



# Under Drive Lifting Mobile Robot - W300

INS + QR Code Navigation + Load 300Kg

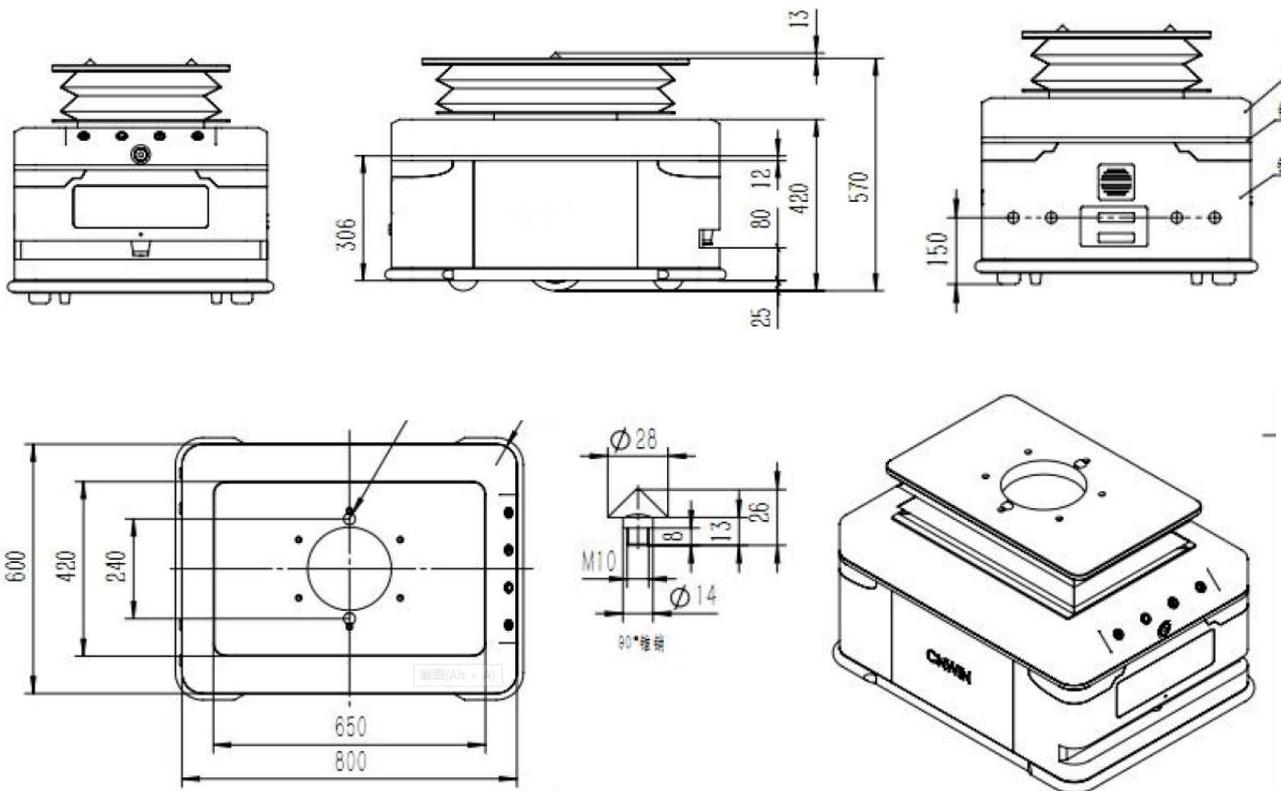
## Product feature

1. Using QR code navigation, laying two-dimensional code on the ground, combining with the inertial navigation system for positioning and correction, can reach accurate positioning of  $\pm 10$  mm..
2. The load weight can reach 500kg, and most of the goods can be transported by jacking, rotating.
3. The equipment adopts the modular design of the whole machine, which makes the assembly and maintenance more convenient.
4. The battery can last for  $\geq 8$  hours with full load, and the robot can automatically charge with low power (set the low power value according to the customer's requirements).



- Cluster scheduling, in the robot control system, can view the working status, battery energy, location and other information of all robots at the same time, and schedule all devices through the system.
- Equipped with lidar safety barrier avoidance, front contact anti-collision bar, left and right emergency stop buttons, multiple safety protection to protect equipment and cargo safety.
- Path planning in system, realize unmanned operation, staff only need to give instructions through the control terminal.

## Dimension



## Specification



|                 |                          |   |
|-----------------|--------------------------|---|
| Basic parameter | Model                    | W300  |
|                 | Weight                   | ≤200KG  |
|                 | Rated Weight             | 300KG   |
|                 | Dimension(L*W*H)         | 800*600*570mm(Without Bumper)   |
|                 | Lifting Height           | ≤60mm   |
|                 | Navigation Mode          | QR Code Navigation  |
|                 | Drive Mode               | Servo motor+Double wheel differential drive                                   |
| Parameters      | Positional Accuracy      | ±10mm   |
|                 | Max.Speed(no load)       | 1.2m/s  |
|                 | Running Speed(full load) | 1.0m/s  |
|                 | Trafficability           | 30mm gap  |
|                 | Gradeability             | ≤2°   |
|                 | Communication Mode       | Wireless Communication  |
|                 | Debug Interface          | Open Interface  |
| Battery         | Charging Mode            | Automatic/Offline charging(optional)  |
|                 | Endurance                | ≥8h   |
|                 | Battery Type             | Lithium iron Phosphate  |
|                 | Battery Capacity         | 48V ≥30AH   |
|                 | Charging Time            | 1.5~2h  |
|                 | Charging Time            | 1500 Cycles , Capacity≥80%  |
| Safe            | Walking Mode             | Forward, backward, rotate in place  |
|                 | Obstacle Avoidance       | Laser obstacle sensor, Emergency stop button, Mechanical anti-collision strip |
|                 | Audible Alarm            | Support   |
|                 | Emergency Switch         | 1   |



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