SFA | NEO

Business
Brochure

Solutions
For Advancement

SFA | NEO

SFA's New Business Identity

www.sfaneo.com
www.sfa.co.kr

Solutions For Advancement

SFA

SFA, Global Smart Factory Solution Leader

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CEO MESSAGE

SFA, Global Smart Factory Solution Leader

SFA, the industry-leading high-tech equipment company in South Korea, has never stopped evolving.

In the fast changing business paradigm of almost all industries with the advent of 'Industry 4.0', SFA is investing intensively in R&D to lead Smart Factory industry.

With this, SFA is becoming one of the global leaders in providing differentiated solutions for Smart Factory automation by grafting its internalized smart technologies onto its equipment and the experience /knowledge of entire production process.

The business portfolio of SFA has also continuously evolved, pursuing tremendous growth in Display, Material Handling System for distribution /manufacturing, Semiconductor, and Secondary Battery industries.
On top of that, the more globalized business structure of the company will ensure its stable growth.

Based on its customer-oriented mindset and strong execution abilities, SFA has been providing its customers with the 'best' and 'optimal' automation solutions that perfectly meet customer needs.

Committed to offering customers competitive edges in their businesses, SFA will continue to create technological innovations to realize the true Smart Factory with 'zero downtime', 'unmanned system', and 'uninterrupted operation'.

Thank you.

SFA HISTORY

1998

- SFA Engineering Corporation was founded
  (Head office: Changwon, Gyeongnam)

2001 - 2003

- Listed on KOSDAQ
- Established Hwaseong Plant
- Established SFA Shenzhen Ltd. (China)
- Established Asan Plant

2005

- Declared the Code of Ethics

2008

- The largest shareholder was changed to DY Asset
  (now known as DY Holdings)

2011

- Relocated Head office
  (Hwaseong-si, Gyeonggi-do)
- Established the branch in Suzhou, China

2015

- Acquired STS Semiconductor Communication
  (now known as SFA Semiconductor)

2016

- Achieved KRW 1 trillion worth annual orders
- Established SFA Vietnam Co.,Ltd
- Acquired SNU Precision

2019 - 2020

- Won the grand prize (manufacturing sector) at the IT Chosun Korea Artificial Intelligence (AI) Awards
- Established SFA Engineering Hungary Kft

RESEARCH & DEVELOPMENT

Active R&D activities - the source of SFA's innovation

SFA has focused on achieving sustainable growth, satisfying customers, and leading the market as the world's best total equipment provider.

Specifically, aside from the internal business units that adapt new equipment technologies for immediate production, SFA's R&D centers are focusing on more original R&D activities for long-term growth.

In charge of developing new business and growth

R&D Center 2 is committed to developing

- **Core elements & base technologies of Smart Factory**
  - Smart AI algorithms & solutions based on machine/deep learning
  - Smart devices with high-speed data collection/analysis
  - Smart analysis solution such as PdM and Sense
  - Analysis algorithms such as advanced statistical analysis

R&D Center 1 is committed to developing

- New mid & long-term businesses
- Smart Factory businesses
- Equipment/systems for core business in advance
- Original technologies
- Front-end equipment such as evaporator, laser equipment, etc.

In charge of developing new manufacturing equipment/systems

Logistics Development Team is committed to developing

- **MH(Material Handling) and factory automation equipment/systems**
  - Logistics and distribution equipment/systems/solutions
  - Automated manufacturing equipment/solutions
  - New manufacturing equipment
- **Smart Factory for manufacturing industries**

Process Equipment Development Team is committed to developing

- **Process equipment/system for semiconductor, secondary battery, display, and other manufacturing industries**
  - Process equipment/systems
  - Front-end equipment/systems
  - New process equipment/systems
- **Smart Factory technologies for manufacturing**

Logistics Research Institute is committed to developing

- **Automation solutions for manufacturing & distribution**
  - Consulting for logistics automation
  - Designing fully-automated systems
  - Developing new equipment and concept

KEY TO THE FUTURE FACTORY

Solutions For Advancement

SFA, the global top-tier company providing a full range of manufacturing/automation equipment, has been offering innovative and fully–customized solutions/systems of Smart Factory to various customers and industries.

SFA NEO

CONTENTS

SFA | NEO

SMART

· What is Smart Factory

· Advantages

SFA's New Business Identity

FACTORY

· Key Technologies

· Portfolios

WHAT IS SMART FACTORY

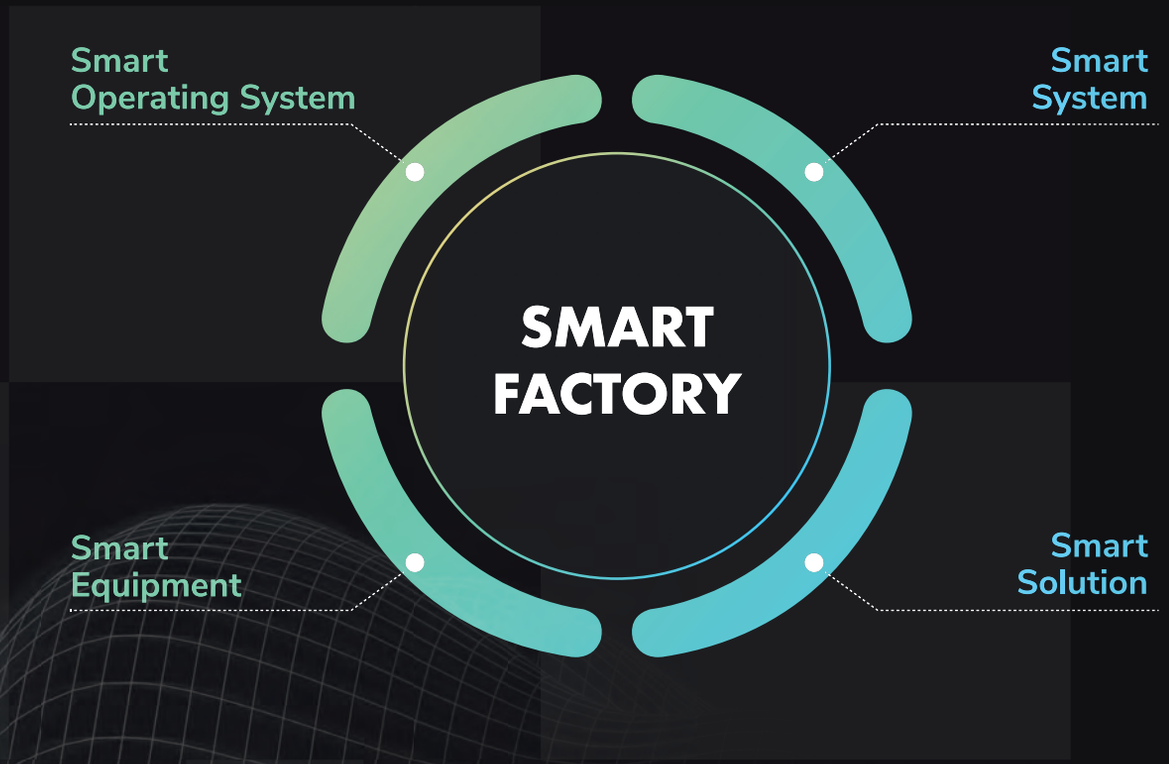
Based on various types of information and communication technologies(ICT), Smart Factory enables real-time monitoring/analysis by combining objects in all the manufacturing processes and data from the entire production line. In addition, Smart Factory is an intelligent factory of the future that can self-adept to a rapidly changing environment and autonomously run entire production, which contributes to maximizing productivity/quality and minimizing costs.

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

Core Values of Smart Factory

So far, Smart Factory has been mostly related to the smartification of production/management systems such as ERP/MES. However, in order to actualize a true Smart Factory, it is necessary to smarten up the manufacturing equipment & operation systems that can improve productivity/quality and reduce costs.

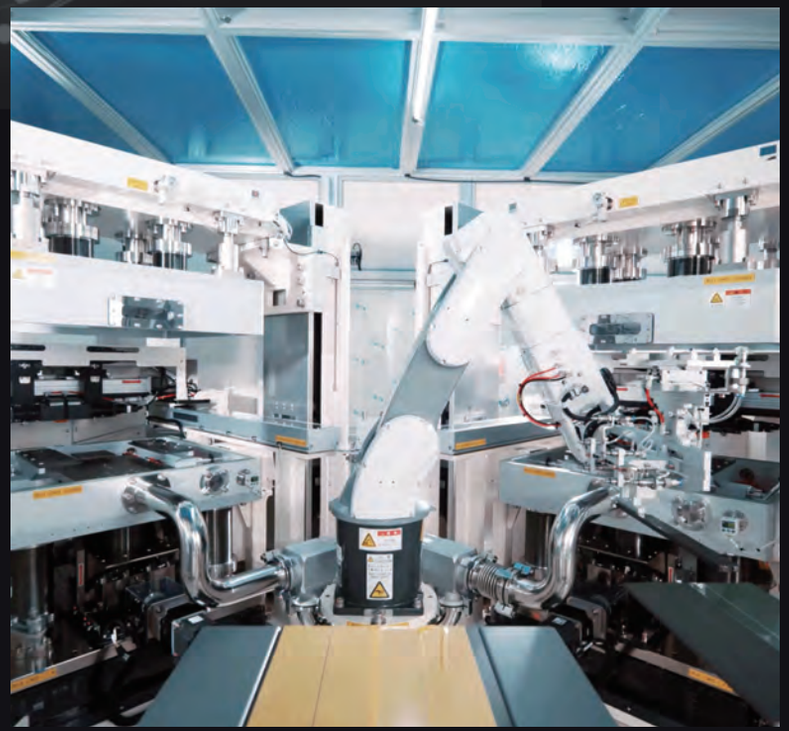
In other words, the true Smart Factory can only be realized when a range of smart functions such as 'smart operation system', smart system', smart equipment', and 'smart solution' are fully integrated.



In order to lead the rapidly changing Smart Factory industry, a company must have not only a complete understanding & extensive experience in constructing production lines but also differentiated high-intelligence solutions.

ADVANTAGES

As the world-leading total equipment company, SFA has been providing Smart Factory solutions / systems that are specifically customized for diverse customers & industries.



