[CLAIMS]

[Claim 1]

A heat-seal device used in a manufacturing apparatus manufacturing a product in which an opening portion of a container is sealed with a cap, characterized in that

a pressurizing plate is provided in a path on which the container moves;

a heating of the cap is carried out by an induction heating;

a seal head, which presses the cap covering the container, and a heating portion which heats said cap by the induction heating, are disposed on the pressurizing plate;

a temperature measuring device, which measures a temperature of the seal head, and a control device, which transmits a control signal on the basis of a measurement result of the temperature measuring device to a container-conveyance drive source, are provided, and that

the control device has a function of adjusting a moving speed of the container in accordance with the temperature of the seal head, a function of decelerating the moving speed in a case that the temperature of the seal head is low, and a function of accelerating the moving speed in a case that the temperature of the seal head is high; and a function of adjusting the heating time of the cap.

[Claim 2]

The heat-seal device according to claim 1, wherein

a container detection sensor is provided on an upstream side of the temperature measuring device; and

such a function is provided that the temperature measuring device starts temperature measurement of the seal head after

certain time has elapsed since the container detection sensor detects the container; and that

at time of start of the sealing, a control signal of the control device has been transmitted to the container conveyance drive source, and adjustment of the moving speed of the container has been carried out.

[Claim 3]

The heat-seal device according to any one of claims 1 to 2, wherein

an elastic material is disposed at a portion of the seal head which portion is in contact with the container mouth portion, and the temperature measuring device carry out the temperature measurement of the elastic material.

[Claim 4]

The heat-seal device according to any one of claims 1 to 3, wherein

the seal head is disposed circumferentially on the pressurizing plate, and the container which is into contact with the seal head moves in accordance with rotation of the pressurizing plate.

[Claim 5]

A heat-seal method using the heat-seal device according to any one of claims 1 to 4, wherein

a temperature of a seal head is measured by a temperature measuring device;

a control signal is transmitted to a container-conveyance drive source on the basis of a temperature measurement result of the seal head; and

heating time of a cap is determined in accordance with the temperature of the seal head.