**CLAIMS**

1. A press-fitting device for press-fitting a press-fitting component with a press-fitting target component, comprising:

a support portion which supports the press-fitting target component; and

a pressing mechanism having a press-fitting tool configured to move in a press-fitting direction with respect to the support portion, wherein:

the press-fitting tool comprises:

a pressing portion having a pressing surface which presses the press-fitting component;

a restriction portion having a restriction surface configured to come into contact with the press-fitting target component; and

a position setting mechanism which sets a pressing position of the pressing surface of the pressing portion in the press-fitting direction and a restriction position of the restriction surface of the restriction portion in the press-fitting direction according to the press-fitting component and the press-fitting target component,

wherein the position setting mechanism has a press-fitting jig in which plural restriction portions are arranged at a prescribed interval and which is provided so as to be configured to move in an arrangement direction of the plural restriction portions; and

wherein the press-fitting jig comprises:

an arrangement portion in which the plural restriction portions are arranged at the prescribed interval; and

a main body which is provided with the arrangement portion and is supported so as to be movable with respect to the pressing portion.

2. The press-fitting device according to claim 1, wherein:

the arrangement portion is provided with mounting portions on which the plural restriction portions are mounted respectively; and

each of the plural restriction portions has an engagement portion configured to be engaged with an associated mounting portion.

3. The press-fitting device according to claim 2, wherein:

the main body is supported rotatably to the press-fitting tool; and

the arrangement portion has plural flat surfaces that are arranged at the prescribed interval in a circumferential direction around a rotation axis of the main body and extend parallel with the rotation axis of the main body respectively, and the plural flat surfaces are provided with the plural mounting portions respectively.

4. The press-fitting device according to claim 2, wherein the press-fitting device includes a rotation mechanism which places the restriction surface of a desired one of the plural restriction portions at such position as to come into contact with the press-fitting target component by rotating the press-fitting jig about a rotation axis of the main body.

5. The press-fitting device according to claim 4, wherein the rotation mechanism includes:

a switching drive portion which is rotated by a switching drive source that is fixed to a frame on which the support portion is provided;

a switching shaft portion which supports the main body of the press-fitting jig and extends along the rotation axis of the press-fitting jig; and

a drive power transmission portion which transmits rotational power of the switching drive portion to the switching shaft portion.

6. The press-fitting device according to claim 3, wherein:

the pressing mechanism has a movable portion which is moved in the press-fitting direction in accordance with a press-fitting operation;

the press-fitting tool has a press-fitting movable body which is connected to and moves together with the movable portion; and

the press-fitting movable body includes:

a connection portion which is provided on one side in the press-fitting direction and is connected to the movable portion;

the pressing portion which is provided on the other side in the press-fitting direction; and

a guide portion which guides movement of the press-fitting jig in the press-fitting direction.

7. The press-fitting device according to claim 6, wherein:

the position setting mechanism has a jig support unit which is movable with respect to the press-fitting movable body; and

the jig support unit includes:

an elevation drive portion which moves the jig support unit with respect to the press-fitting movable body;

a jig support portion which supports the press-fitting jig rotatably; and

a guide engagement portion which is engaged with the guide portion and guides the jig support portion in the press-fitting direction with respect to the press-fitting movable body.

8. The press-fitting device according to claim 5, wherein the drive power transmission portion includes:

a first magnet body which is fixed to the switching drive portion, is provided with N poles and S poles alternately in a circumferential direction around a rotation axis of the switching drive portion, and is rotated by the switching drive source; and

a second magnet body which is fixed to the switching shaft portion, is provided with N poles and S poles alternately in a circumferential direction around a rotation axis of the switching shaft portion, and is rotated by rotation of the first magnet body.

9. The press-fitting device according to claim 6, wherein:

the press-fitting jig has a switching shaft portion which extends along the rotation axis of the press-fitting jig;

the press-fitting movable body has a housing portion in which the press-fitting jig is disposed;

the housing portion has a rotation stop surface which restricts rotation of the press-fitting jig when a flat surface, provided with a restriction portion, of the arrangement portion of the press-fitting jig comes into contact with the rotation stop surface; and

the press-fitting movable body is formed with an insertion hole that enables movement of the switching shaft portion in the press-fitting direction.

10. The press-fitting device according to claim 5,

wherein the pressing mechanism has a movable portion which is moved in the press-fitting direction in accordance with a press-fitting operation; and

wherein the press-fitting device further comprises:

a pressing drive source which moves the movable portion in the press-fitting direction in accordance with the press-fitting operation; and

a frame including a pressing fixing portion to which the pressing drive source is fixed and a switching fixing member to which a switching drive source that rotates the switching shaft portion is fixed.

11. The press-fitting device according to claim 10, wherein:

the position setting mechanism has a discrimination body for discrimination between the plural restriction portions of the press-fitting jig;

the discrimination body has discrimination portions respectively corresponding to the restriction portions provided in the press-fitting jig; and

the press-fitting device further comprises a detection unit configured to detect each of the discrimination portions.

