

PAL

# KANGAROO PRO

LEAP INTO THE FUTURE OF DYNAMIC BIPEDAL ROBOTICS

## Symmetric Workspace

Wide range of motion for front and rear manipulation tasks

## Anthropomorphic Design

Human-like torso actuation

## Plug & Play

Easy to integrate custom end-effectors

## Novel leg architecture

Linear actuators with closed kinematic chains for efficient locomotion



Height

160 cm

Weight from

50 kg

Control loop

2 kHz

Leg DoF

6

Arm DoF

Up to 7

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## TECHNICAL SPECIFICATIONS



Version	Lite	Standard	Plus
Height	1,6 m	1,6 m	1,6 m
Weight	50 kg	54 kg	56 kg
Control loop	1 kHz Ethercat	2 kHz Ethercat	2 kHz Ethercat
Autonomy	Up to 3 hours	Up to 3 hours	Up to 3 hours
Control PC	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD
Multimedia PC	Add-on	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD
Connectivity	Wi-Fi 6 x2	Wi-Fi 6 x2	Wi-Fi 6 x2
Legs	2x 6 DoF Leg	2x 6 DoF Leg	2x 6 DoF Leg
Torso	Fixed torso	2 DoF	2 DoF
Perception kit	-	4x RGB-D Cameras	4x RGB-D Cameras
AI Kit	-	NVIDIA Jetson Orin NX	NVIDIA Jetson Orin AGX
Force Sensors	-	-	One per leg actuator
Arms DoF	2x 4 DoF	2x 7 DoF	2x 7 DoF
Torque Sensors	-	One per arm actuator	One per arm actuator
Arms Payload	5 kg	3 kg	3 kg
Wrist FT Sensor	-	Add-on	2x FT Sensors, one in each wrist
Plug & Play End effector ISO 9409-1	-	2x Parallel gripper	2x Parallel gripper
Compatible Simulators	Isaac Lab Mujoco Gazebo	Isaac Lab Mujoco Gazebo	Isaac Lab Mujoco Gazebo
ROS 2 API	✓	✓	✓
Transport case	Basic	Basic	Premium
Documentation	✓	✓	✓
Support & Maintenance	Yearly Subscription	Yearly Subscription	Yearly Subscription