CLAIMS

1. A processing device of an electronic component comprising:

a turning portion that is turnable around a central axis of a circular transfer track passing through a predetermined arrangement region;

an electronic component holding portion that is provided on the turning portion so as to be positioned in the circular transfer track;

a holding position changing portion that enables displacement of the electronic component holding portion with respect to the turning portion in a predetermined displacement direction;

a turning drive portion that is configured to turn the turning portion around the central axis so that the electronic component holding portion holding the electronic component is arranged in the arrangement region; and

a displacement drive portion that is provided in the arrangement region so as to move the electronic component holding portion arranged in the arrangement region to one side in the displacement direction,

wherein the displacement drive portion is configured to push the electronic component holding portion toward the one side in the displacement direction, wherein the holding position changing portion includes a plurality of leaf springs and an auxiliary spring,

wherein the plurality of leaf springs respectively extend along a direction intersecting the displacement direction and connect the electronic component holding portion and the turning portion, and

wherein the auxiliary spring is configured to push the electronic component holding portion, that is displaced toward the one side in the displacement direction by being pushed by the displacement drive portion, toward another side in the displacement direction.

2. The processing device of an electronic component according to claim 1, wherein the displacement drive portion includes:

a main body part fixed to the arrangement region so as not to turn together with the turning portion;

a pusher provided in the main body part so as to be displaceable along the displacement direction and configured to push the electronic component holding portion toward said one side in the displacement direction; and

a drive part configured to move the pusher along the displacement direction.

3. The processing device of an electronic component according to claim 1 or 2, further comprising:

a plurality of electronic component holding portions including the electronic component holding portion; and

a plurality of holding position changing portions including the holding position changing portion,

wherein the plurality of holding position changing portions respectively enable to displace the plurality of electronic component holding portions with respect to the turning portion, and

wherein the turning drive portion turns the turning portion so that the plurality of electronic component holding portions are sequentially arranged in the arrangement region.

4. The processing device of an electronic component according to any one of claims 1 to 3, wherein the turning portion further includes a restriction part configured to restrict movement of the electronic component holding portion in a direction in which the auxiliary spring pushes the electronic component holding portion.

5. The processing device of an electronic component according to any one of claims 1 to 4, wherein an action point of a force from the auxiliary spring to the electronic component holding portion and an action point of a force from the displacement drive portion to the electronic component holding portion are different from each other in a direction orthogonal to the displacement direction.