

Company Information



日特エンジニアリング株式会社

Company Profile

Established: September 28, 1972

Capital: 6,884,928,000 Yen

Personnel: 363 (629 Consolidated)

Headquarters: 5-11-20 Shirahata, Minami-ku, Saitama City, Saitama

Factories:

Iino Factory : Iino-machi, Fukushima City (Winding M/C, R&D, Manufacturing)

Nagasaki Factory : Ikeda, Omura City (FA, R&D, Manufacturing)

Urawa Factory : Minami-ku, Saitama City (IC Tag•Card System Manufacturing)

Suzhou Factory : Suzhou City, China (Winding M/C, Peripheral M/C, Manufacturing, Service)

Shenzhen Factory : Shenzhen, China (Winding M/C, Peripheral M/C, Manufacturing)

Europe Factory : Veit an der Glan, Austria (Winding M/C, Peripheral M/C, Manufacturing)

Business (Winding sector): Development, manufacturing
and sales of automatic winding machine and parts

Management Philosophy

Management

- 1. From a global point of view**
- 2. Give shape to customer's expectation**
- 3. Provide cutting-edge technology**
- 4. Contribute to society through innovation**

Guideline

Concentration & Expansion

Challenge towards a worthy creation

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

Quality policy

**Value added creation
for complete customer satisfaction**

Attempting to provide the best products
& Services by building partnership with the customer
and realizing their expectations & needs

Personnel

As of March 31, 2015

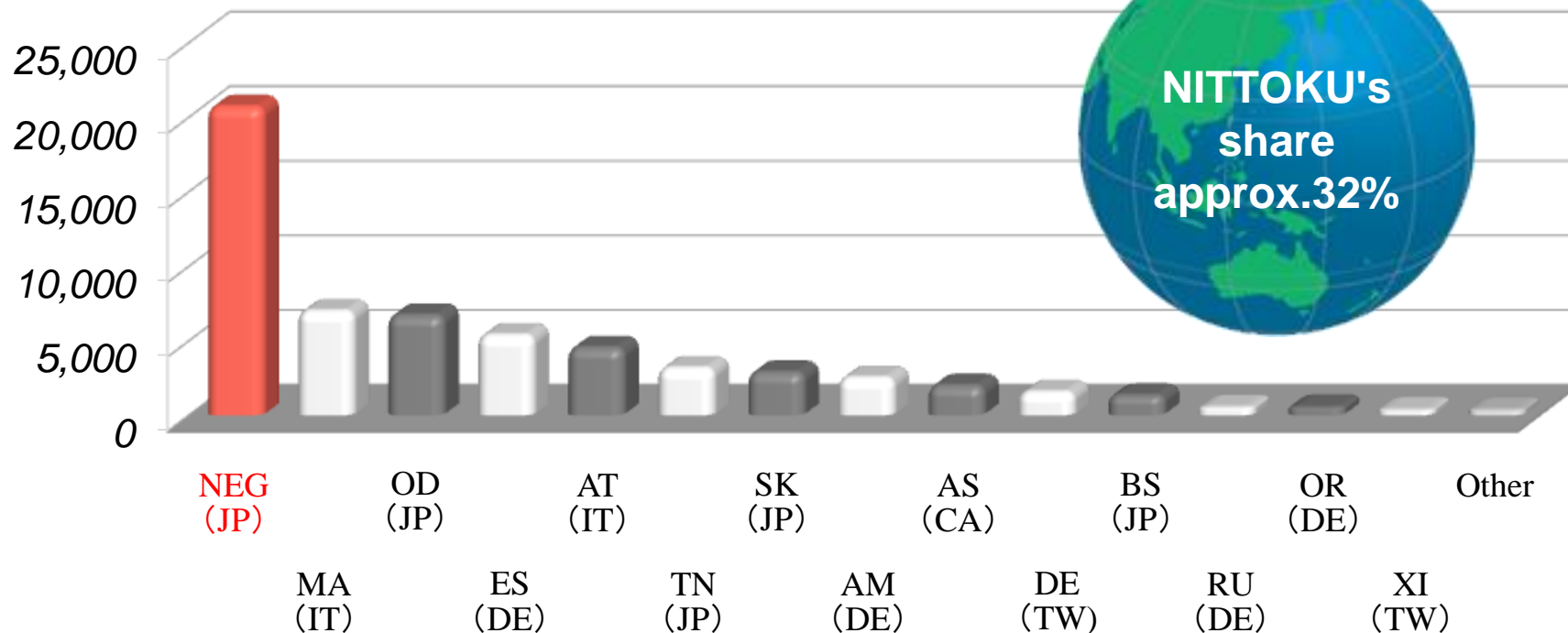
Department		R&D	Technology	Assembly	Process- ing	Management Sales & Services	Total
Manage- ment	<i>M</i>	0	0	0	0	19	19
	<i>F</i>	0	0	0	0	7	7
		0	0	0	0	26	26
Sales	<i>M</i>	0	0	0	0	31	31
	<i>F</i>	0	0	0	0	13	13
		0	0	0	0	44	44
Manu- facture	<i>M</i>	50	92	70	28	19	259
	<i>F</i>	4	3	4	3	20	34
		54	95	74	31	39	293
Total	<i>M</i>	50	92	70	28	69	309
	<i>F</i>	4	3	4	3	40	54
		54	95	74	31	109	363

Engineers:223

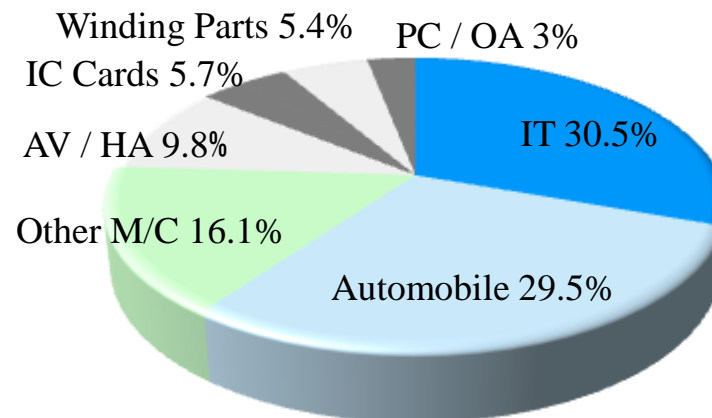
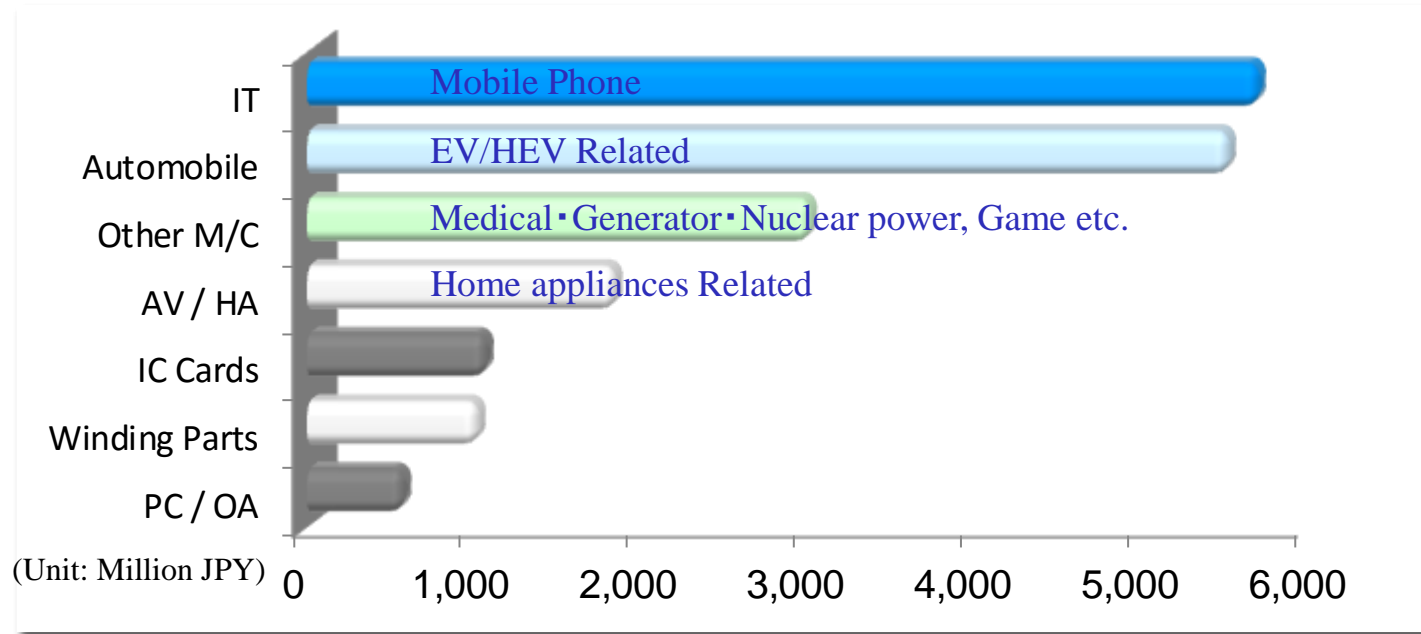
World Winding Market