World-class Domain Knowledge

In an effort to maximize productivity & quality and minimize costs in the manufacturing lines, it is not only necessary to adopt technological innovation, but it is also important to have a full range of domain knowledge about equipment/systems that can only be acquired from experience and know-how accumulated for a long-time.

With its extensive on-site experience and domain knowledge about equipment/systems, SFA has been shaping a true Smart Factory in a more innovative and creative way than any other company.

Full Turnkey System

SFA offers full turnkey services that include consultation, simulation, development, production, installation, operation, and after-sales service to customers in various industries such as display, semiconductor, secondary battery, distribution & logistics, and so on.

Integration of equipment / systems / operation systems

The ability to integrate a wide range of equipment/systems in the manufacturing lines directly affects manufacturing performance such as productivity, quality, and cost. One of SFA's greatest strengths comes from diverse items and capabilities to integrate them.

SFA has proven its capabilities & performances of Smart Factory

- Won the grand prize in the manufacturing sector at the 2019 IT Chosun Korea Artificial Intelligence (AI) Awards
- has successfully delivered numerous Smart Factory & AI equipment and expanded the business in the secondary battery, semiconductor, display, and MH(Material Handling) industries

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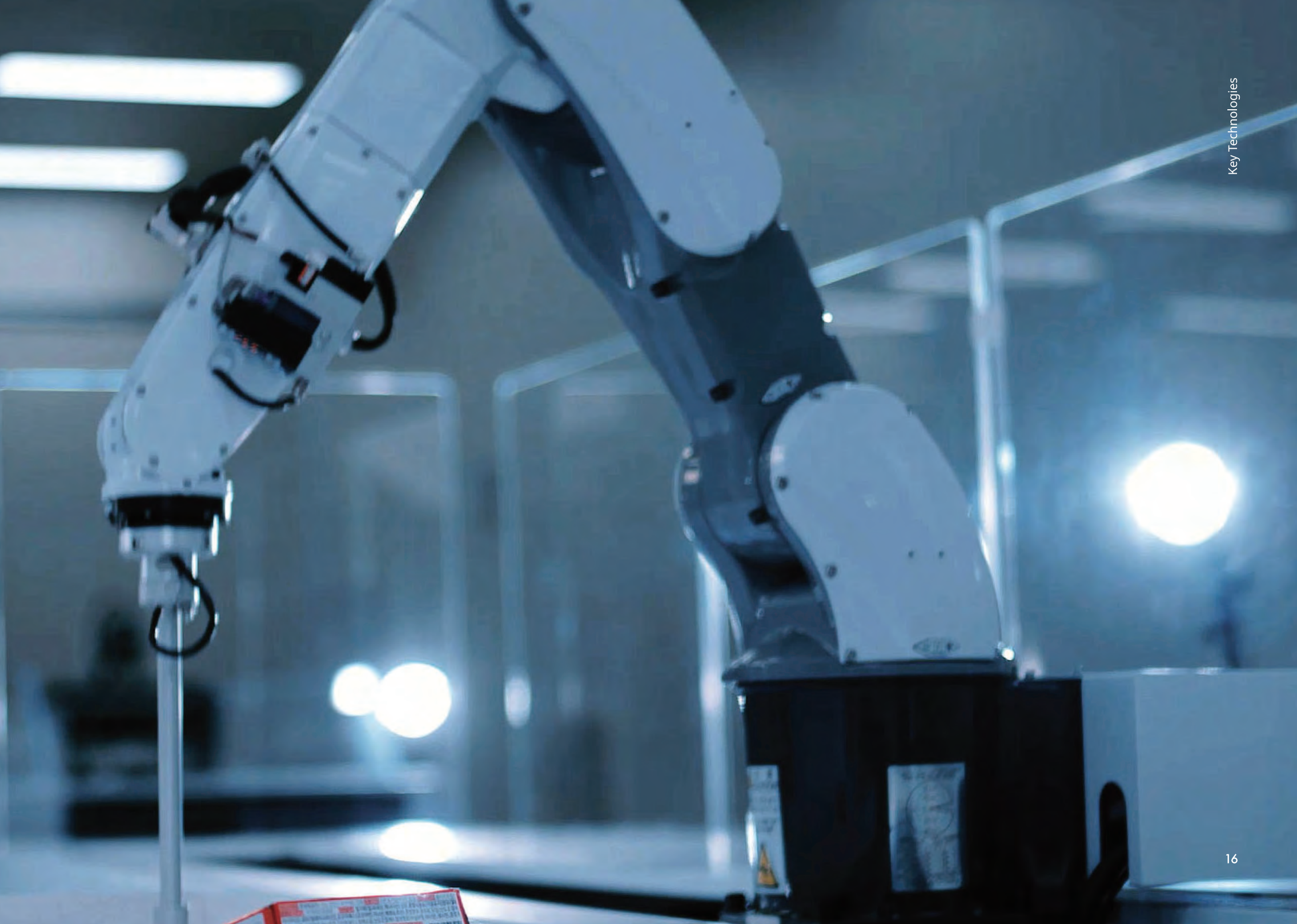
KEY TECHNOLOGIES

With its world's best domain knowledge about manufacturing and equipment, SFA has independently developed Smart Factory technologies which are 'NEO AI' and 'NEO Platform' 'NEO AI' is AI that can be applied to various industrial technologies such as image processing, and 'NEO Platform' gathers & analyzes external data and addresses challenges at manufacturing sites.



NEO AI

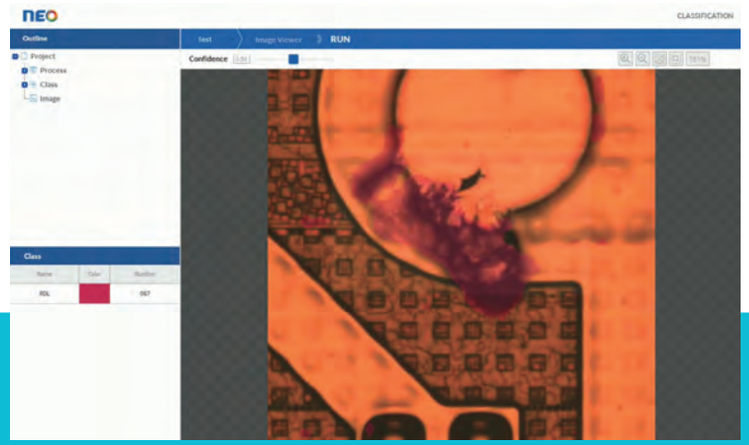
NEO AI cannot be imitated by software companies since it was basically developed based on SFA's extensive experience in building manufacturing lines and producing & operating equipment.

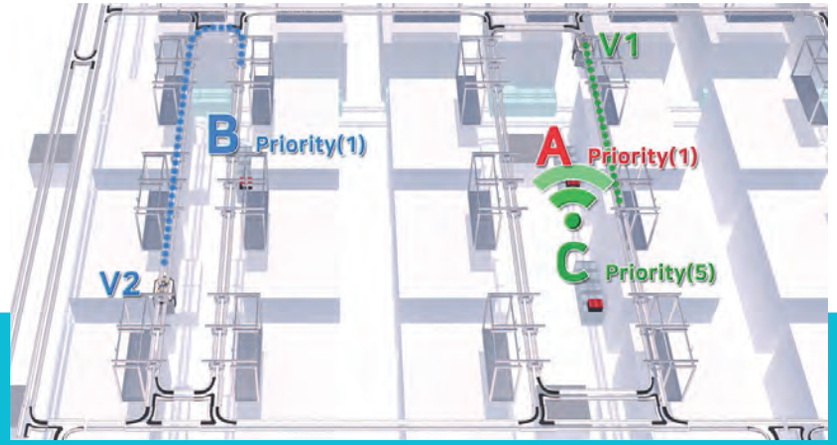
NEO AI can be broken down into the following three technologies.

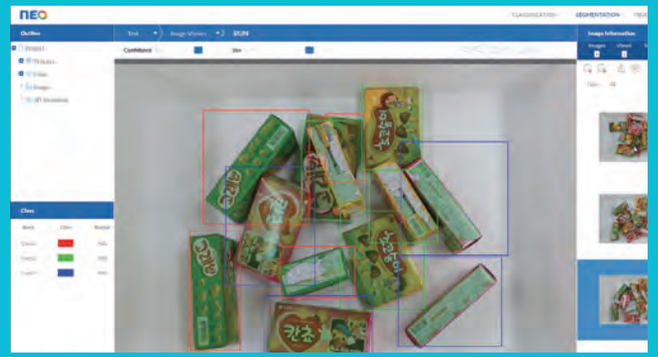
· 'NEO Imaging' can be applied to inspection/measurement machines and image/video processing, etc.

· 'NEO Route' can be utilized for autonomous driving, route optimization, etc.

· 'NEO Cube' can be adopted in space recognition and loading simulation, etc.







NEO PLATFORM

NEO Platform collects and analyzes massive volumes of data from various manufacturing equipment & operation / control / smart systems, makes decisions, and provides appropriate solutions.

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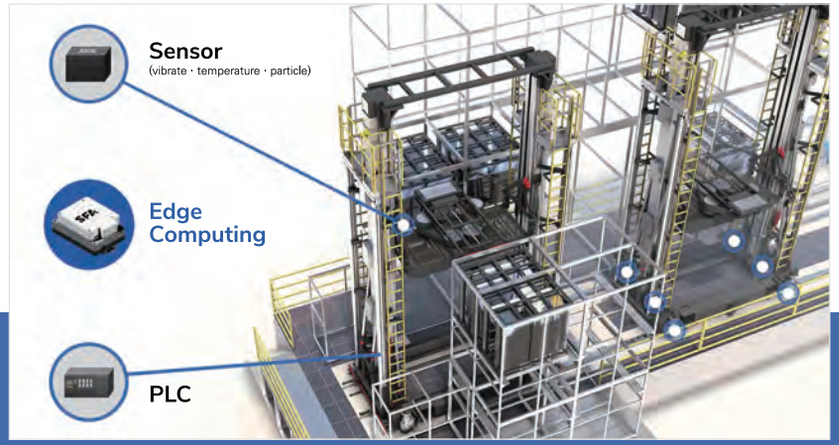


NEO AI

NEO AI Imaging

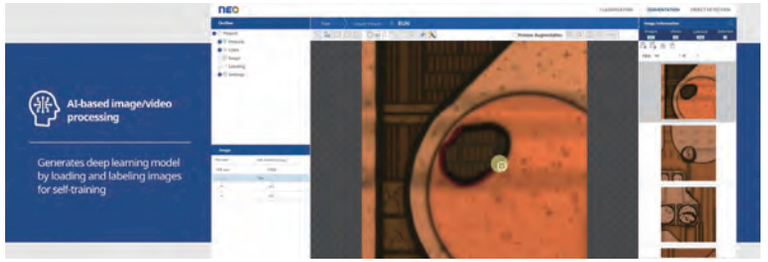
NEO AI Imaging, an intelligent image processor equipped with deep learning-based algorithms, self-learns about defect features, analyzes defects of images/videos, and makes decisions autonomously. NEO AI Imaging can be applied to a wide variety of purposes including inspection, measurement, and pre-processing & optimization of images.

