

CLAIMS

[Claim 1]

An electronic component processing device comprising:

a sheet holding unit configured to hold a sheet including an attachment surface to
5 which an electronic component is attached;

a plurality of suction units arranged along a circular track passing through a suction
region, the suction region being arranged such that the electronic component is located
between the suction region and the sheet;

a turning unit configured to hold the plurality of suction units;

10 a turning driving unit configured to turn the turning unit around a rotation axis fixed
along a central axis of the circular track;

a pushing unit configured to push the sheet toward the suction region, the pushing
unit being arranged such that the sheet is located between the pushing unit and the electronic
component;

15 a sheet position adjustment unit configured to change a position of the sheet holding
unit in directions along the attachment surface;

a pushing position adjustment unit configured to change a position of the pushing
unit in the directions along the attachment surface; and

20 a first imaging unit configured to capture an image of a first imaging region from a
radially outer side of the circular track, the first imaging region being provided beside the
suction region along the circular track,

wherein the first imaging unit is configured to capture an image of each of the
plurality of suction units when a suction unit to be captured its image is located in the first
imaging region without holding the electric component.

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[Claim 2]

The electronic component processing device according to claim 1, wherein the first
imaging unit is configured to further capture an image of the electronic component when one
30 of the plurality of suction units is located in the first imaging region while holding the electric
component.

[Claim 3]

The electronic component processing device according to claim 1 or 2, further comprising:

a second imaging unit,

5 wherein the second imaging unit is configured to capture an image of the suction region from a radially inner side of the circular track.

[Claim 4]

The electronic component processing device according to any one of claims 1 to 3, further comprising:

10 a turning control unit configured to intermittently turn the turning unit by the turning driving unit so as to sequentially arrange the plurality of suction units in the suction region; and

an alignment control unit configured to control the sheet position adjustment unit such that a position of the electronic component is aligned with a position of the suction unit
15 and control the pushing position adjustment unit such that the position of the pushing unit is aligned with the position of the suction unit, each time when one of the plurality of suction units is arranged in the suction region.

[Claim 5]

20 The electronic component processing device according to any one of claims 1 to 3, further comprising:

a conveyance device configured to acquire the electronic component from any one of the plurality of suction units in a transfer region arranged beside the suction region along the circular track, and to convey the electronic component,

25 wherein the plurality of suction units are arranged such that when any one of the suction units is located in the suction region, another one of the suction units is located in the transfer region.