

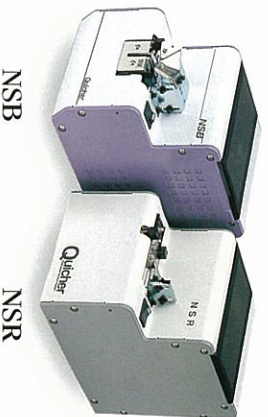
Quicher

Precision Screw Feeder



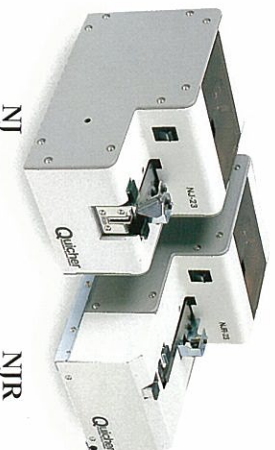
Automatic
Screw Feeder
[Quicher]
Series

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



NSB

NSR



NJ

NJR



Floor type

Tower type

NS-series

NJ-series

Nejikura-series

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

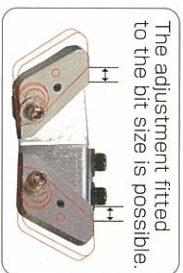
Precision Screw Feeder

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.



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.

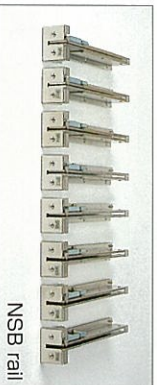
〈Adjustment of amplitude〉

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.



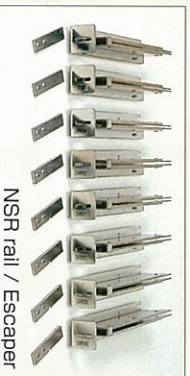
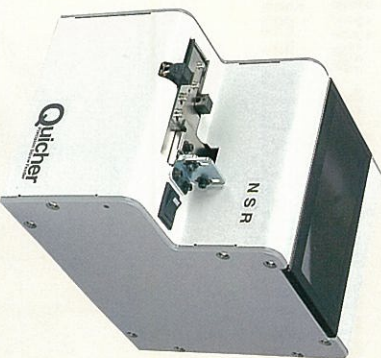
NSB rail

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

Scooping chamber capacity: 80cc

Applicable screw length (under head): up to 20mm

With protection and recovery circuit

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

NS series	
Model Name & Number	NSB
Size (mm)	123(W)×181(D)×145(H)
Weight (including rail)	Approx. 2.92 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 (to the 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)

NSB TYPE

Quicher NSB

Applicable screw size: from M1.0 to M3.0

Applicable screw length (under head): up to 20mm

Standard screwdriver bit can be used

Scooping chamber capacity: 80cc

With protection and recovery circuit

Supplied with a bit guide

※ The standard screwdriver bits and suction types can be used.

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



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



Easy to replace rail

NSB

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

Exchange of NSB rail

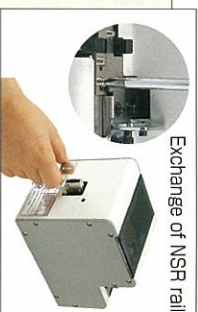


NSR (Automatic version)

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.

Example of NSR and Robot



Exchange of NSR rail

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	SR17	SR20	SR23	SR26	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

Quicher

Precision Screw Feeder

NJ-series

The standard screwdriver

bits on the market can be used.

- The suction type screwdriver.
- The bit type screwdriver.

Capable of loading large stock of screws

Up to 150cc screws can be loaded.

Copes with special screws

The screw assembled with washer or SW can also be coped.
It handles the screw sizes of up to M5.0.
It is equipped with an overload reverse protection circuit.

The rail is replaceable.

It copes with the various sizes of screws.
Model NJ-23 handles four sizes of screws.
※ Refer table 1

〈Angle adjustment of rail〉

The angle of inclination degree adjustment of the rail is possible by the kind of screws.



