

[CLAIMS]

[Claim 1]

An apparatus for automatically exchanging a conversion kit, the apparatus comprising:

a table module, the table module comprising:

a first conversion kit having a plurality of vacuum holes formed in a Z-axis direction; and

a table negative pressure transfer plate structure having the other surface in the Z-axis direction on which the first conversion kit is disposed, the table negative pressure transfer plate structure being configured to allow a negative pressure generator to communicate with the vacuum holes,

wherein the table negative pressure transfer plate structure is configured to hold the first conversion kit by vacuum suction,

wherein the first conversion kit is fixed to the table negative pressure transfer plate structure when the table negative pressure transfer plate structure holds the first conversion kit by vacuum suction, and

wherein the first conversion kit is removable from the table negative pressure transfer plate structure when the table negative pressure transfer plate structure releases the vacuum suction to the first conversion kit; and

a picker module configured to separate the first conversion kit disposed on the table negative pressure transfer plate structure from the table negative pressure transfer plate structure or place a new conversion kit on the table negative pressure transfer plate structure, wherein the picker module comprises a picker negative pressure transfer plate structure having one side in the Z-axis direction on which the first conversion kit is

mounted, and wherein the picker negative pressure transfer plate structure is configured to hold the first conversion kit by vacuum suction.

[Claim 2]

The apparatus of claim 1, wherein the picker negative pressure transfer plate structure comprises:

a picker product depressed portion made by depressing, toward the other side in the Z-axis direction, a portion of the picker negative pressure transfer plate structure facing a portion of the first conversion kit having the plurality of the vacuum holes, the picker negative pressure transfer plate structure being configured to transmit an application of negative pressure and a release of negative pressure made by the negative pressure generator to the vacuum holes; and

a picker kit depressed portion made by depressing, toward the other side in the Z-axis direction, a portion of the picker negative pressure transfer plate structure facing a rim portion of the first conversion kit, the picker kit depressed portion being configured to hold the first conversion kit by suction.

[Claim 3]

The apparatus of claim 2, wherein the picker kit depressed portion has a cross section having a long hole shape extending in a longitudinal direction of the first conversion kit.

[Claim 4]

The apparatus of claim 2, wherein the picker negative pressure transfer plate structure comprises a protrusion protruding toward one side in the Z-axis direction, and the table negative pressure transfer plate structure has a hole into which the protrusion is at least partially inserted.

[Claim 5]

The apparatus of claim 2, wherein the first conversion kit further comprises a pair of protruding portions protruding outward from two opposite lateral surfaces of the first conversion kit and extending in a longitudinal direction of the first conversion kit, and

wherein the picker negative pressure transfer plate structure further comprises a pair of fastening portions protruding toward one side in the Z-axis direction from the two opposite lateral surfaces of the picker negative pressure transfer plate structure and configured to be fitted with the pair of protruding portions.

[Claim 6]

The apparatus of claim 2, wherein the picker module further comprises a second conversion kit, and

wherein in a state in which the second conversion kit of the picker module is not mounted on the picker negative pressure transfer plate structure, the picker module separates the first conversion kit disposed on the table negative pressure transfer plate structure or places a new conversion kit on the table negative pressure transfer plate structure.