Adopting SFA's deep learning-based inspection software, NEO AI provides API embedding that makes the application & operation of deep learning easier. In addition, with its revolutionary processing speed and accuracy, NEO AI is expanding its range of use for inspection & measurement in various industries.

Moreover, NEO AI is not only used in analyzing images/videos but also used in pre-processing them.

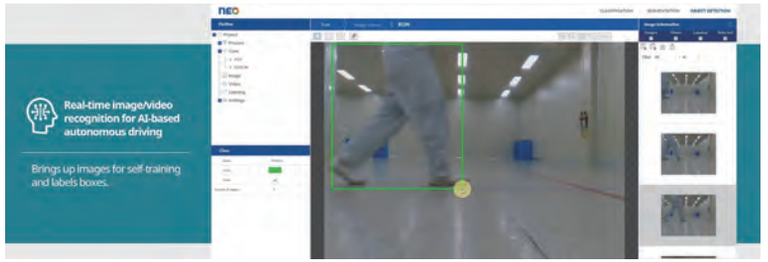
In addition, NEO AI Imaging provides the world's best autonomous picking & sorting system that can dramatically increase accuracy and extract optimal picking points by applying AI to key functions such as recognition, learning, classifying, and sorting.

1 Segmentation



2 Classification

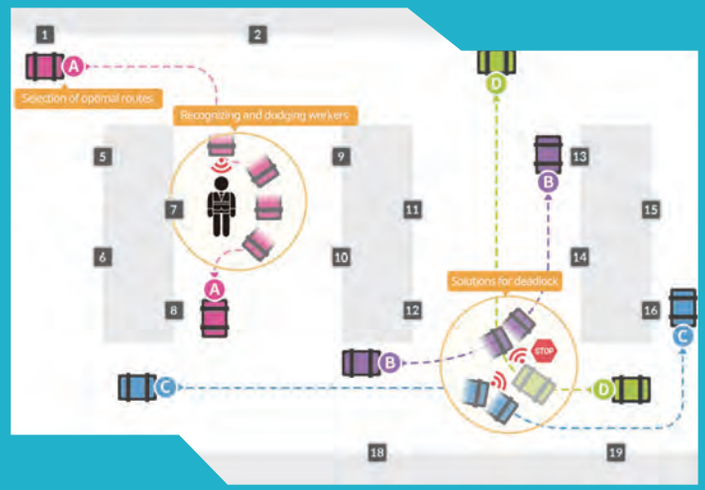
3 Object Detection



NEO AI

NEO AI Route

NEO AI Route optimizes the operation efficiency of various vehicles in the manufacturing sites by adopting not only autonomous driving that allows the vehicles to select optimal routes and dodge & detour obstacles but also vehicle movement prediction that analyzes future movements of the vehicles. NEO AI Route allows to minimize the movement and number of vehicles and to prepare optimal scenario in advance, eventually facilitating smart logistics and increased productivity.



01

Autonomous driving & dodging obstacles in real time

Even when obstacles that are not priorly-informed appear while a vehicle is moving, the built-in IoT and AI enable the vehicle to avoid obstacles and self-drive.

The vehicle can also find out optimal routes and orders for self-driving in real time. The applied smart technologies help reduce costs and secure the safety of workers by preventing materials/workers/vehicles from being damaged.

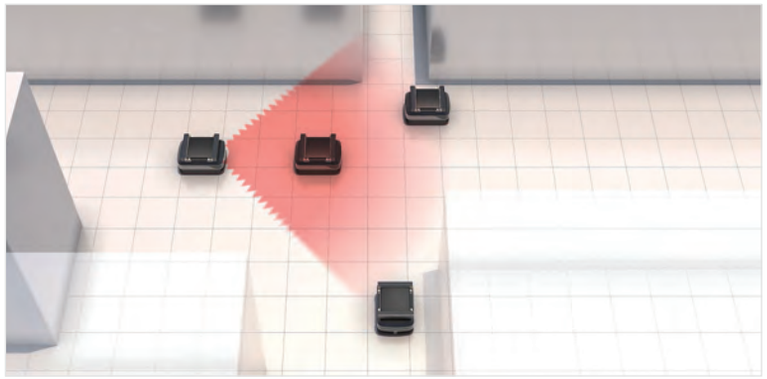
02

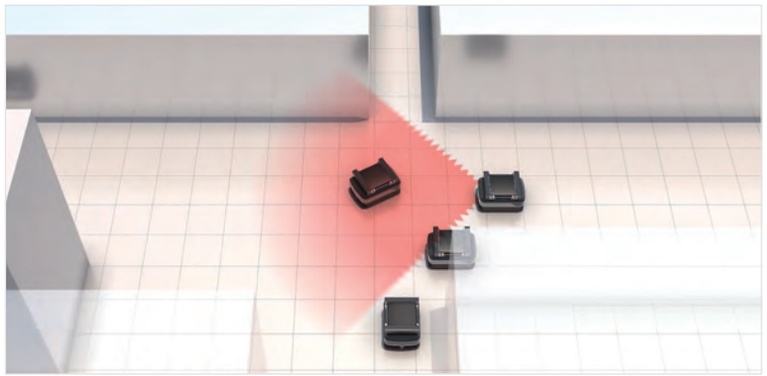
Route optimization

· Time-optimal control and operation optimization

· Searching detour routes through locating congested areas in real time

· Loss minimization and productivity improvement of self-driving vehicles

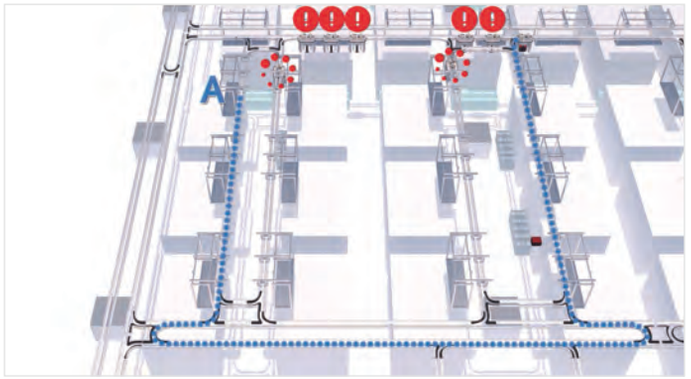


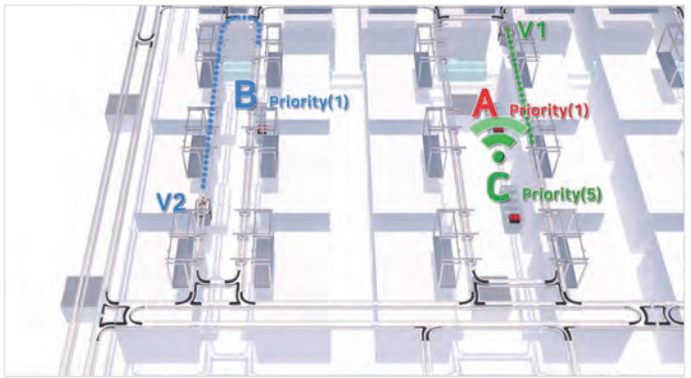


03

Congestion prediction

It minimizes congestion and optimizes the allocation & operation of vehicles by analyzing entire production processes/vehicle movements, and predicting vehicle congestion in the manufacturing lines.



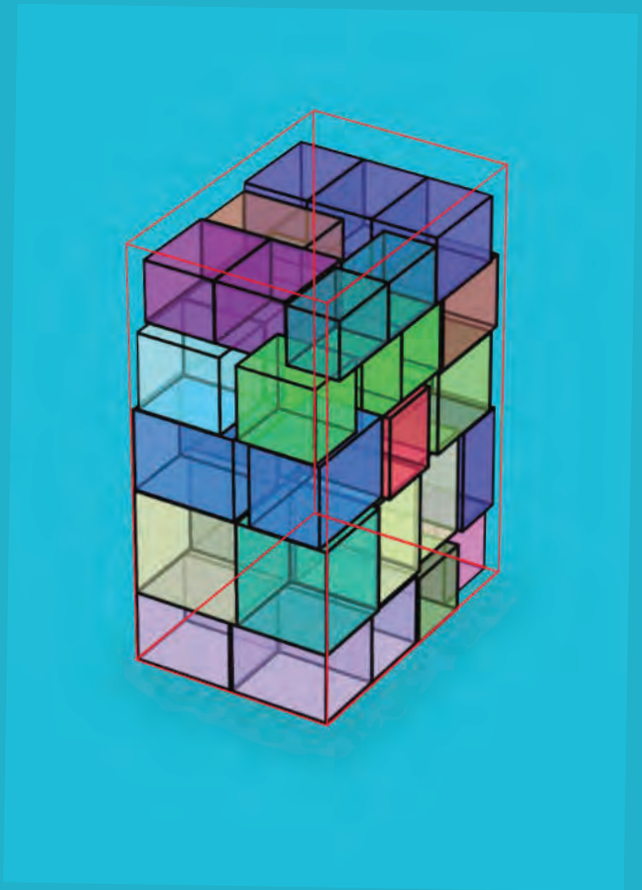


NEO AI

NEO AI Cube

This is a loading simulation solution with deep learning algorithms that recognize optimal 3D spaces through a loading sequence when transferring products on pallets.

Considering the weight & size of various products, NEO AI Cube seeks optimal sequences & spaces for the stacking /loading operations to maximize efficiency and stability.



