WHAT IS CLAIMED IS:

1. A conveyance system for conveying a workpiece to each of a plurality of processing apparatuses, comprising:

a track extending over the plurality of processing apparatuses and fixed to upper portions of the processing apparatuses;

an automated conveying vehicle for traveling on the track, the automated conveying vehicle including a storage member having a housing space for housing the workpiece therein, a traveling member coupled from above to the storage member, a traveling mechanism mounted on the traveling member, a lifting and lowering mechanism mounted on the traveling member, for lifting and lowering the storage member while suspending the storage member from above, and a receiver for receiving control signals;

a stock unit having a storage member holding base for holding the storage member thereon when the workpiece is transferred from a workpiece stocker that houses the workpiece therein to the storage member of the automated conveying vehicle, and a receiver for receiving control signals; and

a control unit including a transmitter for transmitting control signals to a processing apparatus,

the automated conveying vehicle, and the stock unit, a receiver for receiving notification signals from the processing apparatus, and a control signal generating section for generating control signals to be transmitted from the transmitter,

wherein

the track comprises a plurality of rails connected together,

the automated conveying vehicle travels only on the rails with the storage member disposed below the rails,

the control signal generating section of the control unit generates control signals to be transmitted from the transmitter of the control unit on a basis of the notification signals received by the receiver of the control unit,

the transmitter of the control unit transmits control signals generated by the control signal generating section of the control unit to the processing apparatus, the automated conveying vehicle, and the stock unit, and

the automated conveying vehicle travels on the track on a basis of control signals received by the receiver thereof.

2. The conveyance system according to claim 1,

wherein the plurality of rails comprises a first rail that includes a first route and a second route.

3. The conveyance system according to claim 2,

wherein the first rail that includes the first route and the second route is held by a large-size rail holding structure having three legs.

4. The conveyance system according to claim 1,

wherein the track includes legs having suction members that adhere under suction to the processing apparatus, and is fixed to the processing apparatus by the suction members.

5. The conveyance system according to claim 2,

wherein the plurality of rails further comprises a second rail that includes

a straight shape;

a single third route; and

is held by a small-size rail holding structure having two legs.

6. The conveyance system according to claim 1,

wherein the processing apparatus has a conduit connecting part to which conduits are connected, or doors for maintenance disposed in a side surface.