Sales amount from April, 2012 to March, 2015 (Our internal investigation.)

Million JPY

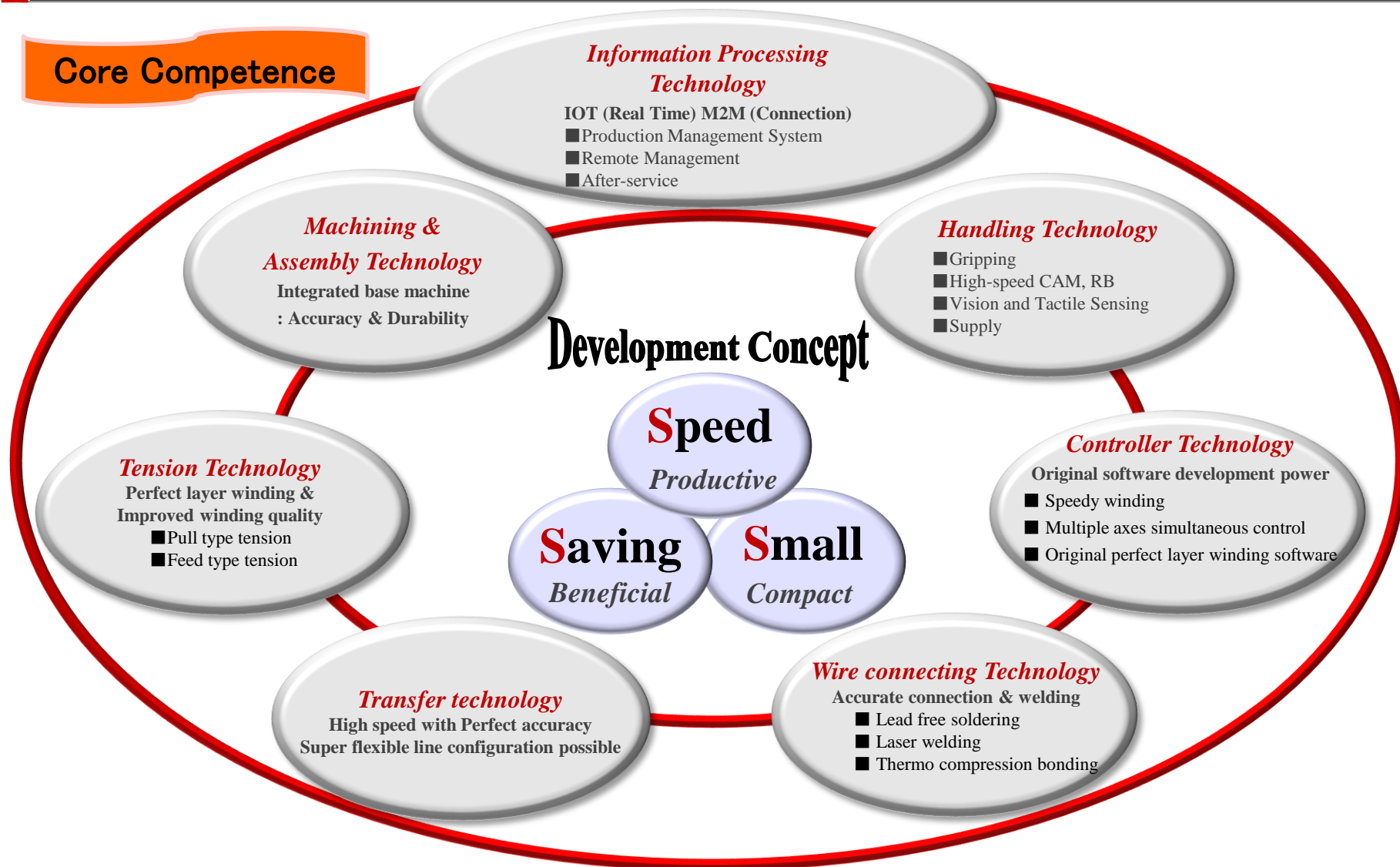


Sales Details Of Each Division (March, 2015)



Nittoku's Core Technology

Core Competence

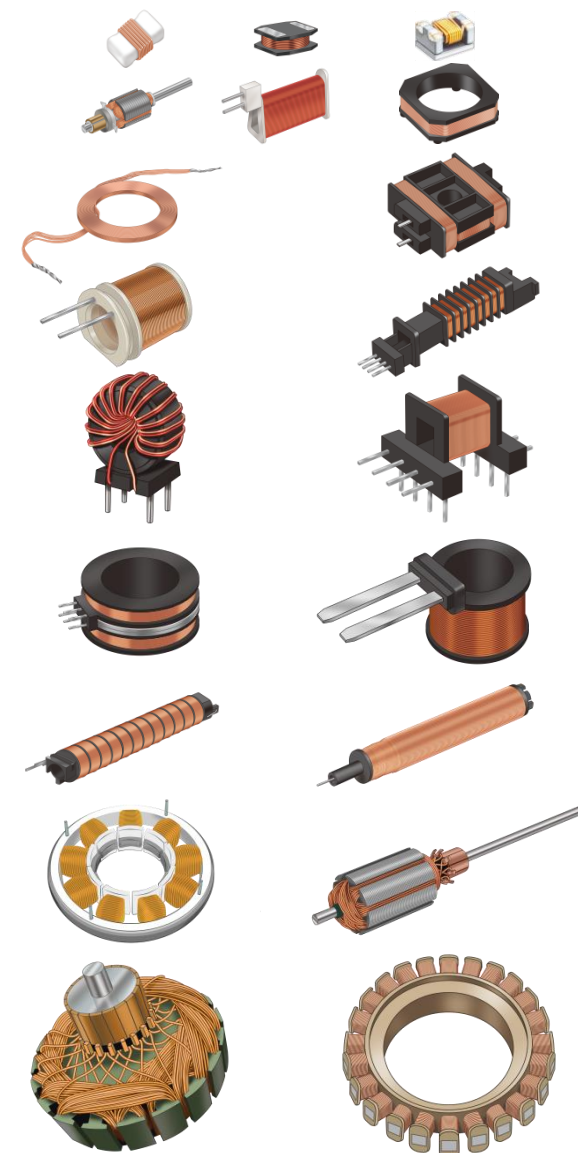


Winding Systems

【From small chip coils to large motors】

The coil size and shape differs by the purpose & place of use.

We have very long experience & expertise in the coil winding sector at NITTOKU.