NEO PLATFORM

NEO Platform Edge

As the next-generation edge computing system, Neo Platform Edge collects & analyzes massive data from manufacturing equipment/systems with high speed and greater accuracy.

It allows the condition monitoring for equipment/systems via real-time visualization of data gathered by diverse edge devices. Neo Platform Edge also provides analytical reports about data by means of big data/AI machine learning. Furthermore, it can function as the platform that syncs with 'NEO PdM' and 'NEO Sense'.

Real-time data collection through IoT equipment

NEO Edge is installed inside the equipment and collects data such as vibration/noise/deformation/ heat generated within key production processes per every 100ms(maximum of every 30ms). Then, NEO Edge reports the results to edge computing that is applied with big data/AI machine learning/advanced statistical analysis algorithms.

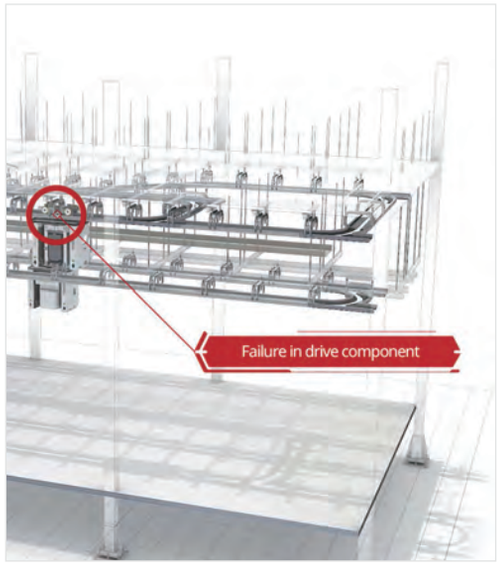
In addition, NEO Edge has no restrictions on installation due to wireless network/Bluetooth, and it collects & transmits complete data without losing any. Furthermore, it has a variety of sensor protocols and is designed in an expandable structure to provide & analyze various types of measurement data.

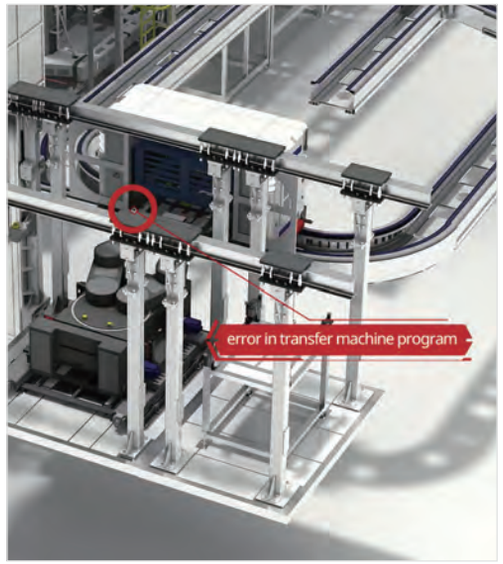
It is also used as a basic platform device for 'NEO PdM(Predictive Maintenance)', which can predict failures in equipment/systems, and 'NEO Sense', which recognizes & analyzes changes in condition such as ultra-fine vibration. Accordingly, SFA has been expanding its application to various fields.

NEO PLATFORM

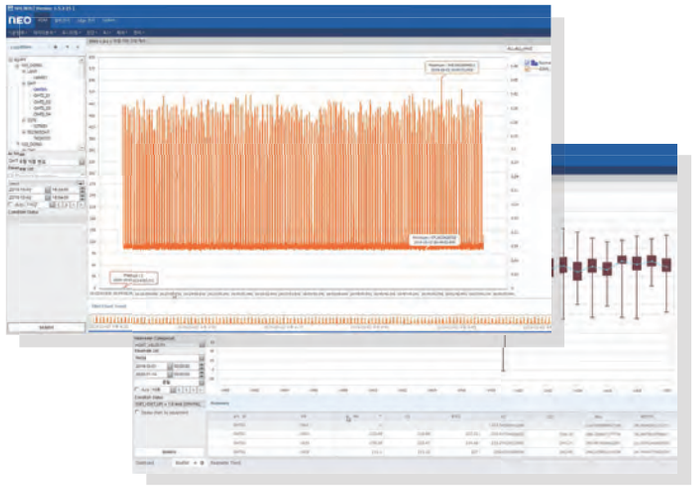
NEO Platform PdM

It allows to rapidly process a large volume of data and to model AI failure prediction based on the high-performance big data processing engine. In addition, NEO Platform PdM provides equipment with not only condition management & automatic diagnosis but also predictive maintenance & lifecycle management for components.





NEO Platform PdM provides a manufacturing environment that offers maximum productivity & efficient management by preventing sudden downtimes with equipment failure prediction. It can deal with different kinds of operations ranging from simple system, manufacturing equipment, and transportation system which requires the highest level of difficulty.



Equipment analysis model

Based on various data collected in real time, it provides a prediction model specifically designed for each equipment. It can easily to be connected with other equipment/systems as it is offered in an integrated platform.

Prognostics and condition monitoring

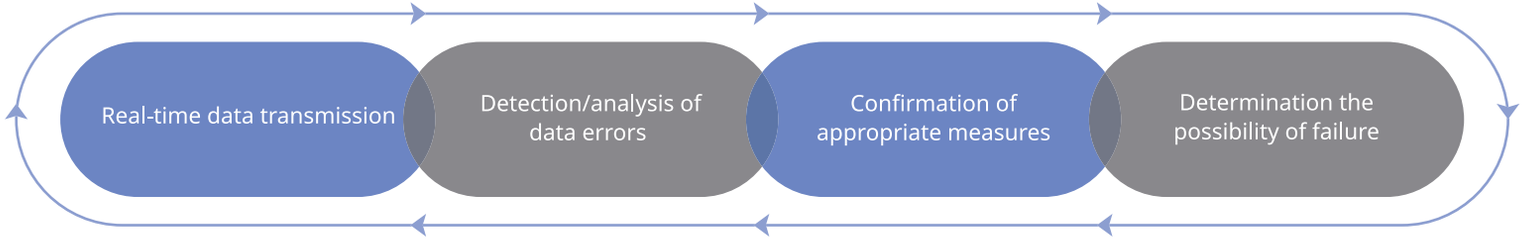
NEO Platform PdM provides a range of prognostics and condition monitoring such as SPC, RUL, and ML for each equipment.

Statistics and warning standard based on big data analysis

Through algorithms customized for specific equipment /systems, NEO Platform PdM provides diverse statistics about equipment / system condition in the form of warning standard / monitoring / report.

PdM (Predictive Maintenance)

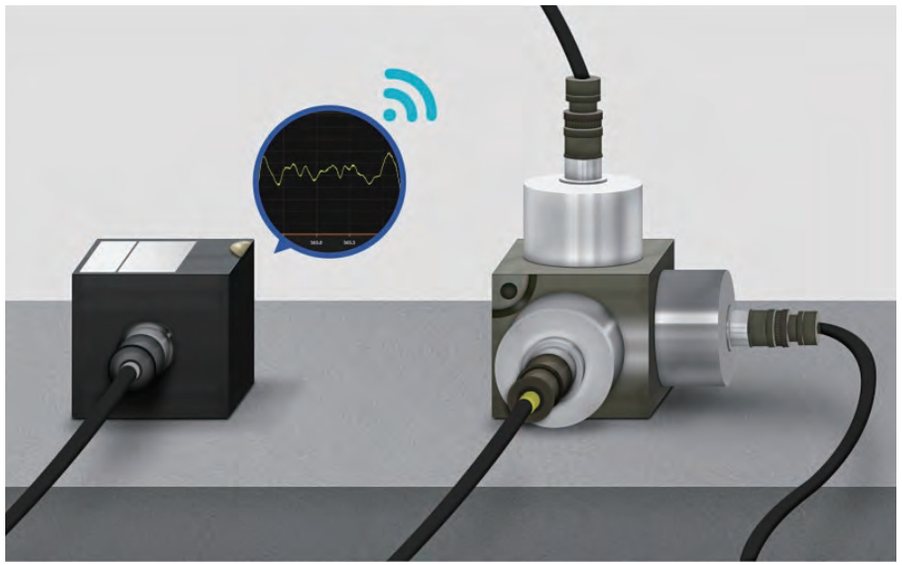
- ☑ Time prediction for maintenance/repair
- ☑ Optimal use of components
- ☑ Downtime minimization
- ☑ Maximization of productivity/operation efficiency



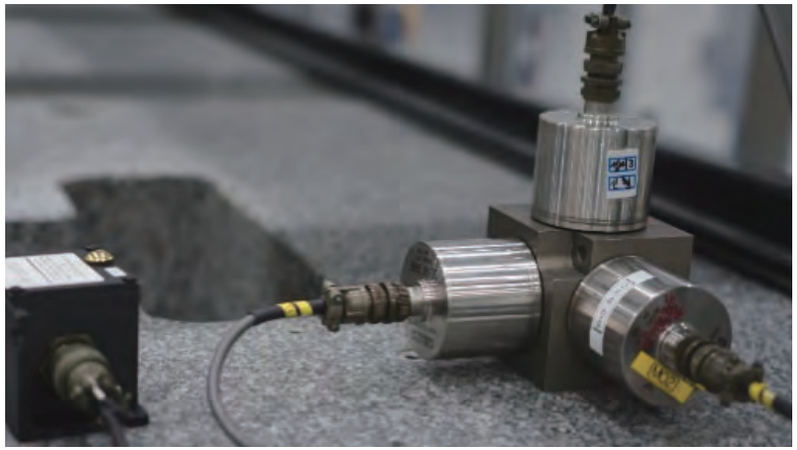
NEO PLATFORM

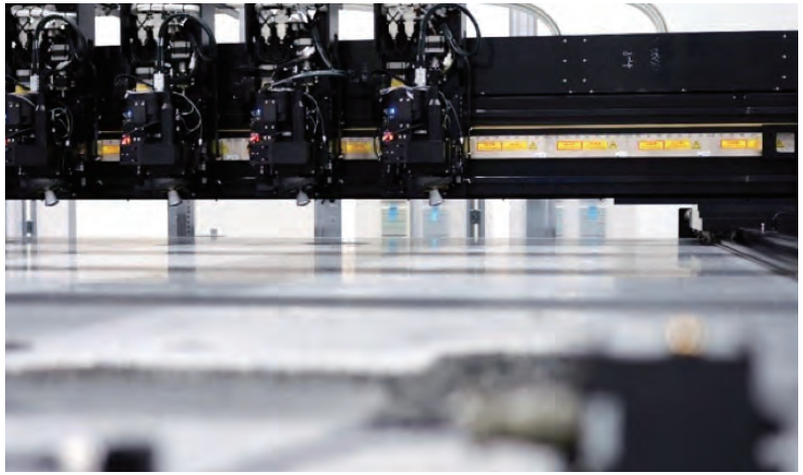
NEO Platform Sense

NEO Platform Sense measures, revises, and improves fine-grained data generated within systems and manufacturing processes in real time.
It supports various protocols(Serial, TCP/UDP, SECS/GEM, etc.) and provides high-resolution visualization of the data.



