

NITTOSEIKO

Fastening Products
Digest Catalog

Screw Manufacturer

gives you seeds
for evolution



Screwdriver Manufacturer

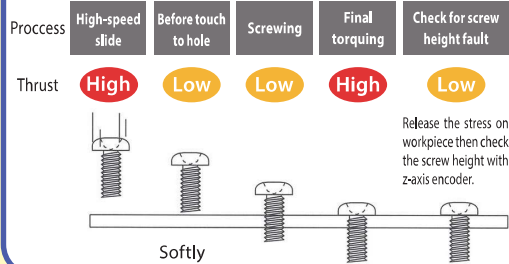
gives you hints
for innovation



Function of NejiRobo

Thrust force control

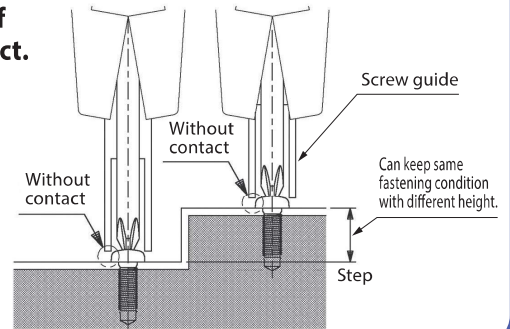
Optimum thrust control effectively prevents to damage to internal threads and cam-out.



Screw guide position variable control

Suitable for fastening of product that hate contact.

Can set height of the screw guide arbitrarily. It means that can fastening different height of positions, also fastening without contact of screw guide if needed.



Function of SR565Y0-ZZ

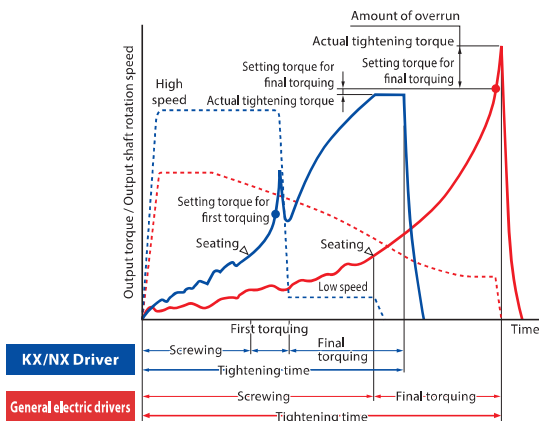
Function of motors & drivers

Two-step Torque Tightening

Enables high-speed and high-accuracy fastening.

First torquing and final-torquing is performed in succession. It's speed and accuracy are superior to ordinary screwdrivers which only tighten screws to each set torque at a dash.

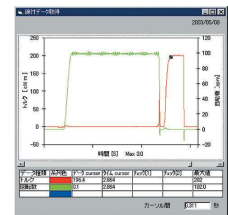
- Enabling high accuracy fastening with less torque variation.
- Enabling high speed fastening with high-speed rotation even when the torque increases.



Waveform display

Displaying tightening results in the waveform display.

The waveforms of torque(current values), rotations number of output shaft and angle, can be displayed on your PC monitor. This data is useful for performing fastening tests during the causes of fastening errors, and formulating production plans based on tact time.

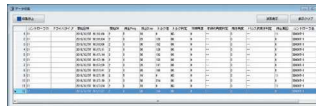


Software for collecting and saving data of waveform.

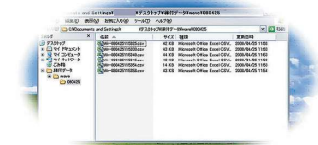
Can upload many kinds of data to PC.

Upload time, torque, angle and judgement data of each fastening.

Upload torque and angle data for each 1ms, and save it to CSV file.



Display and saving for result of fastening.

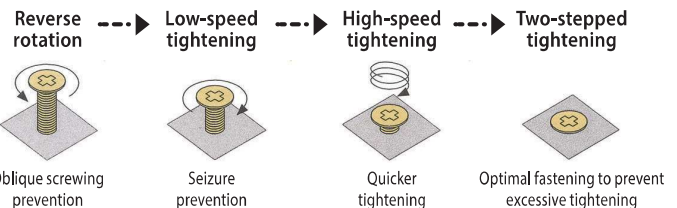


Display and saving for waveform of fastening.

