

Generation ROBOTS

Brand of **NGX** ROBOTICS



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PIPER SERIES

6-DOF Robotic Arm



ROS

ROS 2



PIPER

PIPER H

PIPER X

PIPER L

PiPER

Lightweight, flexible, and ROS-ready



PiPER H

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

636 mm **± 0.1 mm** **2 kg**
Working Radius Repeatability Payload

PiPER L

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

750 mm **± 170°** **4.5 kg**
Working Radius J6 Axis Rotation Weight

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	 PiPER L	 PiPER H	 PiPER X
Weight	4.2kg	4.5kg	4.5kg	4.5kg
Material	Aluminum & Plastic Housing	Aluminum & Plastic Housing	Aluminum & Plastic Housing	Aluminum & Plastic Housing
Input Voltage	DC24V	DC24V	DC24V	DC24V
Consumption	Max ≤ 120W, Average ≤ 40W	Max ≤ 120W, Average ≤ 40W	Max ≤ 120W, Average ≤ 40W	Max ≤ 120W, Average ≤ 40W
DOF	6	6	6	6
Payload	1.5kg	1.5kg	2kg	1.5kg
Repeatability	± 0.1mm	± 0.1mm	± 0.1mm	± 0.1mm
Reach	626mm	750mm	636mm	669mm
Communication	CAN	CAN	CAN	CAN
Controller	Integrated	Integrated	Integrated	Integrated
Control Method	Drag Teaching / API / Offline Trajectory / PC	Drag Teaching / API / Offline Trajectory / PC	Drag Teaching / API / Offline Trajectory / PC	Drag Teaching / API / Offline Trajectory / PC
Operating Env	Temperature: -20–50 °C	Temperature: -20–50°C	Temperature: -20–50°C	Temperature: -20–50°C
Noise	< 60dB	< 60dB	< 60dB	< 60dB
Joint Motion Range	J1: -154°/154° J2: 0°/195° J3: -175°/0° J4: -100°/112° J5: -75°/75° J6: -120°/120°	J1: -154°/154° J2: 0°/195° J3: -175°/0° J4: -127°/127° J5: -90°/90° J6: -170°/170°	J1: -154°/154° J2: 0°/195° J3: -175°/0° J4: -127°/127° J5: -90°/90° J6: -170°/170°	J1: -154°/154° J2: 0°/195° J3: -175°/0° J4: -90°/90° J5: -90°/90° J6: -165°/165°
Joint Maximum Speed	J1: 180°/s J2: 195°/s J3: 180°/s J4: 225°/s J5: 225°/s J6: 225°/s	J1: 180°/s J2: 195°/s J3: 180°/s J4: 225°/s J5: 225°/s J6: 225°/s	J1: 180°/s J2: 195°/s J3: 180°/s J4: 225°/s J5: 225°/s J6: 225°/s	J1: 180°/s J2: 195°/s J3: 180°/s J4: 225°/s J5: 225°/s J6: 225°/s