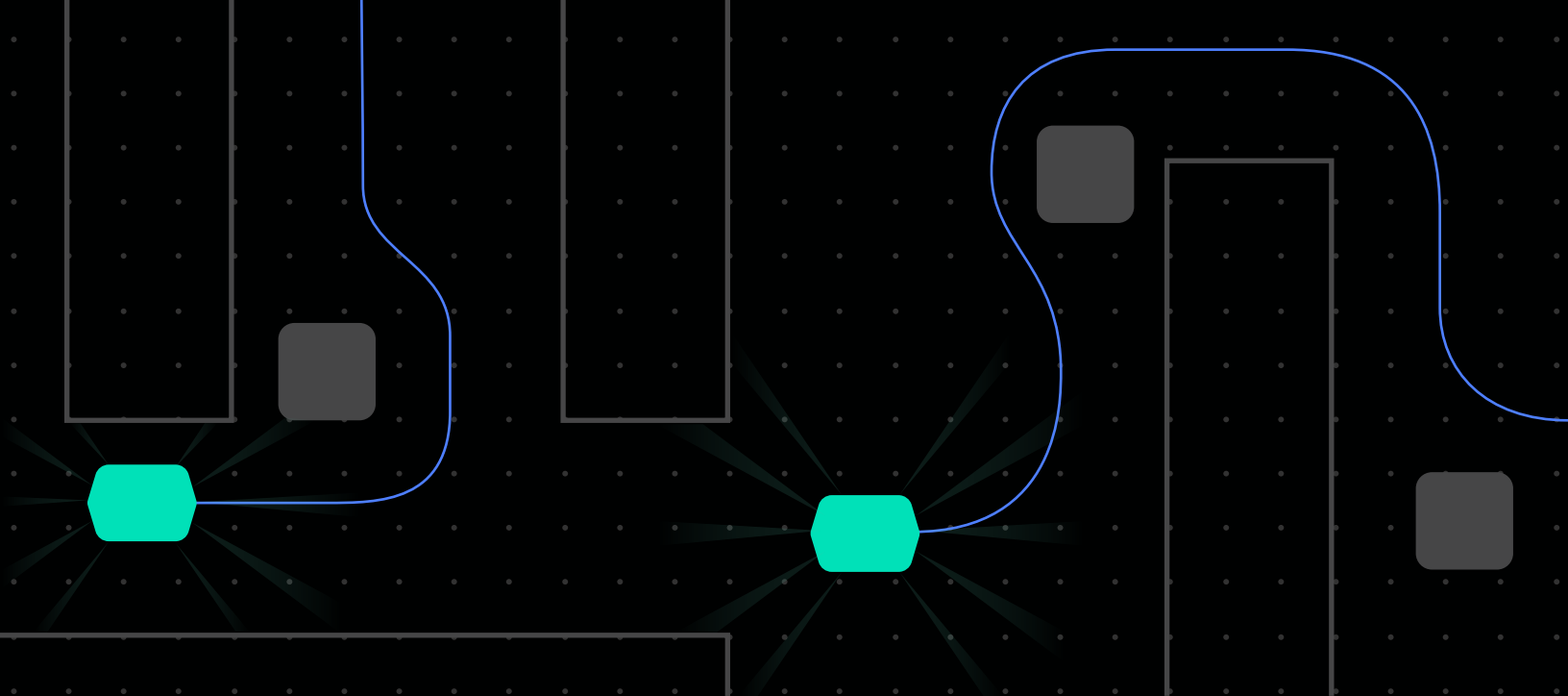




Unlock the Hidden Potential of your Facility



Increase your productivity without increasing
your footprint or your workforce.