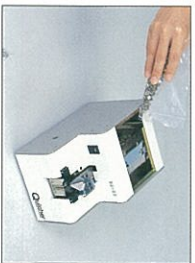
NJ TYPE

NJ type

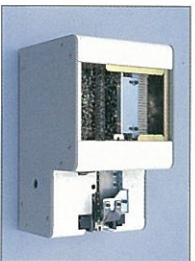
Applicable screw size:
From M1.4 to M5.0
Scooping chamber
capacity: 150 cc
Standard screwdriver
bit can be used

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)



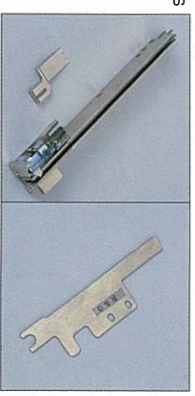
Loading screws



Aligning screws



Picking up screws



Additional rail

Holding plate

Optional Parts

NJR TYPE

NJR type

Applicable screw size:
From M1.4 to M5.0
(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)



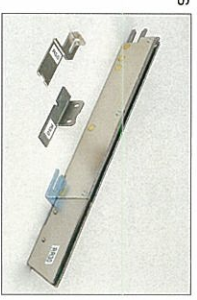
By connecting with Nejikura,
long period of time operation
is available.

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

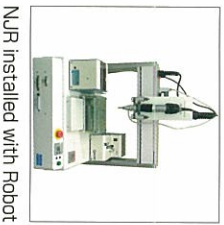
Smooth screw feeding

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.

Optional Parts



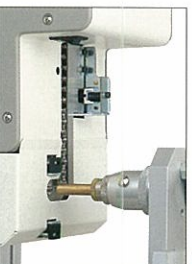
Passing plate/ Escaper/ Rail



NJR installed with Robot



Setting screws



Picking up Screws

NJ series

Model Name & Number	N J	NJR
Size (mm)	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 (to the 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)	Instruction manual Allen Wrench (L shaped, 2mm)
	AC adapter	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
	2.5mm	R-26
	3.0mm	R-30
NJ-45	3.5mm	R-35
	4.0mm	R-40
	5.0mm	R-50

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
	2.5mm	RR-26
	3.0mm	RR-30
NJR-45	3.5mm	RR-35
	4.0mm	RR-40
	5.0mm	RR-50

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

One Escaper comes with the 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, 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



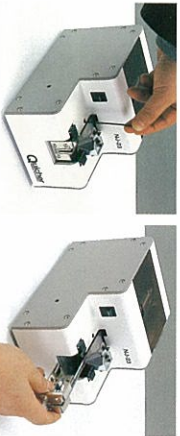
The standard screwdriver bits on the market can be used.

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.



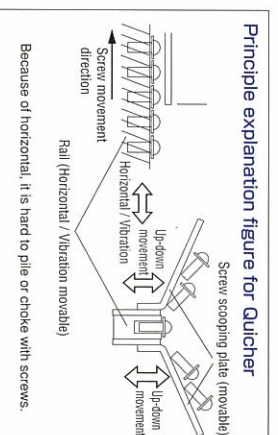
It takes only five seconds to replace the rail.

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.

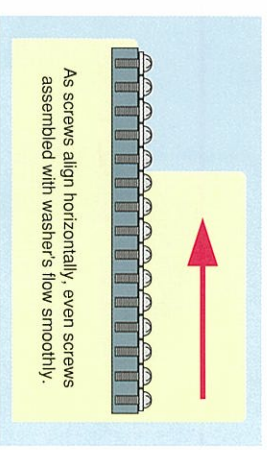


It feeds two screws every one second.

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.



