



Uqi

WALI 瓦力

UPLIFTING MOBILE ROBOT
U600/U1000/U1500



UPILOT MOBILE ROBOT
OPERATING SYSTEM

OMNI-D-HEAVY-DUTY MOBILE ROBOT
H-3000S/H-3000S HIGHLIFT
H-3000L



FORKLIFT MOBILE ROBOT
F-1200S/F1200L/F3000



TOWING MOBILE ROBOT
T-1000/T3000



OUTDOOR TOWING MOBILE ROBOT
T-8000



WALI STACKER CRANE MOBILE ROBOT
C-50L/C-1200S/C-1200L/C-3000



CHITU 赤兔

AUTONOMOUS LOGISTICS VEHICLE



Product Name	Wali Uplifting Mobile Robot				Wali Towing Moblie Robot		
Model	U50	U600	U1000	U1500	T1000	T3000	T8000
Appearance							
Dimension L*W*H (mm)	630*450*470	802*562*470	980*680*245	1170*855*258	1585*489*285	1180*870*1629	2520*1450*1983
Rate Load (Kg)	50	600	1000	1500	1000	3000	8000
Navigation Methods	Laser SLAM/QR Code/Ground Texture	Laser SLAM/QR Code/Ground Texture	Laser SLAM/QR Code/Ground Texture	Laser SLAM/QR Code/Ground Texture	Laser SLAM/Magnetic Navigation	Multi-line SLAM	Multi-line SLAM/GNSS Fusion Positioning
Obstacle Avoidance Methods	LiDAR/RGBD Camera (optional)	LiDAR/RGBD Camera (optional)	LiDAR/RGBD Camera (optional)	LiDAR/RGBD Camera (optional)	LiDAR	LiDAR	LiDAR/Obstacle Avoidance Camera
Positioning Accuracy (mm)	±5	±10	±10	±10	±10	±10	±20
Maximum Operating Speed (no-load)	5	2	2	2	1.5	1	3.9
Minimum Ground Clearance (full load) (mm)	-	-	-	-	-	-	100
Climbing Abillity (full load) (°)	3	3	3	3	3	3	14
Lifting Height (mm)	400	60	60	60	43-47 (towing height)	170-350 (towing height)	240-470 (towing height)
Lifting Speed (no load) (mm/s)	100	12	12	12	-	-	-
Lane Width (straight- ahead) (mm)	550	870	1000	1155	600	900	2000
Runtime (h)	≥8	≥8	≥8	≥8	≥8	≥8	≥6
Charging Time (h)	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤2
Communication Method	WIFI/5G/ Bluetooth	WIFI/5G/ Bluetooth	WIFI/5G/ Bluetooth	WIFI/5G/ Bluetooth	WIFI/5G/ Bluetooth	WIFI/5G/ Bluetooth	WIFI/4G
Operation Mode	Forward/Back ward/Turn/Spin	Forward/Back ward/Turn/Spin	Forward/Back ward/Turn/Spin	Forward/Back ward/Turn/Spin	Forward/Turn	Forward/Back ward/Turn/Spin	Forward/Back ward/Turn/Spin
Driving Mode	Drive Wheel*2	Drive Wheel*2	Drive Wheel*2	Drive Wheel*2	Drive Wheel*2	Steering Wheel	Drive Axle(8kw)+ Steering Wheel(2kw)