It also supports the Proxy Relay method which allows remote monitoring of real-time data. NEO Platform Sense transmits real-time data required for quality control of high-resolution inspection machines & ultra-fine process equipment, and allows real-time monitoring & control.





BUSINESS IDENTIES

NEO Key Techs

NEO AI

AI Imaging
Solution specialized for videos/images

AI Route
Solution for suggesting optimal route

AI Cube
Simulation software for optimal loading

NEO Platform

PLATFORM Edge
Solution for collecting & streamlining real-time data

PLATFORM PdM
Solution for monitoring real-time condition of equipment and predicting equipment failure

PLATFORM Sense
Solution for detecting atypical and fine-grained data

SFA | NEO

PORTFOLIOS

Neo is SFA engineering's Smart Factory solution brand, composed of 7 different key business lines. In the name of NEO, the company has been integrating its existing/new businesses with smart technologies and providing world-class smart equipment/solutions. To further enhance NEO, SFA will continue to expand its smart business portfolio.

NEO Inspect

It is the AI-based inspection system developed by combining a rule-based inspection method and AI technologies such as deep learning. Equipped with SFA's differentiated optical system, NEO Inspect improved inspection capability significantly and is now actively expanding its presence in various industries including secondary battery.

NEO Move

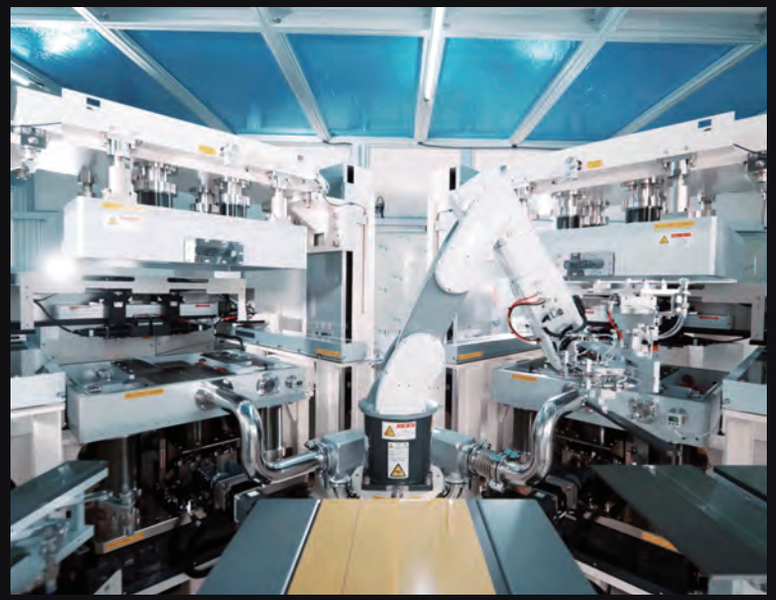
NEO Move represents a group of transport & sorting equipment such as C/V, AGV, OHT, and Sorter. With the application of AI-based autonomous driving & innovative logistics solutions, NEO Move improves logistics productivity, minimizes costs, and optimizes operation/management.

NEO Pick

NEO Pick represents SFA's business unit specializing in automated picking systems for loading & sorting items. By applying AI that can fully automate the task of picking items, NEO Pick allows customers to minimize human errors, to achieve uninterrupted operation, and improve productivity. When equipped with vehicles, its use and efficiency can be much more extensive.

NEO Place

This business line includes storage and loading equipment such as Stocker /MSC and the solutions such as Predictive Maintenance(PdM) /efficiency improvement systems, all of which facilitate the implementation of Smart Factory.



NEO Precision

NEO Precision consists of core process equipment that performs manufacturing processes where products get produced from raw materials and semi-finished products in secondary battery, display, semiconductor, etc. industries. Furthermore, the application of the PdM and quality control system stabilizes equipment operation, enhances productivity, and reduces costs.

NEO Measure

Comprised of diverse measurement equipment equipped with AI-based image pre-processing, NEO Measure has been adopted in many industries including display, semiconductor, and so on. Besides, with the application of AI that analyzes constraints of the measurement environment and provides solutions, NEO Measure dramatically increased the measurement accuracy and stability.

NEO Logis

NEO Logis integrates the management of logistics(automated warehouse, distribution center, etc.) equipment/systems/operation. In particular, NEO Logis, with the application of AI solution that only SFA can provide, maximizes logistics productivity and stability.

BUSINESS IDENTIES

NEO Portfolios

Inspect
Smart inspection equipment

Move
Smart transport vehicles

Pick
Smart picking equipment

Place
Intelligent transport & sorting equipment

Precision
Smart process equipment

Measure
Smart measurement equipment

Logis
Integrated operation & control system for distribution centers

SFA BUSINESS

· Secondary Battery

· Special Purpose Business

· MH(Material Handling)

PORTFOLIO

· Display

· Semiconductor

1

Secondary Battery

In its secondary battery business, SFA provides a diverse product portfolio that includes logistics equipment for material storage & electrode/assembly/formation processes and inspection/ measure ment equipment.

SFA delivers the best productivity/quality/stability to customers via the applications of smart technologies such as AI/autonomous driving/integrated operation system/PdM.

Logistics System

· High Performance Stacker Crane

· OHT

· AGV(autonomous)

· Bucket AS/RS

· C/V

Process Equipment

· Stacking Equipment

· Degassing Equipment(Pouch Cell)

Inspection Equipment

· AI AOI System

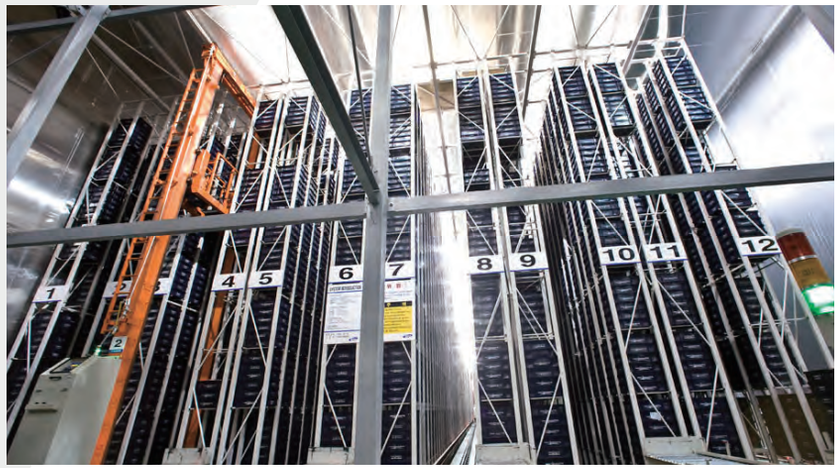
· CT Inspection System

· Stack Measurement System

Logistics System

MSC

Bucket AS/RS



OHT

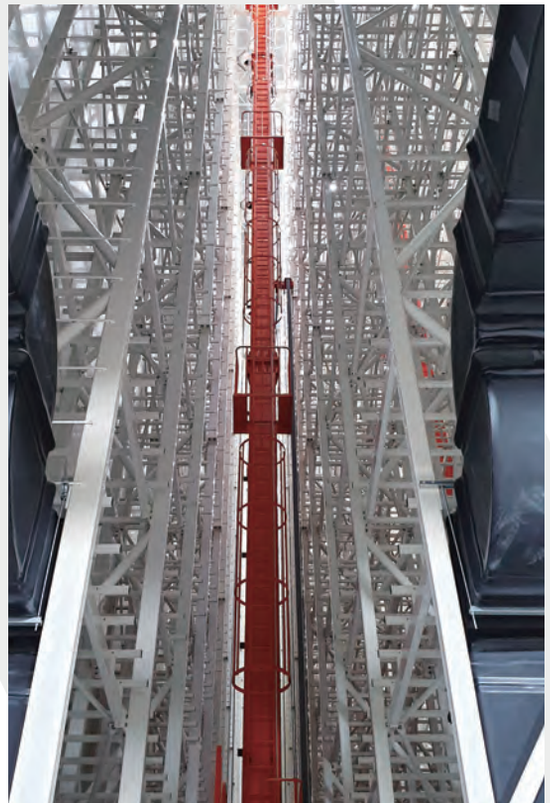
Logistics System

Based on its proven capabilities in the display industry, SFA provides a variety of logistics equip ment/systems required for secondary battery production which consists of electrode, assembly, and formation processes.

AGV(autonomous)

AGV(autonomous)

Stacker Crane



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

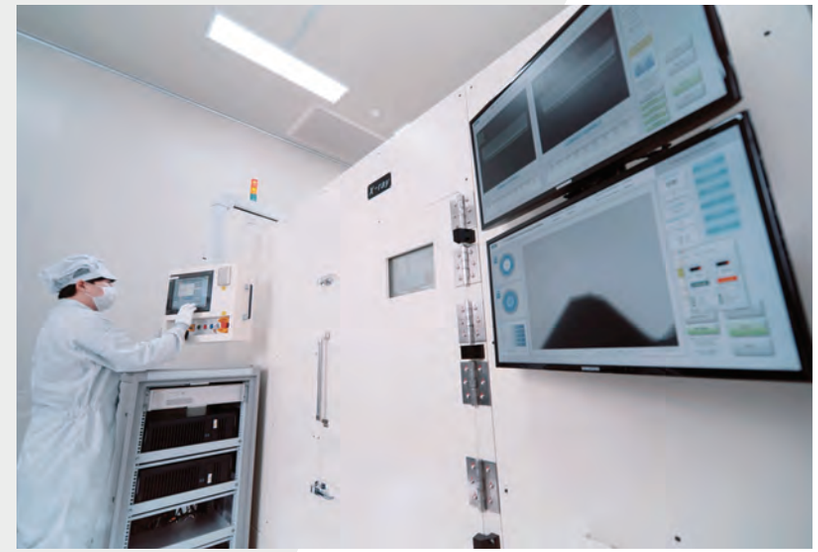
Inspect / Measure Equipment

Inspect / Measure Equipment

The application of its world-class technologies such as NEO AI Inspect and NEO Sense enabled inspection/measurement equipment to signifi cantly improve detection capability and secure a stable measurement environment. SFA provides this advanced equipment to customers at home and overseas.

