

# Company Information

---

NITTOKU CO., LTD.  
NITTOKU株式会社



# Profile

Establishment	September 28, 1972
Stated Capital	6,884,928,042 yen
Representative	President (CEO) : Sumito Sasazawa
Employee	Approximately 500 (Consolidated: approximately 1,180)
Principal Office	2-292-1, Azuma-cho, Omiya-ku, Saitama City, Saitama
Factory	<ul style="list-style-type: none"> <li> Fukushima Factory (winding machine development, production)</li> <li> Nagasaki Factory (FA development, production)</li> <li> Shenzhen Factory (winding machine, peripheral equipment production, service)</li> <li> Suzhou Factory (winding machine, peripheral equipment production)</li> <li> European Factory (winding machine, peripheral equipment production)</li> </ul> <p>NITTOKU SINGAPORE PTE. LTD.  NITTOKU (THAILAND) CO., LTD.  NITTOKU ENGINEERING VIETNAM CO., LTD.  NITTOKU PHILIPPINES, INC.</p>
Business Details	Development, manufacturing and sale of automatic winding machines and parts.

### Management Philosophy

From a global point of view

Give shape to customer's expectations

Provide cutting-edge technology

Contribute to society through innovation

### Action Guidelines

Concentration and distribution

Challenge towards worthy creation

Despite its small structure,  
NITTOKU is a reputed brand name world wide

### Quality Policy

Value added creation  
for complete customer satisfaction

Increase customer satisfaction through value

Continuous organization and management improvement

Transparent management policy

### Environment Policy

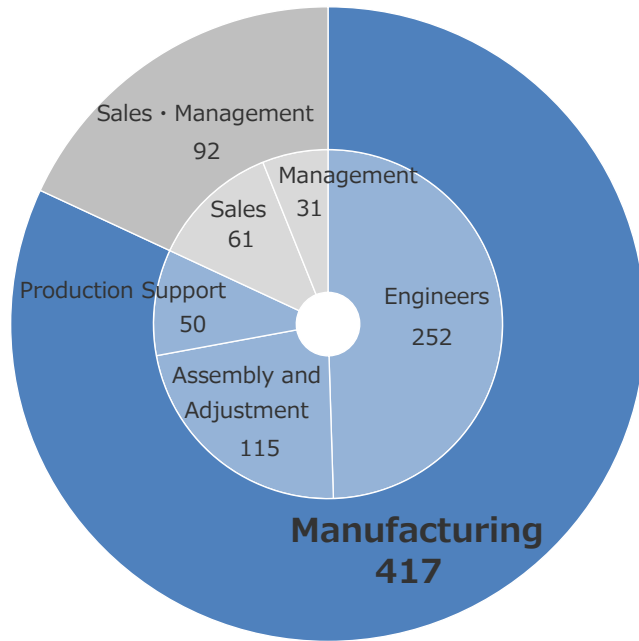
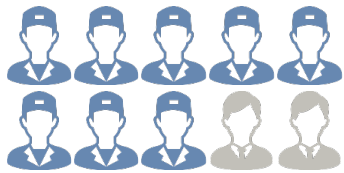
Committed to promoting a recycling-oriented society and  
coexistence with the global environment.

# Employees (non-consolidated)

As of April , 2024

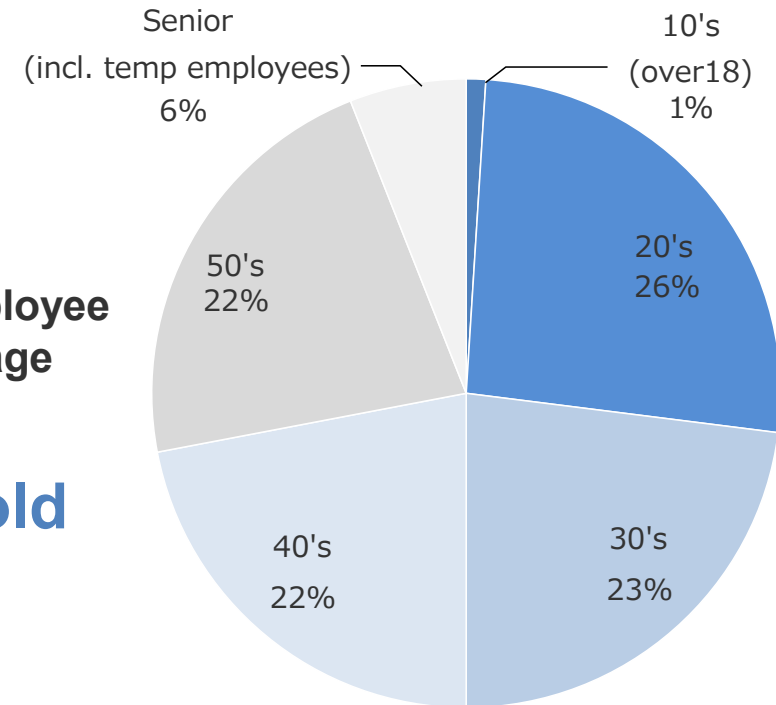
## Production Section

82%



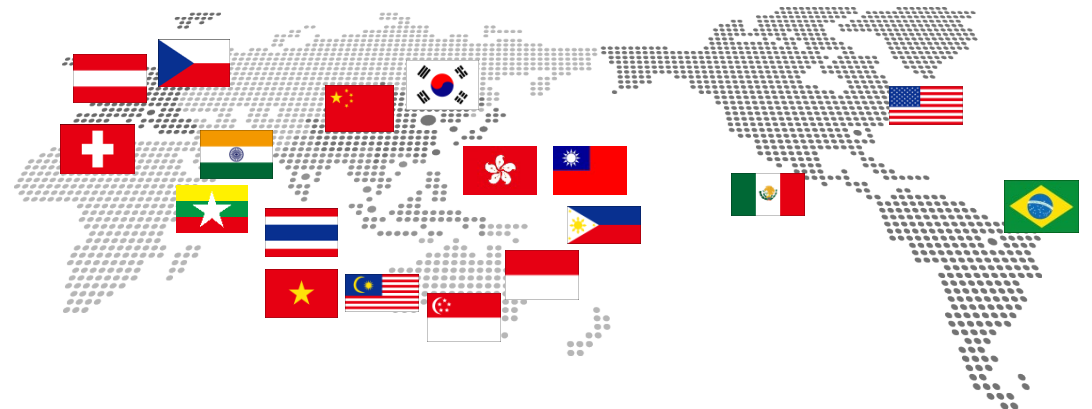
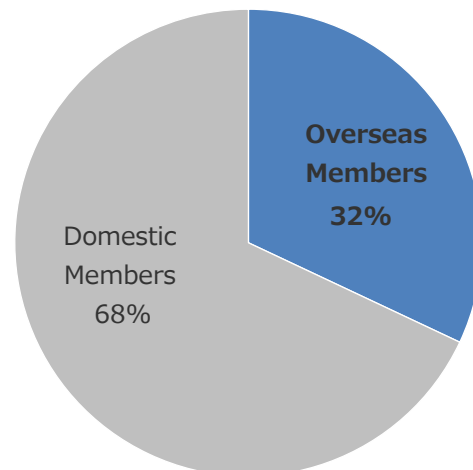
## Regular employee Average age

