





LIMO COBOT

Multi-modal ROS Mobile Manipulator Robot









Génération ROBOTS

LIMO Cobot is AgileX Robotics' latest desktop mobile manipulator robot based on LIMO PRO. It features the Mycobot 280 and Nvidia Orin Nano, enabling autonomous navigation, obstacle avoidance, mapping, mobile grasping, and visual recognition. It provides open interfaces and a variety of ROS tutorials, including navigation, mapping, localization, and Movelt motion planning software. It is suited for education, competitions, training, and more.

LIMO PRO Specifications:

Vehicle Dimensions	Vehicle Weight	Load Capacity	Ground Clearance
322 x 220 x 550mm	4.8kg	4kg	24mm
Steering Structure	Screen	Computer	Depth Camera
40N · m	7 inches	Orin Nano	Orbbec Dabai
Lidar	Battery	Operating Time	Standby Time
EAI T-mini Pro	10Ah 12V	2.5hours	4hours
EAI T-mini Pro	10Ah 12V	2.5hours	4hours
EAI T-mini Pro System	10Ah 12V Speed	2.5hours ROS Version	4hours
EAI T-mini Pro System Ubuntu 20.04	10Ah 12V Speed 1m/s	2.5hours ROS Version ROS1 Noetic / ROS2 Foxy	4hours
EAI T-mini Pro System Ubuntu 20.04	10Ah 12V Speed 1m/s	2.5hours ROS Version ROS1 Noetic / ROS2 Foxy	4hours
EAI T-mini Pro System Ubuntu 20.04 Control Distance	10Ah 12V Speed 1m/s Control Method	2.5hours ROS Version ROS1 Noetic / ROS2 Foxy	4hours

LIMO COBOT Specifications:

Total Weight	Dimensions	Arm Weight	Arm
5.6kg	322 x 220 x 550mm	0.8 kg	6–DOF + Gripper
Arm Working Accuracy ±0.5mm	Arm Working Radius 280mm	Navigation Method LIDAR SLAM, Visual SLAM	Parking Accuracy 1–2cm

Working Load

Communication

LIMO – 4 kg, Arm – 250g LIMO – USB, Arm – Type–C



Mobile Grasping:

LIMO Cobot has a versatile six-axis robotic arm for precise mobile grasping, adapting to different task needs.



Autonomous Mapping:

LIMO Cobot autonomously creates accurate environmental maps, aiding navigation in complex spaces.



Obstacle Avoidance:

LIMO Cobot intelligently senses its surroundings, navigating around obstacles for safe task execution.



Open-Source Support:

LIMO Cobot supports ROS, Gazebo, Python and C++, making development flexible and accessible.