

Hardware Product

LMR



Latent Mobile Robot

LMR is a leading mobile robot product characterized by its lifting mechanism. LMR has an optimized motion performance and enhanced safety protection.



More Info

FMR



Forklift Mobile Robot

FMR focuses on the automatic transfer of standard bins/pallets. It adopts high precision laser SLAM navigation, vision navigation, etc.



More Info

CMR



Conveyor/Heavy-duty Mobile Robot

CMR/HMR covers the conveyor type and lifting type. It can fulfill automatic docking requirements in different scenarios with the highly customized mechanism.



More Info

Accessory



Accessory

It includes charge station and battery swap station, providing fast charging without manual intervention.



More Info

CTU



Carton Transfer Unit

CTU can transport or store single/multiple bins. Precise inbound and outbound with high-density storage, providing efficient picking.



More Info






Specification

Latent Mobile Robot (LMR)



									
		Q2L-300-A		Q3-600-C		Q7-1000-D		Q7-1500-D	
		● Available ○ Optional -Unavailable							
General	Navigation	2D code	SLAM	2D code	SLAM	2D code	SLAM	2D code	SLAM
	Dimension L*W*H (mm)	750*540*300		940*650*253		1180*860*260		1180*860*265	
	Rotation diameter (mm)	780		996		1265		1265	
	Lifting height (mm)	70		60		60		60	
	Ground clearance(mm)	30		25		25		25	
	Lifting pad size (mm)	728*540		850*650		980*800		980*800	
	Lifting motor	Electric		Electric		Electric		Electric	
	Weight (kg)	128	127	135		225		227	280
	Rated load (kg)	300		600		1000		1500	
	Screen	●		●		●		●	
Safety Protection	Front protection	Laser		Laser		Laser		Laser	
	Side protection	-		○		○		○	
	Rear protection	Ultrasonic		○		○		○	
	Sound alarm	●		●		●		●	
	Bumper strip	Front/Rear		Front/Rear		Front/Rear		Front/Rear	
	Scram button	Front/Rear		Front/Rear		Front/Rear		Front/Rear	
Motion Performance	Operating speed(empty load) (mm/s)	1500	2000	2000		1800		1800	
	Operating acceleration(empty load) (mm/s ²)	1000	500	1000		800		600	
	*Position accuracy (mm)(°)	±5/±0.5	±10/±1	±5/±0.5	±10/±1	±5/±0.5	±10/±1	±5/±0.5	±10/±1
Battery Performance	*Endurance (h)	8		8		8		8	
	Charging time (h)	≤1.5		≤1.5		≤2		≤2	

* The positioning accuracy test under ideal conditions, the actual result is affected by environment
 * Endurance time tested under rated condition







Conveyer Mobile Robot (CMR)

						
		C3S-600C	C3-300L	C3-400B4	C3-200B2	C3-200B2
● Available ○ Optional -Unavailable						
General	Model	C3S-600C	C3-300L	C3-400B4	C3-200B2	C3-200B2
	Dimension L*W*H (mm)	940*650*300	1253*755*268	1250*745*1175	1250*745*935	1250*743*1028
	Rotation diameter (mm)	Chassis	Chassis	Rollers	Rollers	Rollers
	Transfer method	Chain (one layer)	Roller (one layer)	Rollers (two bins one layer)	Rollers (two bins two layer)	Rollers (four bins two layer)
	Ground clearance(mm)	25	23	25	25	25
	Weight (kg)	135	180	410	350	315
	Rated load (kg)	600	300	4*100	2*100	2*100
	Navigation	SLAM/2D code	SLAM/2D code	SLAM/2D code	SLAM/2D code	SLAM/2D code
Display	7 segment Led	7 segment Led	7 in LCD screen	7 in LCD screen	7 in LCD screen	
Actuator	Transfer speed(mm/s)	-	-	200	200	300
	Transfer height	-	-	350/950	350	541/1117
Safety Protection	Front protection	Laser	Laser	Laser, ultrasoud	Laser, ultrasoud	Laser
	Rear protection	-	Infrared	Ultrasound, TOF	Ultrasound, TOF	Ultrasound, infrared
	Side protection	-	Ultrasound	-	-	Ultrasound
	Bumper strip	Front, rear	Front, rear	Front, rear	Front, rear	Front, rear
	Scram button	Front, rear	Front, rear	Front, rear	Front, rear	Front, rear
	Sound alarm	●	●	●	●	●
Motion Performance	Rated Operating speed(empty load) (mm/s)	1200	1200	1200	1200	1000
	Rated accelerated speed(empty load) (mm/s ²)	500	600	500	500	500
	Position accuracy (mm) (°)	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1
	Docking accuracy(mm)	-	-	±10	±10	±10
	Driving direction	Forward,backward	Forward,backward	Forward,backward	Forward,backward	Forward,backward
	Other capability	Rotate 360°in place	Rotate 360°in place	Rotate 360°in place	Rotate 360°in place	Rotate 360°in place
Battery Performance	Endurance (h)	8	8	8	8	7-8
	Charging time (h)	1.5 (after deep discharge)	1.5 (after deep discharge)	1.5 (after deep discharge)	1.5 (after deep discharge)	1.5 - 2(after deep discharge)