Product Name	Wali Forklift Mobile Robot			Wali Omni-D Heavy-duty Moblie Robot		
Model	F1200S	F1200L	F3000	H-3000S (standard)	H-3000S (Very High Lift)	H3000L
Appearance						
Dimension L*W*H (mm)	1660*900*1174	1682*960*2117	3382*1300*2180	1700*1000*300	1700*1000*650	3600*1400*255
Rate Load (Kg)	1500	1500	3000/3500	3000	3000	3000/4500
Navigation Methods	Multi-line SLAM	Multi-line SLAM	Multi-line SLAM	LiDAR/Obstacle Avoidance Camera	LiDAR/Obstacle Avoidance Camera	LiDAR/Obstacle Avoidance Camera
Obstacle Avoidance Methods	±10	±10	±20	±5	±5	±5
Positioning Accuracy (mm)	1.4	1.4	2	1.2	1.2	1.2
Maximum Operating Speed (no-load)	20	20	70	25	25	25
Minimum Ground Clearance (full load) (mm)	2.5	2.5	3.4	3	3	3
Climbing Ability (full load) (°)	180	2300	1450 (1 st -level mast)	120	120	600
Lifting Height (mm)	33	120	250	26	26	80
Lifting Speed (no load) (mm/s)	1.3	1.2	2	-	-	-
Lane Width (straight-ahead) (mm)	1030	1060	2000	1100	1100	1500
Runtime (h)	≥6	≥6	≥6	≥8	≥8	≥8
Charging Time (h)	≤1.5	≤1.5	≤2	≤2	≤2	≤2
Communication Method	WIFI / 4G	WIFI / 4G	WIFI / 4G	WIFI / 5G / Bluetooth	WIFI / 5G / Bluetooth	WIFI / 5G / Bluetooth
Operation Mode	Forward / Backward / Turn	Forward / Backward / Turn	Forward / Backward / Turn	Forward /Backward /Translation/Spin	Forward /Backward /Translation/Spin	Forward /Backward /Translation/Spin
Driving Mode	Steering Wheel	Steering Wheel	Drive Wheel (5kw2) + Steering Wheel (2kw)	Differential wheel*2	Differential wheel*2	Differential wheel*2

Product Name	Wali Stacker Crane Mobile Robot				Autonomous Logistics Vehicle Chitu	
Model	C50L	C1200S	C1200L	C3000	Model	Van-type
Appearance					Appearance	
Column configuration	Double Column	Single Column	Double Column	Double Column	Dimension L*W*H (mm)	3500*1600*1860
Rate Load (Kg)	50 (double deep shelf)	1200 (Single/double deep shelf)	1200 (Single/double deep shelf)	3000 (single deep shelf)	Rate Load (Kg)	3000
Lifting Positioning Method	Encoder + QR code	Laser Ranging+ Encoder	Laser Ranging+ Encoder	Laser Ranging+ Encoder	Navigation Methods	Multi-line SLAM
Obstacle Avoidance Methods	LiDAR/Obstacle Avoidance Camera	LiDAR/Obstacle Avoidance Camera	LiDAR/Obstacle Avoidance Camera	LiDAR/Obstacle Avoidance Camera	Obstacle Avoidance Methods	Laser/Millimeter-wave/Ultrasonic Radar/Camera
Travel Positioning Accuracy (mm)	±2.5	±3	±3	±3	Positioning Accuracy (mm)	±100
Max travel Speed (no-load) (m/min)	240	180 (12m column) 160 (4m column)	180 (12m column) 160 (4m column)	160	Maximum Operating Speed (no-load)	25
Travel Acceleration (m/S ²)	1.5	0.5	0.5	0.5	Minimum Ground Clearance (full load) (mm)	125
Lifting Position Accuracy (mm)	±1	±3	±3	±3	Climbing Ability (full load) (°)	14
Lifting Height (mm)	12	24	24	24	Internal Cargo Dimensions L*W*H (mm)	-
Max lifting Speed (no-load)(m/min)	180	50	50	40	Door Opening Method	-
Lifting Acceleration (m/S ²)	1.5	0.5	0.5	0.5	Turning Radius (no load) (m)	5
Lane Width (straight-ahead) (mm)	880	1700	1700	2100	Driving Mileage (km)	120
Pick Speed (no load) (m/min)	24	40	40	40	Runtime (h)	8
Power Supply Mode	Trolley Conductor (3P)	Trolley Conductor (5P)	Trolley Conductor (5P)	Trolley Conductor (5P)	Charging Time (h)	3
Communication Method	WIFI/4G /Bluetooth	WIFI (optional)/ 4G(optional)	WIFI (optional)/ 4G(optional)	WIFI (optional)/ 4G(optional)	Communication Method	WIFI/5G
Bus Protocol	Can	Profinet	Profinet	Profinet	Operation Mode	Forward/Backward/ Turn
Driving Method	Servo Motor	Inverter Motor	Inverter Motor	Inverter Motor	Driving Mode	Rear Drive Wheel (4kw/8kw)



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