

Easy workpiece supply and changeover

Workpiece supply and unit changes require minimum work time, making changeover easier.

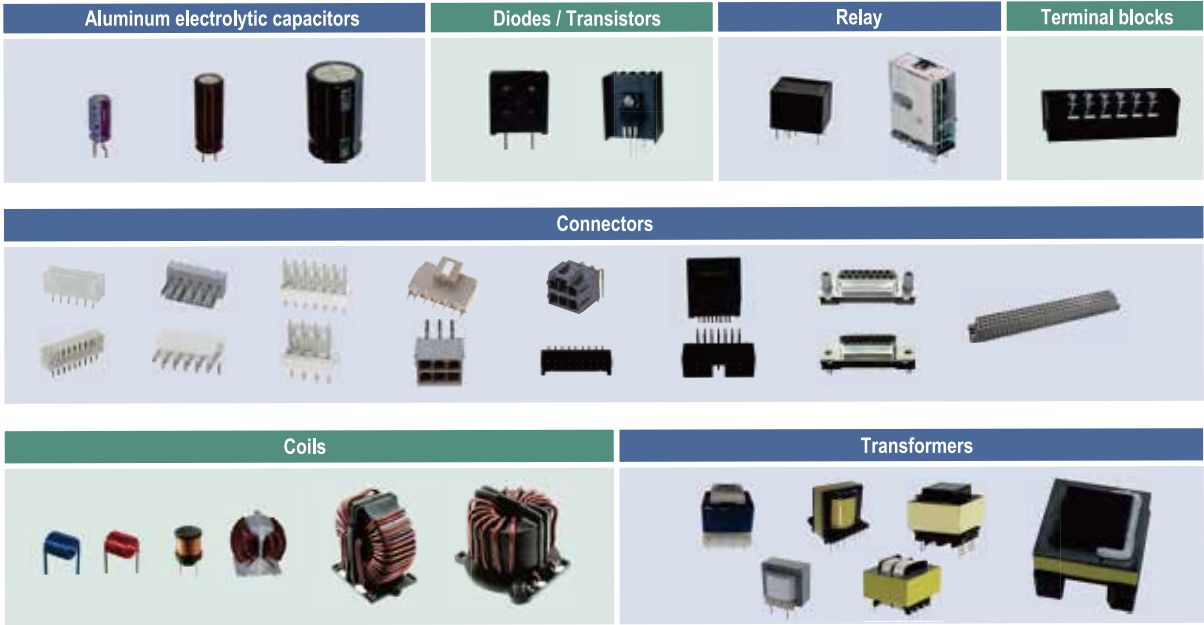


Supplying loose workpieces



Setting trays

Applicable workpiece examples



Specifications

Item	Details
Workpiece size	Minimum: 4 × 4 × 4 (mm), Maximum: 120 × 40 × 75 ^(note1) (mm)
Panel size	Minimum: 50 × 50 (mm), Maximum: 400 × 380 (mm)
Panel thickness	1.2 to 6.0 mm
Throughput	2.5 seconds per workpiece ^(note2)
Machine size (L × W × H)	1385 × 1562 × 2188 mm (platform section only)
Machine weight	700 kg (platform section only)
Slot quantity	6 slots when using single side supply specifications 12 slots when using dual side supply specifications
Power	Single phase 200 to 230 V ±10 V
Air	Exceeds 0.4 MPa
Air consumption	120 L/min (A.N.R.)

Note1: There are restrictions including those for premounted parts, tray shape, and the length of the end effector.
Note2: Under optimum Fuji conditions.

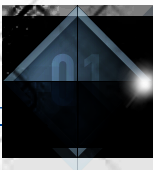
FUJI CORPORATION <https://www.fuji.co.jp>

19 Chausuyama, Yamamachi, Chiryu, Aichi, 472-8686 Japan
■Headquarters
Sales Dept.4 Sales Sec.1 TEL. +81-566-81-8294 E-mail:sw_eigyo@fuji.co.jp
■Tokyo branch office TEL. +81-3-5460-0241
■Osaka branch office TEL. +81-6-6385-7904
●Details in this document are subject to change without notice due to constant product development.
●Information in this document is current as of November 2023.
© 2023 FUJI CORPORATION. ALL Rights Reserved

[Agents and Dealers]



Panel Assembly Robot Cell
SmartWingBA



Unparalleled flexible packaging support



Superior cost performance



High quality production



Changing panel assembly for good



Unparalleled flexible packaging support

While conventional insertion machines require repacking loose workpieces into dedicated trays, our highly versatile units together with our original vision processing system enable workpieces to be supplied directly from their original packaging.

Workpieces that need to be repackaged for conventional machines

Loose workpieces

Tray workpieces

A large degree of play

No partitions

Packaged face down

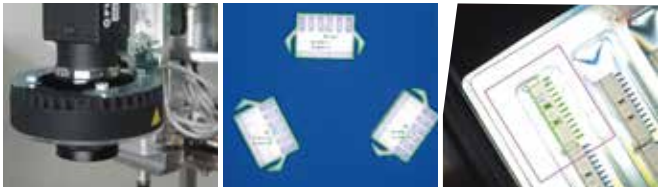
Leads facing sideways

Direct insertion

Vision processing system that recognizes shapes automatically

Wrist camera (when picking)

This is used for a wide range of applications such as for recognizing the position when picking and placing a workpiece and recognizing panel marks.