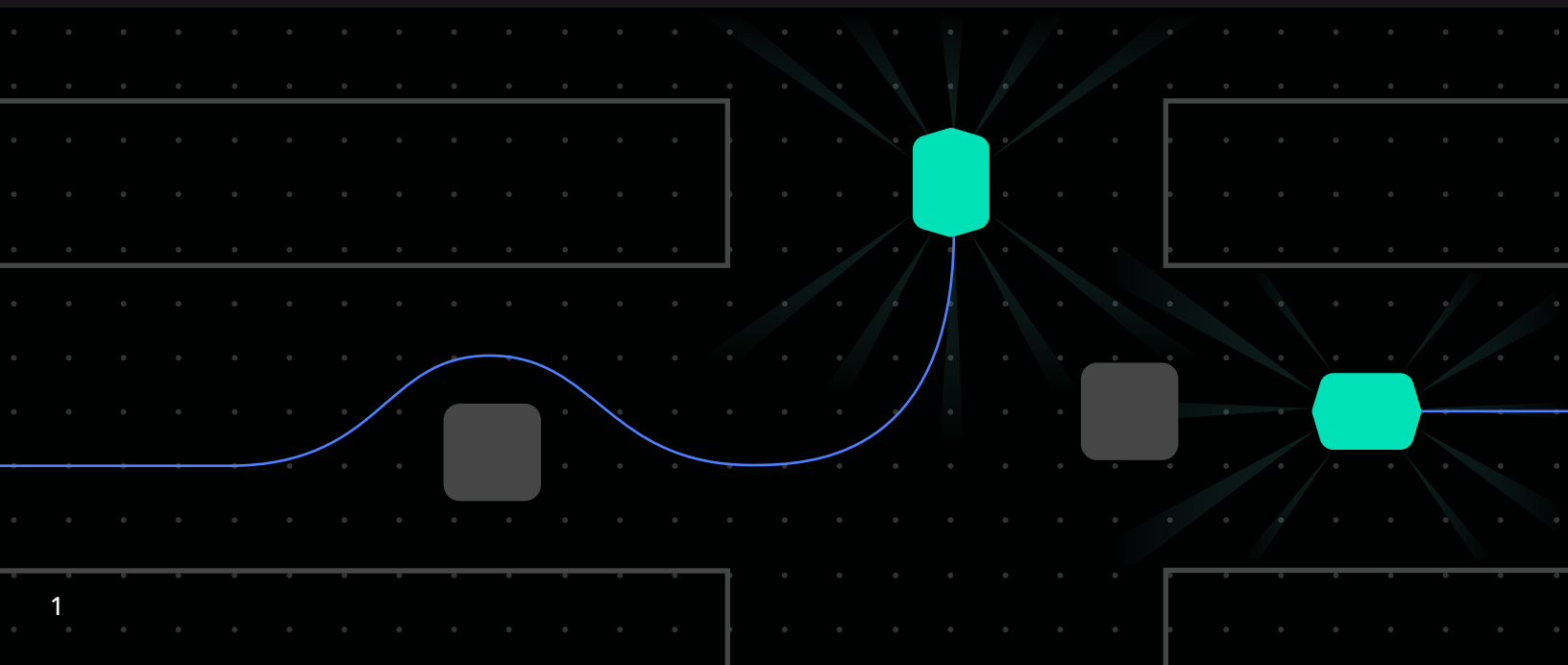


OTTO is more than a self-driving vehicle.

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

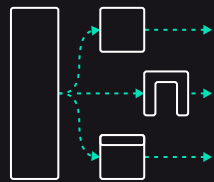
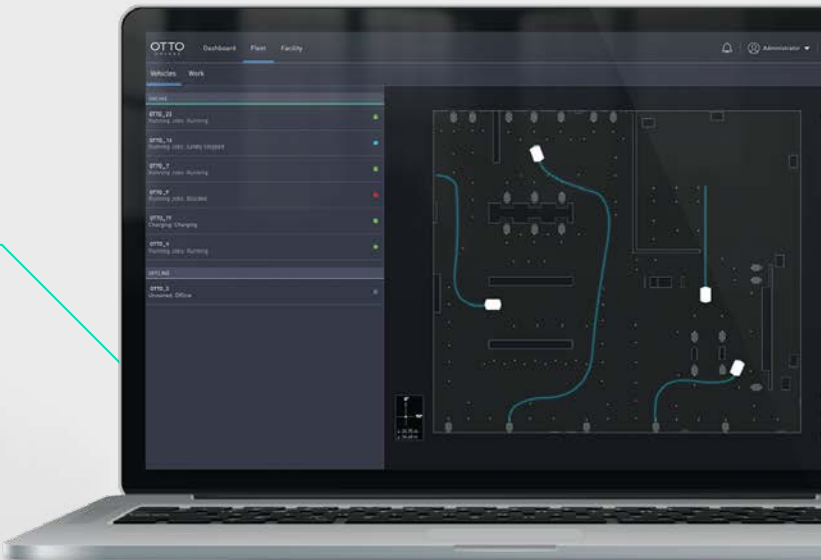
The best processes in each facility can be shared with all facilities, distinguishing your brand with a world-class culture of innovation.