Flexible fastening control

Eliminating problems such as thread stripping, cross threads etc.

Enabling flexible control of torque, speed, angle, direction of rotation, etc. Reducing fastening errors such as idle turn due to oblique screwing, seizure, and excessive tightening.

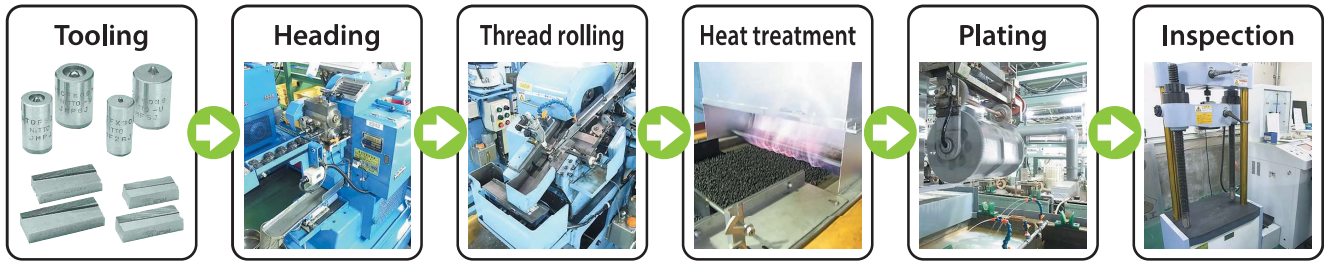


Adopted applications

- Automotive equipment
 - Lithium ion battery ·Power module ·Battery case ·Converter ·Inverter ·ETC ·Automotive navigation system ·ECU board ·PCU ·ABS ·Transmission ·Cylinder block ·AT valve ·Valve body ·Locker arm ·Turbo charger ·Oil pump ·Disk brake ·Drum brake ·Brake booster ·Airbag ·Steering ·Piston ring ·Hub ·Key cylinder ·Exhaust manifold ·Fuel tank ·Chain cover ·Instrument panel ·Sunroof ·Starter motor ·Window regulator ·Door mirror ·Head lamp ·Rear lamp ·Wiper motor ·Seatbelt ·Door
- Home electronics
 - LED lamp ·Television ·Washing machine ·Rice cooker ·Microwave ·TV tuner ·Refrigerator ·Air conditioner ·Fan heater
- Meter equipment
 - Smart meter ·Electric power meter ·Gas meter ·Water heater ·Stove burner ·Pneumatic equipment
- House equipment
 - Solar panel ·Fire-alarm box ·Panel ·Sash ·Washstand ·Sink cabinet ·Chair ·Steel house ·Breaker
- IT device
 - Hard disk drive ·Mobile base station ·Printer cartridge ·Cell phone ·Magnetic storage media ·Digital player ·Digital camera
- Medical and nursing care
 - Thermometer ·Hemodialysis apparatus ·Endoscope ·Hematology analyzer ·Wheelchair
- Amusement
 - Japanese pinball ·Slot machine ·Game machine
- Other
 - Servo amp ·Power box

Expert of Screw manufacturer

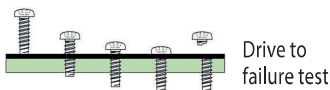
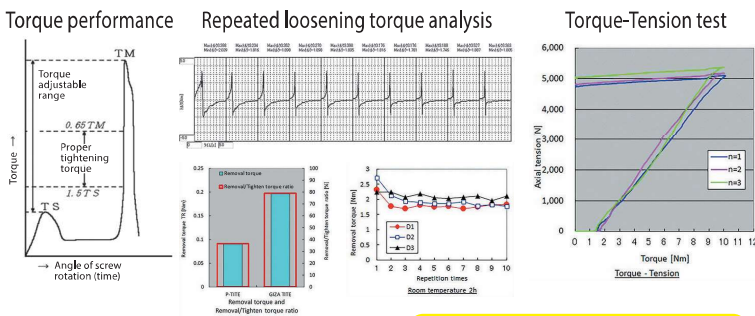
Start-to-finish production from tooling, manufacturing equipment to inspection



NITTOSEIKO expands their brand globally with providing tooling, manufacturing and inspection systems to offshore subsidiaries.