Wrist camera Position recognition for loose workpieces Position recognition for tray workpieces

Workpiece camera (when inserting)

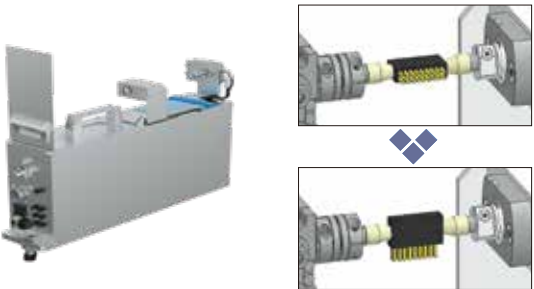
This is used for recognizing positional deviations of the workpiece that is being picked and determining the insertion possibility.



Workpiece camera Pin recognition Checks the direction

Can change the workpiece stance

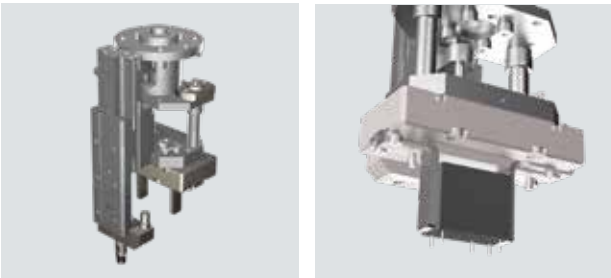
By using a rotation unit, it is possible to change the stance of tray workpieces with pins not facing downward, which was previously difficult to be automated.



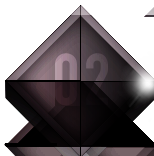
Rotating unit Changing the stance

Diverse workpiece support

Chucks and nozzles can be loaded together, allowing the appropriate tool to be used based on the workpiece shape. It is also possible to change the chuck width according to the workpiece width in the program.



2-in-1 picking unit Grasped by the electrical chuck

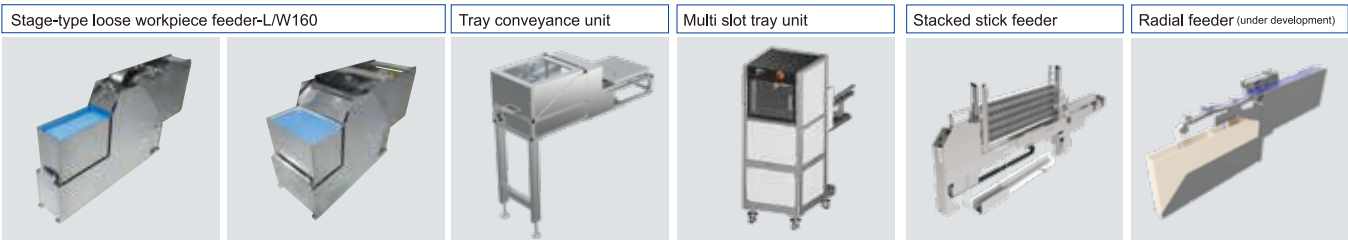


Superior cost performance

Only the necessary units can be selected and integrated to achieve an optimal machine configuration with minimal investment. These units can support a wide variety of workpieces, eliminating the need for workpiece-specific units and thereby reducing installation costs.

Supply units supporting diverse workpieces

We provide versatile units capable of handling various supply packaging. This flexible lineup allows you to start automation with the smallest possible configuration and gradually increase the number of workpieces to be automated.



Programming tools included as standard

Tools for creating production programs and shape data and checking production information are included as standard.

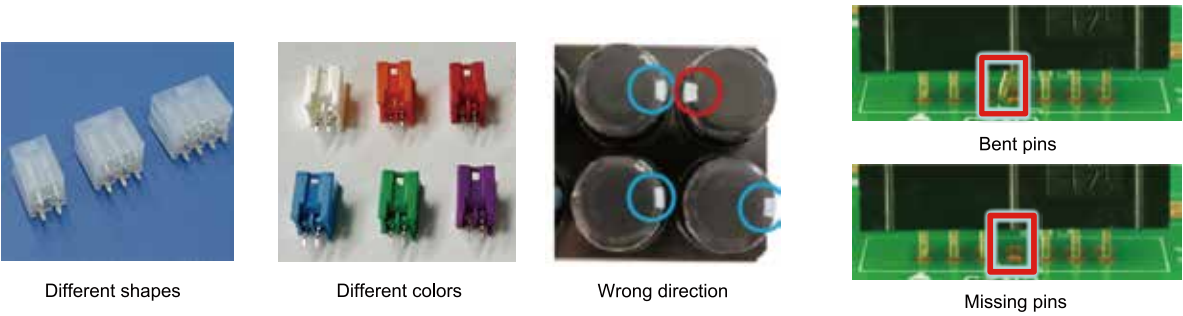


Job Editor (production program creation) Shape Editor (shape data creation)



High quality production

Vision processing recognizes the shape and color of workpieces and identifies even if the wrong workpieces are mixed in, thereby preventing incorrect insertion due to human errors. It also identifies bent pins and missing pins to ensure high quality production.



Different shapes Different colors Wrong direction Bent pins Missing pins