AI AOI System

CT Inspection System



AI AOI System

2

Material Handling

SFA has offered diverse values for customers in its material handling business by applying Smart Factory technologies for distribution centers/automated warehouses/factory automation.

The company continues to develop and commercialize innovative equipment/systems that meet customers' core needs.

Distribution Center

- Cross Belt Sorter
- Pocket Sorter
- On-line Distribution Center
- High Performance Stacker Crane
- Logistics System
- Picking System
- Delivery Distribution Center

Automated Warehouse System

- Pallet/Bucket Type System
- AS/RS for Cold Storage
- AS/RS for Heavy Goods

Factory Automation System

- Mixed Robot Palletizer
- Automation System
- Staff-free Store
- RTV

Distribution Center

Picking System

Cross Belt Sorter

Distribution Center

Fast-changing delivery systems require unmanned, immediate, and ultra-low-cost operations. Therefore, SFA provides unmanned systems and new logistics equipment /systems that maximize operational efficiency.

Picking System

Pocket Sorter

Logistics System

Automated Warehouse System

AS/RS for Cold Storage

Pallet/Bucket Type System

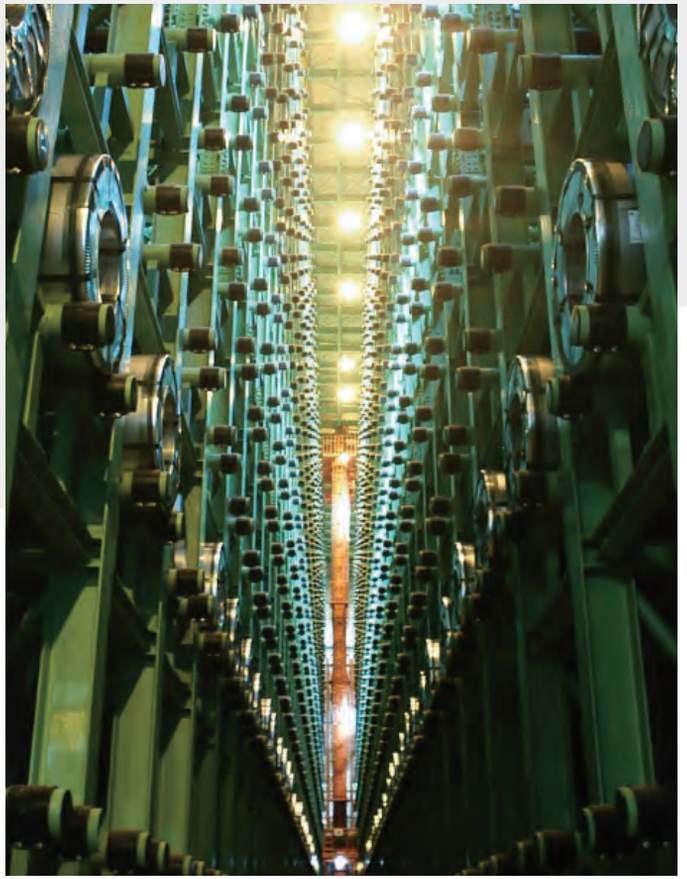
Pallet/Bucket Type System

AS/RS for Heavy Goods

Automated Warehouse System

Based on its world-class technologies and experi ences, SFA offers a wide range of automated ware houses for refrigerated/frozen/heavy goods. The company is capable of providing a turnkey solution that covers from consulting, system design, production, operation, and after-sales service on the largest scale in the country.

AS/RS for Heavy Goods



Factory Automation System

Automation System

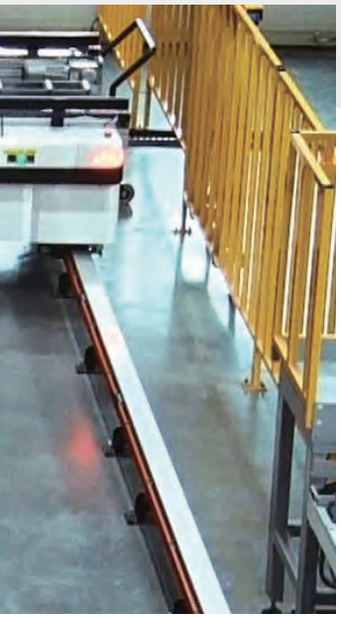
Mixed Robot Palletizer

RTV

Factory Automation System

SFA has been continuously developing & commercializing various types of automation systems/solutions for improving productivity, operating unmanned lines, and reducing costs.

Automation System



Mixed Robot Palletizer

3

Display

SFA has provided top-notch logistics equipment/systems to customers in the global display industries that include CRT, PDP, LCD, and OLED.

SFA offers consulting & designing of the entire production line and a variety of products such as clean logistics system/module equipment/front-end equipment.

In addition, SFA will ensure the highest level of quality and productivity by means of smart technologies.

Clean Logistics System

- Stocker
- Index
- Clean Lifter
- OHS
- OHT
- AGV/LGV
- EMS
- Glass Loader

Front-end Equipment

- Evaporator
- Vacuum Laser Equipment
- Inkjet Printer
- Imprinter

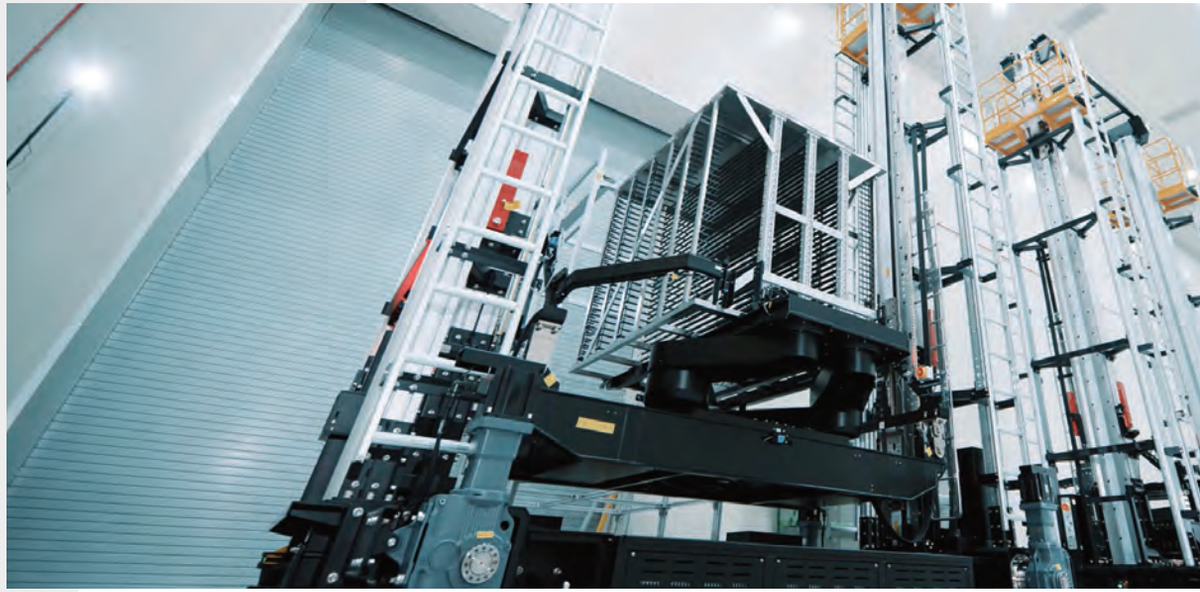
Module Equipment

- Polarized Film Laminator
- Bonder(OLB, PCB)
- Vacuum Laminator
- Film cutter
- Roll Laminator(TV, Monitor)
- Film Peeler
- Roll Laminator(Mobile, Tablet)
- Scriber
- Edge Grinder
- Inspection machine
- Cleaning Equipment

Clean Logistics System

Stocker

Stocker



Clean Logistics System

SFA has delivered full turnkey solutions which range from basic logistics equipment/systems to the ones that require extensive on-site experience.

In particular, application of the smart technologies, 'NEO AI Route' & 'NEO PdM', enables optimal production and operation.