What can OTTO do for you?

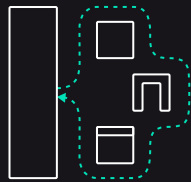
OTTO is designed to quickly adapt to different tasks, floorplans, and workflows in a few clicks.



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.



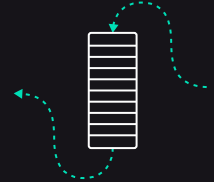
Deliveries and Pickups



Bus Routes



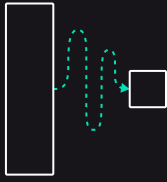
Pull Calls by Operator



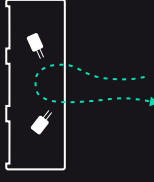
Lineside Delivery and Pickup



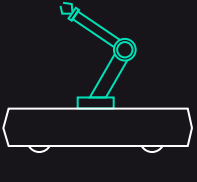
Kitting and Picking



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.



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. ”

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.

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

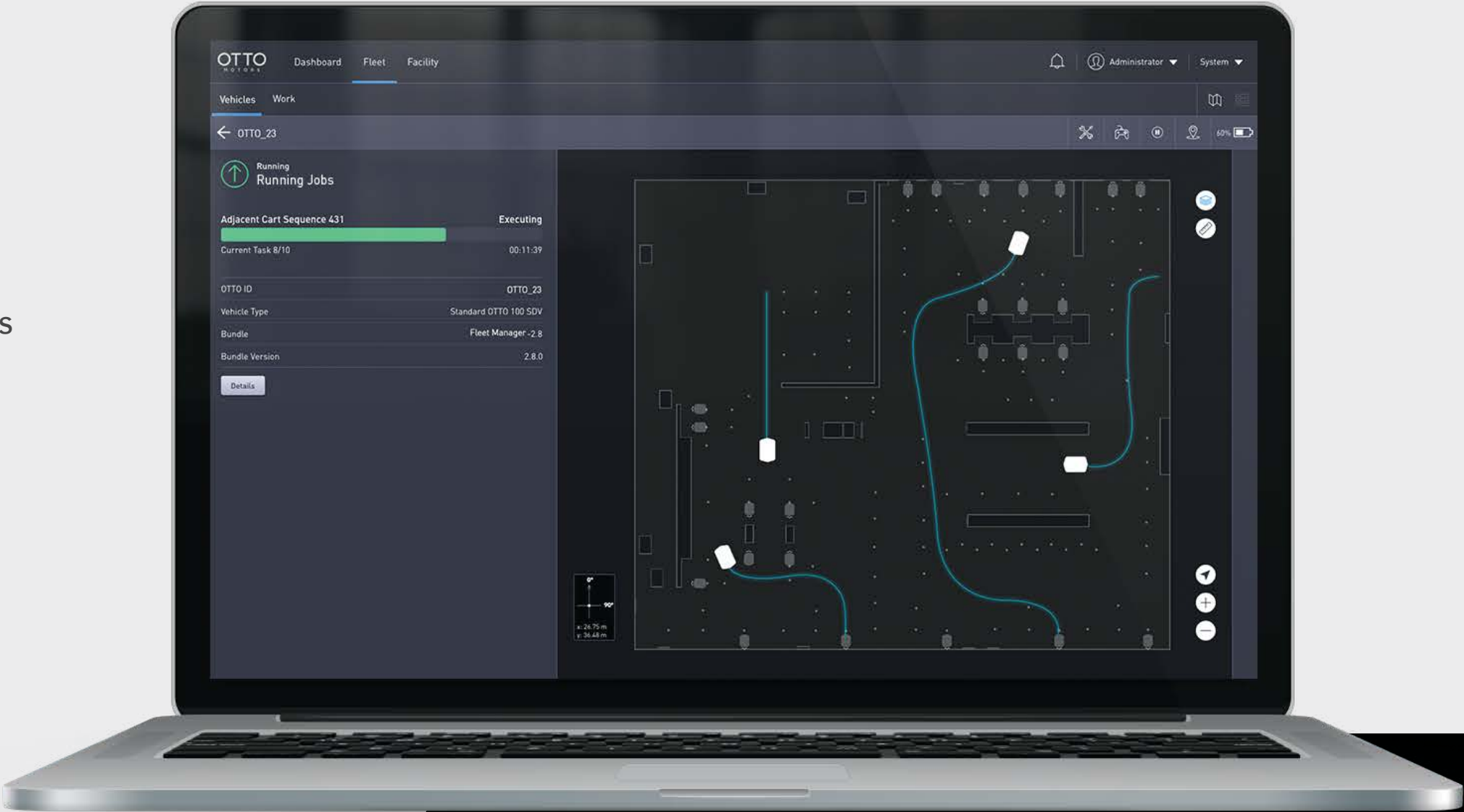
If OTTO is charging, it is not working. The OTTO Fleet Manager works to maximize uptime by sending OTTO automatically to the charger at opportune times for brief, high-powered super charges.

