【CLAIMS】

【Claim 1】

An adaptor for an electronic component testing handler, comprising:

a pair of grasping levers located to face each other and linearly moving in a direction along which a distance therebetween becomes short or long to thus grasp both ends of a rear end portion of an electronic component or release a grasping state;

an installation frame for installing the pair of grasping levers thereon to allow the pair of grasping levers to linearly move;

a distance control mechanism disposed on the installation frame to apply a control force to the pair of grasping levers so that the pair of grasping levers moves to the direction along which the distance therebetween becomes long; and

operating members for applying pressurizing forces to the pair of grasping levers in the direction along which the distance between the pair of grasping levers becomes short so that if the control force applied to the pair of grasping levers from the distance control mechanism is removed, the pair of grasping levers moves to the direction along which the distance therebetween becomes short,

wherein the grasping levers each have a guide groove formed long in forward and backward directions on a surface facing each other to grasp both ends of the electronic component and guide forward and backward movements of the electronic component and a through groove adapted to pass a base protrusion of a base member of a mounting stand therethrough,

wherein each guide groove comprises a horizontal maintaining section, a width increasing section, a through hole section, and an open section sequentially in a direction from a rear side to a front side,

wherein the through hole section is constant in width toward forward and backward directions from a front end of the width increasing section,

wherein the through hole section corresponds to a width of the through groove in forward and backward directions.

【Claim 2】

The adaptor according to claim 1, wherein the distance control mechanism is disposed linearly movable in forward and backward directions thereof on the installation frame and comprises a control part having both ends coming into contact with the grasping levers so that the distance control mechanism is configured to move linearly backward by means of an external force, the control part is configurable to apply the control force to the grasping levers in the direction along which the distance between the grasping levers becomes long, and the distance control mechanism is configured to move linearly forward by means of the removal of the external force, the control part is configurable to release the control force applied to the grasping levers, and the grasping levers each have rolling rollers mounted on surfaces facing each other to reduce the friction with the control part, the rolling rollers protruding in directions facing each other, the control part having tilt portions formed narrow in width in left and right direction toward the rear end portion thereof so that the tilt portions are configured to move backward in a state of coming into contact with the rolling rollers of the grasping levers, such that the control part applies the control force to the grasping levers.

【Claim 3】

The adaptor according to claim 1, further comprising a pressurizing member adapted to elastically pressurize the distance control mechanism backward, pressurizing member whose one side being supported against the installation frame and an other side coming into contact with the distance control mechanism.

【Claim 4】

The adaptor according to claim 1, wherein the installation frame comprises guide bars long in left and right directions thereof to guide the movements of the grasping levers, and the grasping levers each have through holes adapted to insertedly pass the guide bars therethrough, at least one of the guide bars having a straight shape on the section cut away in forward and backward directions thereof.

【Claim 5】

The adaptor according to claim 1, wherein the installation frame has a plurality of position setting protrusions protruding from both left and right sides thereof and thus inserted into position setting grooves of a test hand for moving the adaptor.

【Claim 6】

The adaptor according to claim 1, wherein the installation frame has an accommodation groove formed on the rear end portion thereof to accommodate the rear end portion of the electronic component therein, and a width of the accommodation groove in left and right directions is larger than a width of the rear end portion of the electronic component in left and right directions, so that rear end portion of the electronic component floats in the air.

【Claim 7】

The adaptor according to claim 1, wherein the base protrusion has a base projection to support the electronic component.

【Claim 8】

The adaptor according to claim 7, wherein the open section is located in front of the width increasing section and having at least the same width as the front end of the width increasing section or a width more increased than the width increasing section, and the open section is divided into a rear horizontal section and a front downward section, so that in the front downward section, a width of the guide groove extends downward.

【Claim 9】

The adaptor according to claim 1, wherein the installation frame has a plurality of position fixing grooves formed on both left and right sides thereof to insert position fixing pins of the mounting stand for mounting the adaptor thereinto.

【Claim 10】

The adaptor according to claim 1, wherein the installation frame comprises:

a pair of installation levers disposed on the rear portion of the installation frame to install the pair of grasping levers thereon; and

a connection member adapted to connect the rear ends of the installation levers to prevent a distance between the pair of installation levers from being open while being used, the connection member having an exposure window adapted to expose a contact terminal of the electronic component to the outside.