12. The press-fitting device according to any one of claims 1 to 11, further comprising:

a pressing control portion which controls the pressing mechanism, wherein:

the pressing control portion sets the pressing position and the restriction position so that the difference between the pressing position and the restriction position in the press-fitting direction becomes a proper value according to dimensions of the press-fitting component and the press-fitting target component; and

the pressing control portion performs a control of moving the pressing portion and the restriction portion to the pressing position and restriction position set by the pressing control portion respectively.

13. A manufacturing device for press-fitting a press-fitting component with a press-fitting target component, the manufacturing device comprising:

a press-fitting device comprising:

a support portion which supports the press-fitting target component; and

a pressing mechanism having a press-fitting tool configured to move in a press-fitting direction with respect to the support portion; and

a press-fitting jig configured for use with the press-fitting device,

wherein the press-fitting tool comprises:

a pressing portion having a pressing surface which presses the press-fitting component;

a restriction portion having a restriction surface configured to come into contact with the press-fitting target component; and

a position setting mechanism which sets a pressing position of the pressing surface of the pressing portion in the press-fitting direction and a restriction position of the restriction surface of the restriction portion in the press-fitting direction according to the press-fitting component and the press-fitting target component;

wherein plural restriction portions are arranged in the press-fitting jig at a prescribed interval and the press-fitting jig is provided so as to be configured to move in an arrangement direction of the plural restriction portions; and

wherein the press-fitting jig comprises:

an arrangement portion in which plural restriction portions are arranged at the prescribed interval;

a main body provided with the arrangement portion; and

a main body portion which is supported to the main body movably.

14. The manufacturing device according to claim 13, wherein:

the arrangement portion is provided with mounting portions on which the plural restriction portions are mounted respectively; and

an engagement portion of each of the plural restriction portions is engaged with an associated mounting portion.

15. The manufacturing device according to claim 14, wherein:

a hole that enables rotatable support of the main body by the press-fitting tool is formed through the main body; and

the arrangement portion has plural flat surfaces that are arranged at the prescribed interval in a circumferential direction around a rotation axis of the main body and extend parallel with the rotation axis of the main body respectively, and the plural flat surfaces are provided with the plural mounting portions respectively.

16. The manufacturing device according to any one of claims 13 to 15, wherein the plural restriction portions include:

a reference restriction portion that makes the difference between the restriction position and the pressing position in the press-fitting direction equal to a reference length;

a first restriction portion that makes the difference between the restriction position and the pressing position in the press-fitting direction shorter than the reference length; and

a second restriction portion that makes the difference between the restriction position and the pressing position in the press-fitting direction longer than the reference length.

17. A manufacturing device for manufacturing a press-fit product in which a press-fitting component is fitted with a press-fitting target component, comprising:

a first measuring portion which measures a dimension of the press-fitting target component;

a second measuring portion which measures a dimension of the press-fitting component; and

a press-fitting portion which press-fits the press-fitting component with the press-fitting target component, wherein:

the press-fitting portion comprises a press-fitting device which performs press-fitting based on the dimension of the press-fitting target component and the dimension of the press-fitting component;

the press-fitting device comprises:

a support portion which supports the press-fitting target component; and

a pressing mechanism having a press-fitting tool configured to move in a press-fitting direction with respect to the support portion; and

the press-fitting tool comprises:

a pressing portion having a pressing surface which presses the press-fitting component;

a restriction portion having a restriction surface configured to come into contact with the press-fitting target component;

a position setting mechanism which sets a pressing position of the pressing surface of the pressing portion in the press-fitting direction and a restriction position of the restriction surface of the restriction portion in the press-fitting direction according to the press-fitting component and the press-fitting target component,

wherein the position setting mechanism has a press-fitting jig in which plural restriction portions are arranged at a prescribed interval and which is provided so as to be configured to move in an arrangement direction of the plural restriction portions; and

wherein the press-fitting jig comprises:

an arrangement portion in which the plural restriction portions are arranged at the prescribed interval; and

a main body which is provided with the arrangement portion and is supported so as to be movable with respect to the pressing portion.

18. The manufacturing device according to claim 17, further comprising:

a control portion which controls the press-fitting tool,

wherein the control portion includes:

a first recording portion which records a first dimension of the press-fitting target component measured by the first measuring portion;

a second recording portion which records a second dimension of the press-fitting component measured by the second measuring portion; and

a reference information setting portion in which a reference interval dimension is set, the reference interval dimension being a preset pressing position of the press-fitting component with respect to the press-fitting target component.

19. The manufacturing device according to claim 17, further comprising:

a tentative press-fitting portion which press-fits the press-fitting component with the press-fitting target component to a tentative position in the press-fitting target component in the press-fitting direction by moving the press-fitting component with respect to the press-fitting target component.

20. The manufacturing device according to claim 17 or claim 19, further comprising:

a product measuring portion which measures the pressing position of the press-fitting component in the press-fit product in which the press-fitting component is fitted with the press-fitting target component.