Installed with NEJIKURA



With NEJIKURA installed, large amount screws can be stocked. (Plus 500 ml to 800 ml)

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

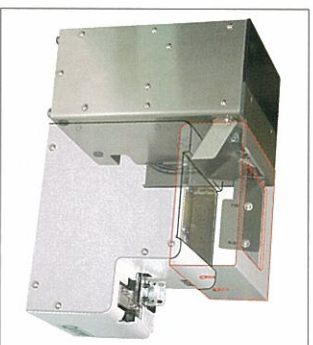
Floor Type

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

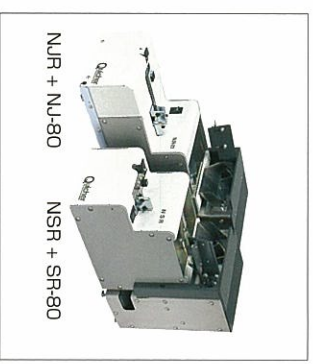
NEJIKURA floor type (SR-80, NJ-80)

- 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



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
Hopper capacity:
400cc
Applicable screw length
(under head):
T-510S → 20 mm
T-510J → 18 mm
Additional hopper
capacity: 400cc

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.

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.

NEJIKURA series

Model Name & Number	Floor Type NJ-80, SR-80	Tower Type T-510
Size (*1) (mm)	NJ-80: 142(W)x191(D)x188(H) SR-80: 142(W)x191(D)x189-198(H)	130(W) x 171(D) x 245(H) With additional hopper: 295(H)
Weight (excluding AC adapter)	Approx. 2.9 Kg	Approx. 3.1 Kg
Power Source	AC 100V, DC 12V 500mA, AC adapter	Variable Type
Screw Feeding Amount		M1.0 to M5.0
Applicable Screw	M2.0 to M5.0	Photometry
Hopper Capacity (*2)	Approx. 800 cc	Standard hopper: Approx. 400cc / Additional Hopper: 400 cc
Accessories (in package)	Instruction Manual AC Adapter	Instruction Manual AC Adapter

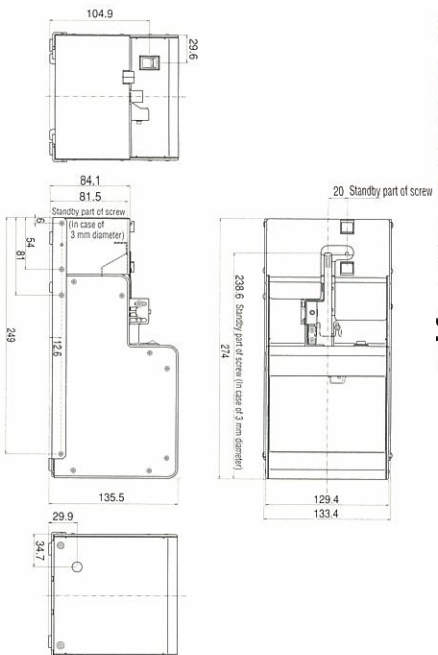
NEJIKURA tower type (T-510)

- 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.

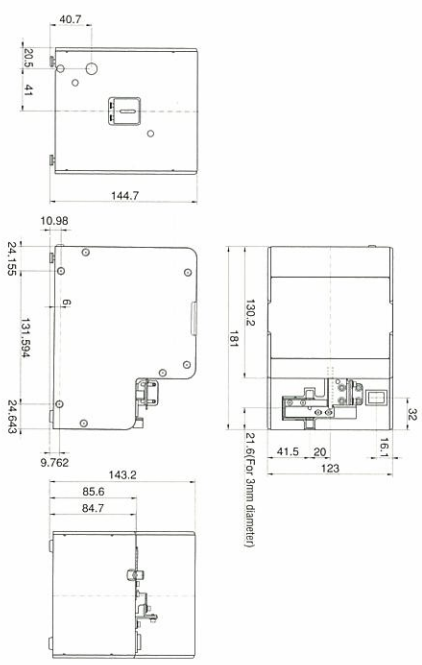
(*1) The height of SR-80 is adjustable in the range of 189 to 198(H)mm.
(*2) 400cc: M2.3 x 5 / approx. 10,000 pieces M3.0 x 6 / approx. 2,800 pieces
800cc: M2.3 x 5 / approx. 20,000 pieces M3.0 x 6 / approx. 5,600 pieces