38  
years old

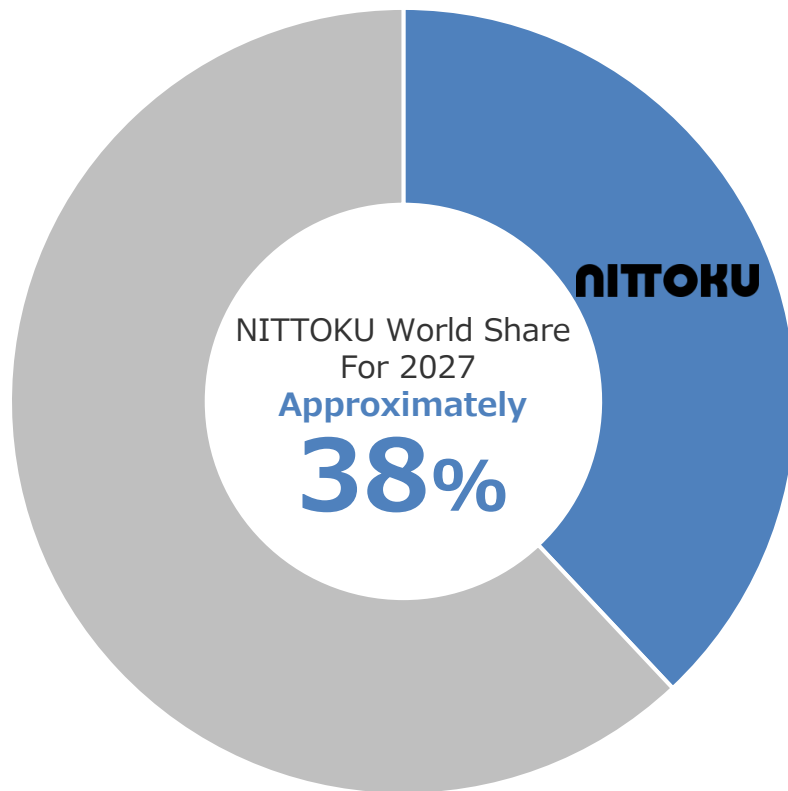


## Overseas members (Consolidated)

32%

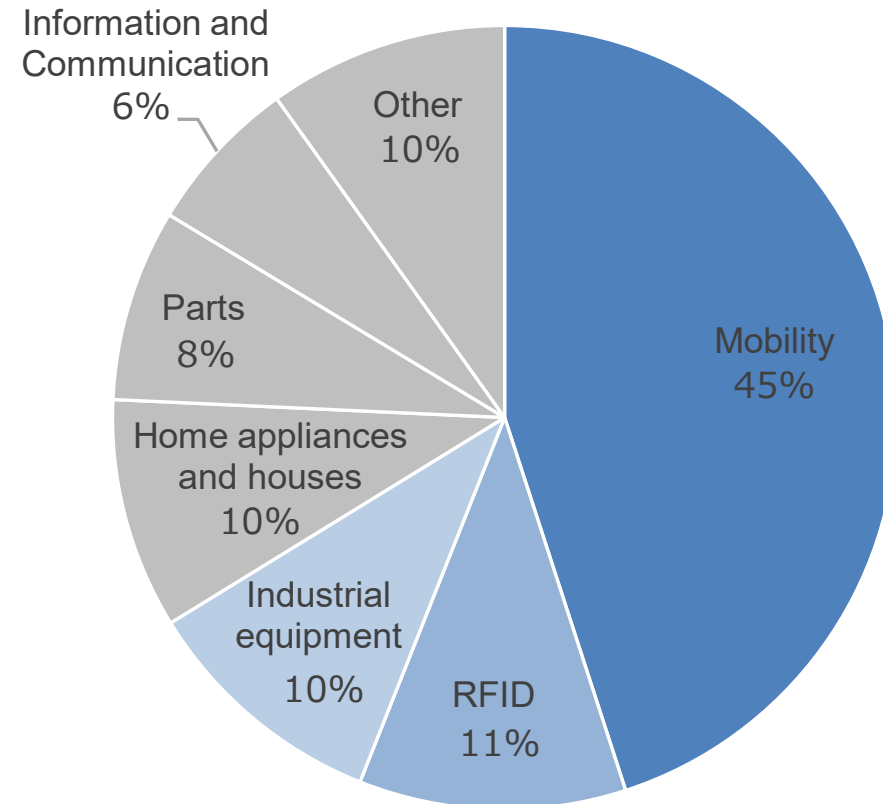


## Winding System Industry



Selected as "100 global niche company selection" by Japan's Ministry of Economy, Trade and Industry. (2014 and 2020 for two consecutive years)  
Selected as "The Driving Company for the regional future" by Japan's Ministry of Economy, Trade and Industry. (2017 years)

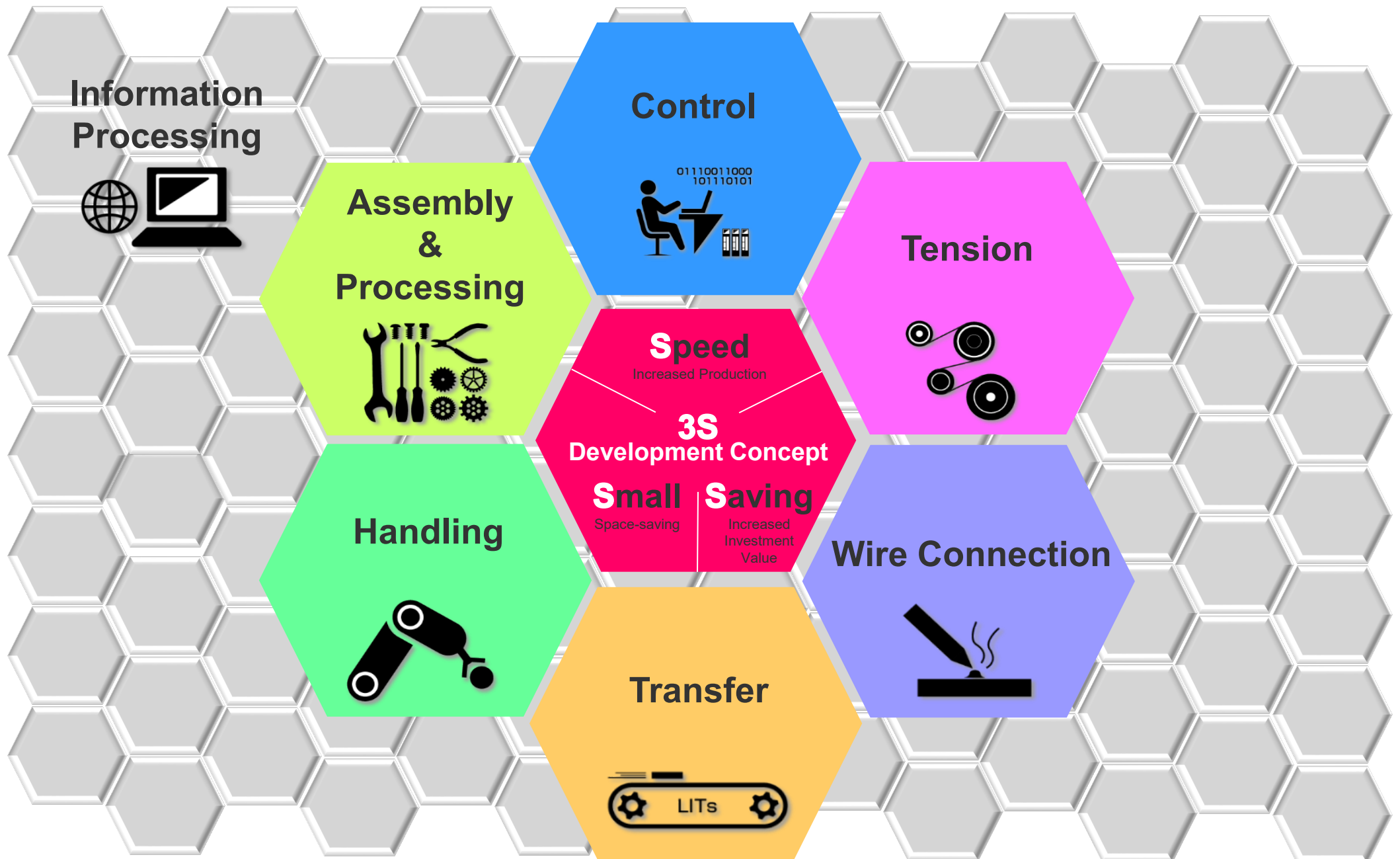
## Sales by Industry



Machine sales of automotive components were strong.  
(Coil, main engine / auxiliary motor, battery, assembling machine)



# Core Competencies





## Assembly & Processing Technology

Improvement of machine accuracy and durability

- Solid Casting
- Fabrication

## Solid Casting by 5-face machining

- Excellent accuracy and maintainability
- Superior rigidity

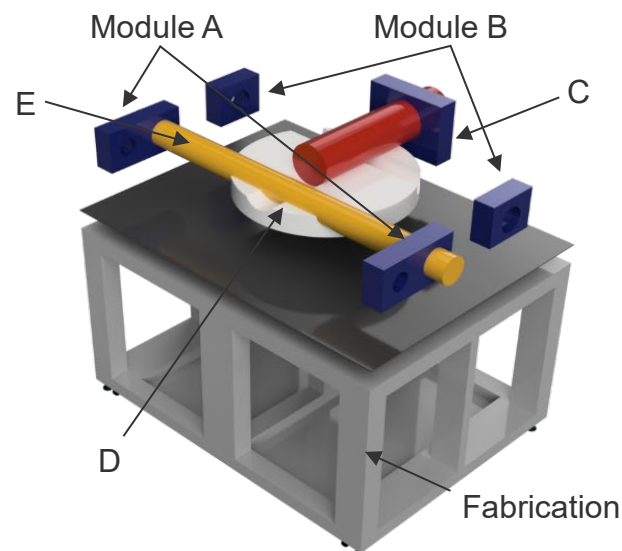
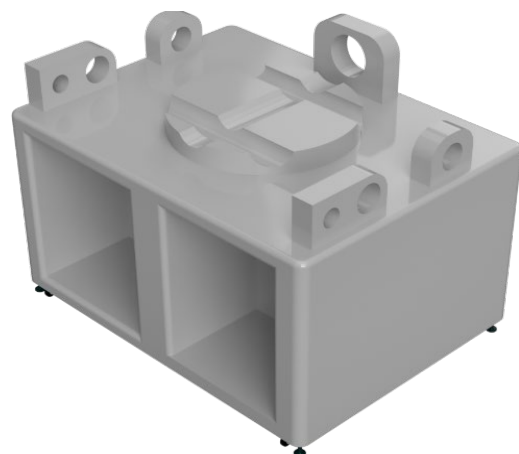
**NITTOKU recommends solid casting for customer product quality stability.**

### ➤ Solid Construction

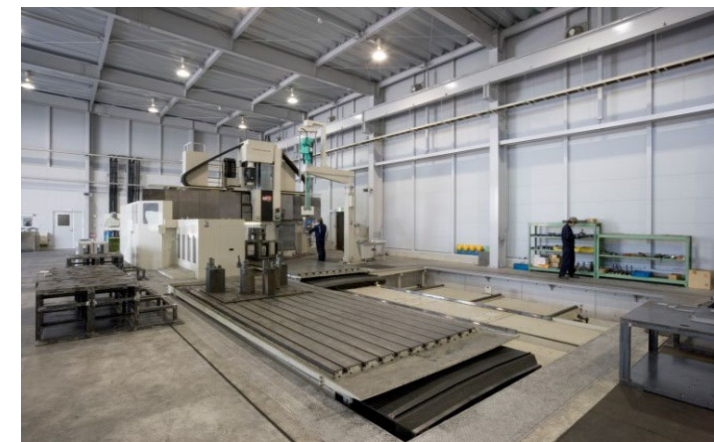
5-face machining equipment

### ➤ Compound structure

Combination of steel and aluminum modules and fabrication



Compound machining



5-axis machining center

# Core Technology ②

## Control Technology



- High speed winding
- Multi-axis synchronous control
- Self-developed perfect layer winding software

## Information processing Tech

IoT (real time) M2M (connect)



- Production management system
- Remote operation management
- Predictive maintenance

Complex machine operation can be easily undertaken using our **multi-axis synchronous controller**.