OHT

OHS

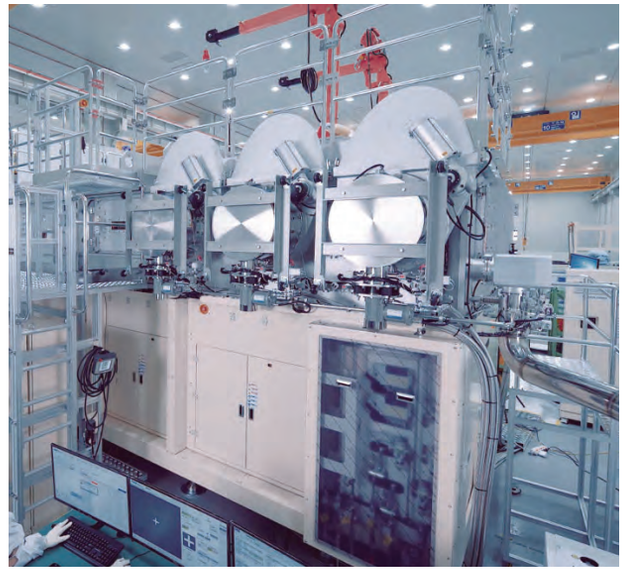
OHT

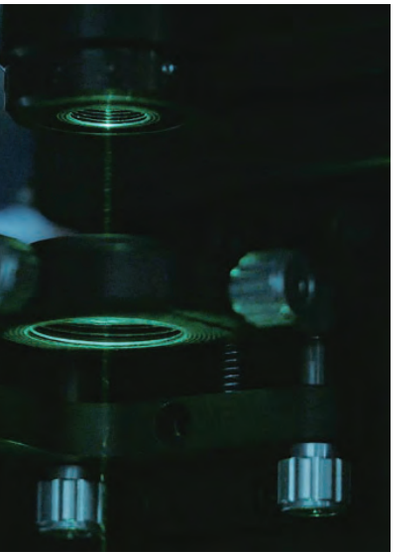
Front-End Equipment

Deposition

Vacuum Laser Equipment

Vacuum Laser Equipment





Front-End Equipment

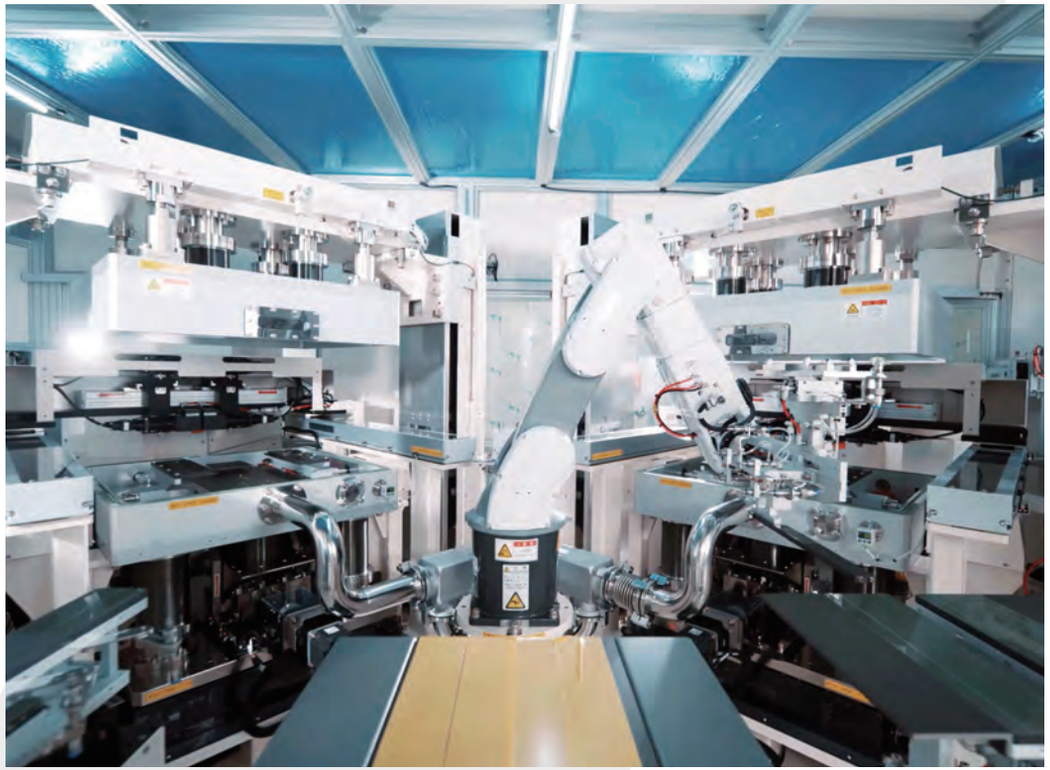
SFA is actively developing the core front-end equipment including evaporator & laser equipment and is providing equipment / systems with advanced technology & productivity.

Inkjet Printer

Imprinter

Module Equipment

Laminator



Laminator

Laminator

Inspection/Measurement Equipment

Inspection/Measurement Equipment

Module Equipment

SFA provides diverse types of laminators which are considered as one of the core process equipment for OLED manufacturing and the company holds a range of advanced inspection/measurement technologies for module process in display panel production.

4

Semiconductor

SFA delivers various types of clean logistics & test equipment for front-end/back-end/test processes in manufacturing semiconductors.

In order to maximize production efficiency & create new values for customers, SFA is expanding the application of its own smart functions such as NEO Route and NEO PdM.

Key to The Future Factory

Clean Equipment

· OHT

· Stocker

· Interlayer Lifter

· N_2 Stocker

· Clean Module C/V

· AGV(autonomous)

Test Equipment

· Application Test

Clean Logistics System

Clean Logistics System

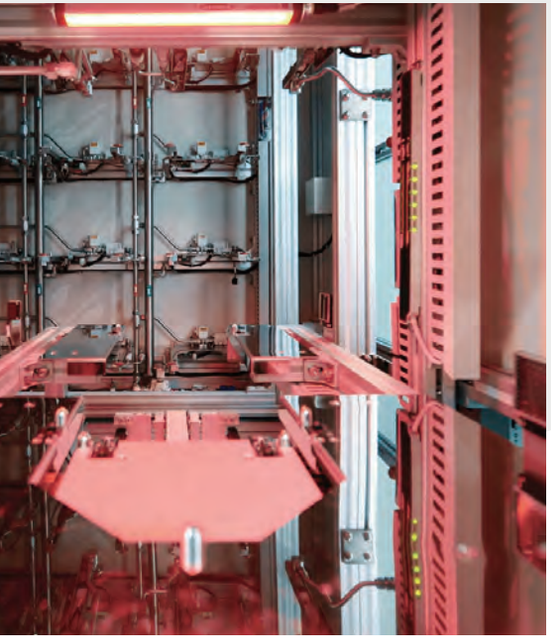
Given that the stability of logistics is critical in manufacturing semiconductors, SFA not only offers the highest quality logistics but also provides optimal production environments & operational competitiveness to customers through the applications of 'NEO AI Route' and 'NEO PdM'.

OHT

N_2 Stocker

Interlayer Lifter

Interlayer Lifter

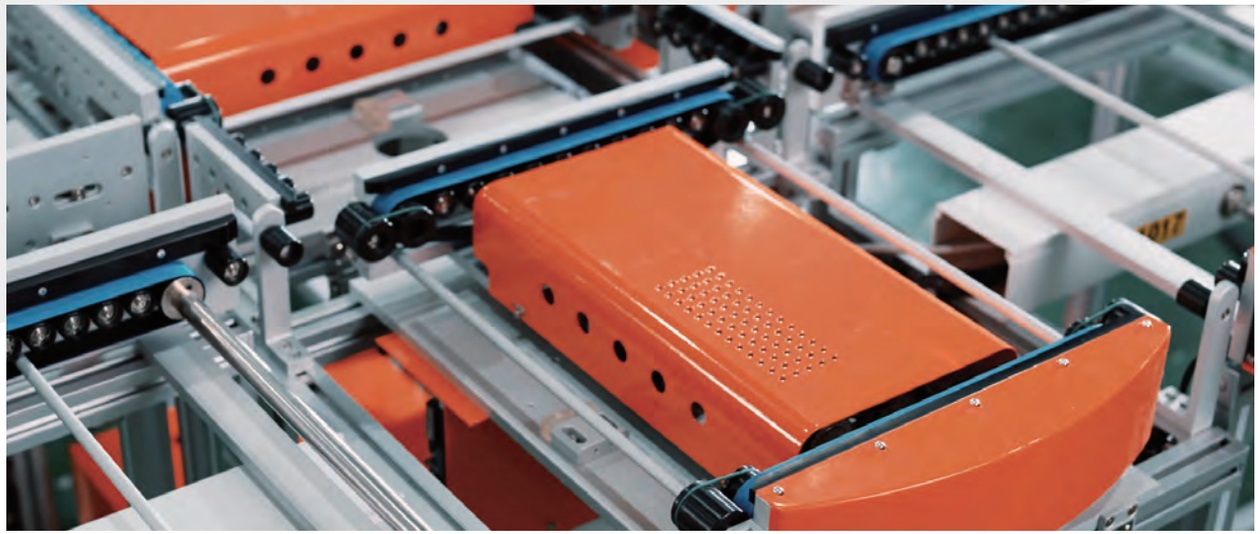


N_2 Stocker

Clean Module C/V

Clean Module C/V

Clean Logistics System



AGV(autonomous)

Clean Logistics System

Furthermore, SFA has been developing and commercializing new logistics equipment /systems with improved productivity & operational stability.

