CLAIMS

1. An article conveyance sorting system comprising:

a distributing section that distributes an article in a first direction or a second direction based on a first distribution control signal or a second distribution control signal corresponding to a distinguishing result of the article distinguished based on article information and a type of tray to where the article should be transported;

a first conveyance section that receives the article distributed in the first direction, and conveys the article based on a first conveyance control signal toward a tray of a first type among a plurality of trays sequentially conveyed;

a second conveyance section that receives the article distributed in the second direction, and conveys the article based on a second conveyance control signal toward a tray of a second type among the plurality of trays sequentially conveyed;

a conveyance sorting section that conveys the plurality of trays including the tray of the first type and the tray of the second type, and sorts each of articles conveyed by the plurality of trays to a designated sorting destination based on a sorting control signal, wherein the distributing section and both the first conveyance section and the second conveyance section are connected continuously; and

a control server configured to select the first

distribution control signal or the second distribution control signal.

2. The article conveyance sorting system according to claim 1, wherein the conveyance sorting section conveys the plurality of trays including an openable tray, which is the tray of the first type, and a sliding tray, which is the tray of the second type, and discharges the article from the openable tray or the sliding tray based on the sorting control signal to sort the article to the designated sorting destination.

3. The article conveyance sorting system according to claim 1 or 2, wherein

the first conveyance section includes a first conveyance speed adjustment section,

the second conveyance section includes a second conveyance speed adjustment section,

the first conveyance speed adjustment section variably controls a conveyance speed of the article based on the first conveyance control signal, and

the second conveyance speed adjustment section variably controls the conveyance speed of the article based on the second conveyance control signal.

4. The article conveyance sorting system according to any one of claims 1 to 3, wherein

the control server distinguishes the article based on an article weight included in the article information, and outputs the first distribution control signal or the second

distribution control signal according to the distinguishing result of the article.

5. The article conveyance sorting system according to claim 4, wherein the control server designates a sorting destination of the article based on article sorting information included in the article information, and outputs the sorting control signal corresponding to the designated sorting destination.

6. The article conveyance sorting system according to claim 4 or 5, wherein the control server detects a state of conveyance of the tray of the first type and the tray of the second type by the conveyance sorting section, and outputs, based on the state of conveyance, the first conveyance control signal for controlling a timing of delivery of the article toward the tray of the first type by the first conveyance section, and the second conveyance control signal for controlling a timing of delivery of the article toward the tray of the second type by the second conveyance section.