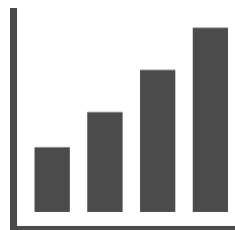
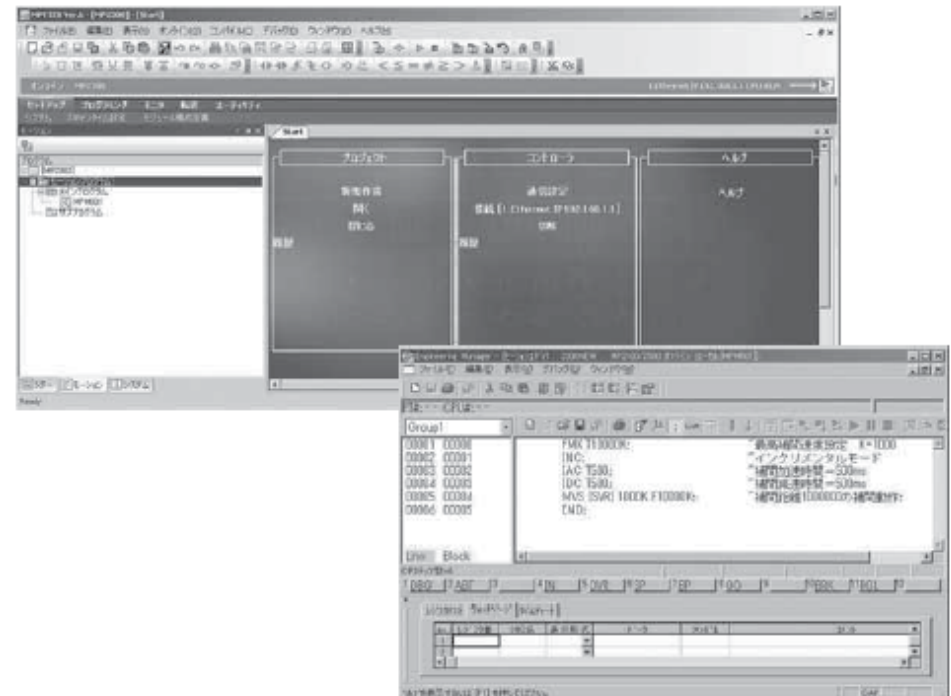
Software developed in-house.  
Achieve optimal process operation.

**Original program support software**

## Visualization of manufacturing process.

IoT and M2M allow for production management and quality control.

The **NITTOKU CENTRAL SYSTEM** is an original production management system which provides vital monitoring information such as operational performance, productivity, quality trends and traceability.



Confirm Production Status



Production and Quality Charts

1 a2b3...

Serial No. Search



# Core Technology ③

## Tension Technology

Maintain high product quality  
High machine productivity



- Extra fine wire applicable
- Tension Variability Function

## Feed method Tension device

### Stable Tension

Copper	Tension	: Min. 0.5 g ~
	Winding speed	: Max. 50m/sec
Non Copper	Tension	: Min. 0.3 g ~
	Winding speed	: Max. 33m/sec
Film	Tension	: Min. 1.5N/300mm
	Winding speed	: Max. 10m/sec



### Material

- Copper
- Aluminum
- SUS
- Steel
- Formed (Film, Fibers)
- Gold, Platinum, etc.

### Material shape

- Round Wire
- Square Wire
- Stranded Wire
- Edgewise
- Flat Wire (Ribbon Wire), etc.



# Core Technology ④



## Wire Connection Technology

Accurate Stripping and Connection

- Lead-free applicable
- Minute material applicable

## Optimal bonding / Stripping methods

### Solder

- Dip
- Sleeve
- Laser
- Iron
- Wave

### Welding

- Fusing
- Micro-arc
- TIG
- Thermo-compression
- Laser
- USW

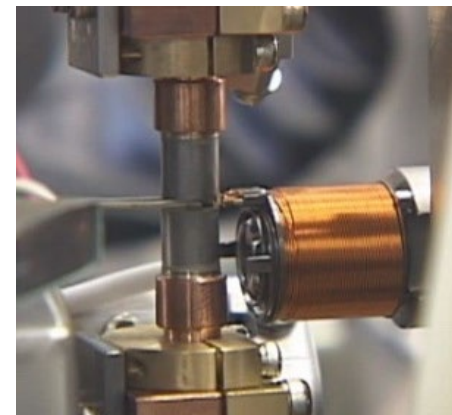
### Stripping

- Diamond Chip
- Laser
- Polishing (grindstone)
- Heat

### Glue Application

- Micro Dispensing

Highly accurate minute dispensing  
Synchronized operation and dispensing control



## Transfer Technology

High-speed and high-accuracy

- Flexible line construction



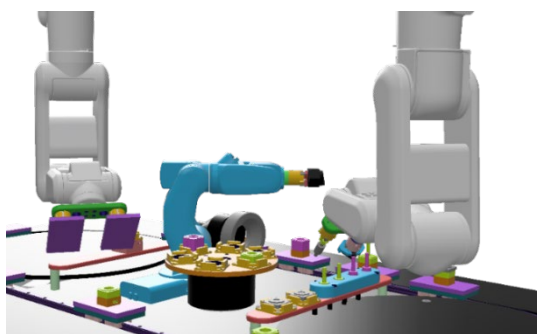
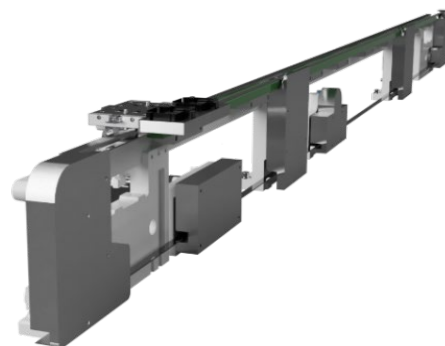
## Only-one line concept

### Transfer Systems

- Free flow method
- Index method
- Linear motor Method
- LITs shuttle method

### FA Base System

- LITs method
- Vacuum LITs transfer
- FLEX-1 method



## Handling Technology

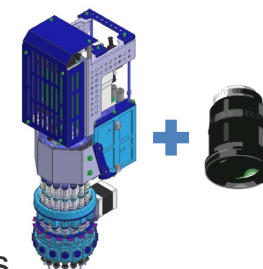
High-speed and High-accuracy

- Various workpiece applicable
- Multi-axis pitch conversion
- Sensing      ➤ Alignment



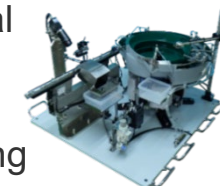
### JET Handler

- N-JET with AOI (2 or 6 sides)



### Parts Feeder

- Supplies minute and uniquely shaped parts
- Solid bowl design made from optimal material

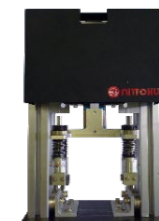


### High-speed Loader

- High-speed transfer of 0.6sec is realized using servo control/CAM.

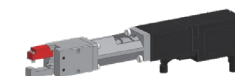
### Gripping

- Industry smallest electric gripper (ultra-fine wire applications)



### High-speed CAM

Top Mounted SCARA Robot



# Winding Machines and Systems

## From miniature coils to specialized motors.

Coil type and size vary depending on the use and product.  
We have long and varied expertise in the coil winding sector at NITTOKU.



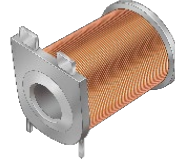
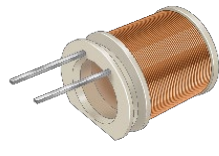
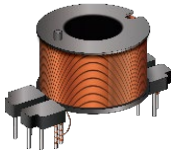
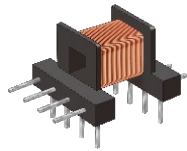
# Bobbin Winding Methods ①

Transformer coil, Relay coil, Ignition coil (bobbin type)

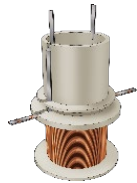
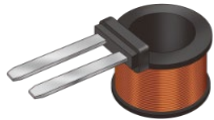
Spindle Method

Multilayered Winding & Taping

Step Winding

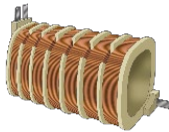


Vertical Perfect Layer



<Use>  
Power transformer, Vehicle solenoid,  
In-vehicle relay, Injector, Vehicle  
Sensor

Section Winding



<Use>  
Vehicle Ignition

Vehicle Solenoid, Clutch coil, Stepping (flat type)

Spindle Method

Thick Wire Perfect Layer

Bifilar Winding



<Use>  
Automobile

Ignition (pencil type)

Spindle Method  
Bank Winding (double traverse)

Patented



Section Winding



<Use>  
Vehicle Ignition

Filter

Bifilar

Toroidal



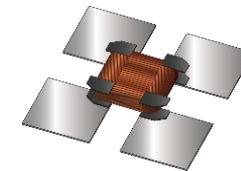
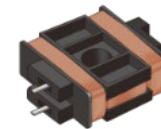
<Use>  
Power Supply Noise Filter

