CLAIMS

1. An electronic component processing device (1) comprising:

a turning portion (20) configured to turn around a central axis (Ax) of a conveyance track (CR) passing through a predetermined arrangement region (AR);

a movable portion (30) provided on the turning portion (20) in a displaceable manner along a predetermined displacement direction;

a component holding portion (40, 40A) configured to hold an electronic component (W) and attached to the movable portion (30) so as to be positioned in the conveyance track (CR);

a turning drive portion (20) configured to turn the turning portion (20) around the central axis (Ax) so as to dispose the component holding portion (40, 40A) in the arrangement region (AR);

a displacement drive portion (70) configured to displace the movable portion (30) to one side in the displacement direction such that the component holding portion (40, 40A) moves to the one side in the displacement direction in the arrangement region (AR);

a plurality of leaf springs (50a, 50b) parallel to each other; and

an auxiliary spring (88),

wherein the movable portion (30) includes a first connection portion (36) aligned with the component holding portion (40, 40A) along the displacement direction, and a second connection portion (38) connected to the first connection portion (36) and aligned with the component holding portion (40, 40A) along a direction intersecting with the displacement direction,

wherein each of the plurality of leaf springs (50a, 50b) extends along the direction intersecting with the displacement direction of the component holding portion (40, 40A) and connects the component holding portion (40, 40A) and the second connection portion (38) of the movable portion (30) so that the component holding portion (40, 40A) is displaceable along the displacement direction with respect to the movable portion (30), and

wherein the auxiliary spring (88) connects the first connection portion (36) and the component holding portion (40, 40A), and is configured to extend and contract along the displacement direction and generate a reaction force according to extension and contraction.

2. The processing device (1) according to claim 1, wherein the plurality of leaf springs (50a, 50b) are aligned with each other along the displacement direction, and

wherein a center of gravity (CG) of the component holding portion (40, 40A) is positioned between the plurality of leaf springs (50a, 50b) in the displacement direction.