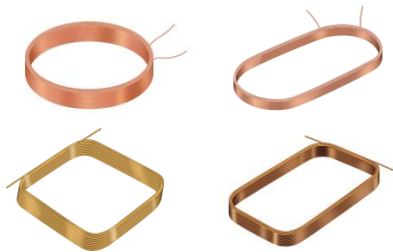
Bobbinless Winding Methods (Control Technology) ① *Winding Dept.*

Voice Coil
(Speaker, Receiver, Earphone, Headphone)

Patented by
Nittoku

Spindle Method, Spiral Winding

Spindle Method, Intermittent Winding



<Uses>

Cell Phones, Smart Phones

Spindle Method, Intermittent Winding



<Uses>

Hearing Aids

Flyer Method, Spiral Winding

Flyer Method, Intermittent Winding



<Uses>

Cellphone Microphone

AV & PC Coils ①
(Sheet Transformer Coil, Noise Filter Coil)

Patented by
Nittoku

Round Wire Alpha Winding



Flatwise Alpha Winding



Edgewise Alpha Winding



<Uses>
PC, Audio

AV & PC Coils ②
(VCM, CD, DVD, BLD Stabilization Coil, Pickup Coil)

Patented by
Nittoku

Spindle Method, Intermittent Winding (Trapezoid)



<Uses>
PC HDD

Flyer Method, Connected Spiral Winding

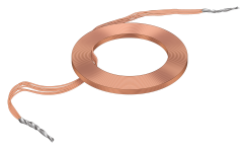


<Uses>
PC, DVD Recorder

Bobbinless Winding Methods (Control Technology) ② *Winding Dept.*

AV & PC Coil ③ (Contactless Charging)

Litz Wire (Circular, Ellipse)



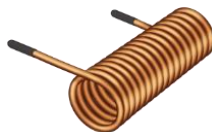
Litz Alpha Winding (Circular, Ellipse)



<Uses>
Cellphone,
Smartphone Charger

AV & PC Coil ④ Spring Coils (Tuner, Choke)

Spindle Method, Spiral Winding (Circular)

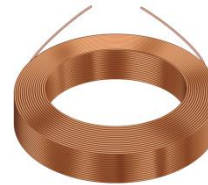


<Uses>
Car Radio, AV

Clutch Coil

Spindle Method, Grooved Jig, Intermittent Winding (Circular)

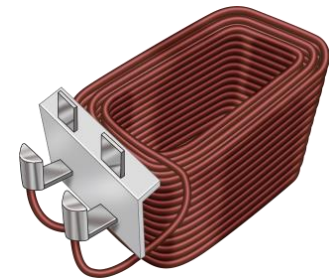
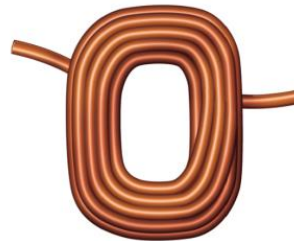
Flyer Method, Grooved Jig, Intermittent Winding (Circular)



<Uses>
Automobile,
Air Con, Refrigeration,
Washing Machine

Transformer Coil, Reactor Coil

Spindle Method, Intermittent Winding
(Angular Multi-Layer)

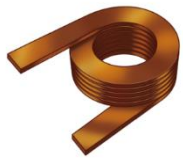


<Uses>
Automobile,
Power Transformer

Bobbinless Winding Methods (Control Technology) ③ *Winding Dept.*

Edgewise Coil (Circular)

Tightly Wound



<Uses>
Transformer, Noise Filter

Edgewise Coil (Ellipse)

Tightly Wound



<Uses>
Automobile Motor

Specialized Coils (partial)

Patented by
Nittoku

Cylindrical Continuous Winding



<Uses>
Industrial Robots

Edgewise Coil (Angular, Stacked)

Patented by
Nittoku

Single



Continuous (2)



<Uses>
Power Transformer,
Reactor Coil

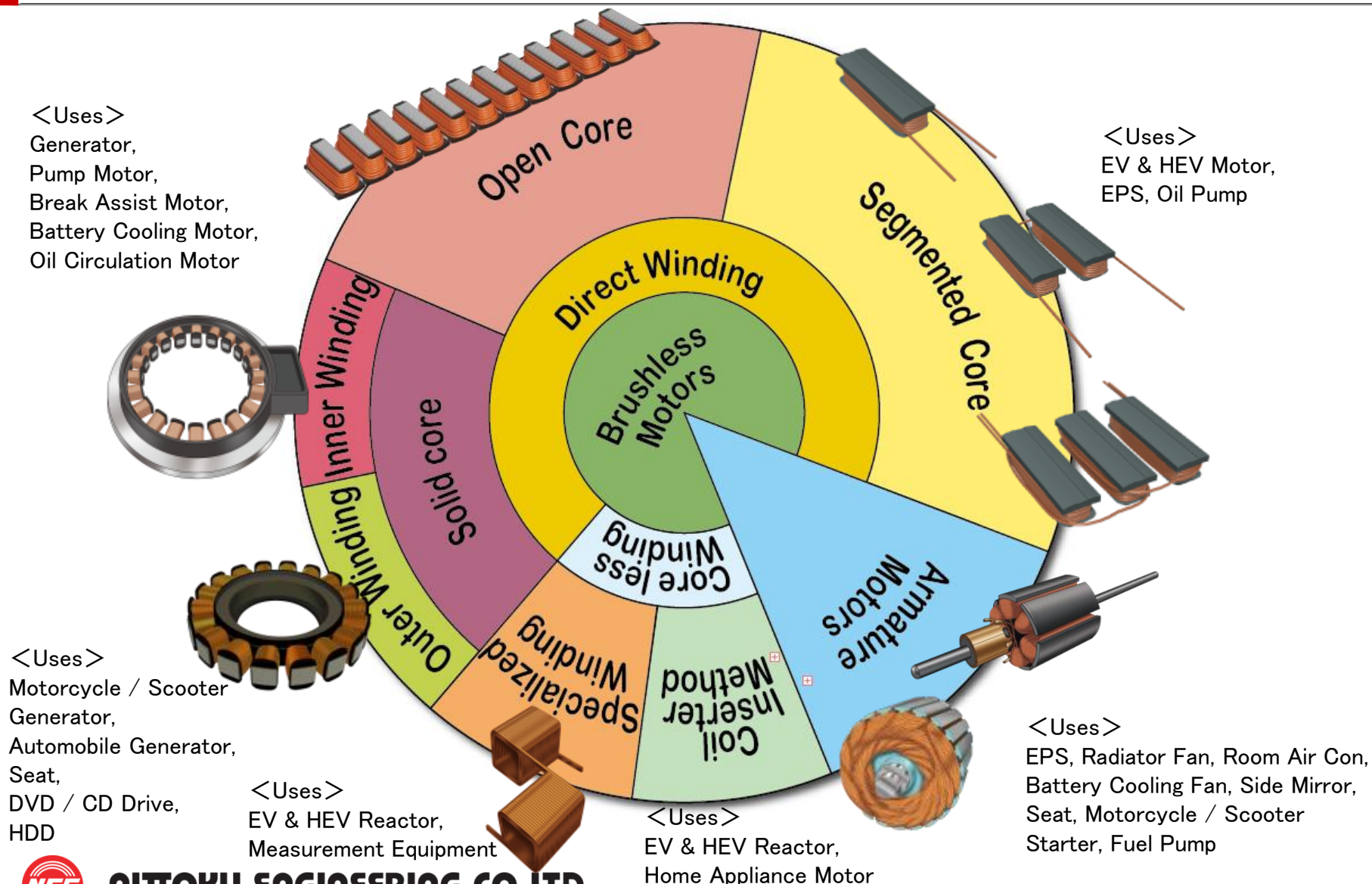
Thick Round Wire Forming / Winding



<Uses>
Ammeter

Motor Winding Methods (Control Technology)

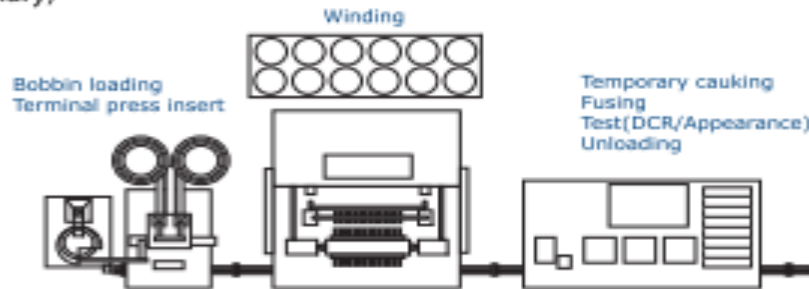
Winding Dept.