Special

Spindle Method

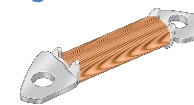
Patented

Specialized Section Perfect Layer























<Use>  
Sensor

Specialized Winding



<Use>  
Watch Coil

# Bobbinless Winding Methods ②

<p>Information and Communication (speaker, receiver, earphone coil)</p> <p><b>Spindle Method</b> <span style="background-color: #cccccc;">Patented</span></p> <p>Spiral Winding Intermittent Feed Winding</p>  <p><b>Flyer Method</b></p> <p>Spiral Winding Intermittent Feed Winding</p>  <p>&lt;Use&gt; Smartphone</p> <p><b>Spindle Method</b></p> <p>Intermittent Feed Winding</p>  <p>&lt;Use&gt; Hearing Aid</p>	<p>AV, PC ① (sheet transformer coil, noise filter coil)</p> <p><b>Outer-Outer (alpha)</b> <span style="background-color: #cccccc;">Patented</span></p> <p>Round Wire</p>  <p>Flat Wire (flatwise)</p>  <p>Flat Wire (edgewise)</p>  <p>&lt;Use&gt; PC, Audio</p>	<p>Clutch</p> <p><b>Spindle &amp; Flyer Intermittent Feed Winding (with jig grooves)</b></p>  <p>&lt;Use&gt; Automobile, Air conditioner, Refrigerator, Washing Machine</p>
<p>Information and Communication (wireless charging coil)</p> <p><b>Litz Winding</b></p> <p>Inner-Outer</p>  <p><b>Outer-Outer (alpha)</b></p>  <p>&lt;Use&gt; Wireless Charger</p>	<p>AV, PC ② (VCM, DVD, offset coil, pick-up coil)</p> <p><b>Spindle Method</b> <span style="background-color: #cccccc;">Patented</span></p> <p>Intermittent Feed Winding</p>  <p>&lt;Use&gt; HDD</p> <p><b>Flyer Method</b></p> <p>Chained Spiral Winding</p>  <p>&lt;Use&gt; PC, DVD Recorder</p>	<p>Transformer coil, Reactor</p> <p><b>Spindle Intermittent Feed Winding (Multi-layer)</b></p>   <p>&lt;Use&gt; Automobile, Power Transformer</p> <p>Edgewise</p> <p><b>Tight Winding</b> <span style="background-color: #cccccc;">Patented</span></p>  <p>&lt;Use&gt; Transformer Noise Filter</p>  <p>&lt;Use&gt; Motor</p> <p><b>Single Coil</b></p>  <p><b>Chained Coil</b></p>  <p>&lt;Use&gt; Power Transformer, Reactors</p>
<p>AV, PC ③ (tuner, choke)</p> <p><b>Spindle Method</b></p> <p>Spiral Winding</p>  <p>&lt;Use&gt; Car Radio</p>	<p>Special</p> <p><b>Chained Winding</b> <b>Formed Winding</b> <span style="background-color: #cccccc;">Patented</span></p>   <p>&lt;Use&gt; Industrial Equipment, Ammeter</p>	

# Chip Winding and Wire Connection

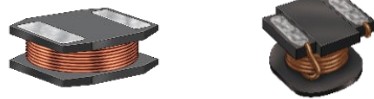
## Power inductor

Patented

Spindle  
Minute Winding



Flyer  
Minute Winding

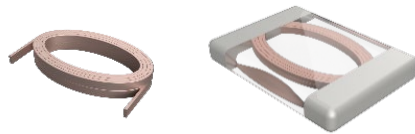


Size: 1608 ~ (1.6 x 0.8mm)

Flyer  
Round Wire Alpha Winding



Minute Flat Wire  
Flat Wise Alpha Winding



Flyer  
Minute Winding (lead frame)



Low back: 0.8mm ~

Side Welding:  
Thermo-compression Temperature Feedback Pulse Heat Method

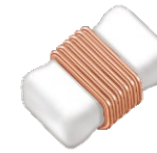


<Use>  
Vehicle PCB,  
HA PCB,  
Smartphone PCB

## Chip inductor (high frequency)

Patented

Flyer  
Minute Winding



Size: 0603 ~  
(0.6 x 0.3mm)

<Use>  
Vehicle PCB,  
HA PCB,  
Smartphone PCB

## Common mode

Patented

Spindle Bifilar Winding

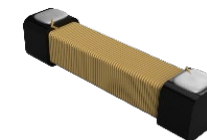
Other Methods



<Use>  
Noise Filter

## Antenna

Spindle & Flyer  
Minute Specialized winding



<Use>  
FA Tag, Medical,  
Game System Angle Sensor

# Motor Winding Methods

Multiple Patented Methods

<Use>  
Generator, Pump,  
Brake assist, Battery cooling,  
Oil Pump

<Use>  
EV/HEV, Electric oil pump

<Use>  
2 and 4 wheel generator,  
Seat, DVD / CD drive, HDD

<Use>  
EPS, Radiator fan, Air conditioning, Battery  
cooling, Mirror, seat, Starter, Fuel pump

<Use>  
EV/HEV reactor, Measurement

<Use>  
EV/HEV reactor, HA





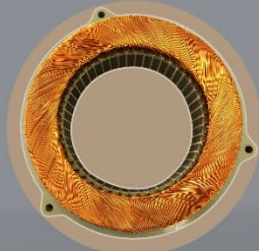
# Next generation EV motor

Patented

Winding Method



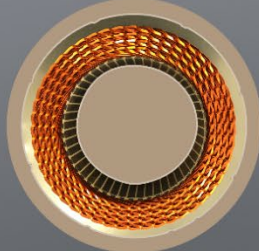
1 phase / slot  
Spiral Winding



2 phase / slot True  
Spiral Winding



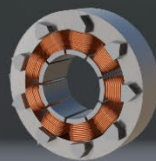
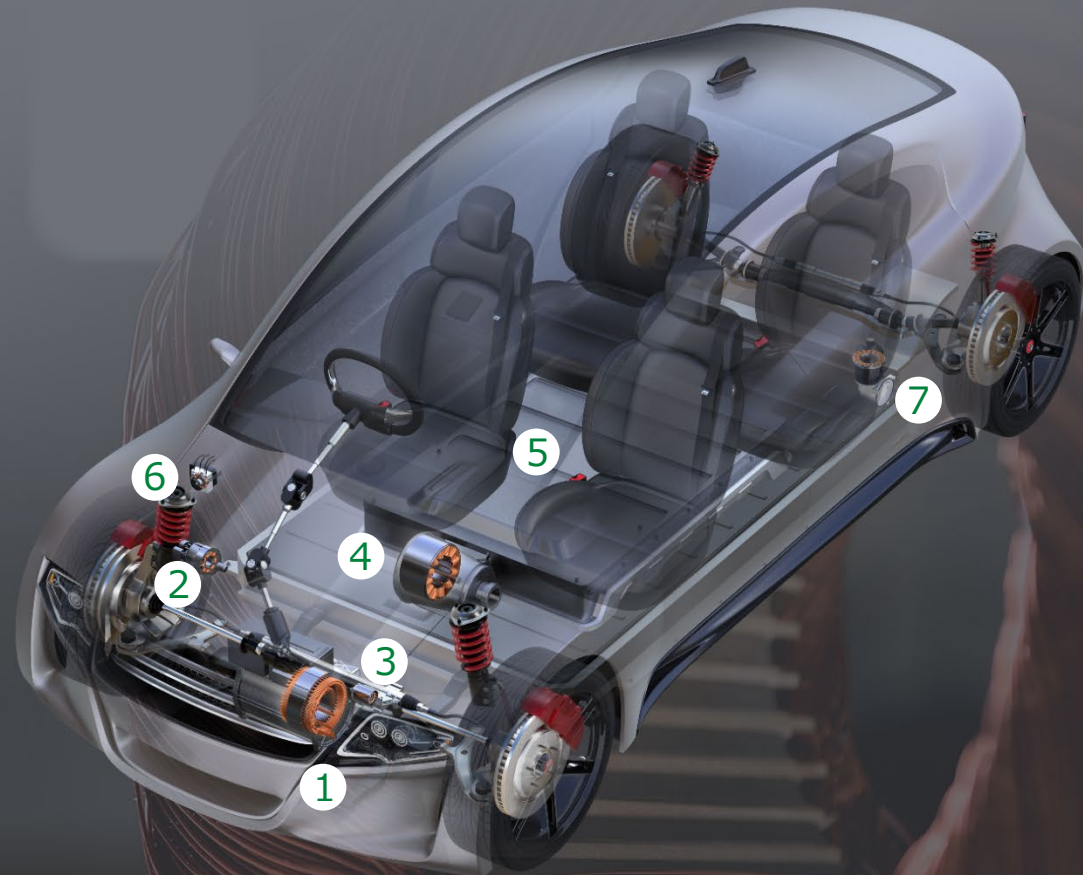
Inserter Style