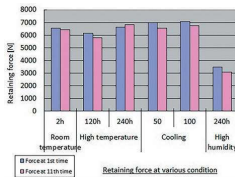
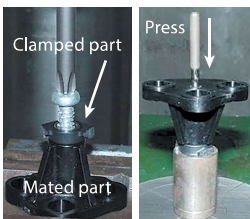


NITTOSEIKO provides the best condition for fastening



The best way to the goal is to know the facts.

Retaining (holding) force test



Vibration test

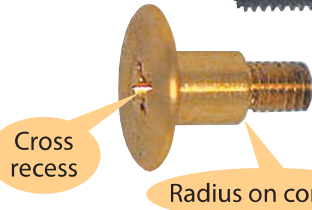
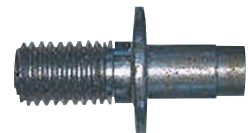


NITTOSEIKO provides solution with showing actual parts

PROTOPRO - Quick trial production - Professionals of cold heading realizes customer's image instantly. Protopro system's advantage is to supply trial products at totally same condition as cold-headed parts. Protopro can shape drive recesses like TORX® and Cross recess and radius at corners which can't be done by ordinary machining.



The best approach for costs reduction is to see actual parts.



Totally Support Fastening

NITTOSEIKO is a unique company who supplies,

- Industrial Fasteners (Screws)
- Automatic assembly systems, Automatic screw driving machines
- Measurement and Inspection equipment

NITTOSEIKO provides not only the best condition for fastening, but also optimized operation process which is beyond customer's expectation with integrating technologies and experiences stored at all through the group.

- Production work saving technology
- Fastening system technology

Customers

Total Support

- Measurement and control technology
- Ground survey technology

- Cold heading, Thread rolling technology
- Fastening technology

Fastening Equipments & Riveting Machines

AC Servo Screwdrivers

"KX" series

SD550 series
Offer unparalleled optimal fastening with detailed control

Torque is controlled with current as well as angle. To achieve the most durable drive available we choose an ac servo motor as the drive motor. Multiple programmable drive sequences are available for virtually any precision driving characteristics.



Features

- Torque, speed, time, angle, etc. can be set individually in numerical values.
- The screw fastening conditions can be selected from point to point.
- Maintains a high-speed rotation even with an increase of torque.



Maximum rotation speed
3,000min⁻¹

Torque range
0.08~45Nm

Torque transducer "NX" series

SD550T series

Offer more performance and reliability with torque transducer

The NX driver is mounted torque sensor based on KX driver. It achieves high performance and reliability. Of course basic function is same as KX driver.

Features

- Torque and judgment of tightening can be displayed on the panel.
- Optional function of waveform analysis can be judged fault of tightening immediately.



Maximum rotation speed
1,200min⁻¹

Torque range
0.2~80Nm

Torque accuracy
3~5%

CE

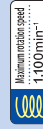
SD600T series

Introducing new series with High Accuracy and High Performance

Standardly installed Data collection and Waveform Analysis will provide safety and comfort to any user.

Features

- Number of channels is increased to 32 and ideal for high-mix/low-volume production system.
- Waveform Analysis comes in standard, and it will detect screw driving failure which could not be detected only by final torque check.
- Data collection functions using Ethernet, also comes in standard. It's useful for establishing traceability and finding root cause of screw driving failure.
- Renewed Communication Software is user-friendly.



Maximum rotation speed
1,100min⁻¹

Torque range
0.5~45N·m

Torque accuracy
2~3%

SD550T series (Option) / SD600T series (Standard)

Screw drive judgment can be determined by using Waveform Analysis function.

SD600T series (Standard)

All fastening waveform can be corrected by Data collection function.