Automotive related coils winding

Winding Business

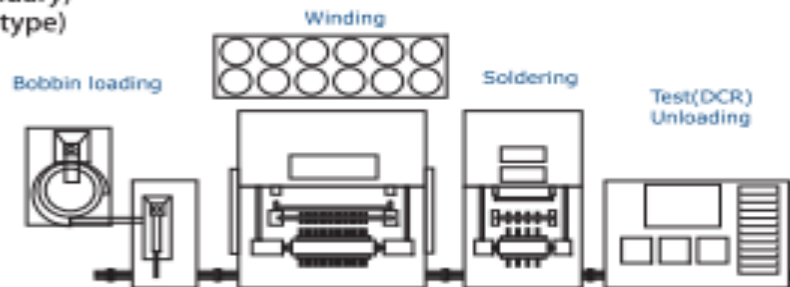
Ignition Coil (Primary)



Example)
Wire size : $\phi 0.6\text{mm}$
4sec./pc. by 195T

Line overall length:
Approx. 7m

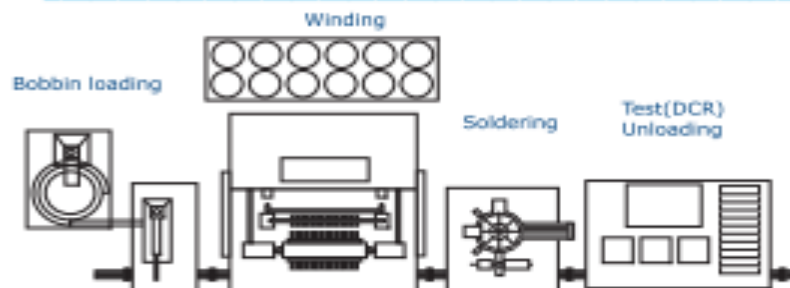
Ignition Coil (Secondary) (General sectional type)



Example)
Wire size : $\phi 0.045\text{mm}$
4sec./pc. by 15,000T

Line overall length:
Approx. 6m

Stepping Motor (Meter coil)



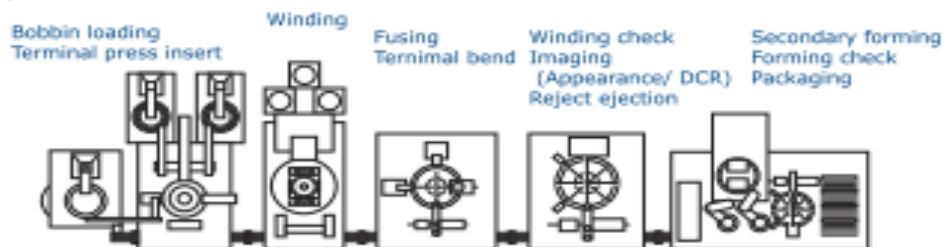
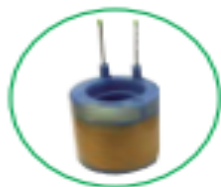
Example)
Wire size : $\phi 0.09\text{mm}$
2.5sec./pc. by 865T

Line overall length:
Approx. 6m

Automotive related coils winding

Winding Business

In-vehicle Solenoid (Streamlined line)



Example)

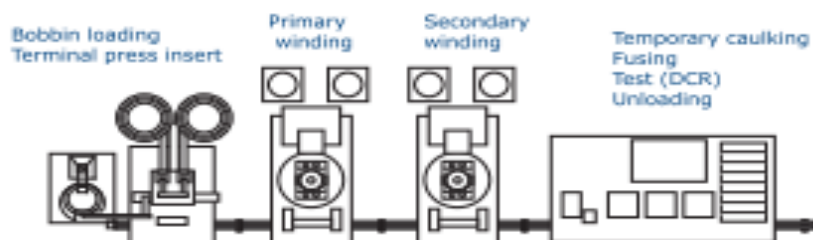
■ Bobbin: ABS coil
Wire size : $\phi 0.23\text{mm}$
4sec./pc. by 670T

■ Bobbin: ISCV
Wire size : $\phi 0.37\text{mm}$
6sec./pc. by 840T

■ Bobbin: AT coil
Wire size : $\phi 0.37\text{mm}$
4sec./pc. by 540T

Line overall length:
Approx. 8m

Magnet Switch

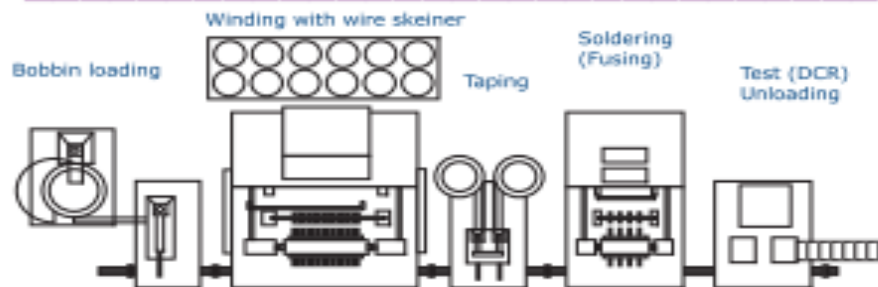


Example)

P-coil
Wire size : $\phi 0.89\text{mm}$
131T,
H-coil
Wire size : $\phi 0.6\text{mm}$
131T,
5sec./pc.

Line overall length:
Approx. 7m

ABS Sensor Coil



Example)

Wire size : $\phi 0.06\text{mm}$
11sec./pc. by 8,500T

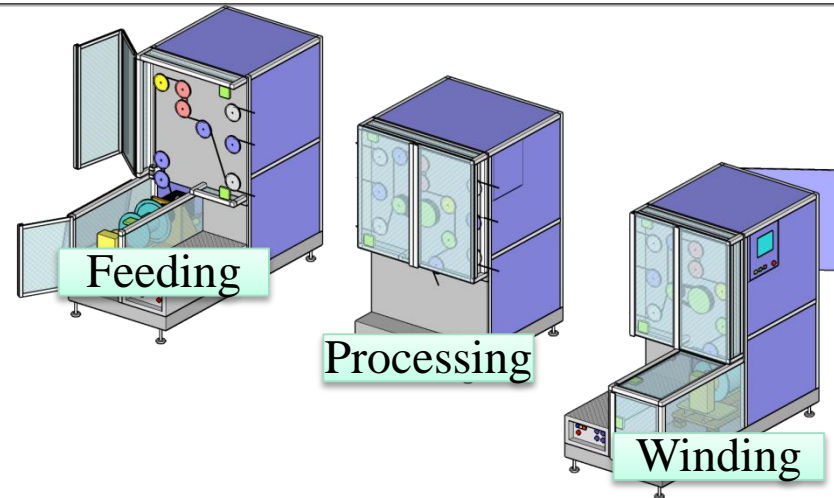
Line overall length:
Approx. 6.5m

Wire Handling System Reel to Reel

Winding Dept.