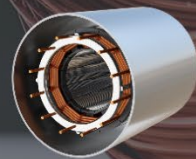
Hairpin Style



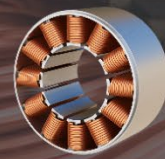
① Traction motor



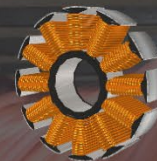
② Water pump



③ EPS



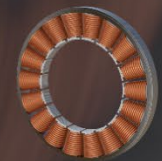
④ Electric compressor



⑤ Cooling fan



⑥ ABS



⑦ Slide door

# Wire Handling System

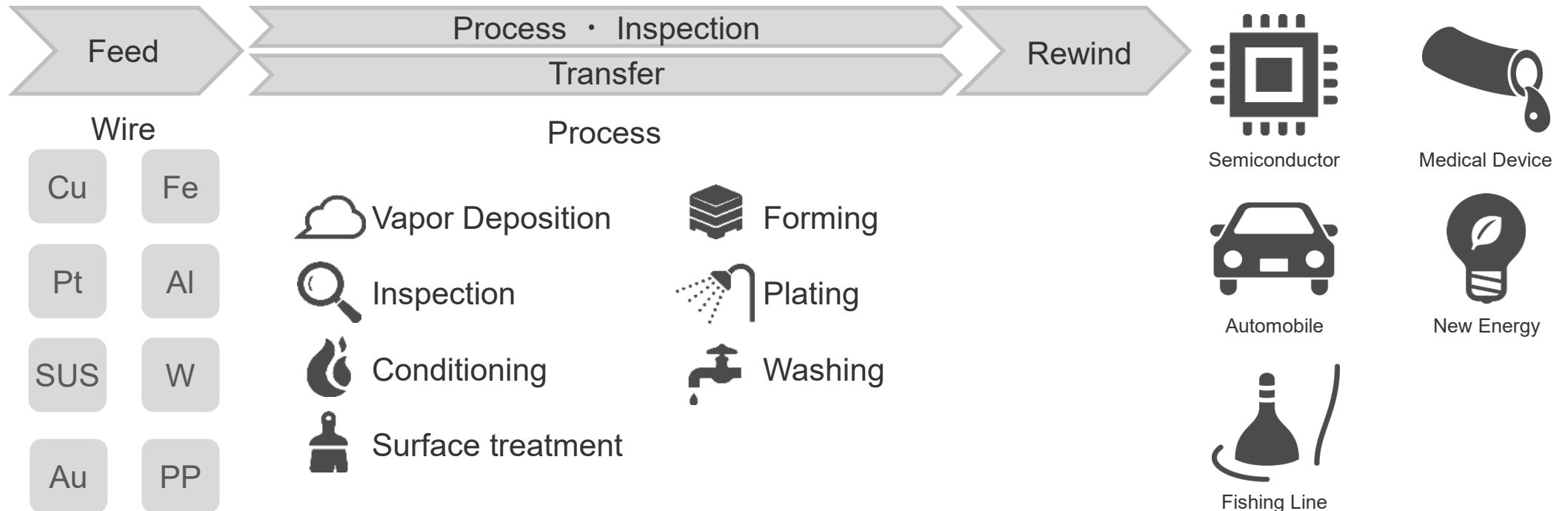
## RtoR

Conveys material wound off of a reel at optimal tension and speed.  
Precisely rewinds material after intermediate processing.

**Low Tension**  
Tension **0.3 g**

**High-speed**  
Wire speed **33m/sec**

**Extra-fine**  
Wire Dia. **5μm**



# Web Handling System

## R2R

Conveys material wound off of a roll at optimal tension and speed. Precisely rewinds material after intermediate processing.

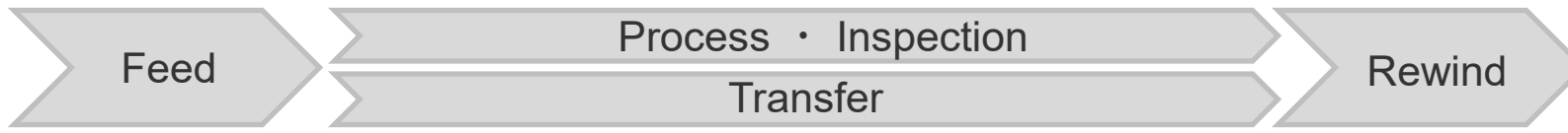
**Low Tension**  
Tension **1.5N / 300mm**

**High-speed**  
Speed **10m/sec**



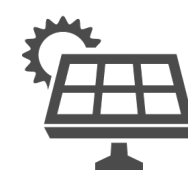
**Ultra-thin**  
Film thickness **3μm**

**Non-contact**  
**Air floating**



Wire

Process



Solar cell



RFID

Cu

PI



Forming



Inspection



Washing

PET

Al



Joining



Printing



Coating



Medical Packaging



Food Packaging

SUS

PP



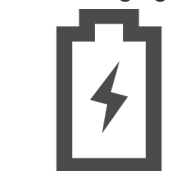
Drying



UV Exposure



Attaching



Energy Storage

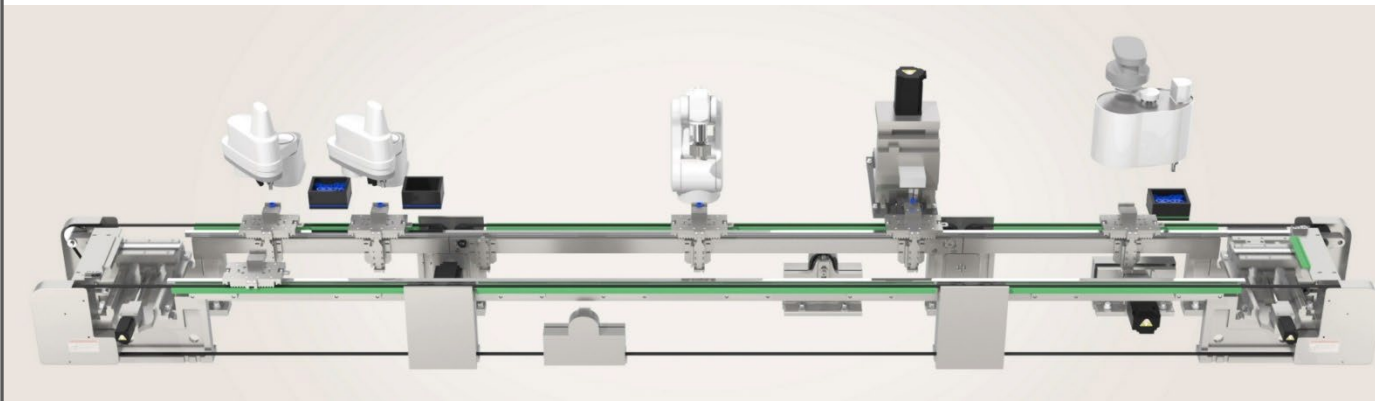


FPD

# Lineup of FA-based LITs

## Horizontal circulating transport

Ideal for precision machining of small and minute parts and long distance highspeed transfer!



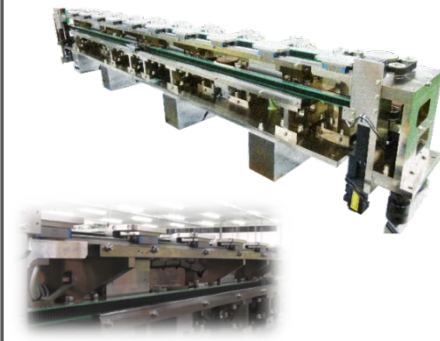
## FLITs transfer

Ideal for multi-product production lines where you want to simultaneously produce products with different specifications.

It is a hybrid transportation system combining free flow transportation with flexible pallet arrangement and LITs shuttle transportation with high-speed positioning.

## Vertical circulating transport

Connector cables, etc. Perfect for processing long work-pieces!



## Suction type circulating carrier

Ideal for appearance inspection and assembly of minute parts!

Ceiling type

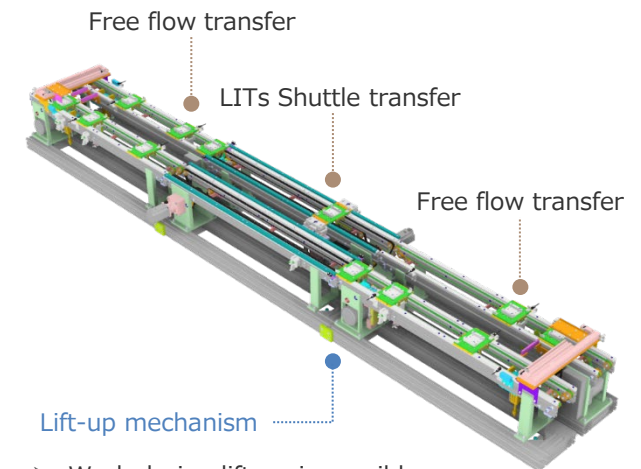
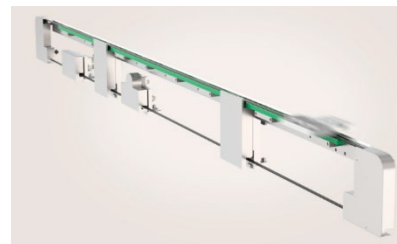


Flat type



## Shuttle transfer

Ideal for processes with different cycle times!

