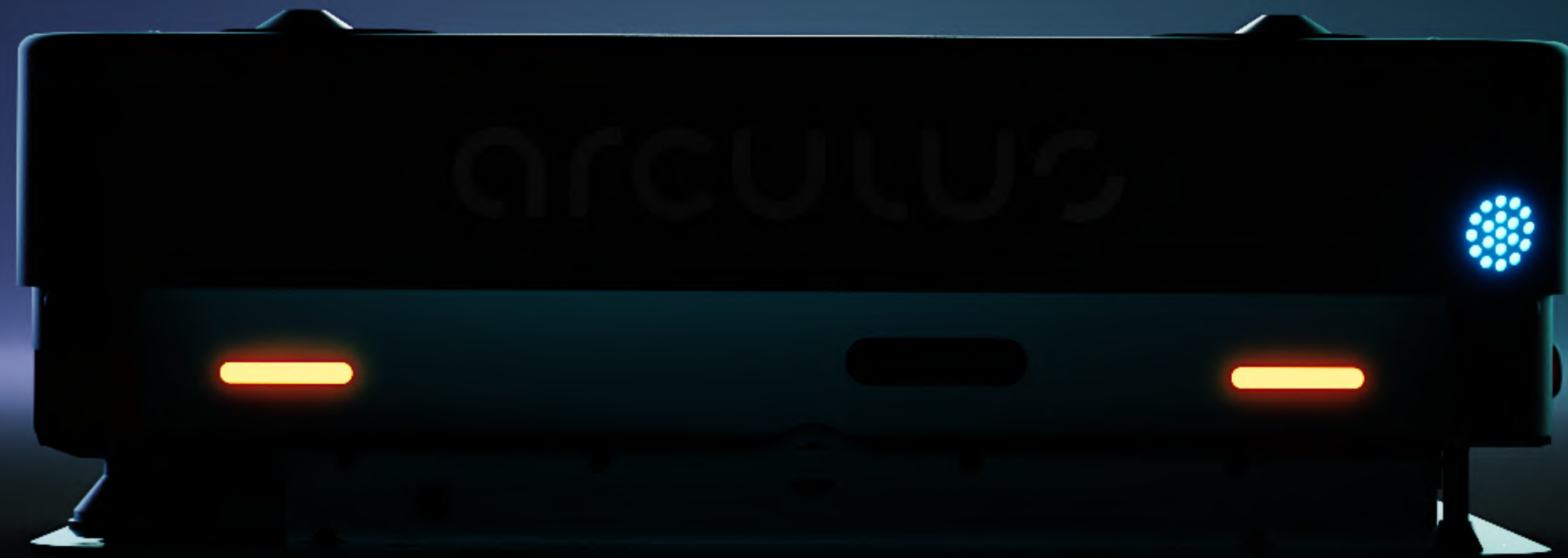


arculee

AUTONOMOUS MOBILE ROBOT



Expect more every day

ARCULUS
MODULAR PRODUCTION

OVERVIEW

arculee AMR

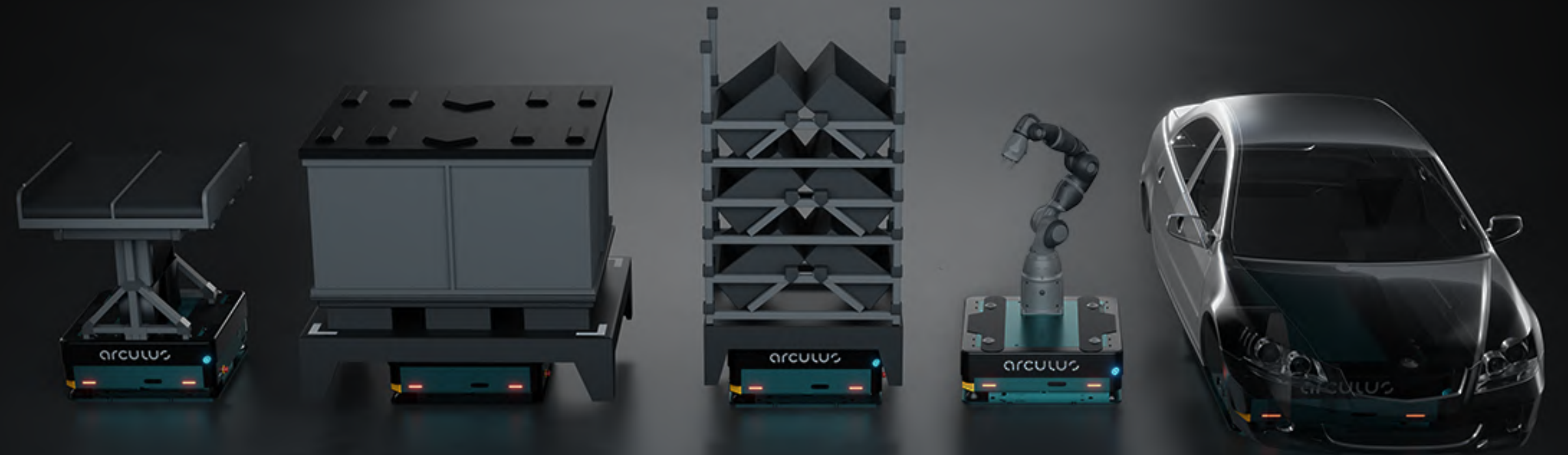
Autonomous mobile robot
combining the capabilities from
self-driving cars and economies
from mass production.
Available in 3 different sizes.



BENEFITS

Built to transport

Autonomous transport of products and materials with one flexible, cost-efficient platform, stress-tested in automotive series production.



BENEFITS

Upgrades included

Free performance and function updates over lifetime, enabled by continuous collection and analysis of fleet data, shipped over-the-air.



BENEFITS

Plug & play

Automation of manual transports has never been more easy and intuitive - from plug & play setup and commissioning to care-free operations.