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	Scheduled dispatch	Automated dispatch	Software dispatch
Create jobs for OTTO manually with a tablet or computer in the workstation.	Create a customized schedule of jobs by shift, time, or production requirements.	Automated job generation by existing PLCs at process end-points.	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



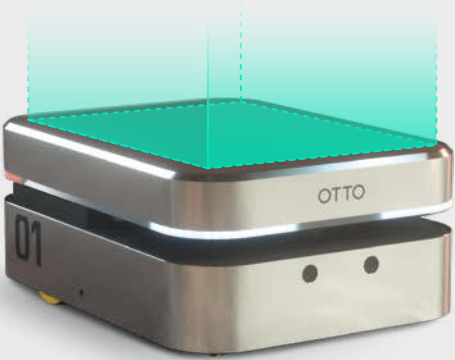
OTTO is designed for work in your facility by using one of OTTO's standard attachments, or by connecting to the hardware, power, and communications attachment interface for more creative and customized deployments.

OTTO 1500

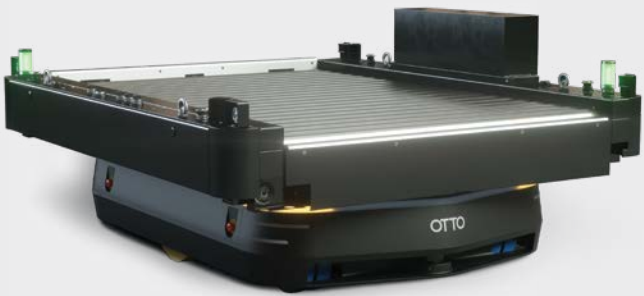
1810 x 1190 x 400 mm (71 x 47 x 16 in)
1500 kg (3306 lb) PAYLOAD CAPACITY
2.0 m/s (4.47 mph) TOP SPEED
0 mm (0 in) TURNING RADIUS