Item	Unit	Value
Maximum rotation speed	min ⁻¹	1,100
Torque range	N·m	0.5~45
Torque accuracy	%	2~3

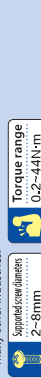
Hand-held Screwdrivers

Feedmat FM Hand-held series

Easy fastening with a single-hand operation

They let you perform manual work comfortably and raise efficiency. Screws are instantly fed from the feeder to the driver chuck under air pressure, thus guaranteeing continuous cycling.

- Enables fastening of maximum 30 screws in one minute with a single hand operation. (Number of fastening screws may vary depending on screw size, head shape, etc.)
- Widely used in the automobile industry and many other industries.



Supplied screw diameters
2~8mm

Torque range
0.2~4.4N·m

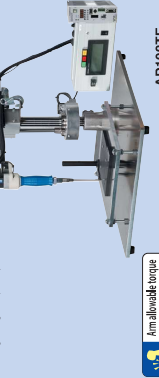
Screw are automatically loaded to the driver chuck.

Armdriver series

The KX or NX driver can be mounted on the balance arm and supports cell production. Optional encoder can detect position.

Features

- Generates no reaction force or impact during fastening and thus prevents inflammation of a tendon sheath.
- Reduces the strain on your hands and allows easy fastening.
- Enables fastening with a maximum torque 45Nm. (High rigidity V type)



Arm allowable torque
Max45N·m

Screw feeders

Disk type screw feeder DF200

Feed precision screws reliably

New concept of screw feeder for precision screws which conveys screws with a disk. Screws do not get stuck or jammed in the machine, and productivity is improved.

- Can be used with micro screws a diameter 0.6mm and many other types of screws.
- Suitable for use in an automated lines.
- Different sizes of screws can be easily used just by replacing the disk.



Supplied screw diameters
0.6~2mm

Feed rate
Max.30 screws per min.

Screws that could not be fed with conventional feeders can be fed.



Single-/Multi-spindle Screwdrivers

Feedmat FM Unit series

Easy mounting on the robot or lines

Screwdrivers are proven as attachments for robot arms and along automated assembly lines. Small and light weight, they are easy to attach and handle. Makes screwdriving completely automatic and labor saving.

- It is a ready-to-use system consists of a driver, a feeder, a controller and all other mechanisms.
- A variety of models are available according to applications.



Supplied screw diameters
1.7~8mm

Torque range
0.1~22Nm

Feedmat FM Multi-spindle series

Multiple screws can be fastened quickly at the same time

Screwdrivers can tighten more than 1 screw at the same time. This greatly reduces work time and ensures against uneven tightening. These machines are dependable in line operations as a spindle unit and can fasten screws in the horizontal direction as well as vertical up or down.

Features

- Enables fastening of two to six screws at the same time. Case of seven or more screws can be designed optionally.
- Each screwdriver is independently controlled, providing flexible work conditions.



Supplied screw diameters
2~8mm

Torque range
0.3~20N·m

Compact drum type screw feeder FF311DR

Allows stable feeding screw with washers

Has a simple mechanism to bring screws in line on the chute rail without jamming or sticking. It is useful for feeding screw with washers which are easy to have such problems.

- Compact sized body.
- High quality with lower price.
- Easy screw refilling thanks to removable drum.



Supplied screw diameters
1.2~3mm

Feed rate
Max.30 screws per min.

Chute rail
Uniquely-developed chute rail allows excellent efficiency of feeding even screws caption with washers.

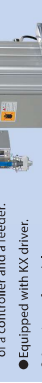
MeijiRobo (Screwdriving Robot)

Nitoman SR series

Screw manufacturer's know-how is built-in

A variety models, such as Cartesian type, Yθ (straight and slewing motion) type, horizontal type, twin spindle type and desktop type are available. SR565Yθ-Z, the newest model, has Z-axis which can control the thrust of fastening. Optimum fastening for each materials and each application is ensured.

- It is ready-to-use system consists of a controller and a feeder.
- Equipped with KX driver.
- A variety of models can meet various applications.