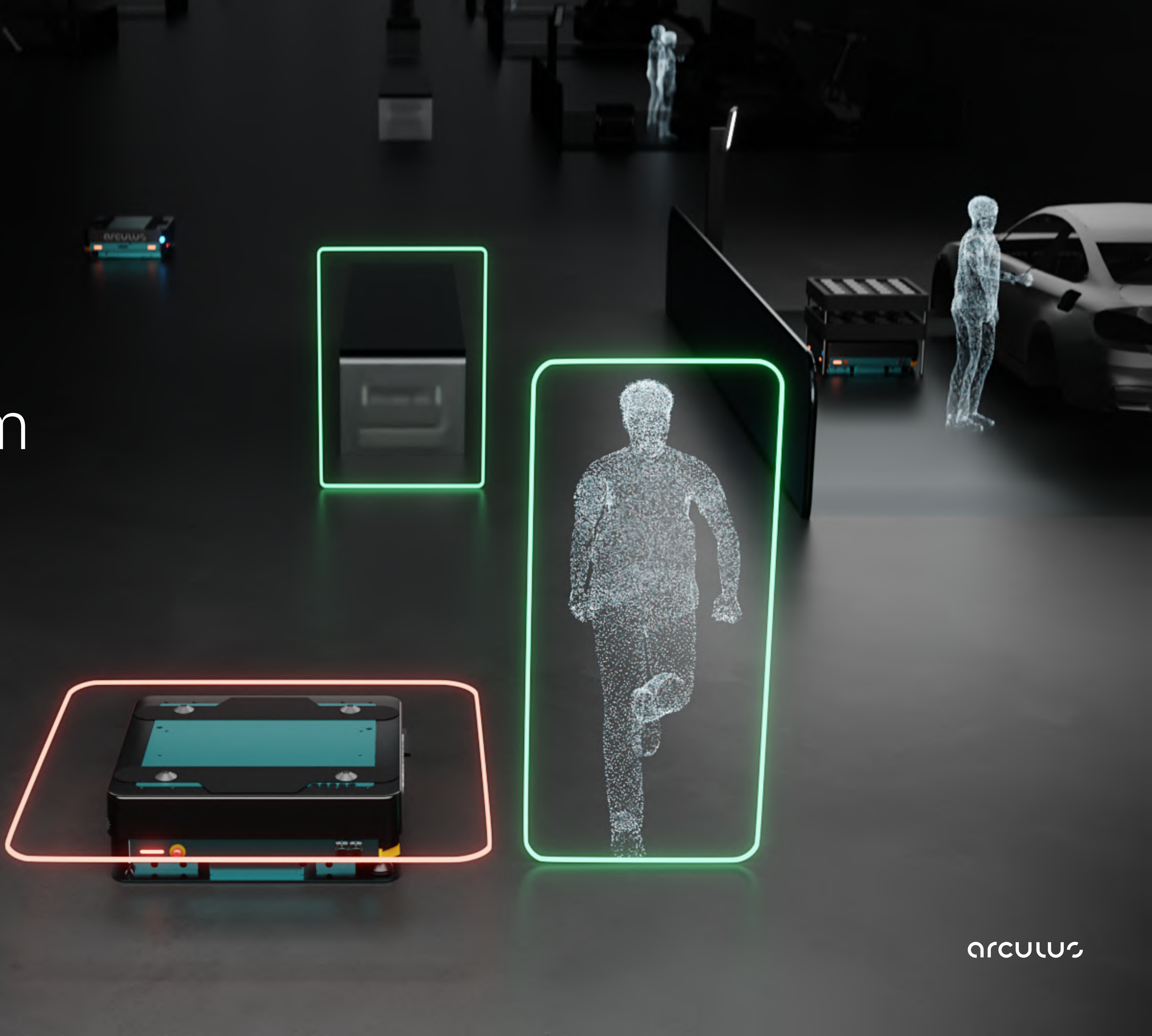


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BENEFITS

Welcome to the team

Made for safe collaboration along with humans and machines, without compromises - no additional infrastructure needed.



Data Sheet

USE CASE	Type
	Dimensions (L/W/H)
PERFORMANCE	Maximum load
	Max. speed (unloaded)
	Max. speed (max. load)
	Maximum lift
SAFETY	Safety components
	Safety certification
ENERGY	Charging type
	Battery
CONNECTIVITY	Communication channels
	Communication interface
	Over-the-air-functionality
OPERATION	Object detection
	Load carrier identification
	Navigation method
	Positioning accuracy
	Direction of motion
	Operator interface
	Extensions
ENVIRONMENTAL	Maximum humidity
	Ambient temperature

arculee XS	arculee S	arculee M
		
Platform	Platform/Lift	Platform/Lift
505 x 540 x 400 mm	800 x 750 x 290 mm	1200 x 750 x 290 mm
250 kg	1,000 kg	1,200 kg
2.3 m/s	2.3 m/s	2.3 m/s
2.3 m/s	1.8 m/s	1.8 m/s
No lift	88 mm (electro mechanical, spindle)	88 mm (electro mechanical, spindle)
2 x emergency stops, signal lights, blue-spots, sound alert, safety laser scanner (360°)		
CE, human-safe		
Contact floor charging (no floor interference)		
Li-ion (~45 min charging, ~8 h driving, intelligent charging)		
WLAN, iWLAN, 5G		
VDA 5050		
Lifelong remote software updates and function upgrades		
RGB / 3D-camera and 360° laser scanners		
Safe identification via inductive sensors		
Marker codes (floor), contour navigation (laser)		
+/- 5 mm (marker), +/- 30 mm (contour navigation)		
Bi-directional, point rotation		
Web-based user interface & remote control		
Backpack-ready (mechanic, electric, signal, safety)		
80%, non condensing		
5 - 40 °C		

For more information
contact arculee@arculus.de

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