

REEL LOADER II ^{*1}	
Tape types	8 mm paper and embossed tape
Tape thickness	Paper: 1.2 mm or less Embossed: 2 mm or less
Feeders	W08b, W08c, W08f
Cycle time	35 seconds
Unit size & weight	L320 x W740 x H1,200 mm 150 kg
Power supply	AC 100 V, 200 V ^{*2} , 220 V ^{*2} , 230 V ^{*2} , 240 V ^{*2}
Air supply	0.35 to 0.5 MPa



VPDplus & Auto Shape Generator	
Operating environment	Nexim V1.1.0 or later, or Fuji Flexa V3.0 or later VPDplus V5.0 or later + option license
Camera Stand size	L305 x W546 x H772 mm



Auto Splicing Unit	
Tape types	8 mm paper tape
Part size	0402 (01005") to 3216 (1206") (3.2 x 2.5 mm)
Splicing tape	Fuji splicing tape (reel type, 1,200 pieces per reel)
Tape connection position accuracy	±0.2 mm
Cycle time	5.6 seconds
Unit size & weight	L450 x W450 x H998 mm 26kg ^{*1}
Power supply	DC 24V (battery) or AC 100 to 240V



Smart Nozzle Cleaner ^{*1}	
Nozzles	H24S, H24A, H24G, H24, V12, H12HS(Q), H08(Q), H08M, G04 standard nozzles
Nozzle stations	NA74A (H24 series) ND54A, ND36A, ND32C, NSOZA ^{*2} (V12, H12HS(Q), H08(Q)) Dedicated nozzle station ^{*1} (H08M, G04)
Nozzle diameters	φ0.2 to φ3.7 mm (H24 series, V12, H12HS(Q), H08(Q)) φ0.3 to φ15 mm (H08M, G04)
Cleaning fluid	Ultra-pure water or VIGON SC 200 mixed water
Cleaning time (cleaning + inspection)	App. 24 minutes (H24 series, V12, H12HS(Q), H08(Q): 40 nozzles) App. 20 minutes (H08M, G04: 9 nozzles)
Unit size & weight	L455 x W1,000 x H1,420 mm 240 kg
Power supply	AC 200 V
Air supply	0.35 to 0.5 MPa



^{*1} H08M and G04 nozzles are supported as an option. A dedicated nozzle station and a Smart Nozzle Cleaner that support H08M and G04 are required.
^{*2} A dedicated nozzle station is required.

Auto Head cleaner	
Heads	H24S, H24G, H24, V12, H12HS(Q), H12S(Q), H12, H08(Q), H08M(Q), H04SF, H04S, H04
Cleaning period	Air mode: Every month (Every 700 hours) Oil mode: Every three months (every 2,100 hours)
Cleaning time ^{*1}	Air mode: 8 minutes Oil mode: 21 minutes
Cleaning fluid	Fluorinated grease
Unit size & weight	L350 x W650 x H1,410 mm 110 kg
Power supply	AC 200 to 230 V
Air supply	0.4 MPa



^{*1} When cleaning 12 nozzle head.

Auto Feeder Maintenance Unit	
Feeders	W08, W08b, W08c, W08f
Capacity for concurrent maintenance	1 feeder
Cycle time ^{*1}	W08b, W08c, W08f: 200 seconds W08: 220 seconds
Unit size & weight	L360 x W820 x H1,190 mm 120 kg
Power supply	AC 200 to 240 V
Air supply	0.5 MPa



^{*1} Excludes the time to remove and attach the feeder covers.

Smart setup station	
Machines	NXT III, NXT IIIc, NXT II, NXT IIc, AIMEX series
Feeders	W04 to W104, Auto Loading Feeder
Feeder pallets ^{*1}	DP20, DP45, DP65
Unit size & weight	L845 x W430 x H900 40kg ^{*2}
Power supply	AC 100 V



^{*1} Set feeders that support use with Smart Setup Station to the PCU, PSU, or MFU. It is necessary to modify feeders for support.
^{*2} Computer not included.

