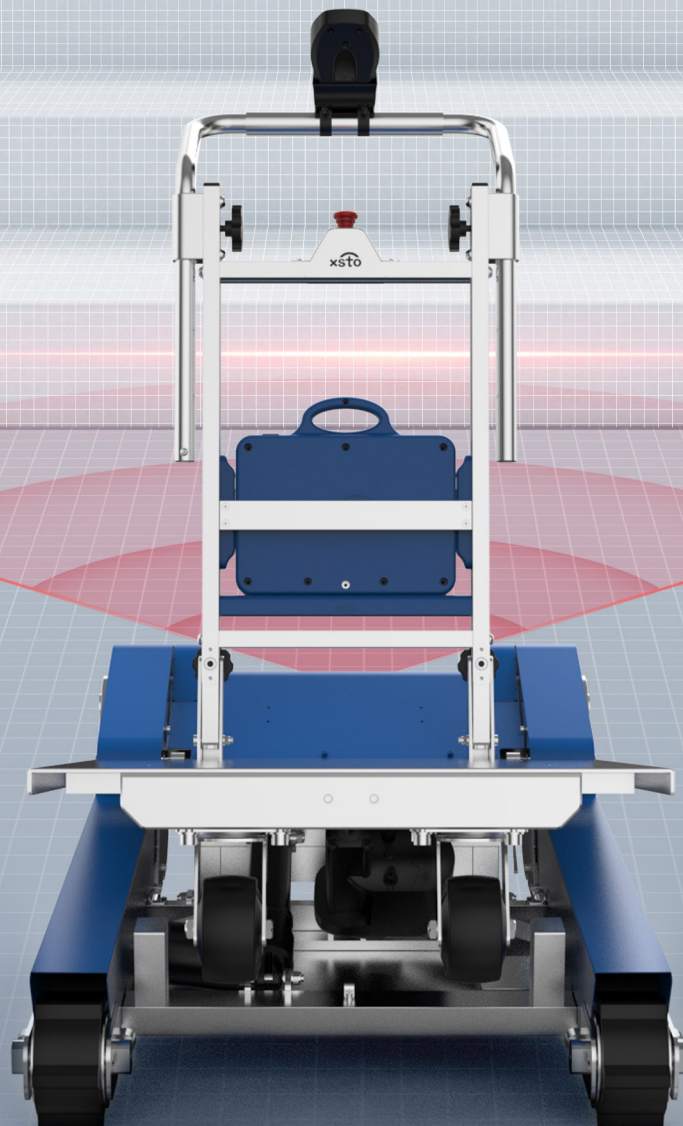




EASE YOUR WAY TO ANYWHERE

AI+ Stair Climbing Robot CT500



AI intelligent control

intelligent self-balancing

track correction

AI+ Stair Climbing Robot CT500



AI INTELLIGENT CONTROL

for going upstairs and downstairs and crossing obstacles

XSTO-developed Mengchong technological system, Automatically detects and balances cargo throughout the entire process. Automatic final-step retractable wheels ensure safe, smooth platform transitions.

200%
The adjustment speed
is increased by

The LiDAR builds
3D map in real time

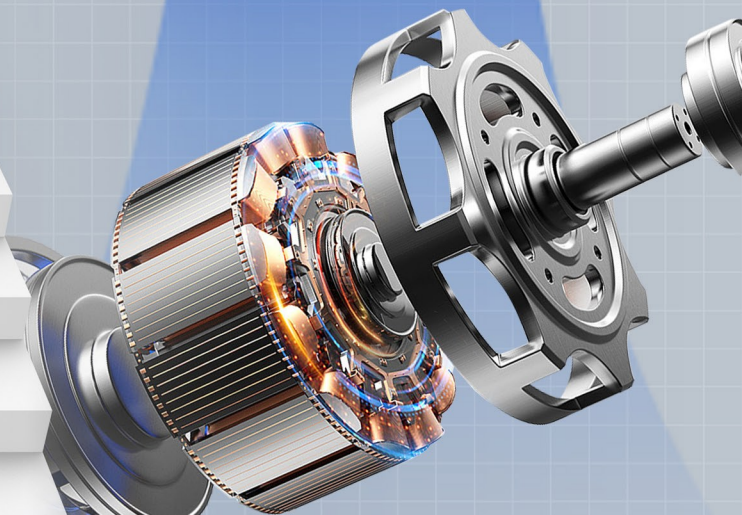
Powerful and Efficient

500kg industrial-grade load capacity,
18 stair steps per minute

Speed is
increased **30%**

Auto-alignment technology

Through gyroscope sensing
combined with LiDAR scanning
for 3D map building,
Auto-alignment technology of
the machine is achieved when
climbing stair direction deviates



