Company Information

NITTOKU CO., LTD.
NITTOKU株式会社

2019
Profile

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 expansion
Challenge towards worthy creation
Despite its small structure, Nittoku is a reputed brand name worldwide

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.

Establishment September 28, 1972
Stated Capital 6,884,928,042 yen
Representative President (CEO) Nobushige Kondo
Employee Approximately 440 (Consolidated: approximately 790)
Principal Office 2-292-1, Azuma-cho, Omiya-ku, Saitama City, Saitama

Factory
- Fukushima Factory (winding machine development, production)
- Nagasaki Factory (FA development, production)
- Suzhou Factory (winding machine, peripheral equipment production)
- Changzhou Factory (Automatic machine parts)
- Shenzhen Factory (winding machine, peripheral equipment production, service)
- European Factory (winding machine, peripheral equipment production)
- Nittoku Singapore Pte. Ltd.
- Nittoku (Thailand) Co., Ltd.

Business Details Development, manufacturing and sale of automatic winding machines and parts.
Employees (non-consolidated)

As of March 31, 2018

Production Section

- Regular employee
  - Average age
    - 10’s (over 18): 6%
    - 20’s: 24%
    - 30’s: 17%
    - 40’s: 28%
    - 50’s: 22%
- Senior (incl. temp employees): 3%
- Overseas members: 30%

Overseas members (Consolidated)

- Domestic Members: 70%
- Overseas Members: 30%

Engineers: 204
- Production Support: 28
- Assembly and Adjustment: 134
- Manufacturing: 366
- Sales: 46
- Management: 76
- Production: 46

Domestic members: 70%
Winding system industry
15/04 Yr. - 18/03 Yr. (Nittoku internal study)

NITTOKU World Share
Approximately
36%
32 Billion yen

NITTOKU was chosen by the Ministry of Economy, Trade and Industry of Japan as one of "100 national global niche company selection" (2014) and "regional future traction company" (2017).

Sales By Industry

Automotive(incl EV) Sales increased

Automotive 41%
Information and Communication 24%
Specialized Machinery 12%
Parts 6%
PC OA 5%
AV, HA 4%
RFID
Other manufactures
Core Competencies

- Information Processing
- Assembly & Processing
- Control
- Speed
- Increased Production
- 3S Development concept
- Small
- Space-saving
- Saving
- Increased Investment Value
- Tension
- Wire Connection
- Transfer
- LIITs
Assembly & Processing Technology
Improvement of machine accuracy and durability
➢ Solid Casting
➢ Fabrication

Core Technology ①

Solid Casting by 5-face machining

➢ Excellent accuracy and maintainability
➢ Superior rigidity

NITTKOU 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

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.

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.
Tension Technology

- Maintain high product quality
- High machine productivity
- Extra fine wire applicable
- Tension Variability Function

Stable Tension

<table>
<thead>
<tr>
<th>Material</th>
<th>Tension</th>
<th>Winding speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>Min. 0.5 g ~</td>
<td>Max. 50m/sec</td>
</tr>
<tr>
<td>Non Copper</td>
<td>Min. 0.3 g ~</td>
<td>Max. 33m/sec</td>
</tr>
<tr>
<td>Film</td>
<td>Min. 1.5N/300mm</td>
<td>Max. 10m/sec</td>
</tr>
</tbody>
</table>

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
Core Technology

Transfer Technology
High-speed and high-accuracy
➢ Flexible line construction

Handling Technology
High-speed and high-accuracy
➢ Various workpiece applicable
➢ Multi-axis pitch conversion
➢ Sensing ➢ Alignment

Only-one line concept

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

Transfer Systems
➢ Free flow method
➢ Index method
➢ Linear motor Method
➢ LITs shuttle method

FA Base System
➢ LITs method
➢ Vacuum LITs transfer
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

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

<table>
<thead>
<tr>
<th>Spindle Method</th>
<th>Step Winding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multilayered Winding &amp; Taping</td>
<td>Power transformer, Vehicle solenoid, In-vehicle relay, Injector, Vehicle Sensor</td>
</tr>
<tr>
<td>Vertical Perfect Layer</td>
<td>&lt;Use&gt; Vehicle Ignition</td>
</tr>
<tr>
<td>Section Winding</td>
<td></td>
</tr>
</tbody>
</table>

### Ignition (pencil type)

<table>
<thead>
<tr>
<th>Spindle Method</th>
<th>Bank Winding (double traverse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Perfect Layer</td>
<td>&lt;Use&gt; Vehicle Ignition</td>
</tr>
</tbody>
</table>

### Vehicle Solenoid, Clutch coil, Stepping (flat type)

<table>
<thead>
<tr>
<th>Spindle Method</th>
<th>Specialized Section Perfect Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thick Wire Perfect Layer</td>
<td>&lt;Use&gt; Sensor</td>
</tr>
<tr>
<td>Bifilar Winding</td>
<td>Specialized Winding</td>
</tr>
<tr>
<td></td>
<td>&lt;Use&gt; Watch Coil</td>
</tr>
</tbody>
</table>

