

Mobile robots

ReBeL[®] Pallet Mover



More power, more purpose, an autonomous forklift

The ReBeL[®] Pallet Mover is a powerful, compact AMR (Autonomous Mobile Robot) specially designed for precise pallet handling and the efficient automation of logistics and warehouse processes.

Its slim design and sophisticated navigation software enable safe and efficient movement, even in confined spaces. It combines advanced sensor technology with smooth lifting functions – optimised for modern intralogistics and production environments.

Product range

Technical Data	Unit	Pallet Mover 300	Pallet Mover 1400	Pallet Mover 1500
Lifting height (standard)	mm	70±5 (default) - 90±5	1,600 - 3,000	205
Dimensions fork lift	mm	1,722 x 951 x 2,064	1,722 x 951 x 2,234	1,685 x 980 x 1,906
Dimensions fork outer	mm	–	555 x 570 x 680	550 x 600 x 680
Dimensions fork	mm	1,094 x 500 x 1,743	1,220 x 180 x 70	1,220 x 170+7 x 75 (7 mm wiring panel)
Weight (with battery)	kg	230	740	403
Speed	m/s / km/h	1.4 / 5.0	1.5 / 5.4	1.4 / 5.2
Payload	kg	300	1,400	1,500
Navigation position accuracy	cm	±1	±1	±1
Navigation angle accuracy	cm	±0.5	±0.5	±1
IP protection class		IP 20	IP 20	IP 20
Incline	%	3	5	5
Operation type		Automatic Navigation	Automatic, Manual	Automatic, Manual
Pallet type		Tote Dolly / Shelf	Open	Open



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Charging time (approx.)	h	1	2	1.5
Operating time (approx.)	h	6	10	10
Charging voltage	V	48	48	48
Max. power consumption	kW	3	4.32	2.21
Battery capacity	Wh	1,104	4,320	2,208
Humidity	%	10-90	10-90	10-90
Temperature	°C	0-50	0-50	0-50

Variants	Lidar number
Pallet Mover 300	1 (P+F R2000)+2 (SICK / nanoScan3 Hv)
Pallet Mover 1400	1 (SICK nanoScan3 Core / P+FOMD30M-R2000-B23-V1V1DHD-1L) 3 (2 [SICK nanoScan3 Core] + 1 [OLEI-LR-1BS2H])
Pallet Mover 1500	1 (SICK nanoScan3 Core / P+FOMD30M-R2000-B23-V1V1DHD-1L)



Pallet Mover 300



Pallet Mover 1400



Pallet Mover 1500

Applications

An autonomous forklift designed for fast and efficient pallet transport and stacking in dynamic warehouse environments. With advanced navigation and obstacle avoidance technology, it seamlessly maneuvers through tight spaces while handling vertical lifting tasks, making it ideal for streamlining workflows

in manufacturing, logistics, and distribution centers. Its proven reliability and adaptability ensure increased productivity across a range of industries. The optional Fleet Manager allows even large groups of ReBeL® Pallet Mover to carry out your transport tasks efficiently and without workflow interruptions.