Automation and Labor Saving Tools

Units which allow anyone to easily and quickly do the tasks performed by operators every day



Fuji automation and labor saving solutions

Combine the host system with automation units for across-the-board improvement of Quality, Cost, and Delivery (QCD).

REEL LOADER II

* Under development

Automates setting tape reels on feeders to greatly reduce preparation time

- ▶ Automate from tape cutting to loading just by setting the feeder and reel
- ▶ Eliminates part loading mistakes by automating part verification (option unit when using Fujitrax)

Work time

64 seconds reduced to 35 seconds



Set a feeder and insert the tape

Tape is cut and loaded automatically

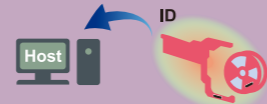
Load directly to the machine



Option unit

Barcode scanning unit

By reading the reel ID with the scanner attached to the unit, verification is performed automatically so there are no problems with wrong IDs.



VPDplus and Auto Shape Generator

Create reliable part data in just 3 steps

- ▶ Automatically creates part data based on imported images
- ▶ Vision processing tests can be performed offline with the same conditions as the machine



Materials preparation

Reduce preparation time with timely guidance and accurate work

Reduce checking and prevent loading mistakes by issuing notices about which parts are required, their location, and where they are to be loaded.

(Fujitrax Verifier option)



Part supply

No need to monitor remaining part quantities manually

Prevents machine stops due to parts outs by issuing guidance for slots nearly out of parts.

(Nexim or Fujitrax Verifier option)



Auto Splicing Unit

Easy reliable splicing by anyone

- ▶ Just insert the tapes into the unit to splice without any empty cavities
- ▶ Balance work time and improve quality by automating work
- ▶ Eradicates small stoppages due to splicing defects

Work time

45 seconds reduced to 5 seconds



Set tapes

Auto splicing

Complete



Smart setup station



Links with Nexim and supports offline changeover

- ▶ Batch reel rewinding
- ▶ Efficient part verification and feeder setup on feeder pallets
- ▶ Guidance for where to set feeder pallets

Eliminate all delays by linking tools to the system

Maintenance

Maintain highly efficient production with predictive maintenance and ideal maintenance

- ▶ Manages heads, nozzles, and feeders with individual IDs
- ▶ Gives warnings for units requiring maintenance based on various conditions (error rate, error count)
- ▶ Units that have not been maintained are not allowed to be used in production



(Fujitrax Verifier option)

Auto Feeder Maintenance Unit

Maintains and inspects feeders in just 2 minutes

- ▶ Removes old grease and other foreign matter from gears and then applies new grease
- ▶ After cleaning and lubrication, automatically measures the indexing pitch
- ▶ Automatically reads the ID of feeders when they are set and registers the maintenance history in the system



Automatic reading of the ID of the feeder



Cleaning and lubrication



Indexing position inspection

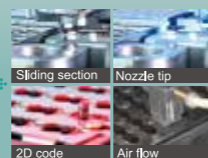
Smart Nozzle Cleaner

Automates nozzle cleaning, inspection, and setting

- ▶ Inspection items: 2D code reading, air flow, nozzle sliding movement, nozzle tip damage
- ▶ Defective nozzles are sorted by problem cause and ejected
- ▶ Nozzles can be automatically set from the storage section of the unit based on the next production program
- ▶ Automatically registers in the system when nozzles are maintained



Cleaning



Inspection



Sets nozzles for next production



Auto Head Cleaner

Easy maintenance that doesn't require training

- ▶ Completely automates cleaning, oil application, and operation checks for air channels inside heads
- ▶ Automatically recognizes the ID of the set head
- ▶ Automatically registers inspection results and maintenance history to the system

Cleaning time for 12 nozzles

41 minutes reduced to 8 minutes