### Filter

<table>
<thead>
<tr>
<th>Bifilar</th>
<th>Toroidal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;Use&gt; Power Supply Noise Filter</td>
</tr>
</tbody>
</table>

### Special

<table>
<thead>
<tr>
<th>Spindle Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patented</td>
</tr>
</tbody>
</table>

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### Bobbinless Winding Methods

#### Information and Communication (speaker, Receiver, Earphone coil)
- **Spindle Method**
  - Spiral Winding
  - Intermittent Feed Winding
- **Flyer Method**
  - Spiral Winding
  - Intermittent Feed Winding
- **Spindle Method**
  - Intermittent Feed Winding

#### AV, PC ① (Sheet Transformer coil, Noise Filter coil)
- **Outer-Outer (Alpha)**
  - Round Wire
  - Flat Wire (flatwise)
- **Flat Wire (edgewise)**

#### AV, PC ② (VCM, DVD, offset coil, pick-up coil)
- **Spindle Method**
  - Intermittent Feed Winding
- **Flyer Method**
  - Chained Spiral Winding

#### AV, PC ③ (tuner, choke)
- **Spindle Method**
  - Spiral Winding

#### Clutch
- Spindle & Flyer Intermittent Feed Winding (with jig grooves)

#### Transformer coil, reactor
- Spindle Intermittent Feed Winding (Multi-layer)

#### Edgewise
- **Tight Winding**
- **Single Coil**
- **Chained Coil**

#### Special
- **Chained Winding**
- **Formed Winding**

#### Bobbinless Winding Methods
- **Spindle Method**
- **Spiral Winding**
- **Intermittent Feed Winding**
- **Flyer Method**
- **Spindle Method**
- **Spiral Winding**
- **Intermittent Feed Winding**
- **Litz Winding**
- **Inner-Outer**
- **Outer-Outer (alpha)**
- **Wireless Charger**
- **Smartphone**
- **Hearing Aid**
- **PC, Audio**
- **HDD**
- **PC, DVD Recorder**
- **Automobile, Air conditioner, Refrigerator, Washing Machine**
- **Automobile, Power Transformer**
- **Transformer coil, reactor**
- **Transformer, Noise Filter**
- **Motor**
- **Power Transformer, Reactors**
- **Industrial Equipment, Ammeter**
# Chip Winding and Wire Connection

## Power inductor

<table>
<thead>
<tr>
<th>Spindle Minute Winding</th>
<th>Flyer Minute Winding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flyer Round Wire Alpha Winding</td>
<td>Minute Flat Wire Flat Wise Alpha Winding</td>
</tr>
</tbody>
</table>

- **Size**: 1608 ~ (1.6 x 0.8mm)

## Chip inductor (high frequency)

<table>
<thead>
<tr>
<th>Flyer Minute Winding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: 0603 ~ (0.6 x 0.3mm)</td>
</tr>
</tbody>
</table>

### <Use>
- Vehicle PCB
- HA PCB
- Smartphone PCB

## Common mode

**Spindle Bifilar Winding**

### Other Methods

### <Use>
- Noise Filter

## Antenna

**Spindle & Flyer Minute Specialized winding**

### <Use>
- FA Tag
- Medical
- Game System Angle Sensor

---

Side Welding:
Thermo-compression Temperature Feedback Pulse Heat Method

- **Low back**: 0.8mm ~
Motor Winding Methods

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

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

<Use>
EV/HEV reactor, Measurement

<Use>
EV/HEV reactor, HA

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

Multiple Patented Methods
Next generation EV motor

**Winding Method**

1. 1 phase/ slot Spiral Winding
2. 2 phase/ slot True Spiral Winding
3. Inserter Style
4. Hairpin Style

**Components**

1. Traction motor
2. Water Pump
3. EPS
4. Electric compressor
5. Cooling fan
6. ABS
7. Slide Door

Patented
R to R (reel to reel)
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 33 m/sec

**Extra-fine**
Wire Dia. 5 μm

Feed → Process • Inspection → Transfer → Rewind

Wire
- Cu
- Fe
- Pt
- Al
- SUS
- W
- Au
- PP

Process
- Vapor deposition
- Inspection
- Conditioning
- Surface treatment
- Forming
- Plating
- Washing

Applications
- Semiconductor
- Medical device
- Automobile
- New energy
- Fishing Line
Web Handling System

**R to R (Roll to Roll)**
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

**Feed**
- Wire

**Process • Inspection**
- Forming
- Inspection
- Washing
- Printing
- Coating

**Transfer**
- Joining
- Printing
- Coating

**Rewind**
- Drying
- Exposure
- Attaching

Energy Storage
- Solar cell

FPD
- RFID

Packaging
- Medical Packaging
- Food Packaging

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**FA Base System**

**LITs • • • Linear Index Transfer System**

Ideal for precision processing of complex components of varying size and long distance transfer.