◆ R to R (Reel to Reel)

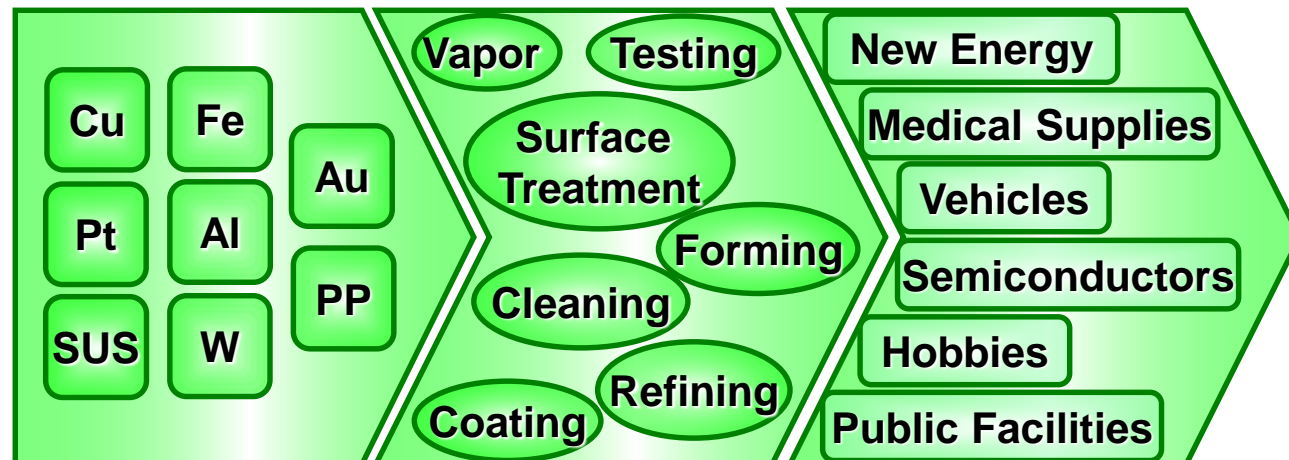
- Take Wire Material From Reel
- Transfer with Precision at Optimum Tension and Speed
- Conduct Processing and Inspection
- Re-roll



Experience

Process

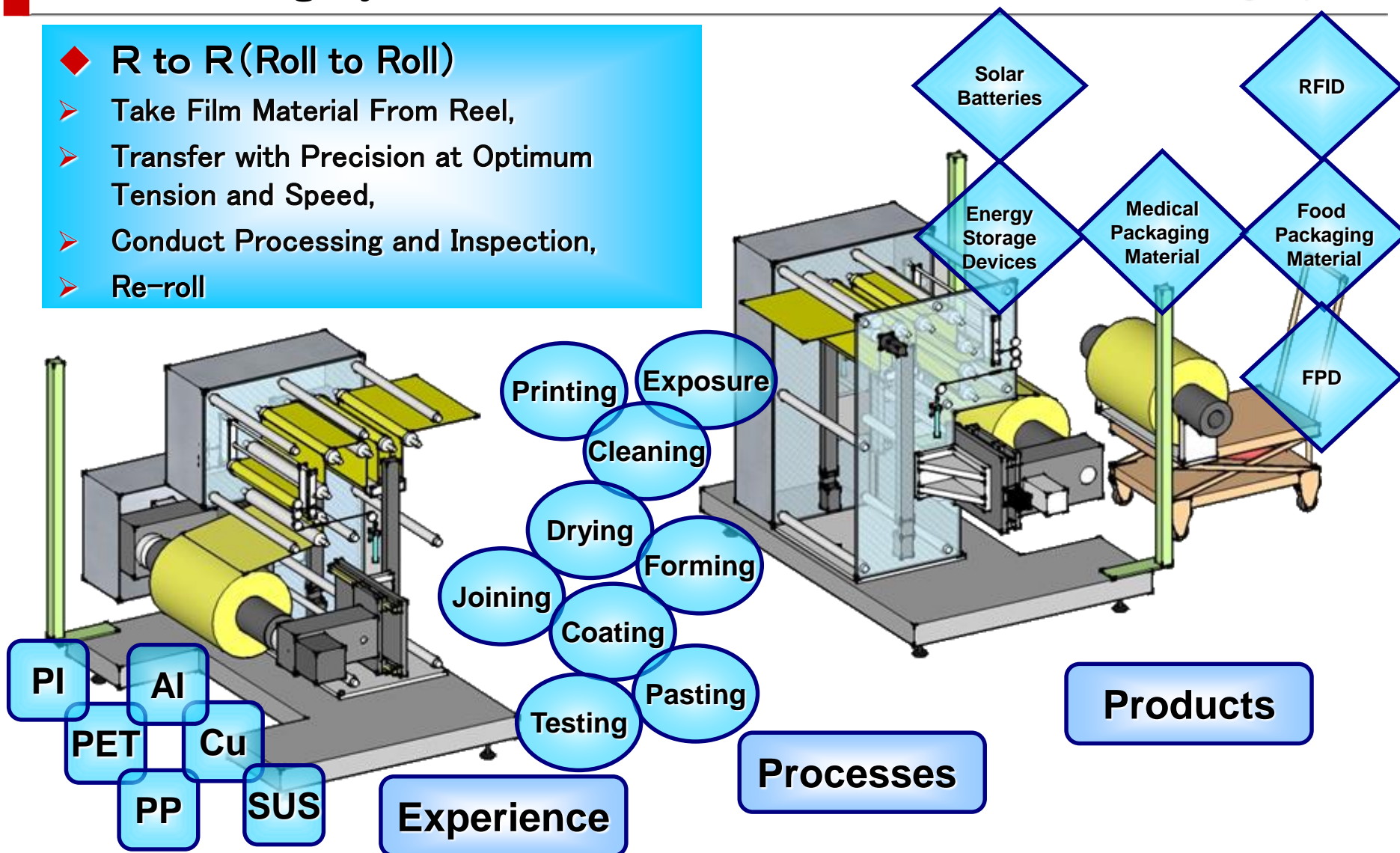
Products



Web Handling System – Roll to Roll

◆ R to R (Roll to Roll)

- Take Film Material From Reel,
- Transfer with Precision at Optimum Tension and Speed,
- Conduct Processing and Inspection,
- Re-roll



FA Base System Methods

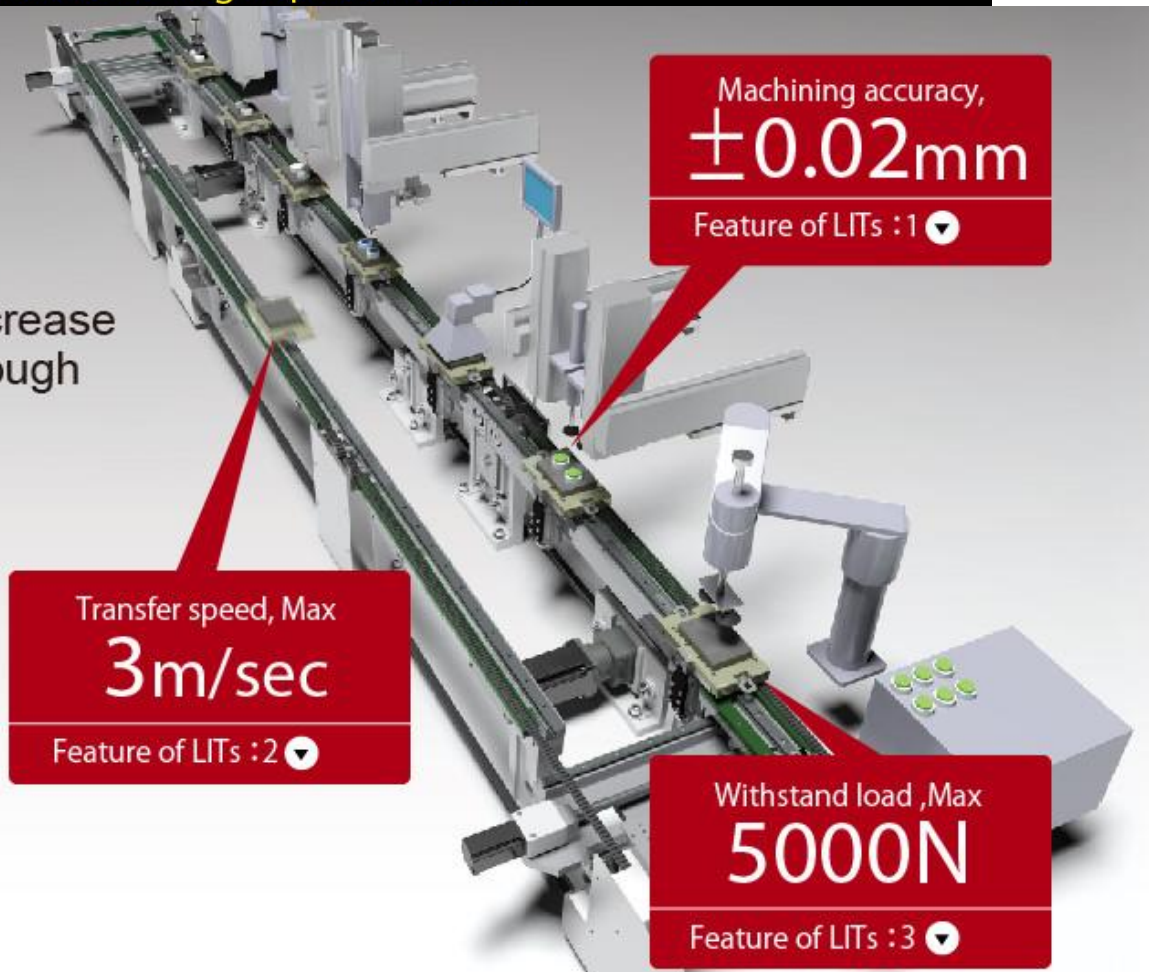
Applicable line:

Ideal for precision processing of detailed/small components and long-distance high speed transfer

LITS

Linear Index Transfer system

FA base system to greatly increase overall process efficiency through high speed transfer.



Machining accuracy,
 $\pm 0.02\text{mm}$

Feature of LITs : 1 ▼

Transfer speed, Max
3m/sec

Feature of LITs : 2 ▼

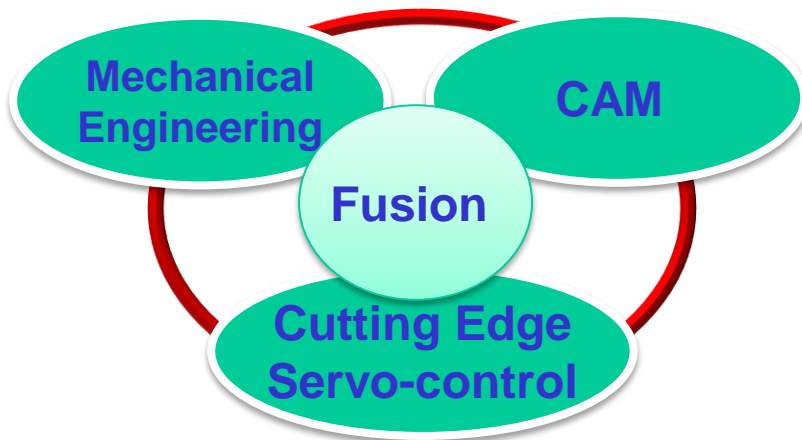
Withstand load ,Max
5000N

Feature of LITs : 3 ▼

Connector Terminal Insertion Automation Machinery *Connector Business*

【From miniature connectors to specialized insertion equipment】

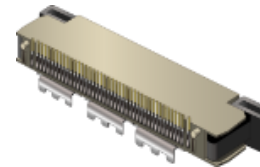
Nittoku Engineering creates optimal equipment for insertion, assembly, and examination for various connector types. Our extensive technological knowledge of mechatronics and servomotors enables us to handle even the tiniest work-pieces.



Circuit Board



Fine Wire
Coaxial Connector



FPC



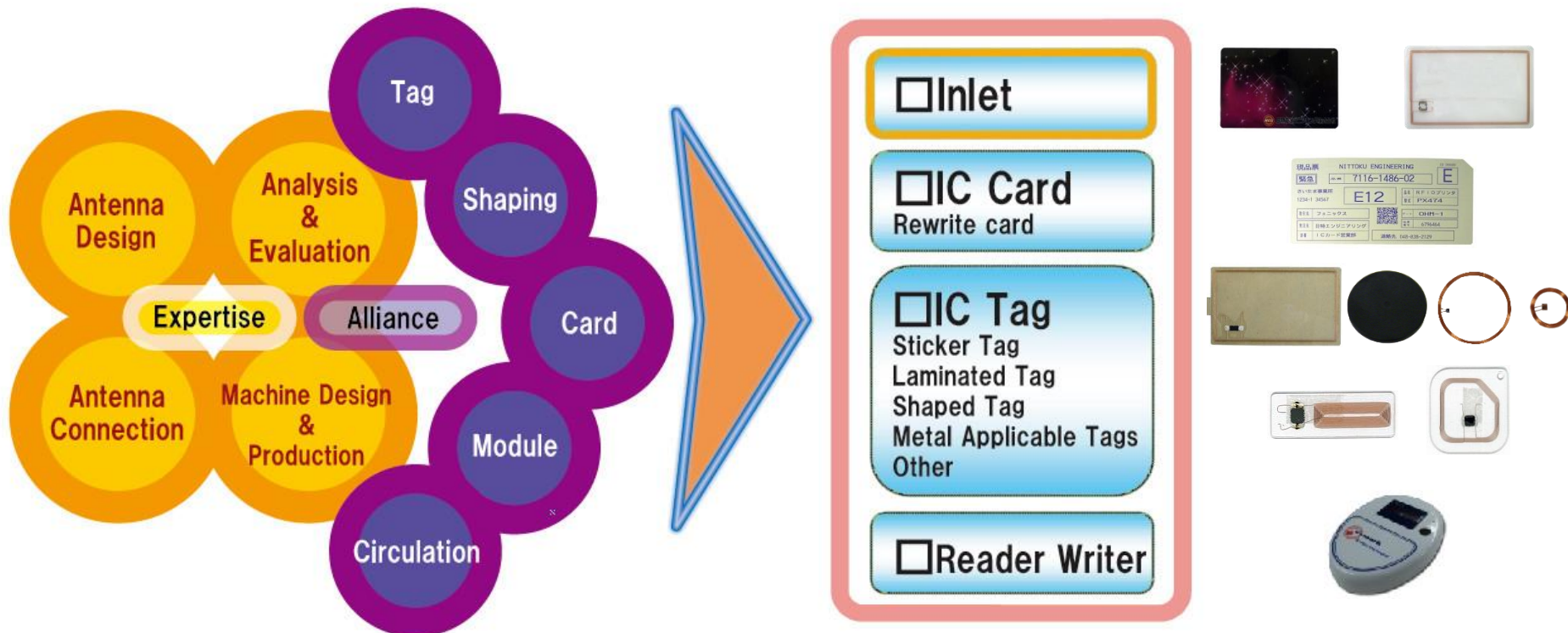
Automotive

Nittoku engineers possess extensive knowledge in automation development as well as molding and terminal design. Nittoku can provide automation support starting from early product design stage.

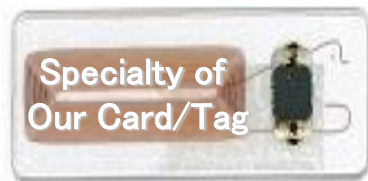
IC Tag / Card Business ①

- High Performance、Highly Reliable and Varied Lineup of Wireless Tags
- Production Flexibility: Inlet ~ Card & Tag ~ Encode

Nittoku's cooperative framework offers optimized RFID Embedded type Winding antenna design and production.