Supplied screw diameters
0.6~8mm

Torque range
0.08~22Nm

Riveting / Eyeleting Machines

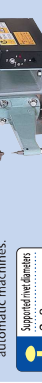
Rivet setter RS series

Easily, Reliable, Low-cost Riveting

Rivets are fed automatically to enable efficient continuous riveting.

Features

- A column type and a desktop type are available.
- An electrically-operated type for high-speed riveting and a hydraulic type for quiet riveting are available.
- Also can be used with automatic machines.



Supplied rivet diameters
2~8mm

Has ES series which are eyeleting machines. Can be used to soft materials such as plastic and ceramic.

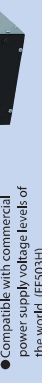
Supplied rivet diameters
1.2~6mm

Centerboard hopper type screw feeder FF series

Widely used as feeder for automatic machines

Our unique centerboard hopper style feeders are extremely versatile, and prevents screws from getting jammed, ensuring productivity.

- The reliable feeding and durability make the feeders suitable for use with an automatic machines.
- Compatible with commercial power supply voltage levels of the world. (FF503H)



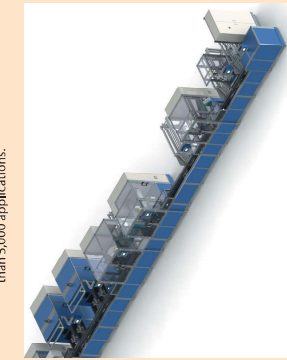
Supplied screw diameters
2~8mm

Feed rate
Max.30 screws per min.

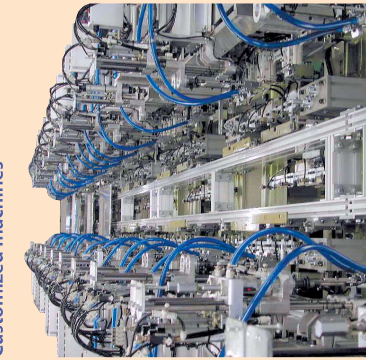
Note4
Feed rate was counted with single escapement.

Customized automatic assembly machines

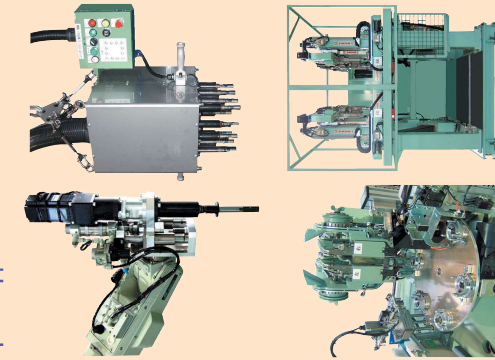
Can be built customized machine which includes specification and request from customer. Also can be provided best proposal with our technology and experience of more than 5,000 applications.



Customized machines



Special applications of standard machines



Note1: This page describes the general features and specifications of the driver series, which may be different from those of individual models.

Note2: We offer a variety of options and special specifications. Consult us for more details.

Note3: Pictures show example of machine construction.

Note4: Feed rate of screw feeder may vary depending on screw size, head shape, etc.

For more details, visit our website.

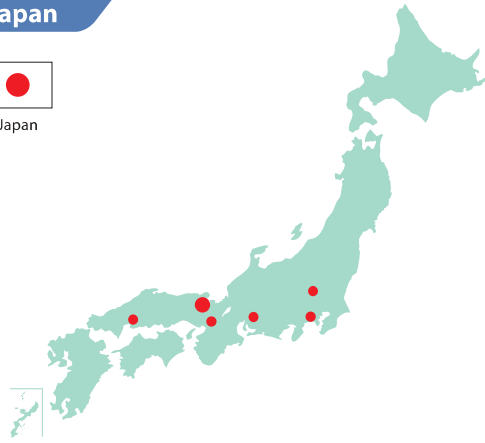
<https://www.nittoseiko.co.jp/en.html>

Network

Japan



Japan



If you have question about screws, cold-forged parts and pins, please feel free contact us.



