

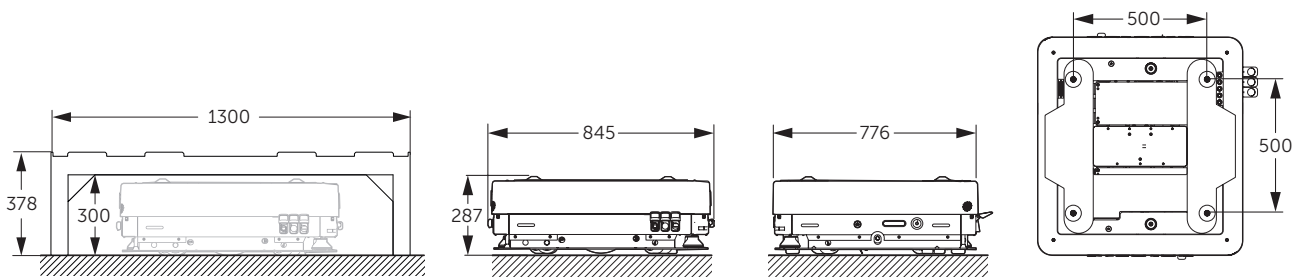


Autonomous Mobile Robot (AMR) **arculee S.**

Autonomous robots are characterised by their ability to navigate freely within a defined area and to pick up a load carrier while taking its position and orientation into account. The latest addition to Jungheinrich's portfolio can accomplish exactly that: it goes by the name of arculee and is guaranteed to increase the vitality of your warehouse! It really shows its strengths in underload transport. It transports entire pallets or just small parts from A to B quickly and flexibly.

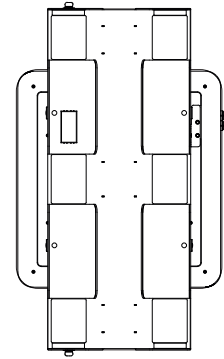
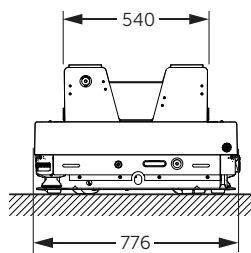
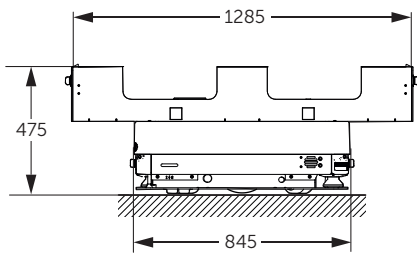
The arculee is not only impressive in terms of hardware. A standardised VDA-5050 interface allows it to be seamlessly integrated into your logistics processes. In addition, the arculus FLEET fleet management system can be used to control the AGVs and AMRs of different manufacturing companies, so that all actors are orchestrated in one solution. Communication with your host system is via the award-winning Jungheinrich Logistics Interface. arculee should therefore be an integral part of any expandable and scalable warehouse strategy right from the outset.

AMR arculee S (table transport).



		arculee S (table transport)	
Technical specification	Service weight (incl. battery)	250 kg	
	Capacity of which payload	1,000 kg (incl. table) 880 kg	
	Max. overall weight (service weight + capacity)	1,250 kg	
	Dimensions (L x W x H)	845 x 776 x 287 mm	
	Max. lift	90 mm	
	Operation	Autonomous	
	Travel direction	Bidirectional	
	Ground clearance	15 mm	
	Max. incline/ramp	< 1%	
Sound pressure level L_{pAZ}	< 70 db(A)		
Technical requirements for load carriers and loads	Table dimensions (L x W x H)	1,300 x 1,100 x 378 mm	
	Underload height x width	300 x 980 mm	
	Max. loading heights (on the table) for load weight	880 kg: 1,400 mm	300 kg: 2,400 mm
Performance data	Travel speed	1.6 m/s (loaded)	2.5 m/s (unloaded)
	Lift time (for maximum lift 90 mm)	7 s	
	Cornering ability	Available	
	Point rotation ability in narrow space situations	Available	
Navigation/positioning accuracy	Navigation modes	Marker-based (QR)	Contour-based
	Positioning accuracy	+/-1 mm (target approach) +/-10 mm (distance travelled)	+/-50 mm (target approach) +/-100 mm (distance travelled)
Ambient conditions	Protection rating	IP 20	
	Temperature	+5 °C to +40 °C room temperature	
	Humidity	Max. 80 % (non-condensing)	
	Floor quality	Industrial floor, flatness deviation according to DIN 18202:2019-07 Table 3 – row 3	
	Permissible step height/width	+/-5 mm (depending on speed)	
Energy system	Battery voltage/nominal capacity	48 V/40 Ah	
	Cell type	Lithium-ion	
	Charger type	Floor contact	
Safety	Safety equipment	Safety laser scanner (360°), 2x emergency stop buttons, signal lights, blue spots	
Communication	Communication channels	WLAN iWLAN	
	Communications interface	VDA 5050	

AMR arculee S (pallet transport).



		arculee S (pallet transport)	
Technical specification	Service weight (incl. battery + backpack)	330 kg	
	Capacity	920 kg	
	Max. total weight (service weight + capacity)	1,250 kg	
	Dimensions (L x W x H)	1285 x 776 x 475 mm	
	Max. lift	90 mm	
	Operation	Autonomous	
	Travel direction	Bidirectional	
	Ground clearance	15 mm	
	Max. incline/ramp	< 1%	
	Sound pressure level L_{pAZ}	< 70 db(A)	
Technical requirements for load carriers and loads	Load carrier	Euro pallet 1,200 x 800 mm (EN 13698-1), other project-specific on request	
	Max. load heights (incl. pallet) with load weight	920 kg: 1,200 mm	300 kg: 1,800 mm
	Min. height handover station	~ 400 mm	
Performance data	Travel speed	1.6 m/s (loaded)	2.5 m/s (unloaded)
	Lift time (at maximum lift 90 mm)	7 s	
	Cornering ability	Available	
	Point rotation ability in narrow space situations	Available	
Navigation/positioning accuracy	Navigation modes	Marker-assisted (QR)	Contour-based
	Positioning accuracy	+/-1 mm (target approach) +/-10 mm (distance travelled)	+/-50 mm (target approach) +/-100 mm (distance travelled)
Ambient conditions	Protection rating	IP 20	
	Temperature	+5 °C to +40 °C room temperature	
	Humidity	Max. 80% (non-condensing)	
	Floor quality	Industrial floor, flatness deviation according to DIN 18202:2019-07 Table 3 – row 3	
	Permissible step height/width	+/-5 mm (depending on speed)	
Energy system	Battery voltage/nominal capacity	48 V/40 Ah	
	Cell type	Lithium-ion	
	Charger type	Floor contact	
Safety	Safety equipment	Safety laser scanner (360°), 2x emergency stop buttons, signal lights, blue spots	
Communication	Communication channels	WLAN iWLAN	
	Communications interface	VDA 5050	

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