IC Tag / Card Business ②



Durability

Reliability

Reuse

Resource saving

Restaurants



**Residential
Registration card**



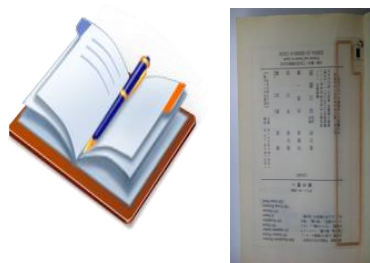
Wallet / Mobile



Game



Library Book stock



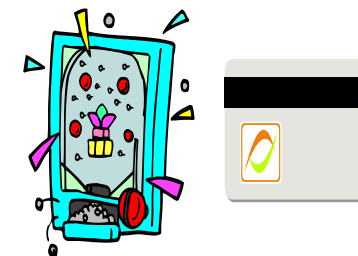
Products Tag



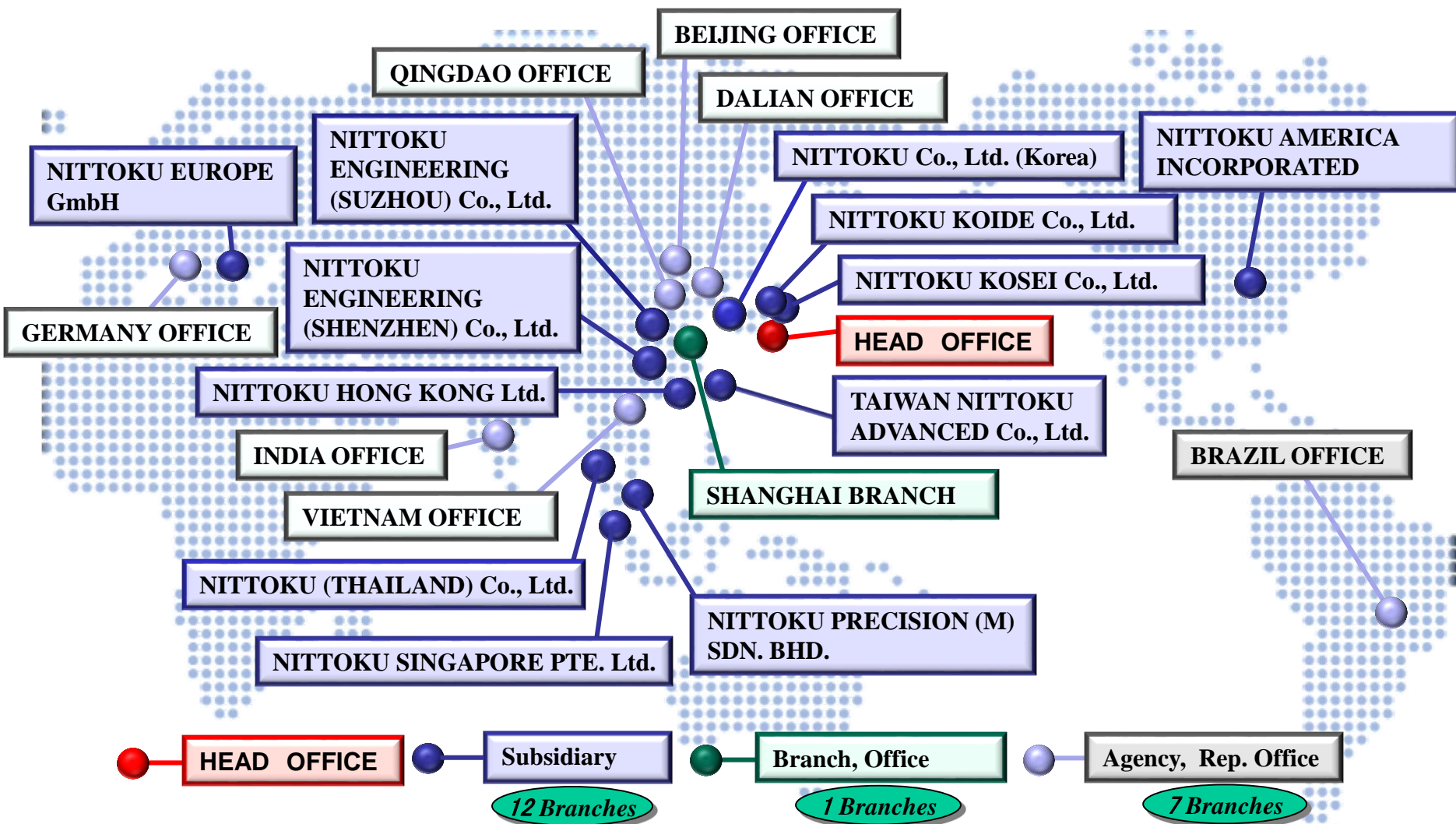
Food Traceability



Pachinko



Global Network



Domestic Branches

- Tokyo Sales Office
5-11-20, Shirahata, Minami-ku,
Saitama City, Saitama 336-8561
Tel +81(0)48-838-2122
Fax +81(0)48-838-2131
 - Nagoya Sales Office
3F Hongo Bldg., 2-203, Kamisha,
Meito-ku, Nagoya City, Aichi 465-0025
Tel +81(0)52-777-0661
Fax +81(0)52-777-0662
 - Osaka Sales Office
1F Kitano Haitsu, 2-3-6, Tagawa,
Yodogawa-ku, Osaka City,
Osaka 532-0027
Tel +81(0)66-300-0678
Fax +81(0)66-300-0685
 - Iino Factory / Fukushima Sales Office
17-3 Kanokojima, Aza, Meiji, Iino-machi,
Fukushima City, Fukushima 960-1393
Tel +81(0)24-562-4444
Fax +81(0)24-562-4445
 - Nagasaki Factory
2-1306-4, Ikeda, Omura City,
Nagasaki 856-0026
Tel +81(0)957-52-2109
Fax +81(0)957-52-2110
 - Home Page <http://www.nittoku.co.jp/>
-
- Nittoku Kosei Co.,Ltd. Head Office / Factory / Fukushima Sales Office
22-1, Umeno-machi, Aza, Kosaka,
Kunimi-machi, Date-gun, Fukushima 969-1784
Tel +81(0)24-585-5191
Fax +81(0)24-585-3236
 - Home Page <http://kosei.nittoku.co.jp/>
 - Nittoku Koide Co.,Ltd.
9-3, Shinkou-cho, Mitsuke City, Niigata 954-0076
Tel +81(0)258-66-0063
Fax +81(0)258-66-0064
 - Home Page <http://koide.nittoku.co.jp/>



Overseas Sales & Service Branches

- **NITTOKU (SHENZHEN) CO.,LTD.**
108, 1F, A Building, 5th District, Honghualing Industrial Zone,
Taoyuan Street, Nanshan, Shenzhen, China 518055
Tel +86 755-86028043 Fax +86 755-86028040
- **SHANGHAI BRANCH**
1603 Room, Sino Life Tower, 707 Zhangyang Road,
Shanghai, China 200120
Tel +86 21-6853-5620 Fax +86 21-3882-0642
- **NITTOKU HONG KONG LTD.**
Unit 1601, 16/F., Peninsula Tower, 538 Castle Peak Road,
Cheung Sha Wan, Kowloon, Hong Kong 999077
Tel +852 2512-2942 Fax +852 2512-2965
E-mail marketing@nittoku.com.hk
- **TAIWAN NITTOKU ADVANCED CO.,LTD.**
3Fl.,No.415,Sec.2, Tiding Blvd, Neihu District,
Taipei City, Taiwan R.O.C. 114
Tel +886 2-8751-5008 Fax +886 2-8751-5009
- **NITTOKU CO., LTD. (KOREA)**
Rm-401, #577-5, Gwaebeop-Dong Sasang-Gu
Busan, Korea 617-809
Tel +82 51-311-2978 Fax +82 51-311-2962
E-mail nittoku@paran.com

<http://www.nittoku.com.cn/>
<http://www.nittoku.co.jp/english/>
- **NITTOKU SINGAPORE PTE. LTD.**
BLK. 1092, Lower Delta Rd., #05, 14/15
Tiong Bahru Industrial Estate, Singapore 169203
Tel +65 62-783255 Fax +65 62-780566
E-mail jpc@nittokusg.com
- **REPRESENTATIVE OFFICE**
NITTOKU SINGAPORE PTE. LTD. IN HANOI
Room 12A2 Floor 13 Plaschem Bulding, 562 Nguyen Van cu,
Long Bien, Hanoi, Viet Nam 10000
Tel +84 436-521-310 Fax +84 436-521-301
E-mail vn-hau@nittokusg.com
- **NITTOKU (THAILAND) CO.,LTD.**
1091/241 City Link Storage Bldg.,Room105 New
Petchburi 35 Rd., Makkasan, Rajchatevee, Bangkok Thailand 10400
Tel +66 2255-5432 Fax +66 2255-5434
- **NITTOKU AMERICA INCORPORATED**
1224 Race Road, Baltimore, MD U.S.A. 21237
Tel +1 410-574-4960 Fax +1 410-574-7083
E-mail sales@nittokuamerica.com
Home page www.nittokuamerica.com
- **NITTOKU EUROPE GmbH**
Solarstraße 1, 9300 St. Veit an der Glan, Austria 9302
Tel +43 676-89-70-20-200 Fax +43 676-89-70-20-222
- **REPRESENTATIVE OFFICE**
NITTOKU EUROPE GmbH IN GERMANY
Radlkofenstr.2 Munich Germany 81373
Tel +49 89-741-185-335 Fax +49 89-741-185-339