OTTO 100 CART BASE



OTTO 100 CUSTOM ATTACHMENT INTERFACE



OTTO 1500 CONVEYOR



OTTO 1500 LIFT



OTTO CHARGE 100



OTTO 1500 CUSTOM ATTACHMENT INTERFACE



OTTO CHARGE 1500

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

Specifications

OTTO 100



OTTO 1500



Size and weight	Dimensions	740 x 550 x 301 mm (29.1 x 22 x 12 in)	1810 x 1190 x 400 mm (71 x 47 x 16 in)
	Mass	127 kg (280 lbs)	525 kg (1157 lbs)
Speed and performance	Maximum Total Payload	100 kg (220 lbs)	1500 kg (3306 lbs)
	Maximum Speed	2.0 m/s (4.47 mph)	2.0 m/s (4.47 mph)
	Turning Radius	0 mm (0 in)	0 mm (0 in)
	Suspension	Fixed	Passive
	Positional Accuracy	+ / - 25 mm (0.98 in)	+ / - 25 mm (0.98 in)
Battery and power system	Managed Battery Charging	24/7 continuous operation with 85% individual vehicle uptime is achieved with automated and brief visits to the OTTO charger at opportune times between jobs. Battery charge levels are intelligently managed by the OTTO Fleet Manager so your fleet is always charged and ready for work.	
Interfacing and communication	APIs	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.	
	Attachment Control Systems Power	N/A	24VDC 5A, regulated, unswitched
	Communication	Wi-Fi (802.11 a/b/g/n/ac, 2.4 GHz, 5 GHz)	Wi-Fi (802.11 a/b/g/n, 2.4 GHz, 5 GHz)
	Integrated Lift	62 mm (2.44 in) stroke, 100 kg capacity	N/A
	Attachment Supply Power*	27.6VDC nominal 10A, Unregulated, unswitched battery power	51.2VDC nominal 50A, Unregulated battery power, switched with safety circuit
	Custom Attachment Interface*	2x Ethernet POE, 2x USB 3.0, 16x DIO (8x DI, 8x DO), e-stop extension, 1x serial RS-232, 2x dry contact relays	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
	Safety Systems	Front safety-rated LIDAR sensor, 3D vision system for auxiliary object detection, 1x emergency stop button, perceptive 360° LED lighting	Front and rear safety-rated LIDAR sensors, perceptive 360° LED lighting, 4x emergency stop buttons



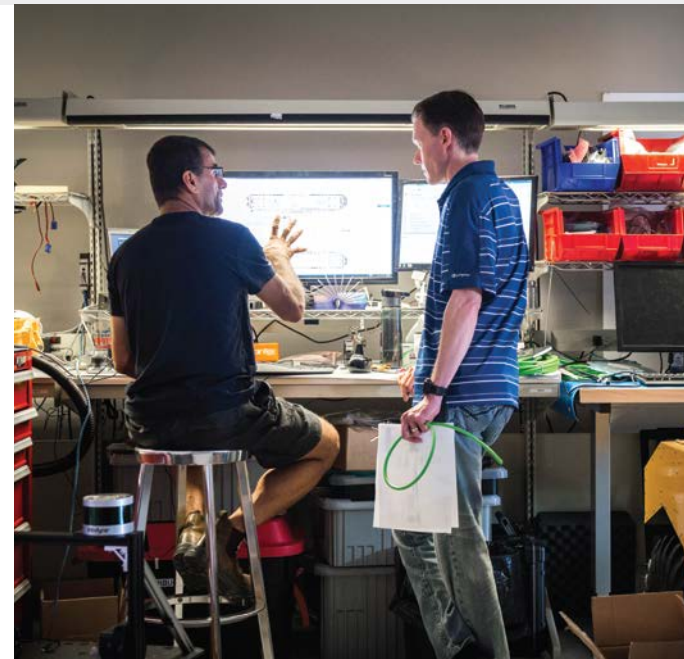
OTTO gives us the flexibility we need.

Gary Krus,
HIROTEC America

We're with you every step of the way.

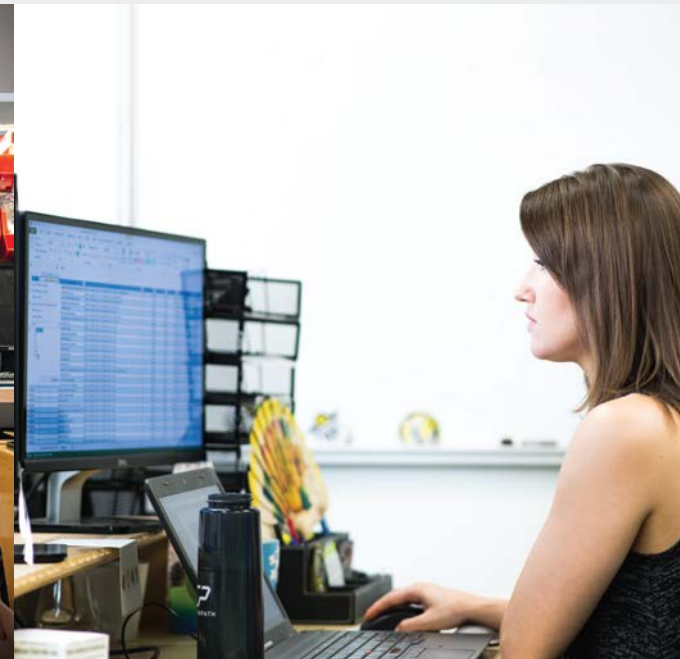
Professional Services

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



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