PiPER SERIES

6-DOF Robotic Arm

python™

ROS

ROS 2

PiPER-X

Wrist-like dexterity built for research

669 mm
Working radius

± 0.1 mm
Repeatability

4.5 kg
Weight

PiPER X Adopts an enhanced J4/J5 joint design tailored for compact environments and high-precision tasks. It achieves an optimal balance between reachability and structural integrity, enabling agile pose adjustment and broader applicability in complex scenarios.

PiPER

Lightweight, flexible, and ROS-ready

PiPER H

With a 2 kg payload, is designed for heavier tasks and broader application scenarios.

636 mm
Working Radius

± 0.1 mm
Repeatability

2 kg
Payload

PiPER L

750mm extended reach to enable wider workspace coverage for multi application scenarios.

750 mm
Working Radius

± 170°
J6 Axis Rotation

4.5 kg
Weight

SPECIFICATION

	PiPER	PiPER L
Weight	4.2kg	4.5kg
Material	Aluminum & plastic housing	Aluminum & plastic housing
Input Voltage	DC24V	DC24V
Consumption	Max ≤ 120W, Average ≤ 40W	Max ≤ 120W, Average ≤ 40W
DOF	6	6
Payload	1.5kg	1.5kg
Repeatability	± 0.1mm	± 0.1mm
Reach	626mm	750mm
Communication	CAN	CAN
Controller	Integrated	Integrated
Control Method	Drag teaching / API / Offline trajectory / PC	Drag teaching / API / Offline trajectory / PC
Operating Env	Temperature: -20–50 °C	Temperature: -20–50°C
Noise	< 60dB	< 60dB
Joint Motion Range	J1:±154° J4:-100°~112° J2:0°~195° J5:-175°~0° J3:-175°~0° J6:±100°	J1:±154° J4:-135°~135° J2:0°~195° J5:-90°~90° J3:-175°~0° J6:±170°
Joint Maximum Speed	J1:180°/s J4:225°/s J2:195°/s J5:225°/s J3:180°/s J6:225°/s	J1:180°/s J4:225°/s J2:195°/s J5:225°/s J3:180°/s J6:225°/s

PiPER H

PiPER X

	PiPER H	PiPER X
Weight	4.5kg	4.5kg
Material	Aluminum & plastic housing	Aluminum & plastic housing
Input Voltage	DC24V	DC24V
Consumption	Max ≤ 120W, Average ≤ 40W	Max ≤ 120W, Average ≤ 40W
DOF	6	6
Payload	2kg	1.5kg
Repeatability	± 0.1mm	± 0.1mm
Reach	636mm	669mm
Communication	CAN	CAN
Controller	Integrated	Integrated
Control Method	Drag teaching / API / Offline trajectory / PC	Drag teaching / API / Offline trajectory / PC
Operating Env	Temperature: -20–50°C	Temperature: -20–50°C
Noise	< 60dB	< 60dB
Joint Motion Range	J1:±154° J4:-135°~135° J2:0°~195° J5:-90°~90° J3:-175°~0° J6:±170°	J1:±154° J4:-90°~90° J2:0°~195° J5:-90°~90° J3:-175°~0° J6:±170°
Joint Maximum Speed	J1:180°/s J4:225°/s J2:195°/s J5:225°/s J3:180°/s J6:225°/s	J1:180°/s J4:225°/s J2:195°/s J5:225°/s J3:180°/s J6:225°/s

* All specifications are accurate at the time of AgileX's testing.
Actual performance may vary depending on the environment and application.

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