Unlock the Hidden Potential of your Facility

Increase your productivity without increasing your footprint or your workforce.
OTTO is more than a self-driving vehicle.

Our products work together to reduce manual touches in the production process and deliver uptime, throughput improvements, and safety.

OTTO™ finds a way.
No tape, guides, or predefined paths required. OTTO analyzes the environment and makes real-time decisions about its route depending on where it needs to go.

Increase your plant’s throughput
OTTO adds reliability and cadence to your material flow, which improves availability and overall effectiveness of equipment and process.

Reclaim unproductive floorspace
OTTO enables you to reduce buffer size by making smaller, more frequent deliveries, which reduces WIP and on-hand inventory.

Standardize manufacturing excellence
The best processes in each facility can be shared with all facilities, distinguishing your brand with a world-class culture of innovation.
What can OTTO do for you?

OTTO is designed to quickly adapt to different tasks, floorplans, and workflows in a few clicks.

OTTO combines the flexibility of a person with the efficiency and reliability of automation so the right parts get to the right place at the right time.

OTTO APPLICATIONS

Deliveries and Pickups

Bus Routes

Pull Calls by Operator

Lineside Delivery and Pickup

Kitting and Picking

Long Hauls

Fork Truck Handoffs

Custom Implementations and Workflows
Automate your material flow.

OTTO’s core vehicle operating system is what transforms industrial material handling equipment into self-driving vehicles that can automate your material moves.

Safe
OTTO safely navigates around people and infrastructure.

Reliable
OTTO uses multiple sensors so it never gets lost in your plant.

Intelligent
OTTO intelligently plans routes through dynamic environments.

The OTTO App allows you to use a tablet to connect processes in the palm of your hand.

Map your facility
Show OTTO around and build a facility map in real time.

Add delivery points
Tell OTTO where pickups and dropoffs need to happen.

Put OTTO to work
Send OTTO to destinations in your facility or create bus routes and milk runs.

Automating your material flow doesn’t require a robotics degree.

The OTTO App gives you the tools to improve your material flow minutes after taking OTTO out of the box.

Kyle Smith
GE Healthcare

We really like the on-demand nature of OTTO. It’s where it needs to be, when it needs to be there.

5 6
Put your material flow on autopilot.

The OTTO Fleet Manager connects multiple self-driving vehicles to your production process for higher levels of efficiency and control.

Material flow coordination
The OTTO Fleet Manager is your fleet’s central dispatch and command center. It manages OTTO’s job queue, dispatches work, and worries about material flow so you don’t have to.

Uptime with little interruption
If OTTO is charging, it is not working. The OTTO Fleet Manager works to maximize uptime by sending OTTO automatically to the charger at opportune times for brief, high-powered super charges.

Data-driven decisions
OTTO connects processes, collects data, and closes the automation loop for insight and action on your production floor.

Industry 4.0 compatible
OTTO is designed for the factory of the future with powerful APIs for end-to-end automation and the digitization of your material flow.

Put OTTO to work.
Job assignments that work for your workflow. OTTO can receive simple directions or integrate with existing automation or software.

Workstation dispatch
Create jobs for OTTO manually with a tablet or computer in the workstation.

Scheduled dispatch
Create a customized schedule of jobs by shift, time, or production requirements.

Automated dispatch
Automated job generation by existing PLCs at process end-points.

Software dispatch
ERP, WMS, MES integrations for automated and coordinated moves.
Designed with your facility in mind.

**OTTO 100**
- 740 x 550 x 301 mm (29.1 x 22 x 12 in)
- 100 kg (220 lbs) PAYLOAD CAPACITY
- 2.0 m/s (4.47 mph) TOP SPEED
- 0 mm (0 in) TURNING RADIUS

OTTO is designed for work in your facility by using one of OTTO's standard attachments, or by connecting to the hardware, power, and communications attachment interface for more creative and customized deployments.

