

With Quicher, it is easy to rearrange the production line to meet the change of screw diameter and form. It also helps you to improve the quality control and productivity.

Quicher, the automatic screw feeder, accelerates the speed of screw tightening job faster than handwork. We now made it possible to tighten the special and difference sizes of screws with one machine by introducing a unique replaceable rail system (the first in the world).

When you have to change the size of screw for the different screw tightening job, what you have to do is just replace the rail. You need not to change the screw feeder itself. It also helps you to reduce the facility investment cost. The horizontal screw carrying system made it possible to feed screw smoother and faster than other conventional feeders. Quicher, with its versatility and high work efficiency, helps you to improve your screw tightening job.

Quicher
Precision Screw Feeder



The standard screwdriver bits on the market can be used.

The screwdriver does not require any special bit. You can use the standard bit on the market. To pick up the screw with bit, descend the magnetized bit vertically along the V-shaped groove of the bit guide, clutch the bit to the screw head, and pull it toward you. It copes with suction type.



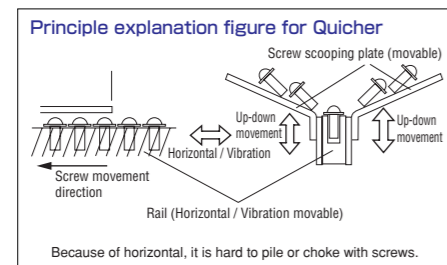
It takes only five seconds to replace the rail.

With an Allen wrench, you can replace the rail within five seconds. Loosen the screw fixing the rail and replace the rail. Adjust the position of the rail and tighten it with the fixing screw.



The horizontal screw carrying system ensures stable screw feeding.

Unlike the vertical screw carrying by gravity, the screws are carried forward horizontally by vibration of the motor. With this screw carrying method, the screw clogging is eliminated.

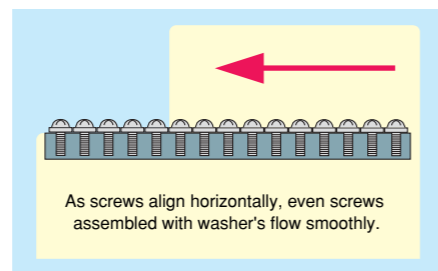


It feeds two screws every one second.

Compared to the manual operation, you can expect the tightening job three to five times faster. Quicher can feed two screws every one second and help you to increase the productivity.

It also copes with the one with washer and special screws, too.

Because of the horizontal screw carrying system, it also copes with the screws like the short neck length and the screws assembled with washer.



Just replace the rail to change screw size.

