Trey

AUTONOMOUS
FORKLIFT
FOR TRAILER
(UN)LOADING
OPERATIONS

OPTIMIZED THROUGHPUT FOR MAXIMIZED PRODUCTIVITY

Transform your manual trailer loading and unloading operations into a **standardized**, **efficient**, **safe**, **and reliable** autonomous process.

SOLVING YOUR MOST DEMANDING CHALLENGES

Reliable automation to address the challenges of **higher-order volume and labor shortage** in logistics and warehousing.

Trey autonomously loads and unloads pallets from trailers, **saving more than 80%** of a worker's time.

It operates safely, consistently, and reliably in dynamic environments, side by side with people.

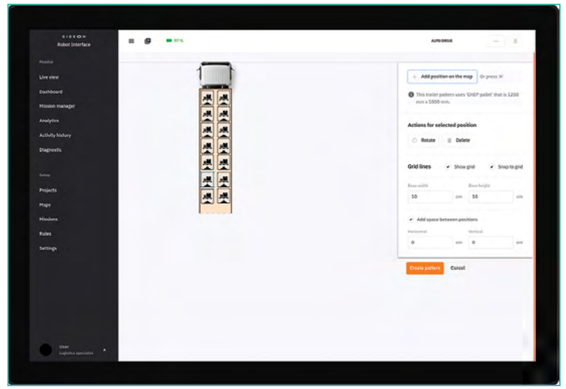
Saving more than 80% of a worker's time.

TREY'S ANATOMY

Meet the complete solution for a **an efficient trailer loading and unloading** process.

Gideon Autonomy
powered by AI & 3D vision

Software **for smart workflow orchestration**

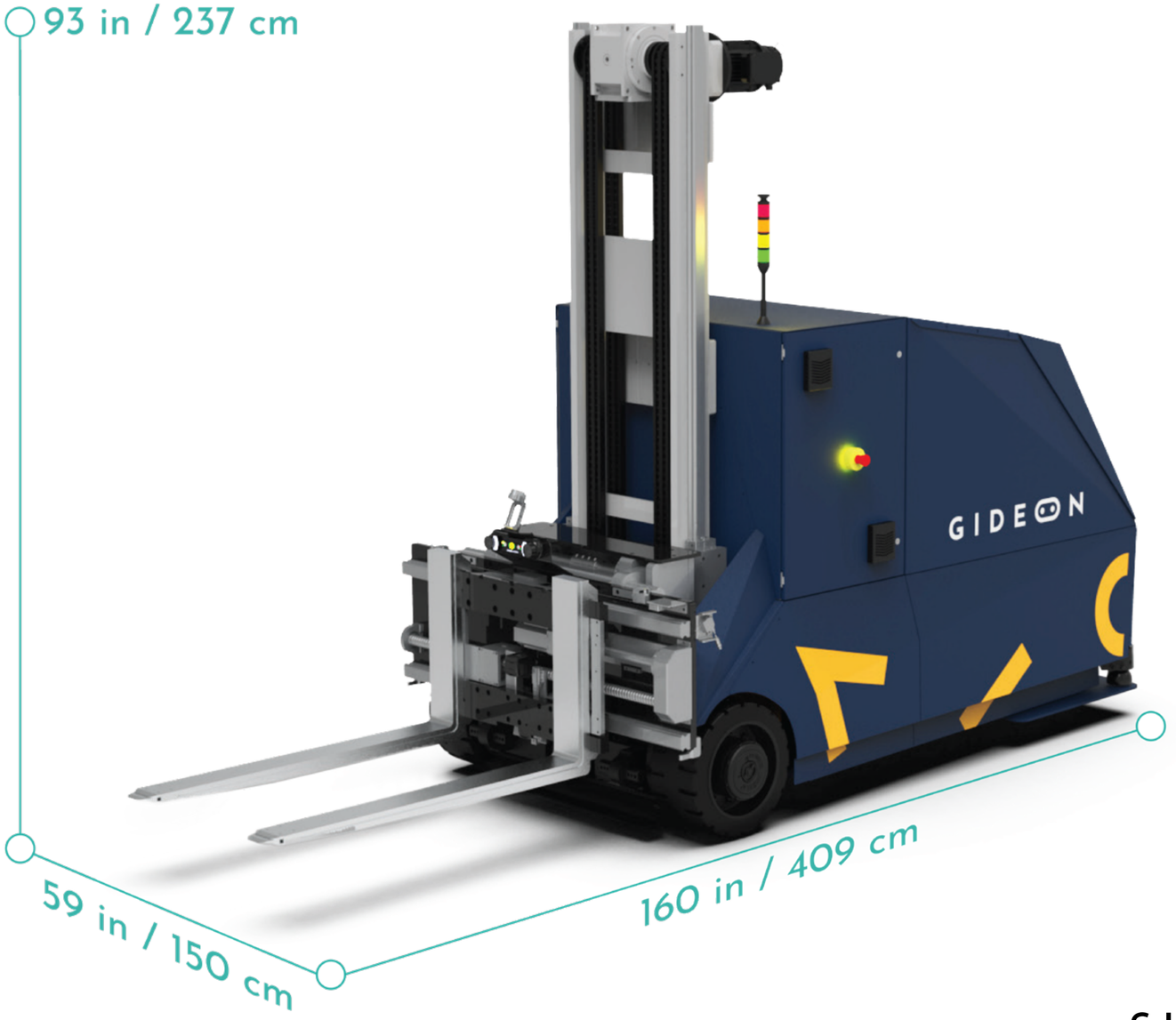


Robust **counterbalance** vehicle

GIDEON

ROBUST CHASSIS

Purpose-built for reliable trailer **loading and unloading operations**.



