MR-F5-1600-A1(M)

Reach Forklift Series



Key features

- Self-developed reach forklift, supports lifting height around 3 meters, handling goods in fork type
- Adopts laser slam navigation to achieve accurate positioning
- Flexible motion control, patented driver design, the maximum running speed can reach 1.5m/s
- Intelligent/independent power management, low-power autonomous charging, maintenance-free lithium battery, safe and pollution-free
- Multi-safety protection: laser and infrared obstacle avoidance, loading detection, scram button, fork sensor, and sound alarm
- Standard pallet carrying, which can support lifting, carrying, unloading, etc. of goods rated at not less than 1600kg
- Adopts carrying includes open pallet and closed pallet type
- Wireless communication, which supports WIFI network communication and seamless roaming to achieve barrier-free operation in the network coverage area

Typical Application

3PL, e-Commerce, electronics, manufacturing, textile, tobacco, medicine and etc.

Product Model

MR-F5-1600-A1(H)

Specification

Model			MR-F5-1600-A1(M)
General Parameter	Dimensions L x W x H (mm)	l1*b1*h1	2288*1200*2219 mm
	Weight (kg)		2310 kg
	Rated load (kg)	Q	1600 kg
	Load center distance	C	600 mm
	Distance between wheels	y	1205 mm
	Lift height	h3+h13	3000 mm
	Max .gantry lifting height	h4	/
	Fork-ground distance	h13	54.5 mm
	Fork dimension (thickness/width/length)	s/e/l	40/125/1237 mm
	Fork outer width	b5	650 mm
	Min. ground clearance	m2	43 mm
	Applicable pallet dimension		1200*1200 mm
	Navigation laser scanning height	h15	2175 mm
	Min. turning radius	Wa	1511 mm
	Min. right angle aisle width(1000*1200mm pallet, fork along with 1200)	Ast	2705 mm

Motion Performance	**Speed (rated load/empty load)**	1.2/1.5 m/s
	Positioning accuracy	±10 mm
	Angel accuracy	±1°
	Repeated positioning accuracy	±10 mm
	Max. climbing gradient (rated load/empty load)	5%/8%
	Fork lifting speed (rated load/empty load)	120/150 mm/s
	Fork descending speed (rated load/empty load)	140/140 mm/s
	Mode of motion	Steering wheel driving, supports go forward/backward and arc turning, spin in place
Lithium Battery	**Rated voltage**	48 V
	Capacity	125 Ah
	Charge cycle	1500 times (deep charge & discharge)
	Operating time at rated condition	8 h
	Charging time	≤3 h
	Charging mode	Charging on the side of robot
Safety Protection	**Laser obstacle avoidance**	Two sides 360° laser coverage
	Drive recorder	Optional
	Bumper strip detection	Robot body half-enclosed bumper strip
	Pallet in-position detection	Contact detection
	Fork detection	Contact and Contactless detection
	Scram button	Left/Right scram button
	Sound-light alarm	Standard equipped
Others	**Driving mode**	Front-wheel driving and turning
	Screen	Equipped
	Navigate mode	Laser slam (reflector) or 3D laser
	Manual operation (manual operator)	Manual operator (Option), Mobile terminal APP
	Working noise	＜75dB

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