

Mobile Manipulator  
» Specification



Model	M5-B	M10-B	M5-L	M10-L
DOF	6	6	6	6
Arm Payload (kg)	5	10	5	10
Reach (mm)	920	1400	920	1400
Arm Weight (kg)	21	37	21	37
Navigation Mode	Laser SLAM navigation, reflector navigation			
Drive Mode	Diferential drive of double wheel			
L*W*H (mm)	1056*692*750			
Ground Clearance (mm)	30			
Turning Diameter (mm)	1200			
Total weight (kg)	200			
Mobile Platform Payload kg)	217	233	212	228
Min. Passage Width (mm)	700			
Position Accuracy of Navigation (mm)	±5			
Angle Accuracy of Navigation (°)	±0.5			
Obstacle Clearance Height (mm)	10			
Gap Width (mm)	30			
Speed (m/s)	<1.5			
Gradeability (°)	5			
Batter (V/Ah)	50			
Running Time (h)	≤8			
Charging Time (10-80%)(h)	≤1.5			
Charging Mode	Manual charging, battery quick swap			
Wi-Fi	Yes			
Laser Refector Navigation	Yes			
DO	16			
DI	16			
AO	4			
AI	4			
E-stop Interface	4-output			
Ethernet	4 RJ45 Ethernet pors			
Laser Sensor	1 or 2			
Teach Pendant	pad/pc			
E-stop Button	Yes			
Speaker	Yes			
Status Light	Yes			
Bumper Strip	Yes			

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# CODROID ROBOT



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M ESTUN CoDroid  
Series » Mobile Manipulator

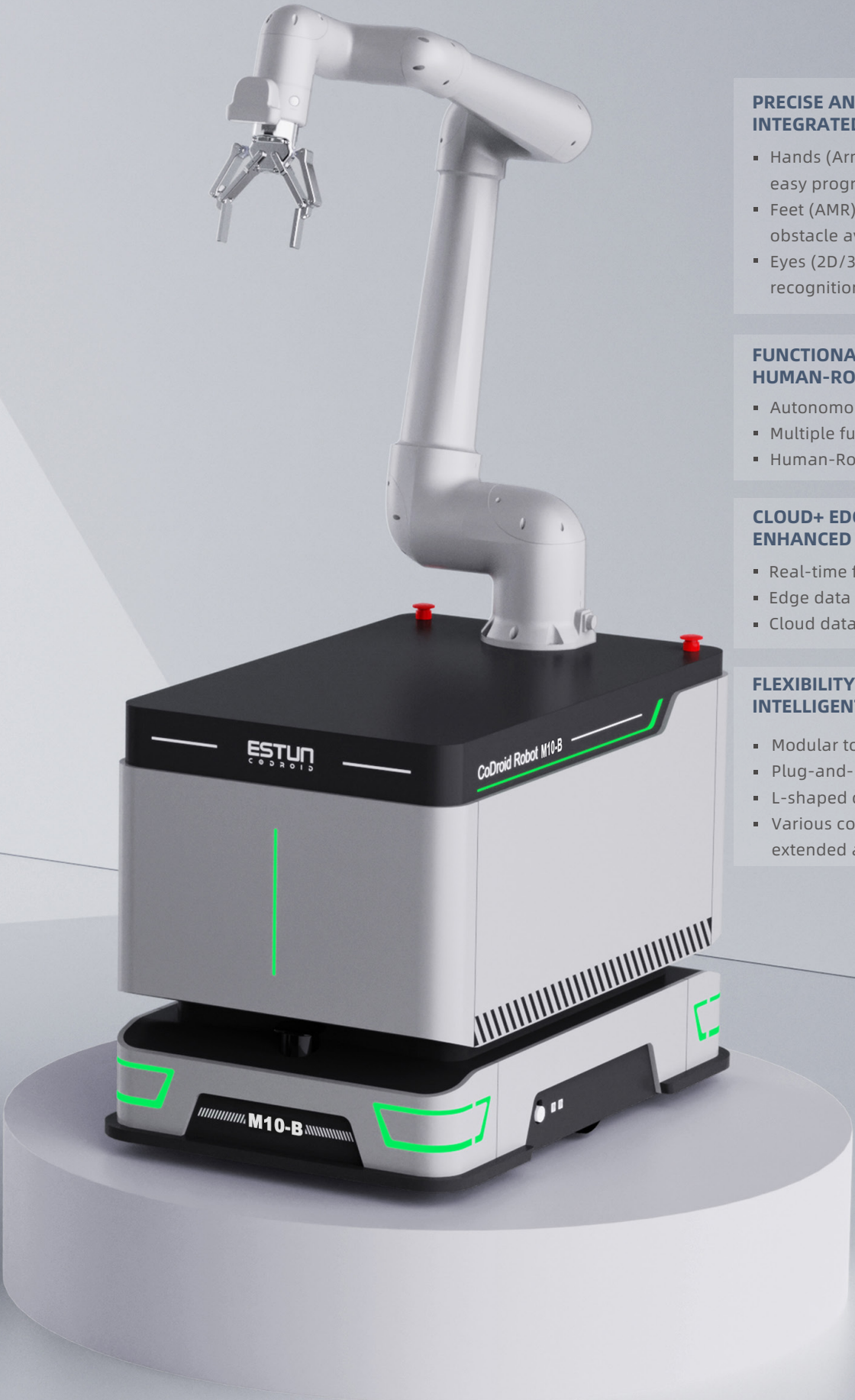


» ESTUN CoDroid

# CODROID M Series

M Series Mobile Manipulator

Featured with advanced laser SLAM and navigation technology, visual sensing technology, and motion control, M-series provide a Hands-Feet-Eyes integrated control by combining cobot and AMR. It is intelligent to recognize environment and perform precise route planning to ensure that the operation process is accurate and consistent, which can also avoid obstacle and people independently.



## PRECISE AND EFFICIENT INTEGRATED HANDS, FEET, AND EYES

- Hands (Arm): Agile operation, smooth interaction, easy programming
- Feet (AMR): Rapid mapping, autonomous navigation, obstacle avoidance
- Eyes (2D/3D Vision): Open integration, intelligent recognition, dynamic sensing

## FUNCTIONAL SAFETY HUMAN-ROBOT SHARED SPACE

- Autonomous obstacle avoidance
- Multiple functional safety
- Human-Robot collaboration

## CLOUD+ EDGE INTERGRATION ENHANCED MANAGEMENT EFFICIENCY

- Real-time feedback of robot data
- Edge data consolidation
- Cloud data visualization

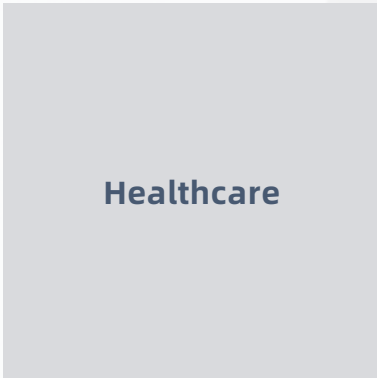
## FLEXIBILITY INTELLIGENT ENVIRONMENT SENSING

- Modular tooling for rapid deployment
- Plug-and-play end effectors
- L-shaped design for more space
- Various communication interfaces, adaptable for extended applications

## » Applications



Machine Tending



Healthcare



Laboratory Automation



Electronics Manufacturing