Outline Figure

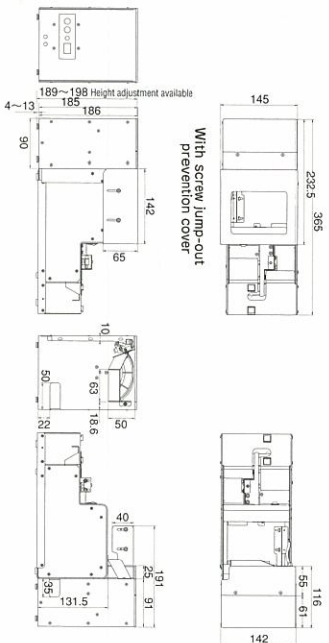
● Quicher NJR Type



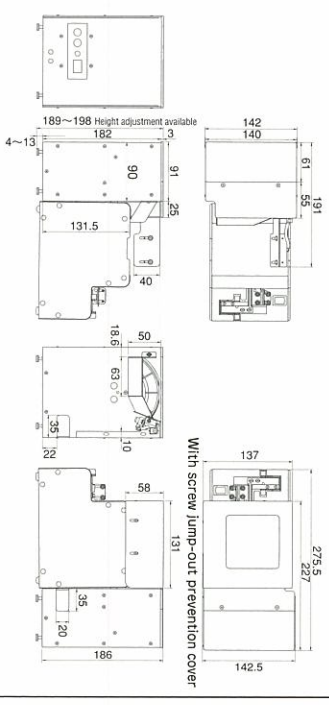
● Quicher NSR Type



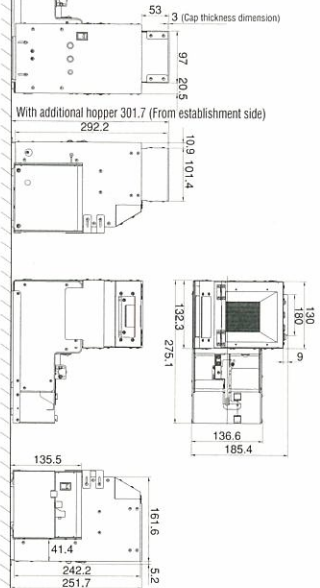
● NEJIKURA NJ-80



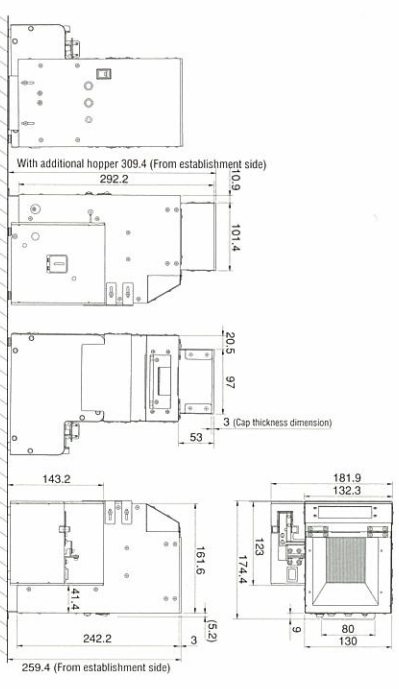
● NEJIKURA SR-80



● NEJIKURA T-510J



● NEJIKURA T-510S



! 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.



QUICHER CD-ROM

Manufacture: **OHTAKE / ROOT KOGYO CO., LTD**
27 KANEGASAKI HAGISHO ICHINOSEKI IWATE JAPAN