AI+ Stair Climbing Robot CT500

xsto

Flat Ground Mode



Upstairs Mode

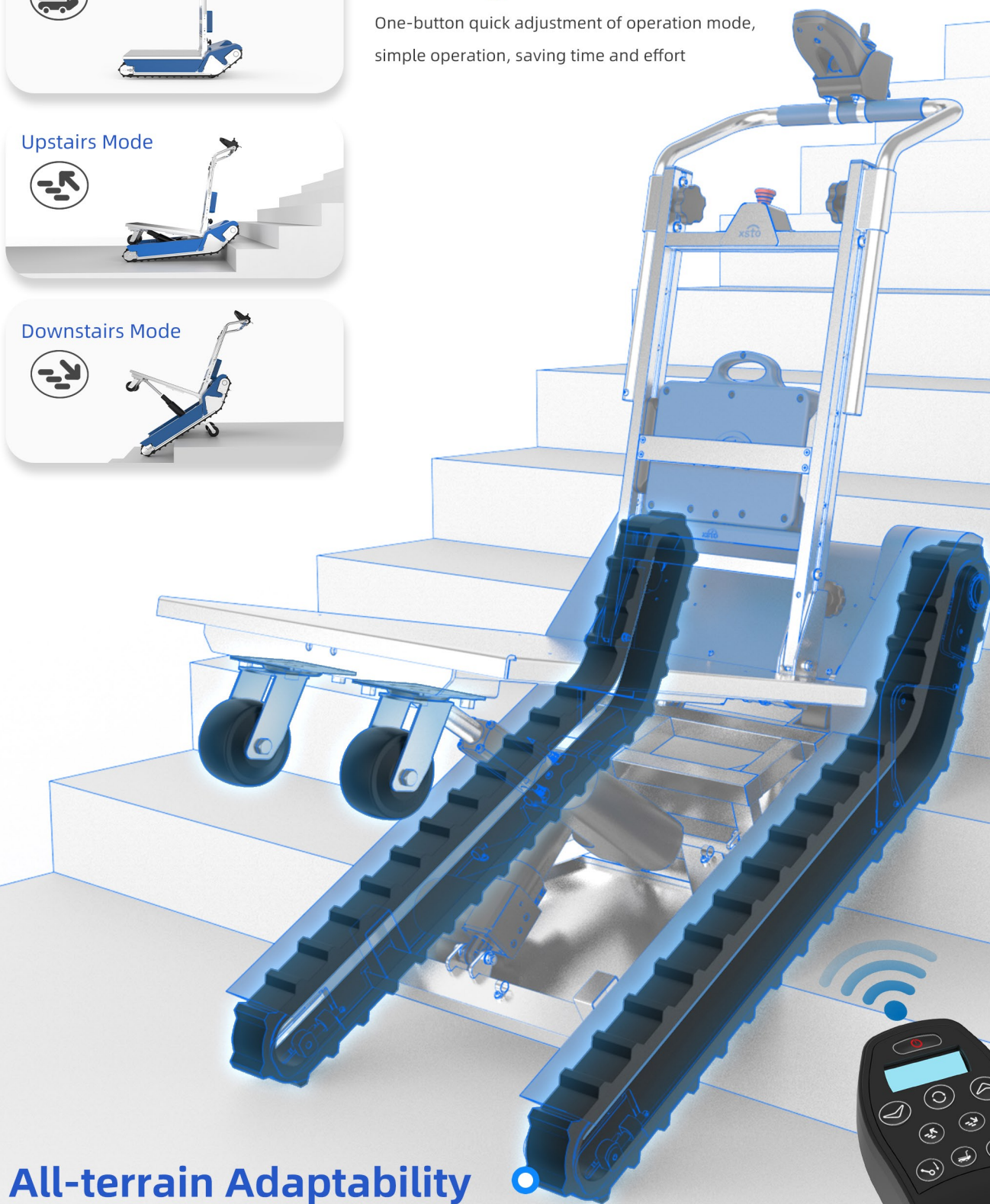


Downstairs Mode



Intelligent Mode

One-button quick adjustment of operation mode, simple operation, saving time and effort



All-terrain Adaptability

The chassis wheel and crawler track crawling system are agile in all directions in narrow spaces, realizing seamless switching among stairs, slopes and flat ground

A multifunctional Bluetooth controller enables remote control within a range of 6 meters

Wireless remote control



AI+ Stair Climbing Robot CT500



OPEN FOR SECONDARY DEVELOPMENT, UNLEASHING UNLIMITED POTENTIAL

Open-source peripheral interface, supports sensors, cameras robotic arms, gas detectors, thermal imaging, cleaning modules, satellite communication etc. Applicable to mapping, inspection, agriculture, photography, environmental protection, firefighting, emergency power, and other professional applications—perfect for customized development.



AI Large Model



Target Tracking



Path Planning



Dynamic Obstacle Avoidance



Multi-point Navigation



LiDAR



Secondary Programming



Multiple Controls

AI+ Stair Climbing Robot CT500

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500kg



100kg



4 Units



18 Steps/Minute



**61-66 Floors
(800-864 Steps)**



**120-128 Floors
(1700-1800 Steps)**



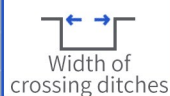
U-shaped:2000×1300mm
L-shaped:1100×1200mm
Width:732mm



Height≤210mm
Slope≤35°



Crawler track mode:850mm
Flat ground mode:905mm



Crawler track mode
≤350mm



≤40°



**LiDAR
Gyroscope**



48V 10Ah



AC100-220V
DC54.6V 4A



6000x55mm



Dimension unit (mm)

AI+ Stair Climbing Robot CT500



Electric Lifting Device

Capacity: 420kg

Lifting stroke: 250mm

Applicable cargo width: >790mm



Photocopier Accessory

Capacity: 250kg

Weight: 14kg

Applicable cargo size: <750x750mm



Loading Ramps

Capacity: 520kg

Weight: 19.6kg

Applicable loading board height:
600~800mm



xsto® XSTO CO., LTD.
Ease Your Way To Every Stair

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