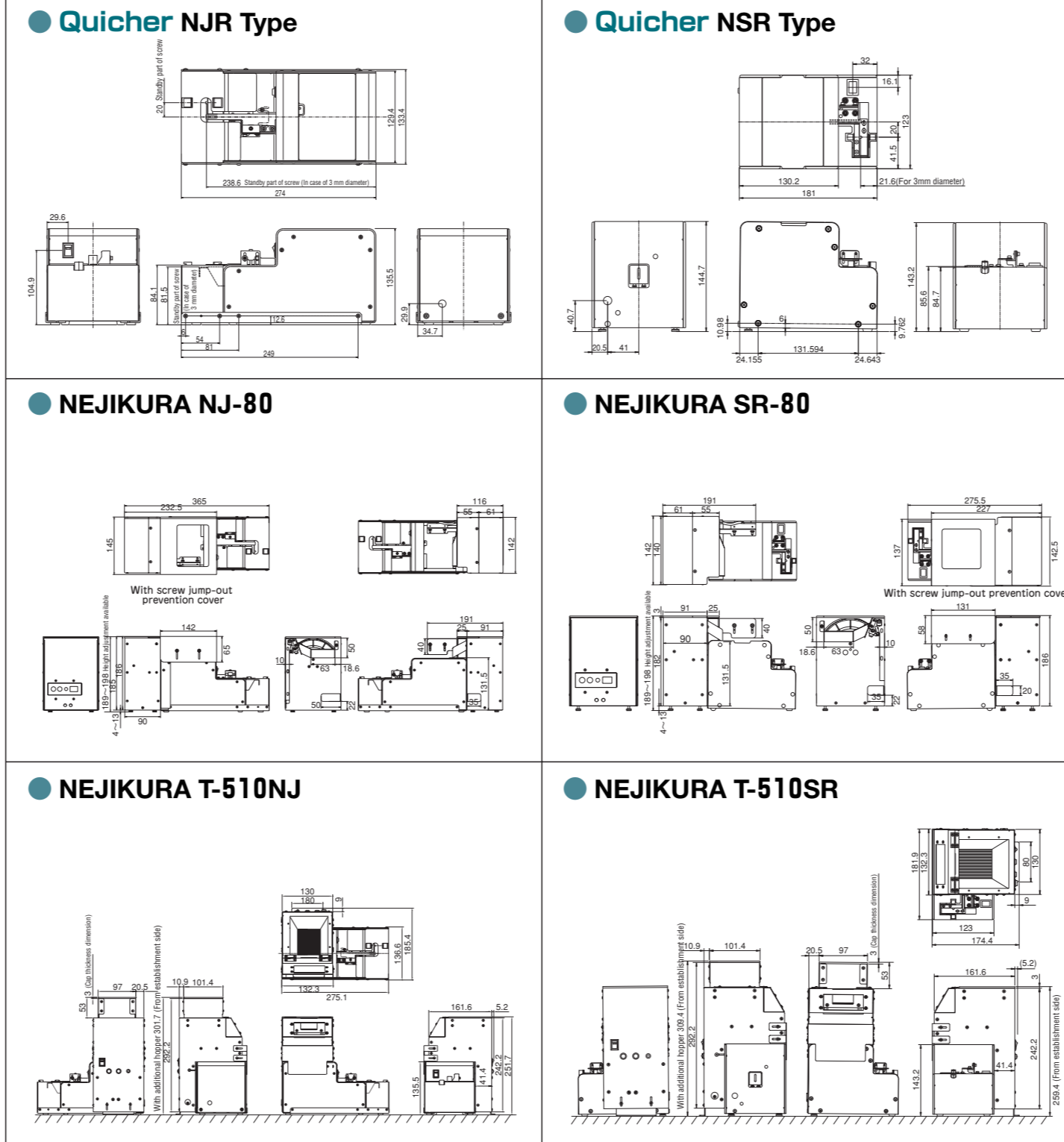
Quicher is suitable to use various screws just by replacing the rail containing respective screw size. For the NSB series, eight different rails are available.

Other features

- * It is easy to handle and takes only about 10 minutes to learn operation.
- * It is easy to supplement screws. Just fill up hopper.
- * If screws are overloaded or clogged, power source will be automatically cut off.



Outline Figure



⚠ Note: For your safety, be sure to read this instruction manual thoroughly before you operate this machine.

※ The specifications and appearance may be changed without prior notice to improve quality of machine.



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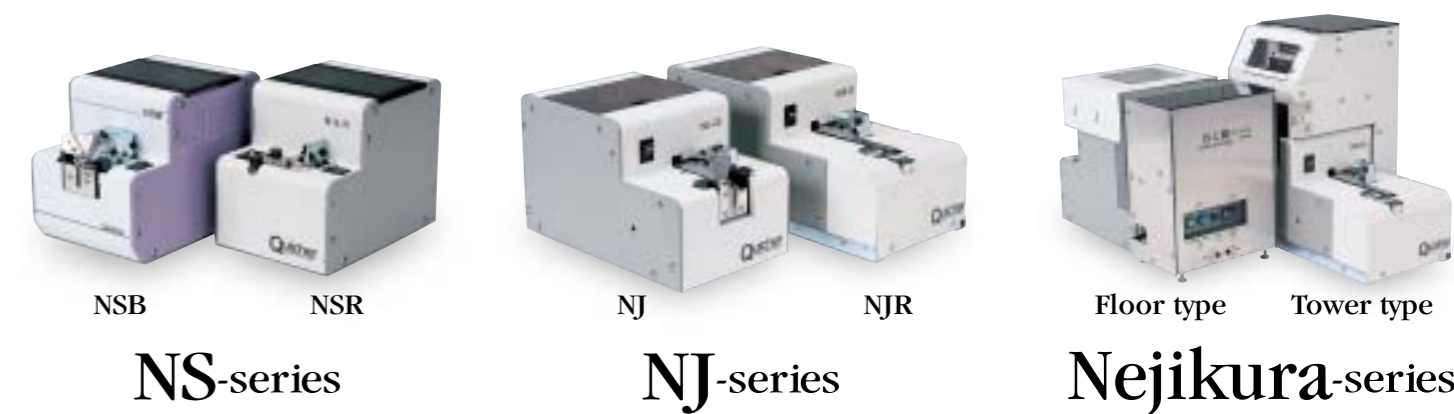
Quicher

