AGV OVERVIEW
Oceaneering specializes in providing mission-critical mobile robotics solutions for material handling applications involving diverse fleets deployed globally in the automotive and manufacturing sectors.

For decades, Oceaneering has used automated guided vehicle (AGV) technology to deliver materials handling and logistics solutions to the world’s largest and most sophisticated companies. We have established ourselves as an industry leader in engineering and implementing turnkey systems across an array of demanding applications within the automotive and manufacturing industries. While the applications we serve are diverse, our customers all have common needs: to safely reduce operating costs and increase flexibility in their mission-critical manufacturing and logistics processes.
LIFETIME SERVICE PROGRAM

Oceaneering’s Lifetime Service Program ensures the continuity and unmatched performance of our AGVs and software for the duration of their life cycles. We provide 24/7 access to highly trained technicians who understand the intricacies of optimized logistics solutions to consistently and predictably keep operations moving.
To maintain a competitive advantage in a globalized market, automotive manufacturers require state-of-the-art automated processes with 24/7 delivery of parts and supplies to production lines that reduce labor expenditures while increasing reliability and flexibility. Our AGV systems provide strategic solutions for automating mission-critical operations that go beyond simply replacing conventional fork trucks. AGVs can be used throughout the automotive production process in body shop and assembly/testing areas, including the corresponding logistics to increase flexibility and safety while reducing risks and labor costs. Our standard modular AGV options optimize configurability and incorporate pre-engineered material handling functionality. Our industry-leading traffic monitoring software allows dynamic routing between workstations and integrates manufacturing and material handling equipment to further streamline operations.

With a full understanding of the processes used and challenges faced by the leading automotive manufacturers, Oceaneering is able to provide full lifecycle support to our customers—from design planning to implementation and commissioning to maintenance services.

To enable the quick and quality turnaround of raw, in-process and/or finished materials requires customizable solutions—that are vertically integrated across the entire supply chain—to support complex and capital-intensive automated environments. This automation enables highly efficient operations while minimizing labor costs. Oceaneering AGV systems deliver critical operational agility, integrated communications, and tracking and tracing capabilities that are imperative in today’s manufacturing environment. Manufacturers must meet all these challenges while delivering and products safely and efficiently. Demands for continually increasing production have changed the way the industry approaches logistics.
UNIMOVER™ AGVs
Designed to operate across a broad range of logistics applications including complex automotive assembly, mission-critical deliveries, and simple towing or conveying operations. Standardized material handling options include lifting tables, stationary platforms, tuggers, and conveyor configurations. UniMover tunneling AGVs position themselves beneath a load, lift or pull the load, and transport the load to its intended location. The UniMover Mini represents an extremely compact design while maintaining the robustness and performance of the UniMover.

COMPACTMOVER™ AGVs
Designed for increased maneuverability to transport lighter loads including pallets, boxes, and totes. Standardized material handling options include high-lift forks, specialized conveyors and shuttle units, as well as the option to use the vehicles for towing operations. The CompactMover AGV is a multi-load vehicle with a minimum footprint that, in some cases, can handle up to four loads at a time.
MAX MOVER™ AGVs

Designed for industrial, multi-load handling applications. MaxMover AGVs can transport loads of all sizes with the capability to handle heavy loads. Standardized material handling options include high-lift forks, specialized single or double conveyor units, lifting deck configurations, as well as the option to use the vehicles for towing operations. The most popular MaxMover AGVs are automated forklifts available as single-load or dual-load vehicles.

QUANTUM MOVER™ AGVs

Designed as a highly flexible, scalable and fully automated replenishment system to deliver goods to your order picking system or to production and assembly lines. The QuantumMover stores and retrieves a wide variety of totes/bins (up to 20 carriers simultaneously) to distribute essential parts/kits required for the manufacturing process. It is equipped with dual drives to enable sideways driving (crabbing) to ensure accurate positioning.

Our vehicles feature a wide range of standard modules that are configurable to suit specific leads and applications to support typical automotive and manufacturing processes. This enables us to efficiently deliver tailored solutions that require reduced training time and decrease acquisition and maintenance costs. Turnkey engineering design is based on operating environment, production processes, and customer requirements.
Key to the safety and reliability of our AGV systems is our advanced software technology. At the heart of our AGV solutions are our proprietary SuperFROG® system, and Tracking and Converter Systems (TRACS).

The SuperFROG supervisory control system is responsible for fleet and traffic management and for logistics functions, such as order fulfillment. The software can be customized to meet onsite vehicle traffic rules and to generate performance data. Acting as a traffic controller, the SuperFROG system determines the traffic rules, coordinates traffic flows, sends data to end users, handles battery management, and controls interactions between AGVs and automatic doors, elevators and signaling equipment within a defined layout. SuperFROG also contains the primary graphical user interface (GUI) for the operation of the system.

The TRACS module provides location management control in logistics storage applications areas. The software generates transport orders while tracking the status and location of loads. TRACS communicates seamlessly with the SuperFROG system to ensure that loads are delivered to the right place, in the right sequence, at the right time.

Together, our control system is extremely scalable, handling 80+ vehicles per layout and also generating usage and performance data that can be compared across layouts/processes/facilities.

Oceaneering is a worldwide leader in safe, reliable, and flexible turnkey logistic and production solutions based on automated guided vehicle (AGV) technology. Through innovative application of our field-proven hardware and software, our customers can benefit from adopting our AGV systems in mission-critical operations, providing long-term strategic value.

To learn how our AGV technology can help you efficiently move your business ahead of the competition, visit us at oceaneering.com/AGV.