CLAIMS

1. An electronic component transfer system comprising: a component transfer apparatus; and an inversion unit that receives an electronic component having surfaces (P, Q) parallel to each other, inverts the electronic component, and transfers the inverted electronic component to the component transfer apparatus,

wherein the component transfer apparatus includes: a plurality of nozzle mechanisms that suction the electronic component; and a rotor to which the nozzle mechanisms are mounted and which is rotated by an operation of a motor so as to move the nozzle mechanisms,

wherein the inversion unit includes:

a component transfer unit (L) having: a suction holding member (J) that suctions the surface (Q) of the electronic component whose surface (P) is suctioned by a nozzle mechanism so as to receive the electronic component from the nozzle mechanism; and a moving mechanism (K) that moves the suction holding member (J) that received the electronic component to a first position; and

a component transfer unit (T) having: a suction holding member (R) that is to be arranged to face the suction holding member (J) arranged at the first position, suctions the surface (P) of the electronic component suctioned by the suction holding member (J), and receives the electronic components; and a moving mechanism (S) that moves the suction holding member (R) that receives the electronic component to a second position where the inverted electronic component is to be transferred to the nozzle mechanism,

wherein the moving mechanism (K) is configured to move the suction holding

member (J) to approach the suction holding member (R) that is arranged to face the suction holding member (J) arranged at the first position and bring the surface (P) into contact with the suction holding member (R), and

wherein the nozzle mechanism is moved by a rotation of the rotor from a position where the nozzle mechanism can transfer the electronic component to the suction holding member (J) to a position where the nozzle mechanism can receive the electronic component from the suction holding member (R).

2. The electronic component transfer system according to claim 1, wherein the component transfer unit (L) includes a holding member support body that movably supports the suction holding member (J), and the component transfer unit (L) is configured to rotate the holding member support body around a rotation shaft, that is coupled to the holding member support body, by a predetermined angle so as to move the suction holding member (J) to the first position.

3. The electronic component transfer system according to claim 1 or 2, wherein an elastic body configured to relieve a load generated in the electronic component caused by the surface (P) coming into contact with the suction holding member (R) is provided on at least one of the component transfer unit (L) and the component transfer unit (T).

4. The electronic component transfer system according to any one of claims 1 to 3, wherein a plurality of suction holding members (J) and a plurality of suction holding members (R) are provided, and

wherein, when one suction holding member (J) is arranged at a position where the electronic component is to be received form the nozzle mechanism, another suction holding member (J) is arranged at the first position, one suction holding member (R) is arranged to face the suction holding member (J) that is arranged at the first position, and another suction holding member (R) is arranged at the second position.

5. An electronic component transfer system comprising: an electronic component transfer apparatus; and an inversion unit that receives an electronic component having surfaces (P, Q) parallel to each other, inverts the electronic component, and transfers the inverted electronic component to the component transfer apparatus,

wherein the component transfer apparatus includes: a plurality of nozzle mechanisms that suction the electronic component; and a rotor to which the nozzle mechanisms are mounted and which is rotated by an operation of a motor so as to move the nozzle mechanisms,

wherein the inversion unit includes:

a component transfer unit (L) having: a suction holding member (J) that suctions the surface (Q) of the electronic component whose surface (P) is suctioned by a nozzle mechanism so as to receive the electronic component from the nozzle mechanism; and a moving mechanism (K) that moves the suction holding member (J) that received the electronic component to a first position; and

a component transfer unit (T) having: a suction holding member (R) that is to be arranged to face the suction holding member (J) arranged at the first position, suctions the surface (P) of the electronic component suctioned by the suction holding member (J), and a moving mechanism (S) that moves the suction holding

member (R) that received the electronic component to a second position where the inverted electronic component is to be transferred to the nozzle mechanism,

wherein the moving mechanism (S) is configured to move the suction holding member (R), that is arranged to face the suction holding member (J) arranged at the first position, to approach the suction holding member (J) so as to bring the suction holding member (R) into contact with the surface (P), and

wherein the nozzle mechanism is moved by a rotation of the rotor from a position where the nozzle mechanism can transfer the electronic component to the suction holding member (J) to a position where the nozzle mechanism can receive the electronic component from the suction holding member (R).