Precision Screw Feeder

Automatic Screw Feeder [Quicher] Series



Quicher alone can cope with various types of screws. Automatic screw feeder with the world's first replaceable rail.



With Quicher, it is easy to rearrange the production line to meet the change of screw diameter and form. It also helps you to improve the quality control and productivity.

Quicher

Precision Screw Feeder

NS-series

Introducing new bit guide

This new bit guide leads the screwdriver bit to the center of the screw head. It will improve productivity.

With a sliding adjuster, the bit size can be changed.

The adjustment fitted to the bit size is possible.



It carries screws smoothly.

Increased durability and long life is assured.

◁Modification on screw feeding section▷

The load on the motor is decreased and efficiency of the screw alignment is increased.

◁Adjustment of rail angle▷

The tilting angle of the rail is adjustable according to the screw size to be used.

◁Adjustment of amplitude▷

The amplitude is adjustable to suit the screw size to be used.

◁Without rolling▷

The rolling of the rail is eliminated and the screws are carried smoothly.

One Quicher can cope with eight different sizes of screws.



Optional parts

The NS series cope with eight different sizes of screws just by replacing the rail (8 sizes from M1.0 to M3.0)

NSR TYPE Automatic Version



Optional parts

Quicher NSR

Applicable screw size: from M1.0 to M3.0
Applicable screw length (under head): up to 20mm
Scooping chamber capacity: 80cc
With protection and recovery circuit

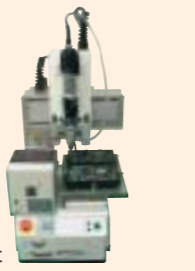
※ It copes with special screws (SW, PW and short neck length etc.)

NSR (Automatic version)

To meet the change of the screws, just replace the rail and the escaper. The sticking grease on the rail can be wiped off by pulling it out from the rear side of Quicher. A screw existence signal is attached to the screw pick out section.



Exchange of NSR rail



Example of NSR and Robot

Easy to replace rail

NSB

It is easy to replace the rail to meet the change of screws.



Exchange of NSB rail

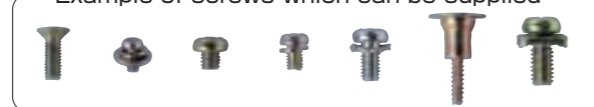
Other capabilities

It is compact and space saving.

With installation of Nejikura, the large stock of screws can be loaded.

It is equipped with an overload backstop protection circuit.

Example of screws which can be supplied



Quicher

Precision Screw Feeder

NJ-series

NJ TYPE

NJ type

Applicable screw size: From M1.4 to M5.0
Applicable screw length (under head): up to 18mm
Scooping chamber capacity: 150 cc
Standard screwdriver bit can be used

With protection and recovery circuit

※ Standard screwdriver bits and suction types can be used.
※ It copes with special screws (SW, PW and short neck length etc.)



Loading screws



Aligning screws



Picking up screws



Additional rail

Holding plate

Optional Parts

NJR TYPE

NJR type

Applicable screw size: From M1.4 to M5.0
Applicable screw length (under head): up to 18mm
Scooping chamber capacity: 150cc
With protection and recovery circuit

※ It copes with special screws (SW, PW, and short neck length etc.)



