



**CT50**

Series

## AI-Powered Stair Climbing Robot

Fully automatic operation  
Intelligent path correction

Self-Balancing stability system  
Seamless platform transition





### CT50

|                             |   |
|-----------------------------|---|
| Load capacity(kg)           | 420   |
| Weight without battery(kg)  | 100   |
| Speed(steps/min)            | 18  |
| Upstairs endurance(steps)   | 840~907   |
| Downstairs endurance(steps) | 1785~1890   |
| Min. platform size(mm)      | U-shaped: 2000x1300<br>L-shaped: 1100x1200  |
| Step height(mm)             | Height≤210  |
| Min. turning radius(mm)     | Crawler track mode: 850<br>Flat ground mode: 905  |
| Ditch crossing(mm)          | Crawler track mode≤350  |
| Max. slope(°)               | ≤40   |
| Sensor types                | LiDAR, gyroscope  |
| Battery parameters          | Lithium battery 48V 10Ah  |
| Size(mm)                    | 632 * 1168 * 411(Folded)<br>632 * 1030 * 1020~1244(Unfolded)  |
| Advantages                  | Fully automated operation<br>Balanced load without sway<br>Stair climbing with deviation correction<br>Smooth and stable platform transition<br>One-key posture switching |