Heavy-Duty Mobile Robot (HMR)

				
		H8C-2000	H9P-3000	
● Available ○ Optional -Unavailable				
General	Model	H8C-2000	H9P-3000	
	Dimension L*W*H (mm)	1900*1200*370	2000*1400*480	
	Rotation diameter (mm)	2167	2358	
	Lifting height (mm)	100	100	
	Ground clearance (mm)	40	40	
	Lifting pad size (mm)	1600*900	1800*1200	
	Lifting method	Hydraulic		
	Weight (kg)	800	900	
	Rated load (kg)	2000	3000	
	Navigation	SLAM/2D code		
	Screen	●	●	
	Safety Protection	Obstacle protection	360° Laser obstacle avoidance	
		Sound alarm	●	●
		Bumper strip	360°	360°
Scram button		Front, rear, left, right		
Motion Performance	Rated Operating speed(empty load) (mm/s)	1200	1200	
	Rated accelerated speed(empty load) (mm/s ²)	500	500	
	Position accuracy (mm) (°)	±10/±1	±10/±1	
	Driving direction	Omnidirectional		
	Rotation capability	Rotate 360°in place		
Battery Performance	Endurance (h)	8	8	
	Charging time (h)	2 (after deep discharge)	3 (after deep discharge)	

Forklift Mobile Robot (FMR)

								
Model		F1-1000U-A	F1-1000U-C	F1-300T-A	F4-1000-C	F3-1500-A	F4-1500-A	
General	Dimension L*W*H (mm)	1640*990*1990	1639*990*1990	1093*745*1258	1640*990*1990	1632*870*1943	1892*940*2143	
	Weight (kg)	900	845	280	715	497	871	
	Rated load (kg)	600	1000	300	1000	1500	1500	
	Load center (mm)	600	600	381.5	600	600	600	
	Fork lifting height (mm)	1344±3 / 2044±3	1950±3	338	1331±3 / 2031±3 (customize to 3000mm)	200	3000	
	Maximum mast height (mm)	1990/2681	2684	—	1990/2682	—	3428	
	Fork dimension (s/e/l)(mm)	60/206/1220	60/255/1220	47/270/744	60/180/1220	60/170/1234	65/170/1244	
	Fork spread (mm)	551(customizable)	720(customizable)	270	680(customizable)	680(customizable)	600(customizable)	
	Pallet size (mm)	1200*1000	1200*1000	customize	1200*1000	1200*1000	1200*1000	
Motion performance	Rated speed(rated/empty load) (mm/s)	1000/1200	1000/1200	1000/1000	1000/1200	1200/1500	1000/1200	
	Position accuracy (mm)	±5	±5	±5	±10	±10	±10	
	Angular accuracy(°)	±1	±1	±1	±1	±1	±1	
	Driving mode	Omni-directional, forward, backward, sideway, skew, rotation, arc.			Steering wheel driving, forward, backward, rotation, arc.			
	Min. operation aisle(1200*1000 pallet/100mm at each side)(mm)	1988	1988	—	2052	2062	2246	
Battery performance	Endurance (h)	6-8	6-8	8	6-8	6-8	6-8	
	Charging time (after deep discharge)(h)	≤1.5	≤2	≤1.5	≤2	≤2	≤2	
Safety protection	Laser obstacle avoidance	●	●	●	●	●	●	
	Driving recorder	●	●	●	●	●	●	
	Bumper strip	●	●	●	●	●	●	
	Pallet in-position detection	●	●	●	●	●	●	
	Fork infrared sensor	●	●	—	●	●	●	
	Scram button	●	●	●	●	●	●	
	Indication light	●	●	●	●	●	●	
others	Sound alarm	●	●	●	●	●	●	
	Display screen	10.1	10.1	4.3	10.1	10.1	10.1	
	Navigation mode	Laser Slam	Laser Slam	Laser Slam	Laser Slam	Laser Slam	Laser Slam	
	Pallet recognition	○	○	—	○	○	○	
	Visual barcode reading	○	○	○	○	○	○	
	RFID reader	○	○	○	○	○	○	
Fork size customization	○	○	○	○	○	○		
Mast customization	○	○	○	○	—	○		

