

TUGGER AGV

SPECIFICATIONS



**SOUTHEAST
INTEGRATED
SOLUTIONS**

powered by



Southeast Industrial Equipment powered by AIM

📍 Charlotte, NC

📞 704.737.1890

🌐 sieagvspoweredbyaim.com

HIGHLIGHTS

Tugger AGVs (Automated Guided Vehicles) are specialized, autonomous transport systems designed to move large quantities of materials or goods between designated locations in warehouses, factories, and distribution centers. Unlike traditional AGVs that handle lifting tasks, tugger AGVs are optimized for pulling carts or trailers, making them ideal for continuous, repetitive transport within facilities. These vehicles enhance operational efficiency by reducing the need for manual labor, improving safety, and ensuring consistent material flow. Tugger AGVs streamline workflows, lower operational costs, and can be easily integrated into existing infrastructure to improve overall logistics and productivity.



WEIGHT CAPACITY
Up to 10,000lbs.



BATTERY TYPE
LEAD ACID



NAVIGATION
LASER GUIDANCE



CHARGING TYPE
FAST CHARGE



AGV SPECIFICATIONS

General Specifications

Type: Tugger Automated Guided Vehicle (AGV)

Model Name/Number: eBOTTD1245

Manufacturer: America in Motion

Operation Mode: Autonomous

Navigation Type: Laser-guided

Battery Type: Lead Acid

Battery Capacity: 48V, 380Ah

Charging Type: Fast Charging

Indoor/Outdoor Use: Indoor

Customization: Standard options available

Performance & Load Handling

Maximum Load Capacity (Max for flat surfaces only): Up to 10,000 lbs.

Load Center: 24"

Standard Travel Speed: 1.2 m/s

Standard Gradient Capability: 0 deg

Safety Features

Emergency Stop Button: Yes

Obstacle Detection: Yes

Safety Bumpers: Yes

Anti-collision Sensors: Yes

Interface & Control

User Interface: [Touchscreen / Button panel / Mobile app / Remote control]

Communication Protocol: [Wi-Fi / Bluetooth / Ethernet / 5G]

Software Integration: [Warehouse Management System (WMS), ERP, or other integrations]