Iino Factory

Established: December, 1991

Address: 17-3 Kanokojima, Aza, Meiji,
Iino-machi, Fukushima City,
Fukushima

Personnel: 252 (March 2015)

Area: 15,151m²

Business: R&D, Manufacturing,
Sales, & Service of :
Winding M/C,
Rewinding / Feeding M/C,
Peripheral M/C,
Transport / Handling M/C,
Specialized Precision M/C



Nagasaki Factory

Established: April, 2013

Address: 2-1306-4, Ikeda, Omura City,
Nagasaki

Personnel: 28 (March 2015)

Area: 3,800m²

Business: R&D, Manufacturing,
Sales, & Service of :
Rewinding / Feeding M/C,
Web Handling M/C,
Specialized Precision M/C



Urawa Factory

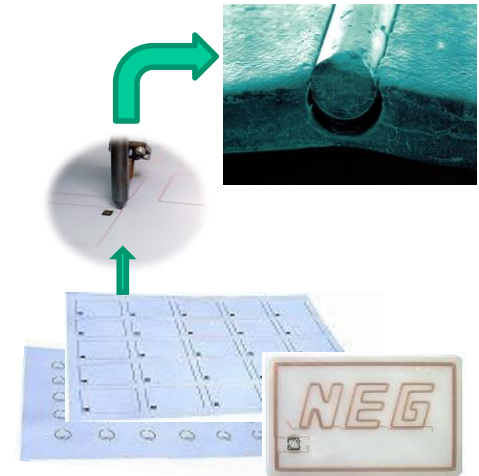
Established: March, 1991

Address: 5-11-20, Shirahata, Minami-ku,
Saitama City, Saitama

Personnel: 67 (March 2015)

Area: 2,855m²

Business: R&D, Manufacturing,
Sales, & Service of :
IC Tag & Card M/C &
Related Products



NITTOKU ENGINEERING (SUZHOU) CO., LTD.

Established: July, 2002

Address: No.2 Building,
45-47 Donghong RD.
Loufeng Subarea East,
Suzhou Industrial Park,
Suzhou City, China

Personnel: 82 (March 2015)

Area: 6,500m²

Business: R&D, Manufacturing,
Sales, & Service of :
Winding M/C,
Rewinding / Feeding M/C,
Connector M/C,
Peripheral M/C



NITTOKU ENGINEERING (SHENZHEN) CO., LTD.

Established: June, 2005

Address: 108, 1F, A Building, 5th District,
Honghualing Industrial Zone,
Taoyuan Street, Nanshan, Shenzhen,
China

Personnel: 41 (March 2015)

Area: 2,050m²

Business: R&D, Manufacturing,
Sales, & Service of :
Winding M/C,
Peripheral M/C



NITTOKU EUROPE GmbH

Established: May, 2015

Address: Solarstraße 1, 9300 St.
Veit an der Glan, Austria

Personnel: 20

Area: 787.5m²

Business: R&D, Manufacturing,
Sales, & Service of :
Winding M/C,
Peripheral M/C



NITTOKU (THAILAND) CO., LTD.

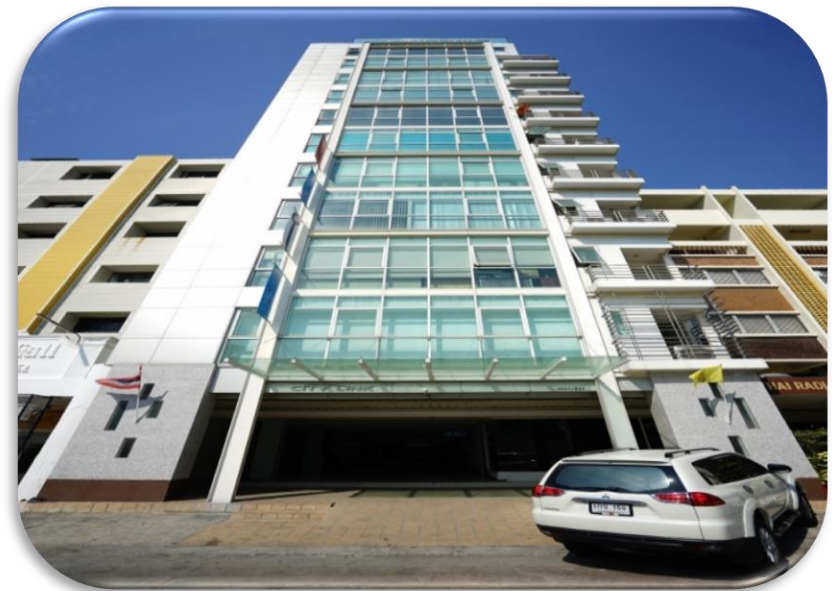
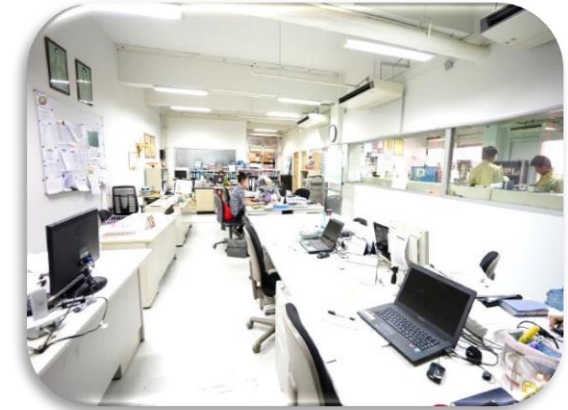
Established: July, 1996

Address: 1091/241 City Link Storage Bldg.,
Room 105 New Petchburi 35 Rd.,
Makkasan, Rajchatevee,
Bangkok, Thailand

Personnel: 13

Area: 500m² (As of 2016/1)

Business: Manufacturing,
Sales, & Service of :
Winding M/C,
Peripheral M/C





NITTOKU AMERICA, INC. |

NITTOKU

Established: 1987

Address: 1224 Race Road
Baltimore, MD
21237
USA

Personnel: 11

Business: Sales & Service



Hiroyuki
Yamazaki
CEO



Marian Vecerek
COO



Tom
Yang
SALES MANAGER



Jason
Zhen
PARTS MANAGER



Takako
Sekiyama
ADMIN MANAGER



Abeston
Wright
SALES ENGINEER



Mariko
Moore
PARTS ASSISTANT



Alexander
Josberger
SALES ENGINEER



SALES

PARTS

ADMINISTRATION

SERVICE



NITTOKU ENGINEERING CO., LTD.

NITTOKU KOSEI CO., LTD.

Established: November, 1974

Address: Fukushima Factory:
22-1, Umeno-machi, Aza, Kosaka, Kunimi-machi,
Date-gun, Fukushima
Yamagata Factory:
17-1, Otsuka, Aza, Amarume, Shonai-machi,
Higashitagawa-gun, Yamagata
Tokyo Sales Office:
5-11-20, Shirahata, Minami-ku,
Saitama City, Saitama

Personnel: 39 (March 2015)

Area: 1,976m²

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



NITTOKU KOIDE CO., LTD.

Established: January, 1974

Address: 9-3, Shinkou-cho, Mitsuke City, Niigata

Personnel: 26 (March 2015)

Area: 1,145m²

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