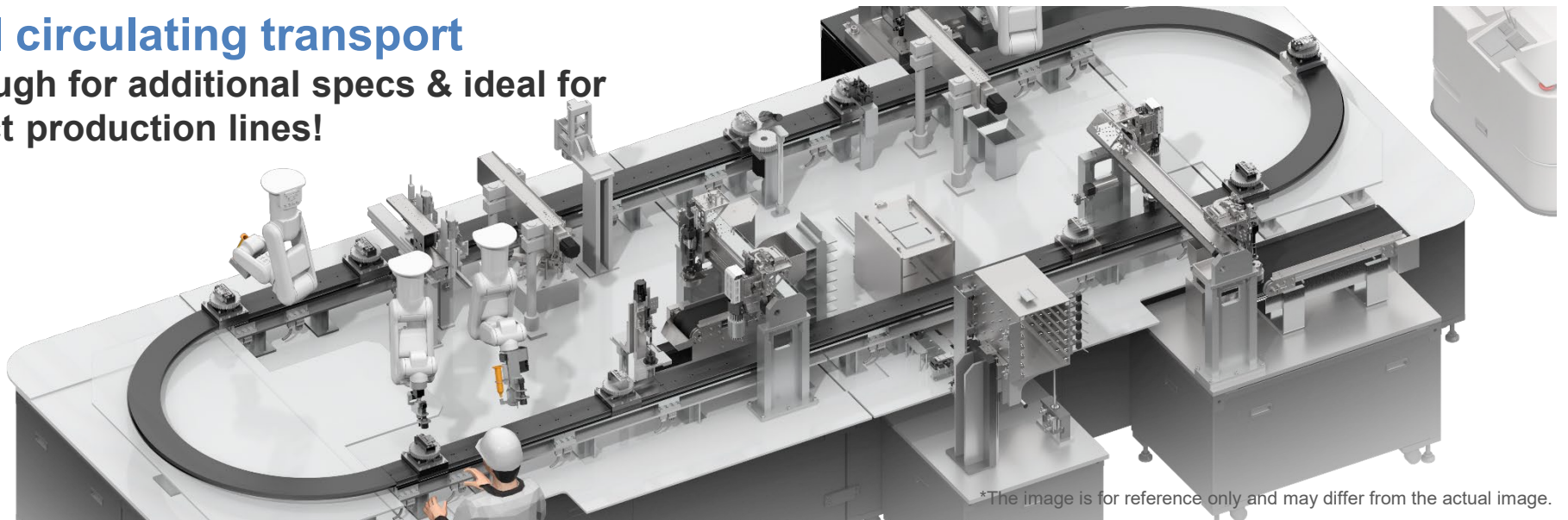


- Work during lift-up is possible.
- This reduces waiting time.
- It can be used for various variable lines.

# FA-based system FLEX-1 and LITs

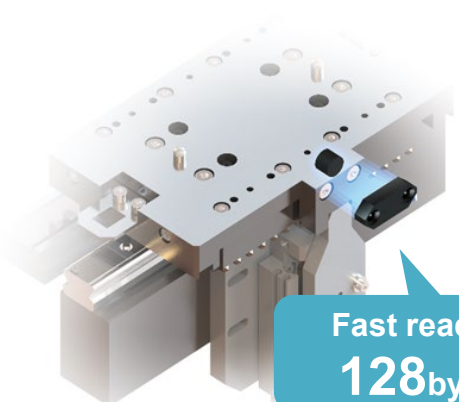
## Horizontal circulating transport

Flexible enough for additional specs & ideal for multi-product production lines!



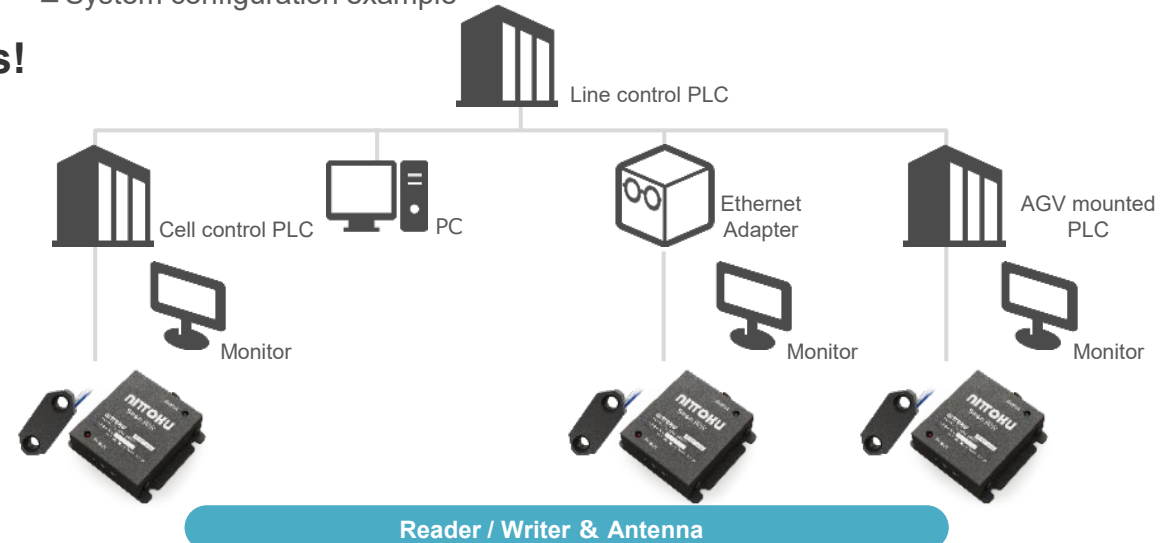
## ITS (Intelligent Tag System)

Ideal for collaboration with ITS host systems!



Fast reading and writing  
128bytes / 0.07sec

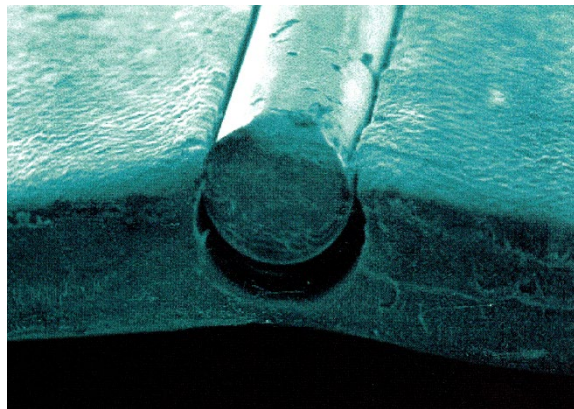
### ■ System configuration example



# RFID (IC Tag and IC Card) Business

We propose a high performance RFID unit by winding antenna construction method.

## Antenna for IC Card



Embed copper wire in plastic sheet

Inlet

IC Card

➤ Rewrite Card

IC Tag

➤ Seal Tag

➤ Laminated Tag

➤ Molded Tag

➤ Metal Compatible Tag



## Microchip



Animal Smart Chip



Syringe



Handy R / W Terminal



Certified as Ministry of Agriculture



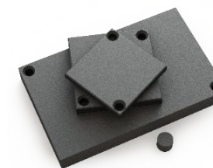
## FA Tag



Glass Tube Tag



Reader / Writer



ITS Tag



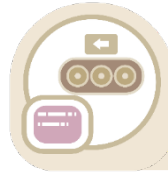
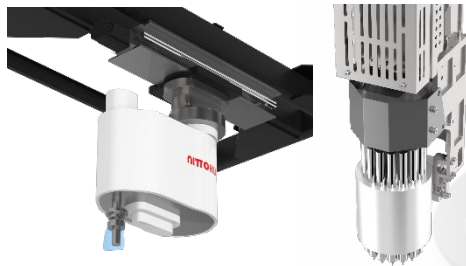
Ultra Small Surface Mounted Antenna

# NITTOKU Module Components

Use NITTOKU equipment modules to help solve customer problems.



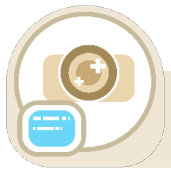
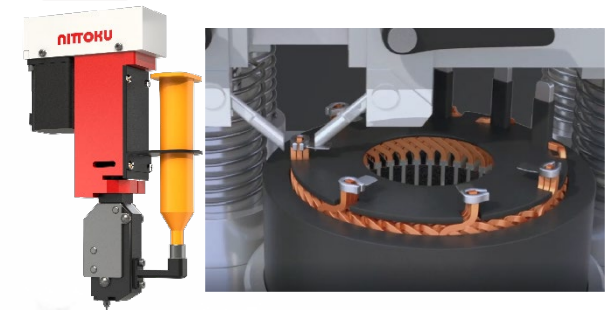
Handling Module



