



Eliminate Labor Costs
Material movement does not add value to your manufacturing process. Eliminating or reassigning the labor associated with material movement makes your process more efficient.

Implement Industry 4.0
At the forefront of manufacturing is "Industry 4.0" - an assortment of sensors, software and robotics to increase automation. Aethon's comprehensive suite of robots and connective software supports your initiatives.

Create Collaborative Automation
Our robots connect your islands of automation by moving materials to where they are needed. They perform their duties alongside your production workers rather than in isolation, making it a collaborative robotic technology.

Improve Worker Safety
Injuries sustained while moving heavy loads are common, as are injuries related to repetitive stress motion. Our robots eliminate material movement tasks to improve safety in your facility.

Improve Throughput
Material movement is often a source of "starving" operations with too little or "choking" operations with too much material. Our robots respond to system signals to automatically pickup and dropoff material when needed.



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About Aethon
Leader in Intralogistics Automation

Founded in 2004, Aethon is a proven leader in intralogistics automation through its autonomous mobile robot platform. Our robots automate physical delivery and transportation of materials. Transportation tasks in manufacturing are necessary but add no value to the finished product. By automating the internal logistics process, manufacturers can reduce labor or direct it to more important areas of production.

Our products include a family of autonomous mobile robots, a software suite enabling the integration of production control systems, a fleet management control system enabling coordination of the robots as well as integration of building systems, and a suite of mapping and management tools.

Aethon is proud to be part of the ST Engineering family of companies.



Autonomous Mobile Robots
for manufacturing and logistics automation



Big or small, we can handle it all



	T3XL	T3	T4
Capacity	1,400lbs/635kg	1,000lbs/453kg	250lbs/113kg
Max Cart Length	48" / 122cm	38" / 96.5cm	36" / 91cm
Locomotion	Omnidirectional	Omnidirectional	Center Drive
Speed	0.76 m/s	0.76 m/s	2 m/s
Turning Radius	58.6" / 148cm	50" / 127cm	17" / 43.2cm
Auto Transfer	Auto Pickup and Dropoff	Auto Pickup and Dropoff	Auto Pickup and Dropoff



TUG



Proven



Flexible



Connected



Safe

Our robots will help you forever change how materials are moved in your organization. They will connect islands of existing production and automatically transfer of materials virtually anywhere through your plant. They are proven safe and reliable so you can deploy them among your staff confidently. You have total control since they are connected to your existing production automation and building systems. In addition, you can create unique solutions by taking advantage of our open integration platform allowing you, or third parties, to incorporate smart payloads such as conveyors.

Fleet Management

A comprehensive software system manages your fleet of TUG robots. It dispatches, monitors and provides work instructions for all the robots in your fleet allowing them to work in unison. It provides the APIs needed to integrate your ERP/MES system.

Integration to Building Systems

TUGs can open doors, ride elevators and respond to alarm conditions. The TUG uses its WiFi communication to negotiate and control the various building systems, allowing our robots to navigate within your existing facility.

Unattended Monitoring & Support

Your TUG fleet can be managed over a secure cloud connection 24 / 7 / 365. This patented system uses algorithms to detect when a robot needs assistance and allows immediate visibility. These tools provide your engineering support team unattended monitoring and remote control of robots.

You need more than a robot.



PLC Integration

LogicOS™ is Aethon's solution for third parties who want direct control of TUG robots using standard programmable logic controllers, or PLCs. LogicOS provides open access to TUG operations enabling real-time interaction with machines and material flow. It also provides the ability to see and manage the TUG fleet within an HMI display for total visibility.

Open Platform for Your Innovation

Our AMRs are open and allow you or third parties to build solutions upon them. This provides the opportunity for smart payloads such as conveyors to be incorporated onto our smart robots.

Different than AGVs

TUGs are autonomous mobile robots (AMRs) which are different than automated guided vehicles (AGVs). Our AMRs do not require fixed infrastructure such as beacons or wires and this makes mapping or remapping easy and flexible. It delivers directly to production cells and people and works in concert with your processes. It navigates unexpected obstacles to complete its mission and avoid bottlenecks.

You need an integrated system.