● Available ○ Optional -Unavailable

Carton Transfer Unit (CTU)

								
		FO-50SC	FO-50DC	FO-50DCH	FO-50DCH(D)	FO-50DCH(T)	FO-50DCH(A)	FO-50DCW
● Available ○ Optional -Unavailable								
General	Model	FO-50SC	FO-50DC	FO-50DCH	FO-50DCH(D)	FO-50DCH(T)	FO-50DCH(A)	FO-50DCW
	Dimension (L*W*H)(mm)	956*680*2000	1730*850*2600	1730*950*4565	1730*950*4565	1730*950*[2950-4888]	1730*950*4565	2015*1120*4740
	Weight(include battery)(kg)	430	620	730	735	850	737	780
	Rated load (kg)	50	250	250	250	250	250	250
	Max. actuator load (kg)	50	50	50	50	50	50	50
	Lifting height (mm)	350-1450	270-2085 (customizable up to 4000)	270-4000 (customizable up to 6000)	270-4000	270-4525	300-4000 (customizable up to 6000)	270-4170
	Standard tote dimension (mm)	{300-600}*{350-400}* {140-340}	{450-620}*{350-400}* {120-300}	{450-620}*{350-400}* {120-350}	{300-600}*{350-400}* {120-350}	{300-620}*{350-400}* {120-300}	{450-620}*{200-450}* {150-350}	{630-800}*{550-600}* {120-420}
	Customize tote size(mm)	{300-600}*{200-400}* {140-340}	{300-620}*{200-400}* {120-500}	{300-650}*{200-470}* {120-500}	-	{300-620}*{200-450}* {120-500}	{300-620}*{200-450}* {120-500}	{300-800}*{200-600}* {120-500}
	Drivig Mode	Dual-wheel differential drive	Dual-wheel differential drive	Dual-wheel differential drive	Dual-wheel differential drive	Dual-wheel differential drive	Dual-wheel differential drive	Dual-wheel differential drive
	Screen	●	●	●	●	●	●	●
	Navigation	2D code	2D code	2D code	2D code	2D code	2D code	2D code
	Telescopic lift	-	○	○	○	●	○	○
Double deep	○	-	○	●	○	-	-	
Motion Performance	Rated speed (m/s)	1.5/1.5 (Empty /Full load)	1.8/1.5 (Empty /Full load)	1.8/1.5 (Empty /Full load)	1.8/1.5 (Empty /Full load)	1.8/1.5 (Empty /Full load)	1.8/1.5 (Empty /Full load)	1.8/1.5 (Empty /Full load)
	Positioning accuracy(mm)/[°]	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1
	Actuator lifting speed (Empty /Full load)(mm/s)	440/440	500/500	500/500	500/500	500/500	500/500	500/500
	Actuator lifting accuracy(mm)	±2	±2	±2	±2	±2	±2	±2
	Aisle Width (mm)	900	1000	1100	1100	1100	1100	1270
Battery Performance	Endurance (h)	6-8	8-10	8-10	8-10	8-10	8-10	8-10
	Charging time (h)	≤ 2 (after deep discharge)	≤ 2 (after deep discharge)	≤ 2 (after deep discharge)	≤ 2 (after deep discharge)	≤ 2 (after deep discharge)	≤ 2 (after deep discharge)	≤ 2 (after deep discharge)
Safety Protection	Laser obstacle avoidance	●	●	●	●	●	●	●
	Rear protection	●	●	●	●	●	●	●
	Side protection	●	●	●	●	●	●	●
	Bumper strip	●	●	●	●	●	●	●
	Scram button	●	●	●	●	●	●	●
	Sound alarm	●	●	●	●	●	●	●