Specifications:

Vehicle type	Counterbalance vehicle by Infinity Machine & Engineering Corp.
Max payload	5500 lbs (2500 kg)
Dimensions	160x59x93in (409x150x237 cm)
Battery	Li-Ion

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GIDEON AUTONOMY POWERED BY AI & 3D VISION

Uniquely designed for **autonomous visual navigation**, continuously aware mapping, and improved safety.

Proprietary
Vision Module

Friction-free
navigation around obstacles

System that **keeps people, goods, and equipment safe**

Built-in pallet detection
based on machine learning

Deployment in just
a few hours

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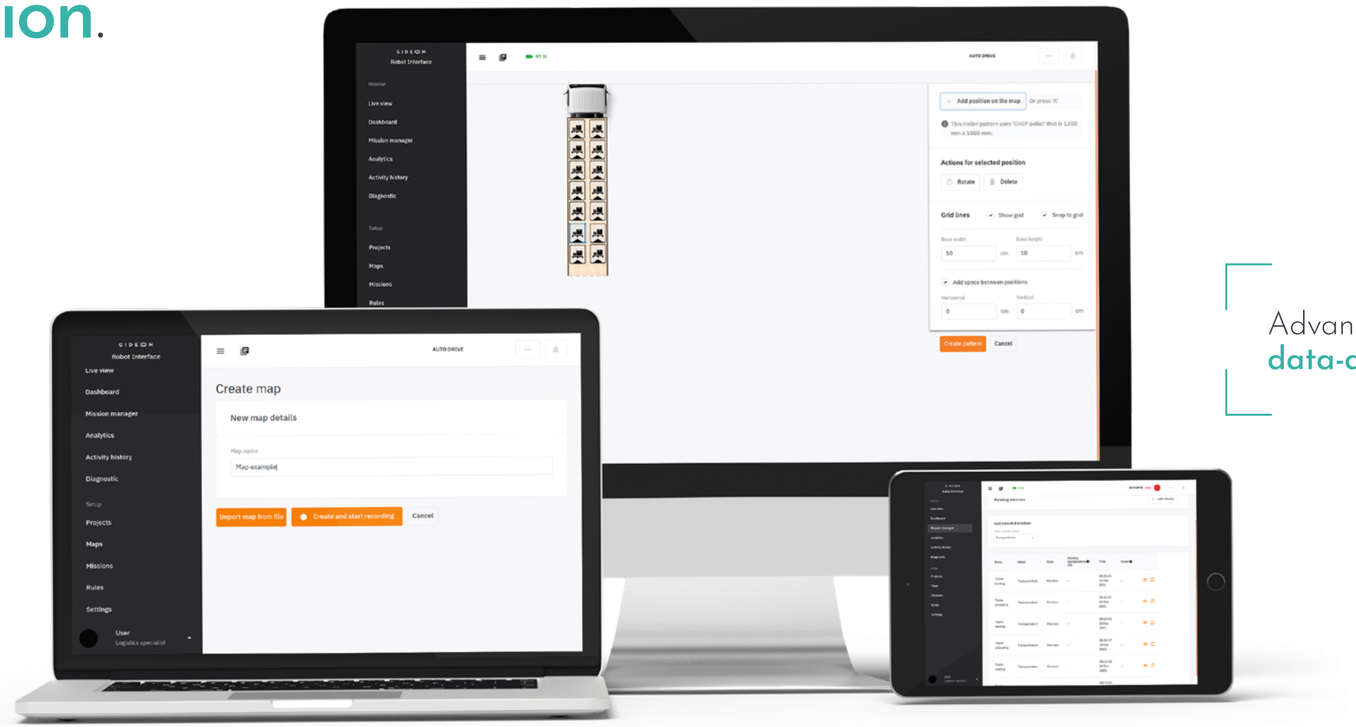
ROBOT AND FLEET MANAGEMENT SYSTEM

Intuitive, all-in-one software for **smart workflow orchestration**.

Browser-based interface
easy to use on any device

Reliable integration with 3rd party systems (e.g., WMS)



Controls and tracks
all pallet movements

Real-time monitoring,
from dock interlocks to trailer inventory

Mission management
and task delegation

Advanced analytics to make **data-driven decisions** on the fly

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WHY AUTOMATE WITH TREY?

Packed with benefits for your business and your people.

Relieve labor shortage pressure

Eliminate waste and let your employees focus on value-added tasks, becoming robot fleet supervisors.

Raise process stability and efficiency

Automate, orchestrate, and optimize previously inefficient workflows.