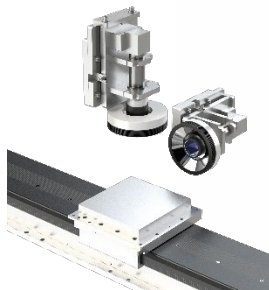
Transfer Module



Additive Module



Vision Module



Information Gathering Module



BCP Measures



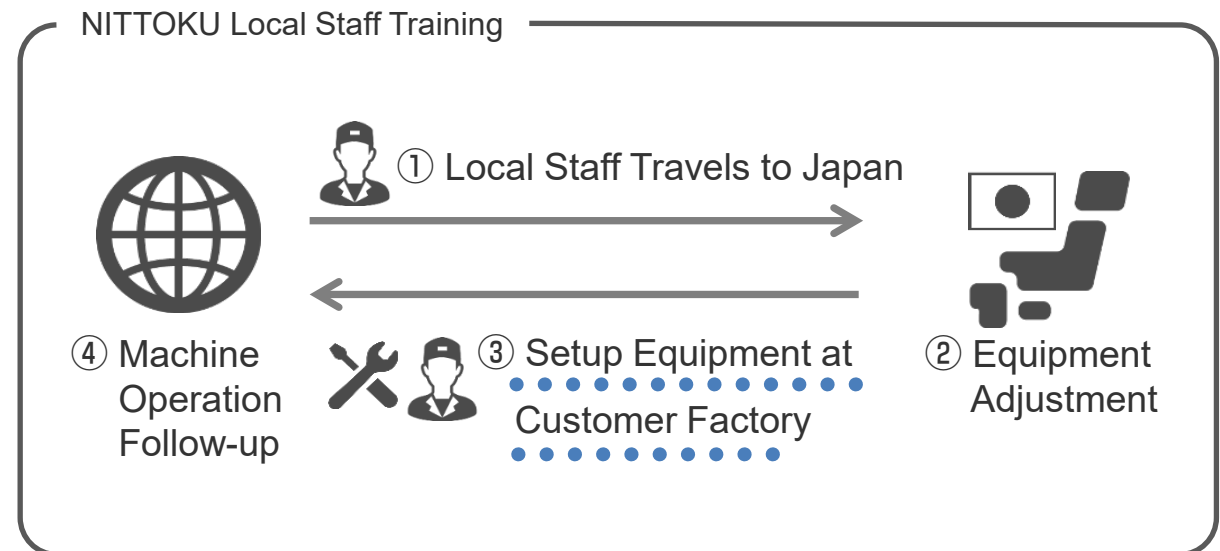
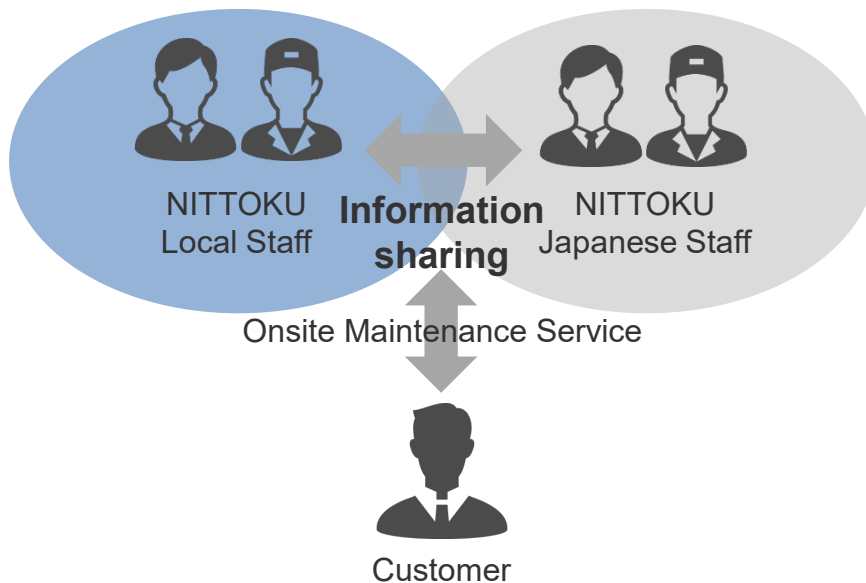


## Reliable NITTOKU Service



**NITTOKU manages remaining amounts of approved components to ensure 「Continuous Production」**

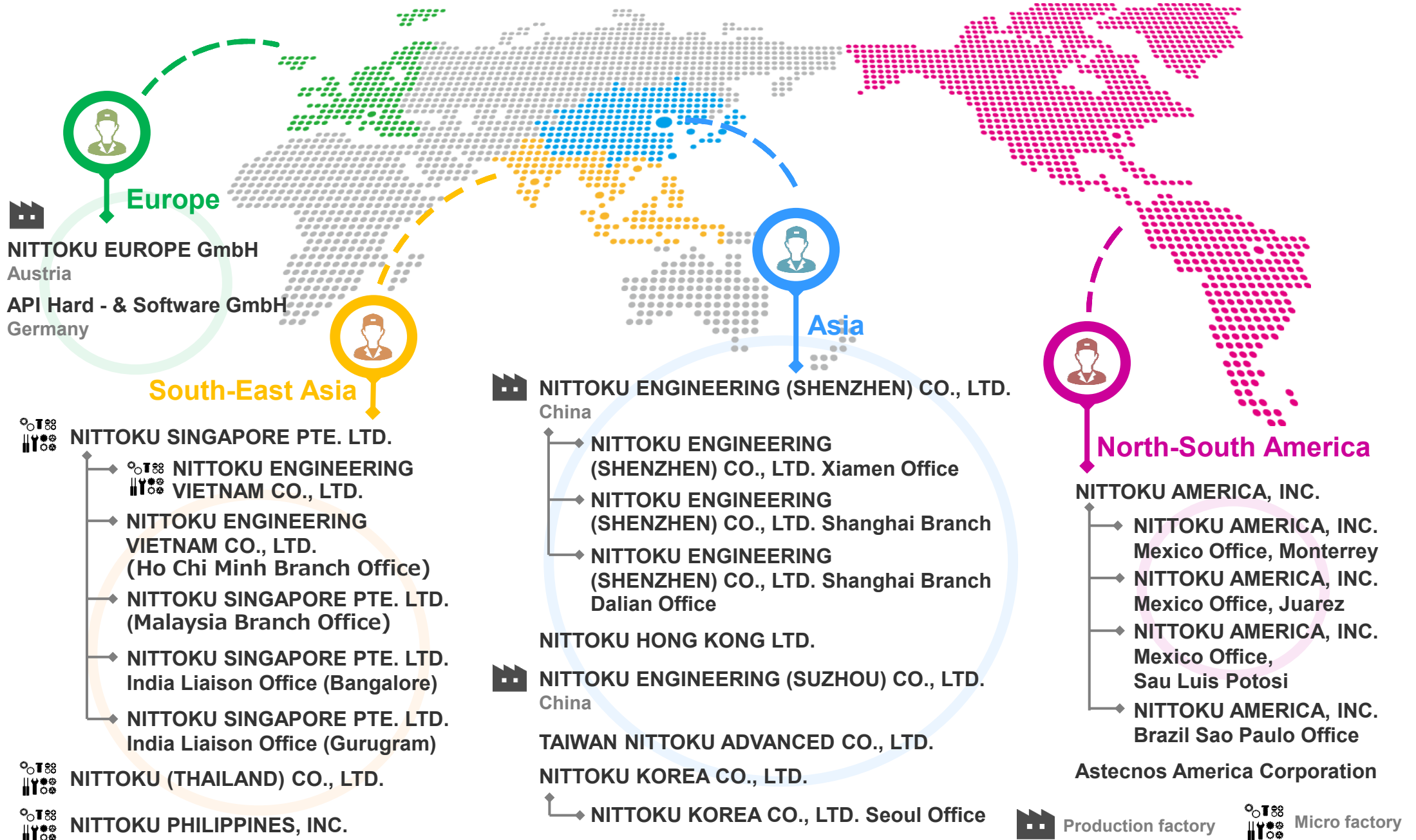
After Service







# Global Network



# Overseas Sales & Service Branches

NITTOKU

## Asia / South-East Asia

- ◆ **NITTOKU ENGINEERING (SHENZHEN) CO., LTD.**  
101, Building 1, Jia'an Science And Technology Park,  
No.2 Longchang Road, Block 67, Xingdong Community,  
Xin'an, Bao'an District, Shenzhen, 518000, China  
Tel +86 755-8602-8043
- ◆ **NITTOKU ENGINEERING (SHENZHEN) CO., LTD.**  
**Xiamen Office**  
No.17-804, Lehai Beili Road,  
Jimei North Ind. Distr., Xiamen, 361000, China  
Tel +86 592-6061482
- ◆ **NITTOKU HONG KONG LTD.**  
Unit 1601, 16/F., Peninsula Tower, 538 Castle Peak Road,  
Cheung Sha Wan, Kowloon, 999077, Hong Kong  
Tel +852 2512-2942 Fax +852 2512-2965
- ◆ **NITTOKU ENGINEERING (SHENZHEN) CO., LTD.**  
**Shanghai Branch**  
2501-2502, Building A, No.,319, Xian Xia Rd.,  
Far East International Plaza, Shanghai, 200051, China  
Tel +86 21-6853-5620 Fax +86 21-3882-0642
- ◆ **Dalian Office**  
Room 615, New East Mansion, Northeast 4 Rd.  
West Door Of Exempt-Zone, Economic & Technical Dept.  
Zones, Dalian, 116000, China  
Tel +86 411-3920-7956 Fax +86 411-3920-7956
- ◆ **NITTOKU ENGINEERING (SUZHOU) CO., LTD.**  
No.3#4# Building, Lianfa Industrial Park,  
No.199 Tongyuan Rd., Suzhou Industrial Park,  
Suzhou City, 215006, China  
Tel +86 512-6271-3258 Fax +86 512-6271-3268
- ◆ **TAIWAN NITTOKU ADVANCED CO., LTD.**  
2F., No.82, Sec.1, Guangfu Rd., Sanchong Dist.,  
New Taipei City 241564, Taiwan (R.O.C.)  
Tel +886 2-2651-9388 Fax +886 2-2651-9389
- ◆ **NITTOKU KOREA CO., LTD.**  
4, Saebyeoksijang-ro 63beon-gil, Sasang-gu,  
Busan, 46980 Korea  
Tel +82 51-311-2978 Fax +82 51-311-2962
- ◆ **NITTOKU KOREA CO., LTD. Seoul Office**  
A-1713, GIDC, 43, Iljik-ro, Gwangmyeong-si,  
Gyeonggi-do, 14353, Korea  
Tel +82 1020-535-034
- ◆ **NITTOKU (THAILAND) CO., LTD.**  
1091/335, Citylink Bldg., 5th Fl., Room 500,  
Soi Phetchaburi 35, New Phetchaburi Rd.,  
Makkasan, Ratchathewi, Bangkok, 10400, Thailand  
Tel +66 2-255-5432 Fax +66 2-255-5434
- ◆ **NITTOKU SINGAPORE PTE. LTD.**  
BLK. 1092, Lower Delta Rd., #05, 14/15  
Tiong Bahru Industrial Estate, 169203, Singapore  
Tel +65 6278-3255 Fax +65 6278-0566
- ◆ **NITTOKU ENGINEERING VIETNAM CO., LTD.**  
Unit 6A, RBF area, No.2, Street BH5,  
Vietnam Singapore Industrial Park Bac Ninh,  
Phu Chan Ward, Tu Son city, Bac Ninh province,  
222308, Vietnam  
Tel +84 90-281-6369
- ◆ **NITTOKU ENGINEERING VIETNAM CO., LTD.**  
**(Ho Chi Minh Branch Office)**  
F5 SCS building (Sacom-Chip Sang building), Lot T2-4,  
D1 Road, Hi-Tech Park, Tan Phu Ward,  
Thu Duc City, Ho Chi Minh City, 70000, Vietnam  
Tel +84 222-361-1996
- ◆ **NITTOKU PHILIPPINES, INC.**  
124 North Science Avenue, SEPZ, Laguna Technopark,  
Binan City, Laguna, 4024, Philippines  
Tel +63 960-113-7126
- ◆ **NITTOKU SINGAPORE PTE. LTD.**  
**(Malaysia Branch Office)**  
Lot 40, Jalan PJS 7/19, Bandar Sunway,  
46150 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
Tel +60 3-5631-5320 Fax +60 3-5631-5330
- ◆ **NITTOKU SINGAPORE PTE. LTD.**  
**India Liaison Office (Bangalore)**  
309, Krishna Summit, Above Khazana jewelers,  
Marathahalli Junction, Bangalore, 560037, India  
Tel +91 99-0254-5452
- ◆ **NITTOKU SINGAPORE PTE. LTD.**  
**India Liaison Office (Gurugram)**  
512A, 5<sup>th</sup> Floor, Suncity Business Tower,  
Sector-54, Golf Course Road, Gurugram, 122002, India  
Tel +91 96-1169-2748