**OTTO 1500**
- 1810 x 1190 x 400 mm (71 x 47 x 16 in)
- 1500 kg (3306 lb) PAYLOAD CAPACITY
- 2.0 m/s (4.47 mph) TOP SPEED
- 0 mm (0 in) TURNING RADIUS

Small or large facility, simple or complex workflow, OTTO is designed for your application.
Specifications

OTTO gives us the flexibility we need.

Gary Krus,
HIROTEC America

<table>
<thead>
<tr>
<th>Specifications</th>
<th>OTTO 100</th>
<th>OTTO 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>740 x 550 x 301 mm (29.1 x 22 x 12 in)</td>
<td>1810 x 1190 x 400 mm (71 x 47 x 16 in)</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>127 kg (280 lbs)</td>
<td>525 kg (1157 lbs)</td>
</tr>
<tr>
<td><strong>Speed and performance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Total Payload</td>
<td>100 kg (220 lbs)</td>
<td>1500 kg (3306 lbs)</td>
</tr>
<tr>
<td>Maximum Speed</td>
<td>2.0 m/s (4.47 mph)</td>
<td>2.0 m/s (4.47 mph)</td>
</tr>
<tr>
<td>Turning Radius</td>
<td>0 mm (0 in)</td>
<td>0 mm (0 in)</td>
</tr>
<tr>
<td>Suspension</td>
<td>Fixed</td>
<td>Passive</td>
</tr>
<tr>
<td>Positional Accuracy</td>
<td>+ / - 25 mm (0.98 in)</td>
<td>+ / - 25 mm (0.98 in)</td>
</tr>
<tr>
<td><strong>Battery and power system</strong></td>
<td>Managed Battery Charging</td>
<td></td>
</tr>
<tr>
<td><strong>Interfacing and communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APIs</td>
<td>Industrial API (OPC UA) that integrates with your PLCs for collaboration with existing automation systems. RESTful API that provides integration with web-based software such as ERP, WMS, MES.</td>
<td></td>
</tr>
<tr>
<td>Attachment Control Systems Power</td>
<td>N/A</td>
<td>24VDC 5A, regulated, unswitched</td>
</tr>
<tr>
<td>Communication</td>
<td>Wi-Fi (802.11 a/b/g/n, 2.4 GHz, 5 GHz)</td>
<td>Wi-Fi (802.11 a/b/g/n, 2.4 GHz, 5 GHz)</td>
</tr>
<tr>
<td>Integrated Lift</td>
<td>62 mm (2.44 in) stroke, 100 kg capacity</td>
<td>N/A</td>
</tr>
<tr>
<td>Attachment Supply Power*</td>
<td>27.6VDC nominal 10A, Unregulated, unswitched battery power</td>
<td>51.2VDC nominal 50A, Unregulated battery power, switched with safety circuit</td>
</tr>
<tr>
<td>Custom Attachment Interface*</td>
<td>2x Ethernet POE, 2x USB 3.0, 16x DIO (8x DI, 8x DO), e-stop extension, 1x serial RS-232, 2x dry contact relays</td>
<td>1x Ethernet, 1x USB 2.0, 1x CAN bus, 2x general purpose inputs and outputs, 1x payload attachment control line, 1x payload attachment fault line, dual channel emergency stop breakout</td>
</tr>
<tr>
<td>Safety Systems</td>
<td>Front safety-rated LIDAR sensor, 3D vision system for auxiliary object detection, 1x emergency stop button, perceptive 360° LED lighting</td>
<td>Front and rear safety-rated LIDAR sensors, perceptive 360° LED lighting, 4x emergency stop buttons</td>
</tr>
</tbody>
</table>
We’re with you every step of the way.

**Professional Services**
Our dedicated team of material flow designers, simulation developers, and solution consultants are available to help you map processes and design a solution unique to your business.

**Test Center**
Each OTTO system is thoroughly tested 24/7 in our test facility to ensure that you are getting best in class automation that is up to the most critical tasks you can provide.

**Customer Success**
Your OTTO customer success team is by your side from your first OTTO to hundreds. Get around-the-clock support from the people who know your OTTO best.

**Integrator Network**
We partner with and train a network of industrial automation solution providers to help design, plan, and execute on your next project.
The Future is Self-Driven

www.ottomotors.com