Fastener Division

10, Bodai, Shimoyata, Ayabe City,
Kyoto, 623-0116, Japan
Tel. +81-6-6745-8392 (Global Sales Section, Osaka)
E-mail : sales@nittoseiko.co.jp

Contact for Screw Driving Machine, Riveting Machine and Automation



Machinery Division

2, Shiroyama-cho, Ayabe City,
Kyoto, 623-0003, Japan
Tel. +81-773-42-1290
E-mail : sales@nittoseiko.co.jp

Global



1



U.S.A.
NSA



Screw(Industrial Fasteners)
Assembly Machines
Measurement and Inspection Equipment

**NITTO SEIKO
AMERICA CORPORATION**
1301 Rankin Dr. Troy, MI 48083 U.S.A.
Tel. +1-248-588-0133

2



U.S.A.
NSA



Screw(Industrial Fasteners)
Assembly Machines
Measurement and Inspection Equipment

**NITTO SEIKO AMERICA CORPORATION
TENNESSEE OFFICE**
P.O.Box 280777, Nashville, TN 37228 U.S.A.
Tel. +1-248-588-0133

3



Korea
KOR



Screw(Industrial Fasteners) etc
Assembly Machines
Measurement and Inspection Equipment

NITTOSEIKO CO., LTD. KOREA OFFICE
71, Gyesansae-ro, Gyeong-gu, Highverras Bldg D-1209-2,
Incheon, Republic of Korea
Tel. +82-70-7612-5007

4



China
NPS



Screw(Industrial Fasteners)
Assembly Machines

NITTO PRECISION SCREW INDUSTRIAL(ZHEJIANG) CO., LTD.
NO.48, Huang Shan Road, Huimin Block, Jiashan, Zhejiang, China
Tel. +86-573-8475-3988
Website : <http://www.nitto-nps.com/>

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Taiwan, R.O.C.
SHI-HO



Screw(Industrial Fasteners)
Assembly Machines

SHI-HO SCREW INDUSTRIAL CO., LTD.
NO.12, Yeong Chuen Street, Sheau Gaang District, Kaohsiung Taiwan, Republic of China
Tel. +886-7-871-3198
Website : <http://www.shiho.com.tw/>

6



Thailand
NST



Screw(Industrial Fasteners)
Assembly Machines

NITTO SEIKO (THAILAND) CO., LTD.
84/2 Moo 9 Theparak Road, Bangpla, Bangplee, Samutprakarn, 10540, Thailand
Tel. +66-2-315-4142
Website : <http://www.nittoseikothailand.com/>

7



Thailand
TNM



Assembly Machines
Measurement and Inspection Equipment

THAI NITTO SEIKO MACHINERY CO., LTD.
9/158 Moo 5, Phaholyotin Road, Klong 1, Klong Luang, Patumthani, 12120, Thailand
Tel. +66-2-902-0916
Website : <http://www.fact-link.com/home/thainsm/>

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Malaysia
MPM



Screw(Industrial Fasteners)
Assembly Machines

MALAYSIAN PRECISION MANUFACTURING SDN.BHD.
NO.3, Lorong Perak 3 Kawasan Perusahaan, 42500,
Telok Panglima Garang, Kuala Langat, Selangor, Malaysia
Tel. +60-3-3122-7405

9



Indonesia
NAI
INT



Screw(Industrial Fasteners)
Assembly Machines
Measurement and Inspection Equipment

PT. NITTO ALAM INDONESIA / PT. INDONESIA NITTO SEIKO TRADING
JI Manis II, Kawasan Industri Manis, Tangerang, Banten, 15810, Indonesia
Tel. +62-21-591-8691
Website : <http://www.nittoindonesia.co.id/>

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Indonesia
NAI



Screw(Industrial Fasteners)

PT.NITTO ALAM INDONESIA BEKASI FACTORY
Delta Silicon Industrial Park Lot 7-8/9, Lippo Cikarang,
Bekasi-Jawa Barat, Indonesia
Tel. +62-21-8991-5651

NITTOSEIKO CO.,LTD.

<https://www.nittoseiko.co.jp/en.html>

NITTOSEIKO



● For improvement in performance, specifications are subject to change without notice.

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