# Overseas Sales & Service Branches

## North-South America / Europe

◆ **NITTOKU AMERICA, INC.**

3600 Commerce Drive, Suite 610, Baltimore, MD, 21227, U.S.A.  
Tel +1 410-574-4960 Fax +1 410-574-7083

◆ **NITTOKU AMERICA, INC. Mexico Office, Monterrey**

Plaza Eloy 2401 Av. Eloy Cavazos #2401 Local 84,  
Fraccionamiento Las Villas, Guadalupe, N. L., C. P. 67170 Mexico  
Tel +52 812-350-7766

◆ **NITTOKU AMERICA, INC. Mexico Office, Juarez**

Ejercito Nacional 5435 7 Plutarco E Calles  
Jardin De San Jose, C.P. 32600 Cd. Juarez Chih., Chih., Mexico  
Tel +52 656-314-7264

◆ **NITTOKU AMERICA, INC. Mexico Office, San Luis Potosi**

AV. INDUSTRIAS #1620, Local D, ARDINES DEL SUR,  
SAN LUIS POTOSI, SLP, CP78399, Mexico  
Tel +52 444-838-0602

◆ **NITTOKU AMERICA, INC. Brazil Sao Paulo Office**

Av. Prof. Carlos Ferreira Lopes, 703, Sala 710,  
Vila Mogilar, Mogi Das Cruzes, Sao Paulo, 087773-490, Brazil  
Tel +55 11-4790-6839

◆ **Astecnos America Corporation**

193 Computrex Drive, Nicholasville, KY 40356, USA  
Tel +1 859-881-3217 Fax +1 859-881-0352

◆ **NITTOKU EUROPE GmbH**

Ebentalerstrasse 140, A-9020 Klagenfurt, Austria  
Tel +43 676-89-70-20-200 Fax +43 676-89-70-20-222

◆ **API Hard - & Software GmbH**

Am Weichselgarten 26 91058 Erlangen Bayern, Germany  
Tel +49 9131-92-399-20 Fax +49 9131-92-399-21

# Domestic Sales and Service Branches

## NITTOKU CO., LTD.

Head Office, Tokyo Sales Office  
Saitama-shi, Saitama

Fukushima Factory,  
Fukushima Sales Office  
Fukushima-shi, Fukushima

Nagoya Satellite  
Nagoya-shi, Aichi

Osaka Sales Office  
Osaka-shi, Osaka

Nagasaki Factory  
Omura-shi, Nagasaki

Ehime Factory (Shimobayashi)  
Toon-shi, Ehime

Shikoku Technical Center  
Matsuyama-shi, Ehime

Tottori Technical Center  
Tottori-shi, Tottori

Shiga Technical Center  
Kusatsu-shi, Shiga

## NITTOKU KOSEI CO., LTD.

Head Office, Fukushima Factory,  
Fukushima Sales Office  
Date-gun, Fukushima

Yamagata Factory,  
Yamagata Sales Office  
Higashitagawa-gun, Yamagata

Iino Factory  
Fukushima-shi, Fukushima

Date Factory  
Date-shi, Fukushima

## NITTOKU KOIDE CO., LTD.

Head Office  
Mitsuke-shi, Niigata

## IMD CO., LTD.

Head Office  
Nakatsugawa-shi, Gifu

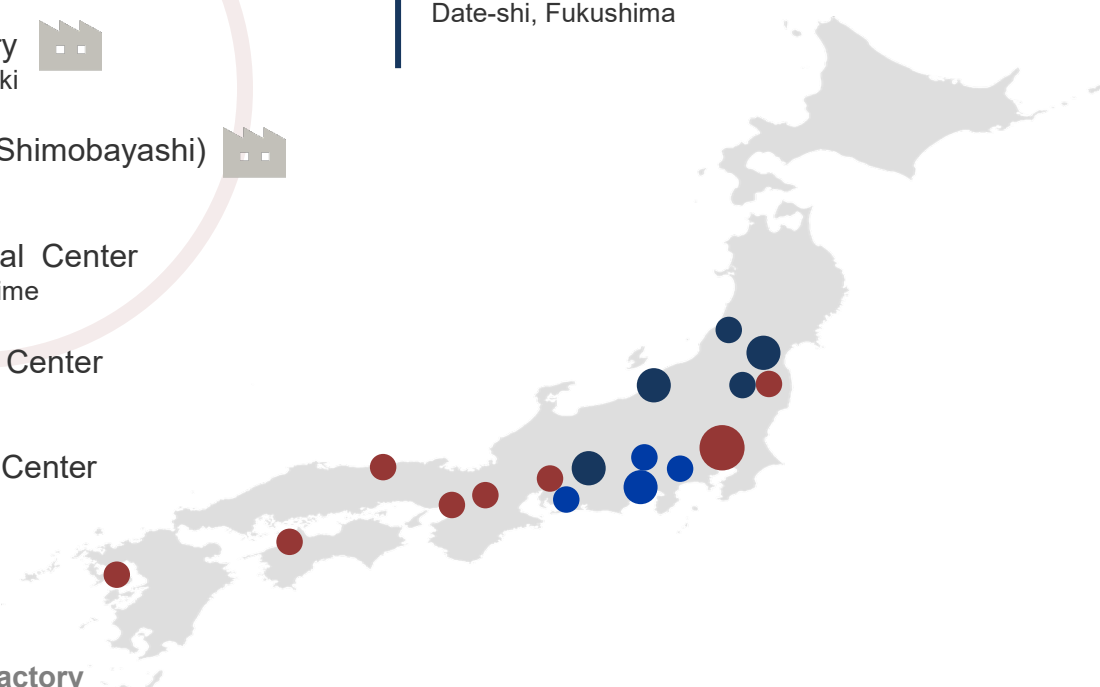
## Astecnos Co., Ltd.

Headquarter & Factory  
Shizuoka-shi, Shizuoka

Atsugi Interchange Factory  
Atsugi-shi, Kanagawa

Kofu Showa Interchange Factory  
Nakakoma-gun, Yamanashi

Toyoake Interchange Factory No.1,2  
Toyoake-shi, Aichi



# Head office, Domestic offices, Subsidiaries

## HEAD OFFICE

Established August, 2019  
 Personnel 50 people  
 Size 2,091 m<sup>2</sup>



## NAGASAKI FACTORY

Established April, 2013  
 Personnel 100 people  
 Size 6,266 m<sup>2</sup>



## FUKUSHIMA FACTORY

Established December, 1991  
 Personnel 310 people  
 Size 20,076 m<sup>2</sup>



## NITTOKU KOSEI CO., LTD.

Established November, 1974  
 Personnel 100 people  
 Size 5,916m<sup>2</sup>



Business details R&D, Manufacturing, Sales, & Service of :  
 Automated Loading / Unloading M/C,  
 Electrical Control & Automation Equipment.

## NITTOKU KOIDE CO., LTD.

Established January, 1974  
 Personnel 30 people  
 Size 1,145m<sup>2</sup>



Business details R&D, Manufacturing, Sales, & Service of :  
 Factory Automation M/C

# Overseas Facilities

## NITTOKU ENGINEERING (SUZHOU) CO.,LTD.

Established July, 2002  
Personnel 60 people  
Size 9,350 m<sup>2</sup>



## NITTOKU ENGINEERING (SHENZHEN) CO., LTD.

Established June, 2005  
Personnel 60 people  
Size 2,600 m<sup>2</sup>



## NITTOKU EUROPE GmbH

Established May, 2015  
Personnel 150 people  
Size 7,200 m<sup>2</sup>



## NITTOKU (THAILAND) CO.,LTD.

Established July, 1996  
Personnel 20 people  
Size 500 m<sup>2</sup>