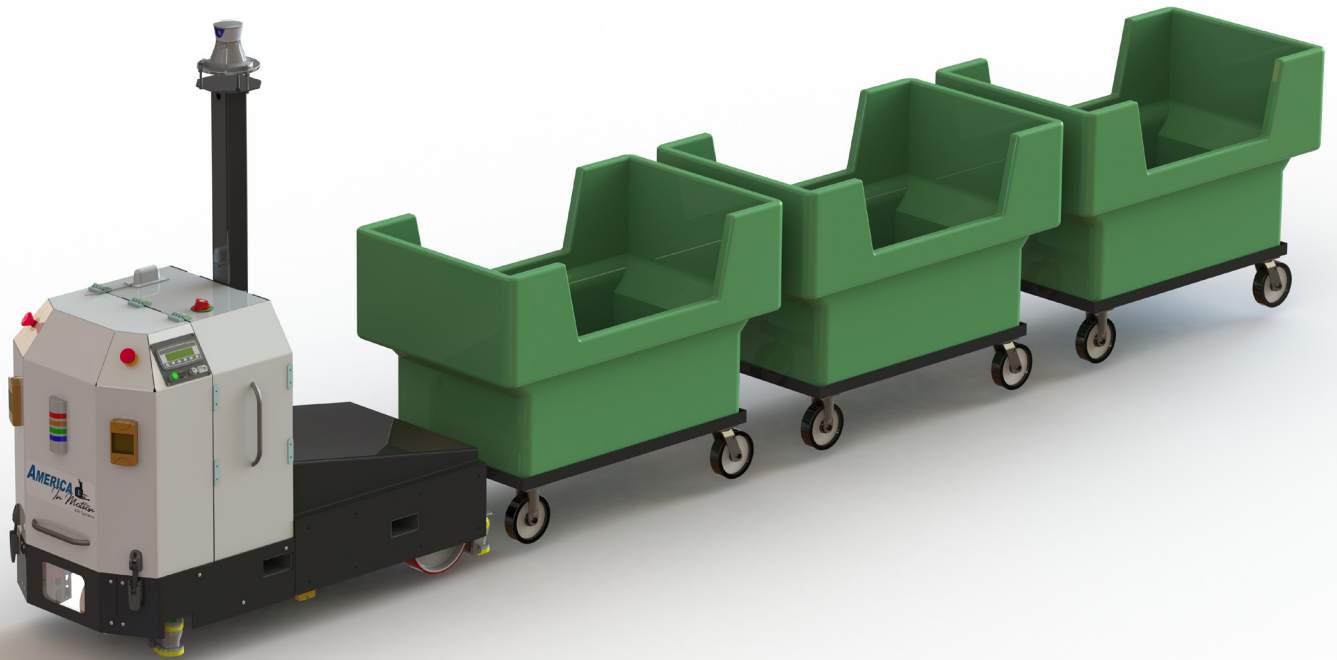
Price & Warranty

Price Range: Contact SIE

Warranty: 1 year

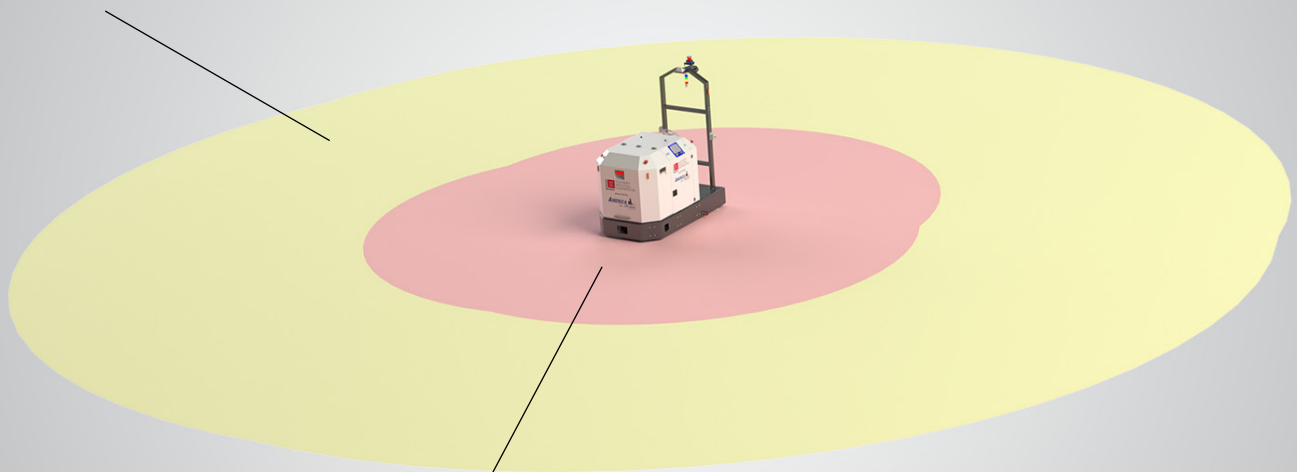


EXAMPLE OF MULTI-CART TOWING



SAFETY FIELD

Warning Field - up to 25 meters @ 40 mm object resolution



Protective Field - up to 4 meters @ 40 mm object resolution

VEHICLE QUANTITY CHART

The chart below helps determine the optimal number of AGVs needed for an operation by looking at round-trip distance and loads moved per hour. By matching these variables in the chart, you can calculate the required fleet size to meet material handling demands efficiently. For example, moving 45 loads per hour, 700 feet round trip would require 6 tugger AGVs.

Round Trip Distance (Meters)	Round Trip Distance (Feet)	Loads/Hr.													
		10	15	20	25	30	35	40	45	50	55	60	65	70	
8	25	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	
15	50	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	
23	75	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.8	
30	100	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.1	
38	125	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.2	2.4	
46	150	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.5	2.7	
53	175	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.8	3.0	
61	200	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4	2.6	2.9	3.1	3.3	
69	225	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.6	2.9	3.1	3.4	3.6	
76	250	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.8	3.1	3.4	3.7	3.9	
84	275	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	
91	300	0.6	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.6	3.9	4.2	4.5	
99	325	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.5	4.8	
107	350	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.3	3.7	4.0	4.4	4.8	5.2	
114	375	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.7	5.1	5.5	
122	400	0.8	1.2	1.6	2.1	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.8	
130	425	0.9	1.3	1.7	2.2	2.6	3.0	3.5	3.9	4.3	4.8	5.2	5.6	6.1	
137	450	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5	5.0	5.5	5.9	6.4	
145	475	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.3	4.8	5.2	5.7	6.2	6.7	
152	500	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	
160	525	1.0	1.6	2.1	2.6	3.1	3.6	4.2	4.7	5.2	5.7	6.2	6.8	7.3	
168	550	1.1	1.6	2.2	2.7	3.3	3.8	4.3	4.9	5.4	6.0	6.5	7.0	7.6	
175	575	1.1	1.7	2.3	2.8	3.4	3.9	4.5	5.1	5.6	6.2	6.8	7.3	7.9	
183	600	1.2	1.8	2.3	2.9	3.5	4.1	4.7	5.3	5.9	6.4	7.0	7.6	8.2	
190	625	1.2	1.8	2.4	3.0	3.6	4.2	4.9	5.5	6.1	6.7	7.3	7.9	8.5	
198	650	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.7	6.3	6.9	7.5	8.2	8.8	
206	675	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5	7.2	7.8	8.5	9.1	
213	700	1.3	2.0	2.7	3.4	4.0	4.7	5.4	6.0	6.7	7.4	8.1	8.7	9.4	
221	725	1.4	2.1	2.8	3.5	4.2	4.9	5.5	6.2	6.9	7.6	8.3	9.0	9.7	
229	750	1.4	2.1	2.9	3.6	4.3	5.0	5.7	6.4	7.2	7.9	8.6	9.3	10.0	
236	775	1.5	2.2	2.9	3.7	4.4	5.2	5.9	6.6	7.4	8.1	8.8	9.6	10.3	
244	800	1.5	2.3	3.0	3.8	4.6	5.3	6.1	6.8	7.6	8.3	9.1	9.9	10.6	
251	825	1.6	2.3	3.1	3.9	4.7	5.5	6.2	7.0	7.8	8.6	9.4	10.1	10.9	
259	850	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	
267	875	1.6	2.5	3.3	4.1	4.9	5.8	6.6	7.4	8.2	9.1	9.9	10.7	11.5	
274	900	1.7	2.5	3.4	4.2	5.1	5.9	6.8	7.6	8.5	9.3	10.1	11.0	11.8	
282	925	1.7	2.6	3.5	4.3	5.2	6.1	6.9	7.8	8.7	9.5	10.4	11.3	12.1	
290	950	1.8	2.7	3.6	4.4	5.3	6.2	7.1	8.0	8.9	9.8	10.7	11.6	12.4	
297	975	1.8	2.7	3.6	4.6	5.5	6.4	7.3	8.2	9.1	10.0	10.9	11.8	12.8	



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