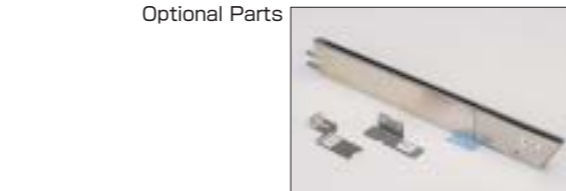
NJR installed with Robot



Setting screws



Picking up Screws



Passing plate/ Escaper/ Rail

Optional Parts

By connecting with Nejikura, long period of time operation is available.

With a hopper installed, unmanned operation for the long period is available.

Smooth screw feeding

The screws can be supplied without failing to keep up the robot's operation. It is equipped with an overload reverse protection circuit. A screw existence signal is attached to the screw pick out section.

Type	Screw Nominal Size	Applicable Rail
NJ-12	1.4mm	R-14
	1.7mm	R-17
NJ-23	2.0mm	R-20
	2.3mm	R-23
	2.6mm	R-26
	3.0mm	R-30
	3.5mm	R-35
NJ-45	4.0mm	R-40
	4.5mm	R-45
	5.0mm	R-50

When you place an order, please specify the type number of the applicable rail.

Type	Screw Nominal Size	Applicable Rail
NJR-12	1.4mm	RR-14
	1.7mm	RR-17
NJR-23	2.0mm	RR-20
	2.3mm	RR-23
	2.6mm	RR-26
	3.0mm	RR-30
	3.5mm	RR-35
NJR-45	4.0mm	RR-40
	4.5mm	RR-45
	5.0mm	RR-50

One Escaper comes with the rail.

NEJIKURA

Precision Screw Hopper

Continuous operation with Quicher

Because NEJIKURA supply a proper quantity of screws continuously, it minimize the load to Quicher and save its life.



Numbers of screws that 800cc hopper can take:
M2.3x5: approx. 20,000 pieces
M3.0x6: approx. 5,600 pieces

Floor Type

Applicable screw size: from M2.0 to M5.0
Applicable screw length (under head): up to 15mm
Hopper capacity: 800cc
With Quicher cover

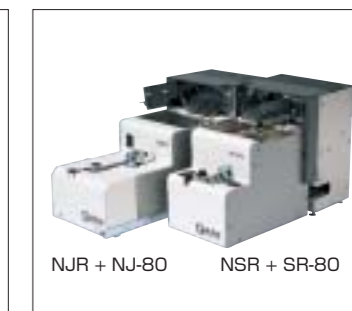
NEJIKURA floor type (SR-80, NJ-80)

- It is easy to install. Just place it beside Quicher.
- It is small and space saving, but takes up to 800cc of screw stock.
- It requires no vertical space.

A sensor detects the amount of screws in Quicher and NEJIKURA supplies optimum amount of screws automatically. The working time of the rotor (impeller) can be adjusted by a timer.



With screw jump-out prevention cover (Accessories)



Example of setting (Figure without cover)

Available combinations of Quicher and NEJIKURA

NEJIKURA Type	Quicher
NJ-80	NJ/NJR
SR-80	NSB/NSR

NEJIKURA tower type (T-510)

- It is easy to install. Just place it on Quicher.
- It saves the floor space. The amount of stock can be increased in the height direction.
- A sensor detects the amount of screw in Quicher. It is the labor saving.

A sensor detects the amount of screws in Quicher and NEJIKURA supplies optimum amount of screws automatically. The tact time of the belt conveyor can be adjusted by a timer.



Numbers of screws that 400cc hopper can take:
M2.3x5: approx. 10,000 pieces
M3.0x6: approx. 2,800 pieces

Tower Type

Applicable screw size: from M1.0 to M5.0
Applicable screw length (under head): T-510S → 20 mm, T-510J → 18 mm
Hopper capacity: 400cc
Additional hopper capacity: 400cc

Available combinations of Quicher and NEJIKURA

NEJIKURA Type	Quicher
T-510S	NSB/NSR
T-510J	NJ/NJR



Setting example: Quicher, T-510 and additional hopper.

