

P-Series Robots P500R

Product Dimensions

Body Size: 950×702×275 mm

Weight: 144 kg

Rotation Diameter: 950 mm

Maximum Lift Height: 60 mm

Shelf Dimensions:

Standard Container Size: 880×880mm shelf

Size Range for Maximum Load: 880×880 to 1020×1220mm shelf

Minimum Shelf Inside Diameter: 800mm

Shelf Bottom Height: 300mm



Battery & Power

Battery Type:

Wide temperature lithium battery, DC51.1V, 30Ah (P500R-IWD V5.1)

Wide temperature lithium battery, DC51.8V, 40.3Ah (P500R-LNU V5.2)

Cycle Life: >5 years (P500R-IWD V5.1); >3 years (P500R-LNU V5.2)

Charging Time: 10 minutes charge for 1.5–2 hours of work

Charge-Discharge Ratio: 1:8 to 1:10, plus one standby charging station

Core Features & Performance

Navigation System	Inertia + QR code visual navigation
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Payload Capacity	600 kg
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Lift Time	4s
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Position Accuracy	Stop Accuracy : $\leq \pm 10$ mm, $\pm 1^\circ$ (geometric center of vehicle body)
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Base Travel Speed	No-load 2m/s, full-load 1.5m/s
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Safety & Environmental Adaptability

Obstacle Detection	Infrared (P500R-IWD V5.1) Lidar (P500R-LNU V5.2)
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Emergency Features	1 emergency stop button (front and rear) 1 bumper strip (front and rear)
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Floor Requirements:	Flatness: Height difference ≤ 8 mm within 2m ² Step: ≤ 2 mm Ditch Width: ≤ 5 mm
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Operating Conditions	Temperature: -10~50°C (P500R-IWD V5.1) -10~45°C (P500R-LNU V5.2) Humidity: $\geq 5^\circ\text{C}$: 10%~95%, non-condensing $< 5^\circ\text{C}$: 10%~40%, non-condensing
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P-Series Robots P800R

Product Dimensions

Body Size:

1095×830×195 mm(Regular version)

1095 × 830 × 275 mm(Thicker version for Popick)

Weight: 142 kg

Rotation Diameter: 1095 mm

Maximum Lift Height: 55 mm

Shelf Dimensions:

Standard Container Size: 1220×1020mm shelf

Size Range for Maximum Load: 1020×1020 to 11250×1250mm shelf

Minimum Shelf Inside Diameter: 930mm

Shelf Bottom Height: 215mm

Battery & Power

Battery Type: Wide temperature lithium battery, DC51.1V, 27.9Ah

Cycle Life: >3 years

Charging Time: 10 minutes charge for 1.5–2 hours of work

Charge-Discharge Ratio: 1:8 to 1:10, plus one standby charging station



Core Features & Performance

Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Lidar Obstacle Detection Optional visual detection (-EWE/-EWS version)
Payload Capacity	1000 kg	Emergency Features	1 emergency stop button (front and rear) 1 bumper strip (front and rear)
Lift Time	4s	Floor Requirements:	Flatness: Height difference ≤8mm within 2m ² Step: ≤2mm Ditch Width: ≤5mm
Position Accuracy	Stop Accuracy : ≤± 10 mm, ± 1°	Operating Conditions	Temperature:-10~45°C Humidity: ≥5°C :10%~95%, non-condensing <5°C : 10%~40%, non-condensing
Base Travel Speed	No-load 2.3m/s, full-load 2m/s		

P-Series Robots P1200R

Product Dimensions

Body Size: 1325×1020×275 mm

Weight: 288 kg

Rotation Diameter: 1325 mm

Maximum Lift Height: 60 mm

Shelf Dimensions:

Size Range for Maximum Load: 1250 × 1250 mm to 1600 × 1600 mm shelf

Minimum Shelf Inside Diameter: 1130 mm

Shelf Bottom Height: 300 mm

Battery & Power

Battery Type: Wide temperature lithium battery, DC51.1V, 27.9Ah

Cycle Life: >3 years

Charging Time: 10 minutes charge for 1.5–2 hours of work

Charge-Discharge Ratio: 1:6 to 1:8, plus one standby charging station



Core Features & Performance

Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Lidar Obstacle Detection Optional visual detection (-EWE/-EWS version)
Payload Capacity	1200 kg	Emergency Features	1 emergency stop button (front and rear) 1 bumper strip (front and rear)
Lift Time	4s	Floor Requirements:	Flatness: Height difference $\leq 8\text{mm}$ within 2m^2 Step: $\leq 2\text{mm}$ Ditch Width: $\leq 5\text{mm}$
Position Accuracy	Stop Accuracy : $\leq \pm 10\text{ mm}$, $\pm 1^\circ$	Operating Conditions	Temperature: $-10^\circ\text{C} \sim 45^\circ\text{C}$ Humidity: $\geq 5^\circ\text{C}$: 10%~95%, non-condensing $< 5^\circ\text{C}$: 10%~40%, non-condensing
Base Travel Speed	No-load 2.6m/s, full-load 2.2m/s		