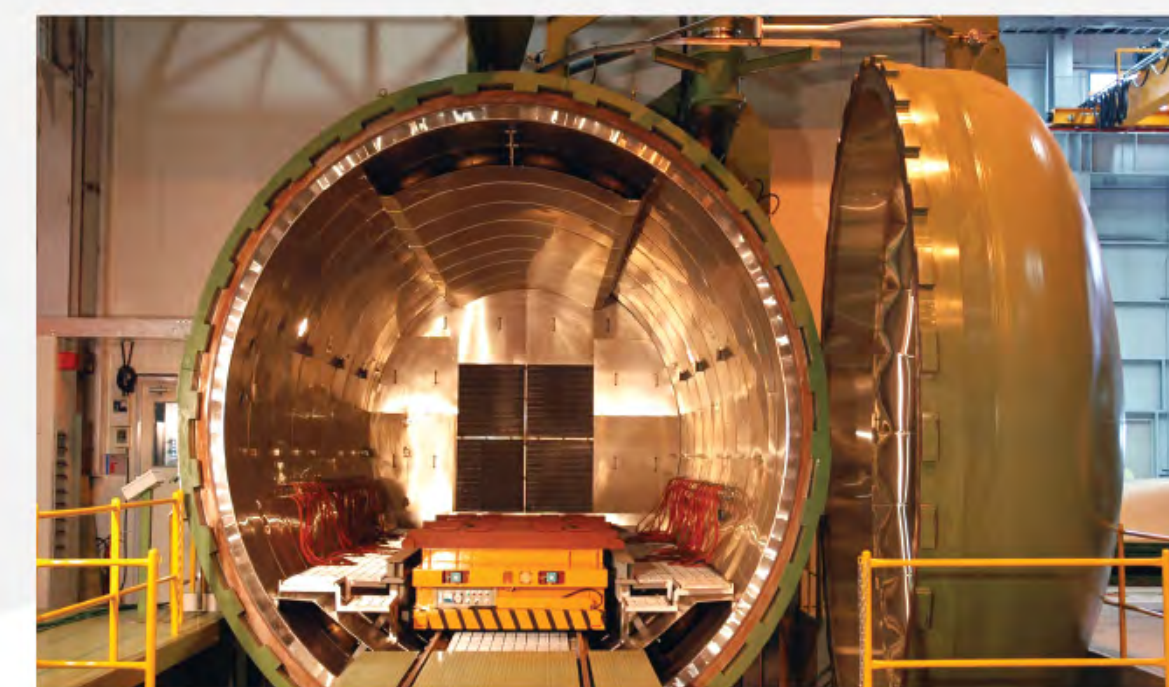
- Nuclear Fusion
- Aerospace

Nuclear Fusion Equipment(ITER pj)



Nuclear Fusion

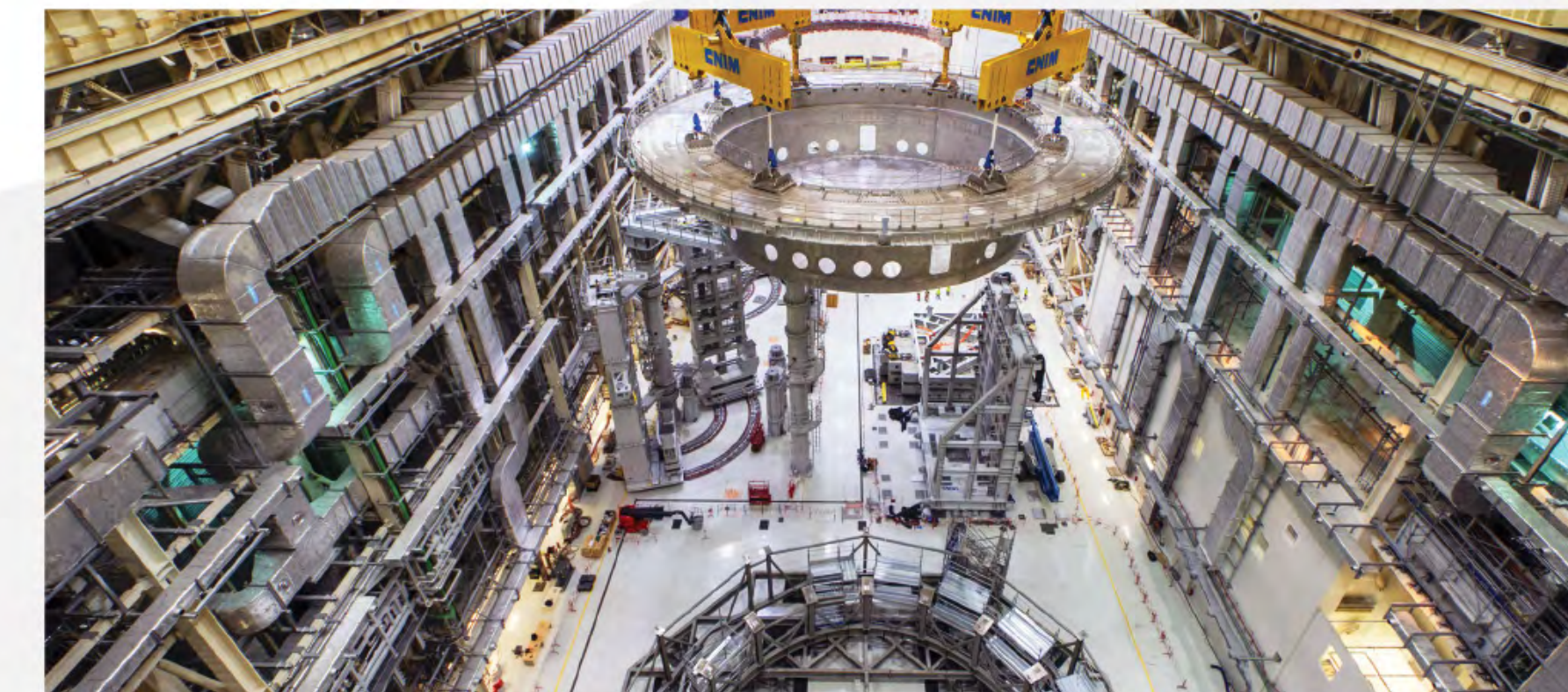
SFA is actively engaged in nuclear fusion projects, including core development in ITER PJT, the world's largest nuclear fusion system construction project.



Autoclave

Nuclear Fusion & Aerospace

Nuclear Fusion Equipment(ITER pj)



Aerospace

SFA is participating in various test environments construction PJT, used in the aerospace and aviation industries.



Accelerator

SFA Family

SFA

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• China (Suzhou) Branch

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• Vietnam Corporation

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• Hungary Corporation

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• ADM

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• SFA Service

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• SNU Precision



• Asan Headquarter

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• Taiwan Affiliate

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• SFA Semiconductor



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