NS series

Model Name & Number	NSB	NSR
Size	123(W)×181(D)×145(H)	123(W)×181(D)×145(H)
Weight (including rail)	Approx. 2.92 Kg	Approx. 3.01 Kg
Power Source	AC 100V, DC 12V 500mA, AC adapter	
Protection & Recovery Circuit	Motor overload stop. Protection circuit for reverse power connection	
Applicable Screw	From M1.0 to M3.0 (Refer right table for applicable rails)	
Applicable Screw Length (under head)	Up to 20mm	
Scooping Chamber Capacity	80 cc	
Accessories (in package)	Instruction Manual Allen Wrench (L shaped, 2mm) AC adapter Passage Window (each of two types) 0.35mm Gauge Plate (to adjust holding plate)	Instruction Manual Allen Wrench (L shaped, 2mm) AC adapter Passage Window (each of two types)

NSB series

Screw Nominal Size	M1.0	M1.2	M1.4	M1.7	M2.0	M2.3	M2.6	M3.0
Applicable Rail	SR10	SR12	SR14	SR14	SR17	SR20	SR23	SR30

NSR series

Screw Nominal Size	M1.0	M1.2	M1.4	M1.7	M2.0	M2.3	M2.6	M3.0
Applicable Rail	SRR10	SRR12	SRR14	SRR17	SRR20	SRR23	SRR26	SRR30

When you place an order, please specify the type number of the applicable rail. One Escaper comes with the rail. NS series can cope with the screw size from M1.0 to M3.0

NJ series

Model Name & Number	N J	NJR
Size	130 (W) × 215 (D) × 136 (H)	130 (W) × 275 (D) × 136 (H)
Weight (including rail)	Approx. 3.2 Kg	Approx. 4.2 Kg
Power Source	AC 100V, DC 12V 500mA, AC adapter	
Protection & Recovery Circuit	Motor overload stop. Protection circuit for reverse power connection	
Applicable Screw	NJ and NJR series (Refer right table for applicable screws & rail for NJ series)	
Applicable Screw Length (under head)	Up to 18mm	
Scooping Chamber Capacity	Approx. 150 cc	
Accessories (in package)	Instruction Manual Allen Wrench (L shaped, 2mm) AC adapter	Instruction manual Allen Wrench (L shaped, 2mm) AC adapter

Type	Screw Nominal Size	Applicable Rail
NJ-12	1.4mm	R-14
	1.7mm	R-17
NJ-23	2.0mm	R-20
	2.3mm	R-23
	2.6mm	R-26
	3.0mm	R-30
	3.5mm	R-35
NJ-45	4.0mm	R-40
	4.5mm	R-45
	5.0mm	R-50

When you place an order, please specify the type number of the applicable rail.

NEJIKURA series

Model Name & Number	Floor Type NJ-80, SR-80	Tower Type T-510
Size (*1)	NJ-80: 142(W)×191(D)×188(H) SR-80: 142(W)×191(D)×189-198(H)	130(W) × 171(D) × 245(H) With additional hopper: 295(H)
Weight (excluding AC adapter)	Approx. 2.9 Kg	
Power Source	AC 100V, DC 12V 500mA, AC adapter	
Screw Feeding Amount	Variable Type	
Applicable Screw	M2.0 to M3.0	M1.0 to M5.0
Screw Feeding Sensor	Photometry	
Hopper Capacity (*2)	Approx. 800 cc	Standard hopper: Approx. 400cc / Additional Hopper: 400 cc
Accessories (in package)	Instruction Manual AC Adapter	Instruction Manual Signal Cable AC Adapter

(*1) The height of SR-80 is adjustable in the range of 189 to 198(H)mm.
(*2) 400cc: M2.3 x 5 / approx. 10,000 pieces M3.0 x 6 / approx. 2,800 pieces
800cc: M2.3 x 5 / approx. 20,000 pieces M3.0 x 6 / approx. 5,600 pieces