

Technical Specifications

Product Name	VersaAI™
Model Name	PORT-AS-99610
Type	AS-99610
Region	Europe & North America
Manufacturer	AutoStore AS
Grid Type Support	DDG, SDG
Dimensions	Robot cell with internal parts: L: 1,800 mm / W: 3,000 mm / H: 2,400 mm Incl. control cabinet and vacuum unit: L: 1,800 mm / W: 3,800 mm / H: 2,400 mm
Weight	Total max. weight: 1,700 kg - Safety cell, robot arm, and accessories: 1,300 kg - RPP port module (each): 100 kg (without Bin content) - Bins with content (each): 35 kg
Floor Requirements	- Max. point loads during operation (robot arm): 2500 N (distributed over 0,020 m²) - Max. point load during emergency stop: 5700 N (distributed over 0,020 m²)
Average Weight Distribution	250 kg/m² (without personnel)
Min. Foundation Material Yield Strength	150 MPa
Floor Flatnees Requirement (Robot Arm)	0.1 / 500 mm
Min. Resonance Frequency	22 Hz
Bin Height Support	220, 330, and 425 mm
Container Subdivisions	Up to 16
Bin Content Weight Accuracy	+/- 100 g
Picking Accuracy	99+%
Max. Picking Throughput (Source to Target)	- At floor level: 400 UPH - At mezzanine level: 650 UPH
Min. Item Picking Cycle Time	5.5 seconds
Max. Bin Throughput Mezzanine Level	3 RPP port module ver. at mezzanine level (1,355 mm from top tracks) 325 Bins/hr. on the two source modules 270 Bins/hr. on the center target module
Min. Bin Exchange Time	< 5 seconds
Item Eligibility	95% coverage across apparel, grocery, general merchandise, industrial, and pharma - Eligible for SKUs where 3+ units fit in one AutoStore Bin - Max. weight: 6 kg
Item Weight & Dimensions	Recommended* * VersaAI can use Weight Learning if the item weight is not provided, and it can transfer without size data. Performance is not specified while Weight Learning takes place.
Acceptable Item Types	- Securely closed bags, boxes, bottles, blister packs, clamshells, envelopes, tubes - Cardboard or other boxes that are taped closed, have interlocking tabs or otherwise, secured lids - Securely grouped multipacks of the above - Grooved and uneven surface items - Porous items
Unacceptable Item Types	- Fragile glass items (e.g., candles, unless reasonably packaged against damage) - Items with exposed wires or hooks - Sharp, dangerous, or hazardous items - Nestable items - Thin unbagged apparel - Aerosols - Loose fastener
Storage Temperature	-25 °C to +55 °C
Operating Temperature	+1 °C to +35 °C
Operating Humidity	40 to 90 % non-condensing
Surface Material	Aluminum and composite material
Port (Frame) Height	1,000 mm (fixed)
Noise Level	73 dB(A)
Power Requirements	Robot arm & vacuum unit: 380-415 VAC, 25 A, 3 PH, 3 P+N+PE, 50/60 Hz 200-240 VAC, 40 A, 3 PH, 3 P+N+PE, 50/60 Hz RPP port module (each): 24 VDC / 5 A each (PSU: 100-240 VAC, 50/60 Hz)
Power Consumption (Watts)	Average Total max. with 3 x RPP port module: 4,5 kW - Robot arm & vacuum unit: 4,3 kW - RPP port module (each): 50 W Peak (<10 seconds) Total max. with 3 x RPP port module: 6,9kW - Robot arm & vacuum unit: 6,6 kW - RPP port module (each): 276 W
Electrical Power Feed	Hardwired
Bandwidth Requirements	20 Mbps symmetric bandwidth in dedicated WAN circuit, up to 5 RPC systems; not real time production requirement
BG VPN Access	IPSEC tunnel with BG equipment (over dedicated WAN circuit)
Server Room Requirements (Only Required for More Than 2 Cells)	- Space for Server Rack: L: 1,070 mm / W: 600 mm / H: 1,991 mm; rack and server(s) provided by BG - Server Power Requirements: 200-240 VAC, 15 A, 1 PH, 50/60 Hz; UPS back up
Physical Network Connections	- Wired connection from server to cell(s), customer provided: Cat 6 A copper acceptable for distances <90 m - Single mode fiber with LC connector required for distances >90 m - Intermediate Distribution Frame (IDF) available - Physical network design depends on site layout; to be reviewed jointly with customer
WMS/WES Connection	- Two (2) 1000 BaseT uplinks to customer network - Two (2) IP addresses on customer network for WMS/WES communications
Host System Integration	API standard; other integrations available
IP Class	IP20