Stocker

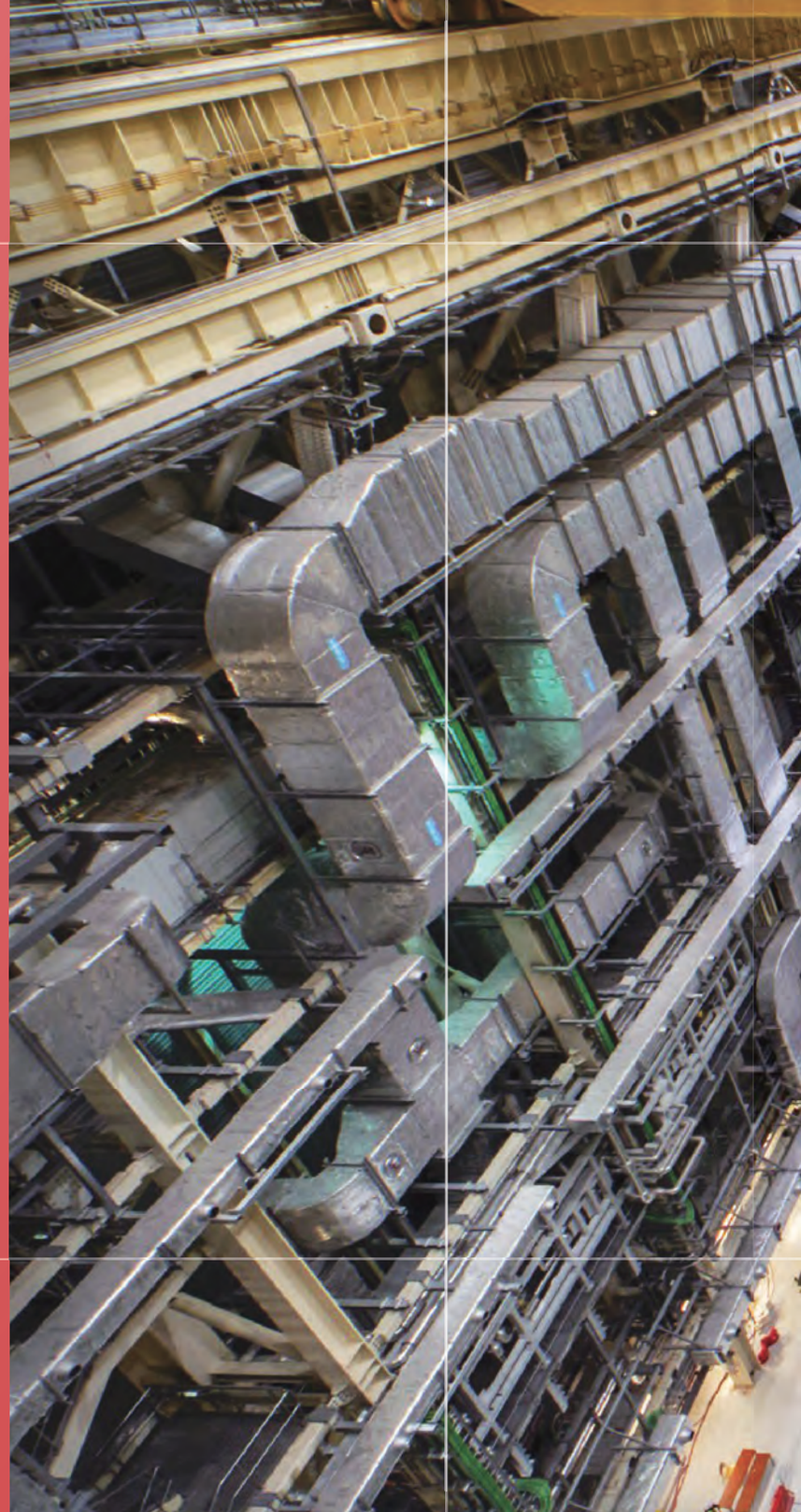
Stocker

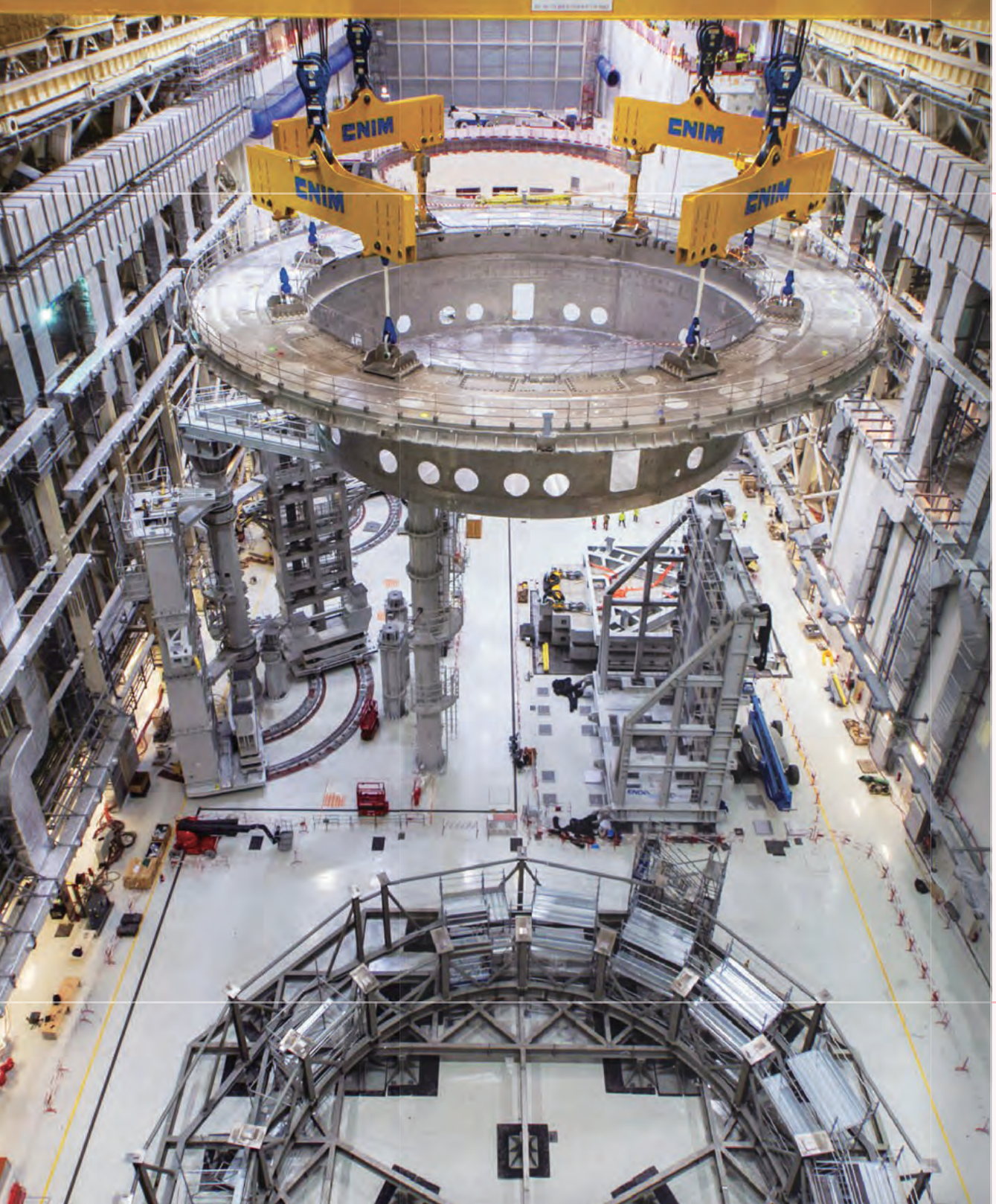
5

Special Purpose Business

In addition to the manufacturing industry in general, SFA is expanding businesses in various industries to consolidate its long-term growth.

SFA, with its renowned technological capa bilities & reputation as the world-leading equipment company, holds a diversified business portfolio that includes nuclear fusion and aerospace businesses.





Nuclear Fusion

· Nuclear Fusion Equipment(ITER pjt)

· Accelerator

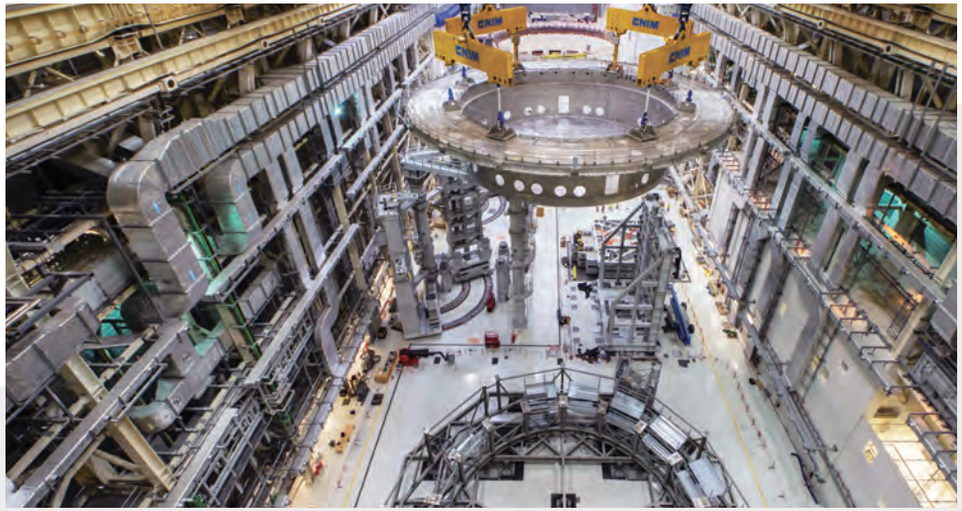
Aerospace

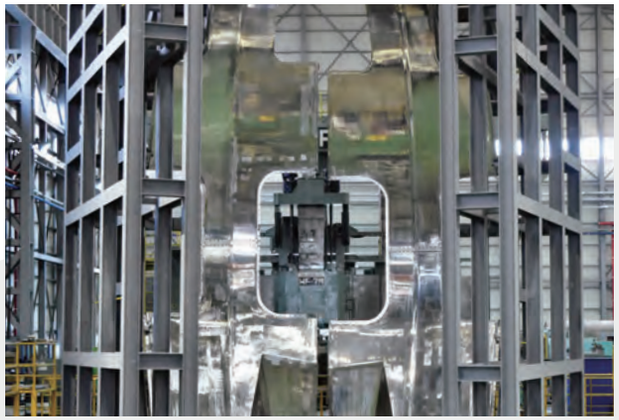
· Autoclave

· Large Thermal Chamber

Nuclear Fusion

Nuclear Fusion Equipment(ITER pjt)





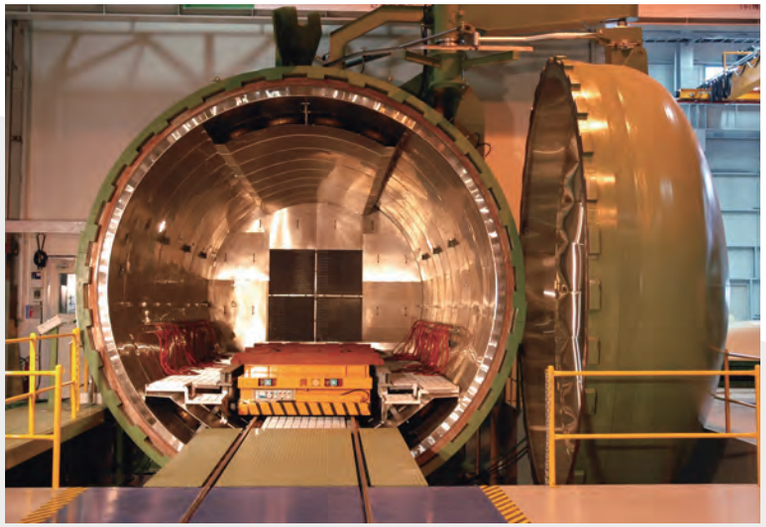
Nuclear Fusion Equipment(ITER pjt)

Accelerator

Nuclear Fusion

SFA is actively engaged in nuclear fusion projects, including the ITER project which constructs the world's largest nuclear fusion system.

Aerospace



Autoclave

Aerospace

SFA is participating in various projects that construct testing environments for the aero space and aviation industries.

Large Thermal Chamber

Autoclave

SFA Family

SFA

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