

RS-Series Robots

RS5-D

Product Dimensions

**Body Size:**1490×870×5100mm  
**Weight:** 470 kg  
**Maximum Lifting Height:** 4865 mm  
**Shelf Compatibility:**600×400×(150~400)mm

Battery & Power

**Battery Type:** Lithium-ion, DC50.4V, 42Ah  
**Cycle Life:**>2000 cycles  
**Maximum charging current:** 30 A



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Front and rear laser sensors
Payload Capacity	40 kg	Emergency Features	2 emergency stop buttons
Lift Time	8 s	Floor Requirements:	Flatness: Height difference ≤4 mm within 2m <sup>2</sup> Ditch Width: ≤5mm
Position Accuracy	Stop Accuracy : < 10 mm	Operating Conditions	Temperature: 0°C ~45°C Humidity: 10%~95%, non-condensing
BaseTravel Speed	No-load 1.8m/s, full-load 1.5m/s		

RS-Series Robots

RS8-DA

Product Dimensions

**Body Size:**1800×1000×4700mm  
**Weight:** 900 kg  
**Maximum Lifting Height:** 7935 mm  
**Shelf Compatibility:**(200~650)×(200~450)×(150~400)mm

Battery & Power

**Battery Type:** Lithium-ion, DC50.4V, 42Ah  
**Cycle Life:**>2000 cycles  
**Maximum charging current:** 50 A



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Front and rear laser sensors
Payload Capacity	40 kg	Emergency Features	3 emergency stop buttons
Lift Time	10s	Floor Requirements:	Flatness: Height difference ≤3 mm within 2m <sup>2</sup> Ditch Width: ≤5mm
Position Accuracy	Stop Accuracy : < 10 mm	Operating Conditions	Temperature: -10°C ~45°C Humidity: 10%~95%, non-condensing
BaseTravel Speed	No-load 1.8m/s, full-load 1.5m/s		

RS-Series Robots

RS8-DX

Product Dimensions

**Body Size:**1800×1000×4700mm  
**Weight:** 890 kg  
**Maximum Lifting Height:** 7935 mm  
**Shelf Compatibility:**(400~650)×(400~450)×(280~500)mm

Battery & Power

**Battery Type:** Lithium-ion, DC50.4V, 42Ah  
**Cycle Life:** >2000 cycles  
**Maximum charging current:** 50 A



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Front and rear laser sensors
Payload Capacity	40 kg	Emergency Features	3 emergency stop buttons
Lift Time	10s	Floor Requirements:	Flatness: Height difference ≤3 mm within 2m <sup>2</sup> Ditch Width: ≤5mm
Position Accuracy	Stop Accuracy : < 10 mm	Operating Conditions	Temperature:-10°C ~45°C Humidity:10%~95%, non-condensing
BaseTravel Speed	No-load 1.8m/s, full-load 1.5m/s		

RS-Series Robots

RS11-DA

Product Dimensions

**Body Size:**1800×1000×6200mm

**Weight:** 970 kg

**Maximum Lifting Height:** 10765 mm

**Shelf Compatibility:**(300~650)×(300~450)×(150~500)mm

Battery & Power

**Battery Type:** Lithium-ion, DC50.4V, 42Ah

**Cycle Life:** >2000 cycles

**Maximum charging current:** 50 A



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Front and rear laser sensors
Payload Capacity	40 kg	Emergency Features	3 emergency stop buttons
Lift Time	10s	Floor Requirements:	Flatness: Height difference ≤3 mm within 2m <sup>2</sup> Ditch Width: ≤5mm
Position Accuracy	Stop Accuracy : < 10 mm	Operating Conditions	Temperature:-10℃ ~45℃ Humidity:10%~95%, non-condensing
BaseTravel Speed	No-load 1.8 m/s, full-load 1.2 m/s		

RS-Series Robots

RS11-DX

Product Dimensions

**Body Size:**1800×1000×6200mm  
**Weight:** 960 kg  
**Maximum Lifting Height:** 10765 mm  
**Shelf Compatibility:**(400~650)×(400~450)×(280~500)mm

Battery & Power

**Battery Type:** Lithium-ion, DC50.4V, 42Ah  
**Cycle Life:** >2000 cycles  
**Maximum charging current:** 50 A



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Front and rear laser sensors
Payload Capacity	40 kg	Emergency Features	3 emergency stop buttons
Lift Time	10s	Floor Requirements:	Flatness: Height difference ≤3 mm within 2m² Ditch Width: ≤5mm
Position Accuracy	Stop Accuracy : < 10 mm	Operating Conditions	Temperature:-10℃ ~45℃ Humidity:10%~95%, non-condensing
BaseTravel Speed	No-load 1.8 m/s, full-load 1.2 m/s		

# P-Series Robots P40R

## Product Dimensions

**Body Size:**650×450×383 mm  
**Weight:** 60 kg  
**Rotation Diameter:** 660 mm  
**Maximum Lift Load:** 40 kg  
**Maximum Lift Height:** 440 mm  
**Shelf Dimensions:**  
**Standard Container Size:** 600×400mm tote  
**Size Range for Maximum Load:** 400×300 to 600×400mm tote  
**Minimum Shelf Inside Diameter:** 560mm  
**Shelf Bottom Height:** ≥425mm

## Battery & Power

**Battery Type:** Lithium-ion, DC51.8V, 12Ah  
**Cycle Life:** >3 years, 85% capacity remaining  
**Charging Time:**10 minutes charge for 1-1.5 hours of work  
**Charge-Discharge Ratio:** 1:6, with one standby charging station



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Inertia + QR code visual navigation	Obstacle Detection	Lidar obstacle detection
Payload Capacity	40 kg	Collision Prevention	Personnel induction detection
Lift Time	4 s to raise the lowest point by 440 mm and 4 s to lower it	Emergency Features	1 emergency stop button(front and rear)
	1.5 s to raise the lowest point by 100 mm and 1.5 s to lower it	Operating Conditions	Temperature: -10~45°C Humidity: ≥5°C: 10~95%, non-condensing; <5°C: 10~40%, non-condensing
Position Accuracy	Stop Accuracy : ≤± 10 mm, ± 1° (geometric center of vehicle body)	Floor Requirements: Flatness: ≤3mm within 1m² Clean and free from dust, debris, oil, or liquids	
BaseTravel Speed	No load 3.5 m/s, full load 3.5 m/s		