FA based system designed for high speeds and drastic increase of overall system efficiency.

- Takt Reduction
- Improved FA
- Labor Reduction
- Increased Quality
- Space Utilization
- Running Cost Reduction

**ITS • • • Intelligent Tag System**

Ideal for cooperation with higher system!

- System configuration example

- Max Processing Load: 5000N
- Accuracy: ±0.02mm
- Max Speed: 3m/sec
- High speed read / write: 128 bytes / 0.07 sec
IC Tag and RFID Card Business

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

### Antenna for IC card

<table>
<thead>
<tr>
<th>Inlet</th>
<th>IC Card</th>
<th>IC Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>➢ Rewrite Card</td>
<td>➢ Seal tag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>➢ Laminated tag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>➢ Molded tag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>➢ Metal compatible tag</td>
</tr>
</tbody>
</table>

![Embed copper wire in plastic sheet](image)

<table>
<thead>
<tr>
<th>Microchip</th>
<th>FA tag</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal smart chip</td>
<td>Glass tube tag</td>
</tr>
<tr>
<td>Syringe</td>
<td>Reader / writer</td>
</tr>
<tr>
<td>Handy R / W Terminal</td>
<td>ITS Tag</td>
</tr>
<tr>
<td>Certified as Ministry of Agriculture</td>
<td>Ultra small surface mounted antenna</td>
</tr>
</tbody>
</table>
Smart factory construction image

Transfer

FA Base System
LITs ×
FA Tag System
ITS

1. Supply
Parts Feeder
Handling
SCARA Robot
Palletizer

2. Primary assembly
Terminal Insertion
Core Assembly

3. Winding
Spindle Winding
Flyer Winding
Nozzle Winding

4. Joining
Welding, Pressure Welding
Adhesive
Thermo-compression Bonding
Laser Welding
USW

5. Filling
Plastic Filling

6. Secondary Assembly
Rounding,
Connection Plate Assembly,
Yoke Assembly,
Bus Bar Assembly,
Resolver Holder Assembly

7. Inspection
AOI,
Electrical Testing

8. Packing & Unloading
Emboss Taping
Tray
Stick

Module Example
Customer Service

Customer Service Concept: 「Always Available」

Reliable Nittoku Service

- Close to Customer
- Maintenance Contract
- Regular Visit Service
- Quick Response

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

Direct Local Sales

- Information sharing
- Local Engineer Training Service Feedback

Agency

Onsite Maintenance Service

Customer

Nittoku Local Staff

Nittoku Japanese Staff
Engineering and Technical Training Support

Reliable overseas technical support.

- Equipment Operation Training
- Program Modification
- Consumable Parts Exchange
- Specification Changeover

Nittoku provides long term support for custom machinery by working side by side with local customer production engineering staff.

Nittoku Local Staff Training

- Local staff travels to Japan
- Setup equipment at customer factory
- Equipment Adjustment
- Machine Operation Follow-up

Local engineers and technical staff undergo the same training and machine adjustment as their Japanese counterparts.
Overseas Sales & Service Branches

◆ NITTOKU ENGINEERING (SHENZHEN) CO., LTD.
108, 1F, A Building, 5th District,
Honghualing Industrial Zone, Taoyuan Street,
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Jiangsu Province, 213000, China
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Tel +52 656-314-7264

◆ NITTOKU EUROPE GmbH
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## Head office, domestic offices, subsidiaries

### HEAD OFFICE
- **Established**: March, 1991
- **Personnel**: 70 people
- **Size**: 2,091 m²

### NAGASAKI FACTORY
- **Established**: April, 2013
- **Personnel**: 100 people
- **Size**: 6,470 m²

### FUKUSHIMA FACTORY
- **Established**: December, 1991
- **Personnel**: 300 people
- **Size**: 20,791 m²

### NITTOKU KOSEI CO., LTD.
- **Established**: November, 1974
- **Personnel**: 90 people
- **Size**: 1,976 m²

### NITTOKU KOIDE CO., LTD.
- **Established**: January, 1974
- **Personnel**: 30 people
- **Size**: 1,145 m²
- **Business details**: R&D, Manufacturing, Sales, & Service of: Factory Automation M/C
Overseas Facilities

NITTOKU ENGINEERING (SUZhou) CO., LTD.

Established: July, 2002
Personnel: 70 people
Size: 6,500 m²

NITTOKU ENGINEERING (SHENZHEN) CO., LTD.

Established: June, 2005
Personnel: 50 people
Size: 2,050 m²

NITTOKU EUROPE GmbH

Established: May, 2015
Personnel: 30 people
Size: 787.5 m²

MASTER ELECTRONIC TECHNOLOGY (CHANGZHOU) CO., LTD.

Established: May, 2017
Personnel: 80 people
Size: 1,800 m²

NITTOKU (THAILAND) CO., LTD.

Established: July, 1996
Personnel: 20 people
Size: 500 m²