OTTO Fleet Manager™

Automate materials handling at enterprise-scale with the world's most powerful Autonomous Mobile Robot (AMR) fleet management software.

The OTTO Materials Movement Platform™ starts with a broad selection of the industry's smartest, safest and most durable autonomous mobile robots. But to truly transform materials handling at enterprise-scale, an AMR solution also needs intelligent software that can connect an entire fleet to your people, along with every material handling workflow, system and tool throughout your entire operation.
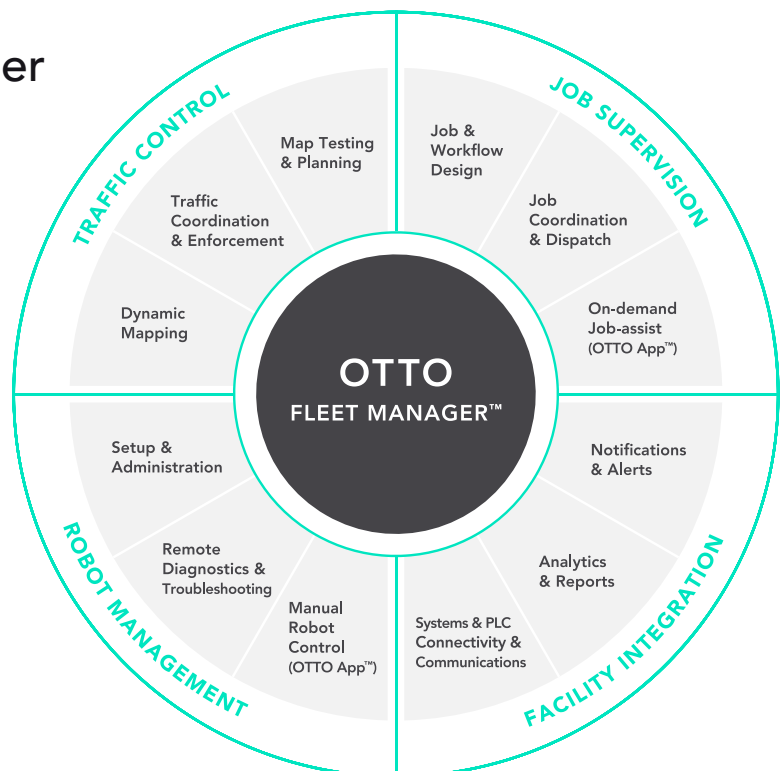
Finally, there's a way to make lights-out manufacturing a reality.

Introducing OTTO Fleet Manager
Enterprise-scale AMR Fleet Management Software

Designed to help transform materials handling, OTTO Fleet Manager gives you the power to manage a single OTTO AMR or hundreds from any device or factory system – easily and securely. Use OTTO Fleet Manager to quickly add new OTTO AMRs to your facility and have them running jobs and delivering value in just minutes. Apply custom traffic rules to your facility and let Fleet Manager enforce them across your fleet, while a built-in job scheduler automatically assigns jobs in a way that maximizes robot utilization and material throughput—always.

Flexible enough to easily integrate with your existing mission-critical factory tools and systems, and PLC-ready to collaborate with your smart factory equipment, OTTO Fleet Manager is designed to help you get started with materials handling automation or go enterprise-scale across your entire operation.

TRAFFIC CONTROL
- Map Testing & Planning
- Traffic Coordination & Enforcement
- Dynamic Mapping

JOB SUPERVISION
- Job & Workflow Design
- Job Coordination & Dispatch
- On-demand Job-assist (OTTO App™)

FACILITY INTEGRATION
- Notifications & Alerts
- Analytics & Reports
- Systems & PLC Connectivity & Communications

ROBOT MANAGEMENT
- Setup & Administration
- Remote Diagnostics & Troubleshooting
- Manual Robot Control (OTTO App™)

OTTO FLEET MANAGER™

Dynamic Mapping

As OTTO AMRs move through your facility, onboard laser sensors and 3D cameras observe their physical surroundings and continuously feed telemetry and positioning data back to OTTO Fleet Manager. Fleet Manager knows each robot's location and where they're going, along with diagnostic information like charge state, to ensure your fleet is synchronized and working together. Fleet Manager also gives operators a real-time visual of your facility along with where OTTO AMRs are, and the jobs they're executing.

