

1. A telescopic rack, comprising a rack body, a material tray, and a driving mechanism, wherein the rack body comprises a shielding layer and a storage layer located below the shielding layer, the storage layer is provided with a sliding rail extending in a first direction, the material tray is slidably mounted on the sliding rail through a sliding block, the material tray is provided with at least one storage position for holding goods, and the driving mechanism is configured to drive the material tray to move along the sliding rail so that the storage position moves out of the storage layer.

2. The telescopic rack according to claim 1, wherein the storage layer is provided with a plurality of material trays spaced apart in a second direction, the second direction being perpendicular to the first direction.

3. The telescopic rack according to claim 2, wherein at least one storage position bottom plate is mounted on the material tray, and the storage position is located on the storage position bottom plate and is in a one-to-one correspondence with the storage position bottom plate.

4. The telescopic rack according to claim 3, wherein the storage position comprises a first storage position for holding a wafer cassette and a second storage position for holding a wafer tray carrier; a plurality of first stop blocks defining the first storage position in an enclosing manner and a plurality of second stop blocks defining the second storage position in an enclosing manner are mounted on the storage position bottom plate, the second stop block is disposed on an outer side of the first stop block, and the second stop block at least partially extends above the first stop block.

5. The telescopic rack according to claim 4, wherein the first stop block comprises a first support portion and a first side stop portion disposed at an edge of a top surface of the first support portion, the first side stop portion defines the first storage position on an inner side of the first support portion in an enclosing manner, and the first support portion is configured to support the wafer cassette in the first storage position; the second stop block comprises a second support portion and a second side stop portion disposed at an edge of a top surface of the second support portion, the second side stop portion defines the second storage position on an inner side of the second support portion in an enclosing manner, and the second support portion is configured to support the wafer tray carrier in the second storage position; a height of the second support portion on the storage position bottom plate is not lower than a height of the first side stop portion on the storage position bottom plate.

6. The telescopic rack according to claim 5, further comprising two first in-position sensors and two second in-position sensors, wherein the two first in-position sensors are disposed in the first support portions of two first stop blocks along a diagonal of the first storage position, respectively, and the two second in-position sensors are disposed in the second support portions of two second stop blocks along a diagonal of the second storage position, respectively.

7. The telescopic rack according to claim 4, wherein a presence sensor is disposed below each storage position bottom plate, and the presence sensor is configured to detect whether a good is placed on a corresponding storage position bottom plate.

8. The telescopic rack according to claim 1, further comprising a display screen for displaying information about goods on the telescopic rack, wherein the display screen is mounted on the rack body with an adjustable inclination angle.

9. The telescopic rack according to claim 1, further comprising barcode readers in a one-to-one correspondence with the storage positions, wherein the barcode reader is configured to read barcode information on goods.

10. The telescopic rack according to any one of claims 1 to 9, wherein a plurality of feet are mounted at a bottom of the rack body;

and/or,

a ground wire in contact with ground is mounted at the bottom of the rack body.