Automated Traffic Enforcement

OTTO's smart robots use advanced sensors and 3D cameras to autonomously navigate your facility, eliminating the need for physical infrastructure that takes up valuable facility real estate. OTTO Fleet Manager takes autonomy to the next level by allowing you to customize the way OTTO AMRs move throughout your facility. Select and apply dozens of traffic rules like speed limits, heavy pedestrian areas, do not enter zones and more. Then Fleet Manager will enforce them across your fleet to keep your people and equipment safe, and materials flowing efficiently—always.

Intelligent Job Scheduling

Fleet Manager continuously processes data about your fleet so it always has a pulse on every robot's status including charge level, location, job status, payload, vehicle capability, team and more. Then it intelligently assigns jobs like material pick-ups, drop-offs and battery charging to the right robot in real-time. Fleet Manager's intelligent job scheduler processes thousands of individual tasks per second ensuring it can handle even the most demanding enterprise materials handling needs efficiently and reliably.

Automatic traffic enfrocement and intelligent job scheduling optimize facility safety and throughput.
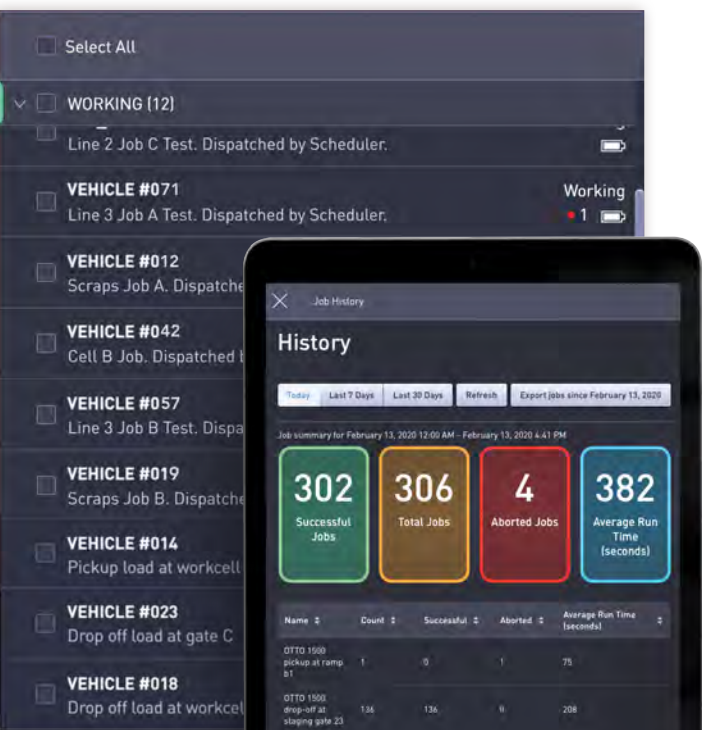
Smart Notifications

To ensure mission-critical processes flow continuously, OTTO Fleet Manager will keep you up-to-date on the metrics that matter like job takt times, throughput, distance travelled and more. If a critical metric isn't met for a particular job, Fleet Manager will instantly alert your team via email, Slack™ or mobile along with event log data that enables them to quickly unpack and determine root cause. And if they can't achieve resolution on their own a single click engages an OTTO agent for expert support.

Flexible APIs and Integration

Easily connect OTTO Fleet Manager to any factory tools or systems you have in place like your ERP or WMS via HTTPS Rest and Websocket, OPC-UA Protocols and Ignition for PLC integration. Fleet Manager can coordinate materials handling jobs from your WMS and ensure they get fulfilled according to predefined job takt times to safeguard materials handling processes. Fleet Manager works collaboratively with cobots and other connected devices like conveyors and shelving for seamless materials handling throughout your facility while OTTO Motors' worldwide partner network of systems integrators and developers continuously build custom solutions for specific applications and use cases to support industry-specific needs.

Powerful Analytics

Fleet Manager captures vast amounts of data and serves it up in a multitude of ways to help you stay on top of fleet performance and ROI. Elegant dashboards show you vehicle status, jobs in progress, historical trends and more. Dig into the details or export data for further analysis outside of Fleet Manager, or use Fleet Manager's flexible APIs to push data directly to other factory systems or tools like your WMS or ERP.

Visit **www.ottomotors.com** to learn more about how you can automate material handling processes.