Reduce incidents and damages

Rely on **safety beyond industry standards** for improved workplace safety and reduced injury-related costs.

Improve your bottom line

Lower operations and labor costs. Eliminate costs related to goods and equipment damage.

Increase throughput

Boost capacity with two or more Treys per (un)loading task.

Simplify at scale

Easy to deploy, use, and scale with minimal impact on your existing infrastructure and workflows.

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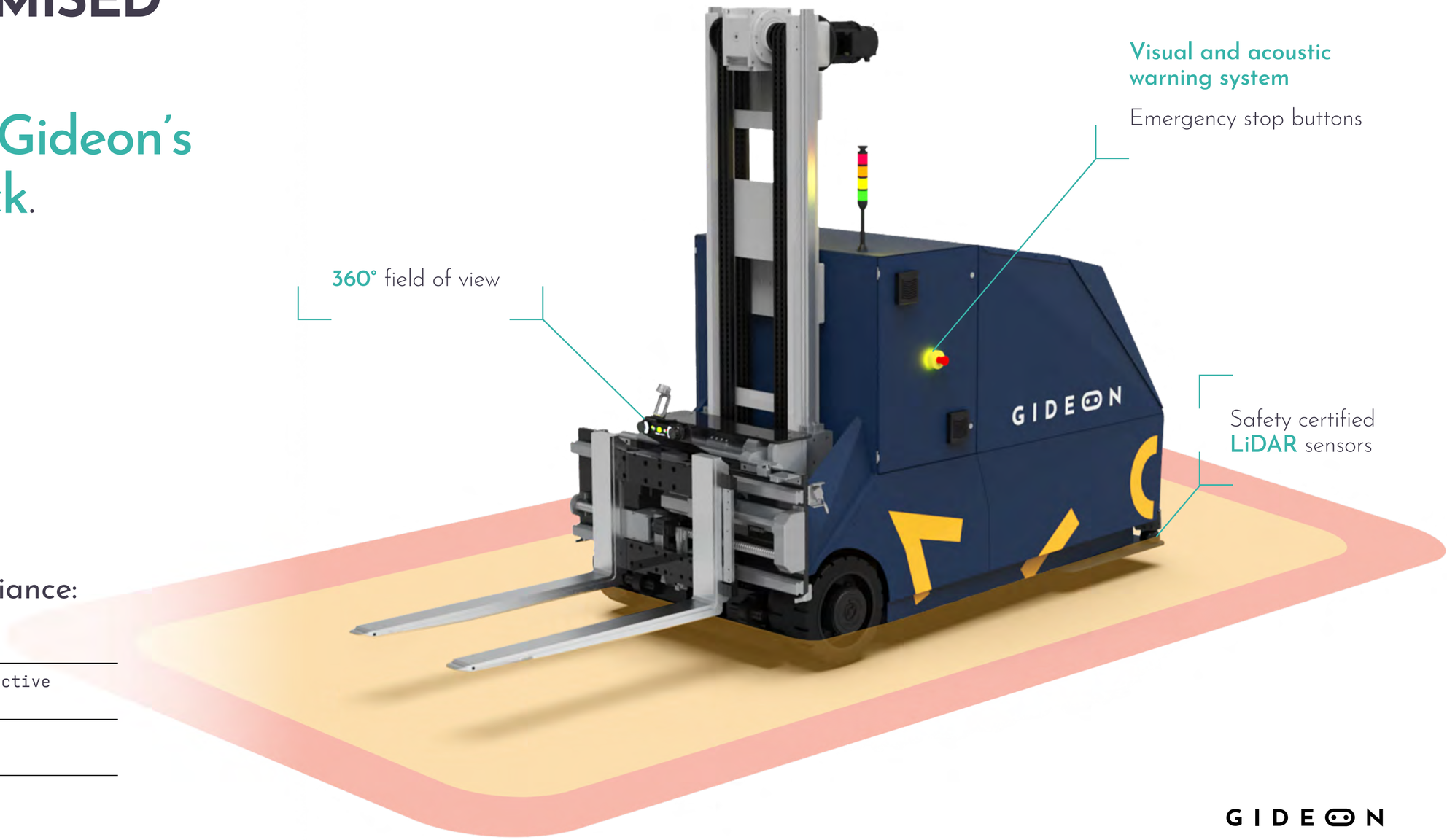
UNCOMPROMISED SAFETY

Augmented by **Gideon's autonomy stack**.



Safety standards compliance:

EU:	2006/42/EC Machinery Directive ISO 3691-4:2020
US:	ANSI/ITSDF B56.5-2019 guidelines

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FLEXIBLE & VERSATILE

Multiple loading patterns, trailers, and pallet types.

Solution features:

Supported pallet types	CHEP, PECO, GMA, IBC Tote, EPAL1, EPAL3, and other
Loading and unloading capacity	25 pallets per hour up to 2x higher capacity with two autonomous forklifts operating in tandem
Loading patterns	narrow-narrow (straight), wide-wide (turned), pinwheeled, load distribution, custom
Trailer types	Box bodies (dry vans) Curtain-siders (EOY 2022) Intermodal containers (EOY 2022) Other
Charging	Opportunity charging, Manual charging, Operating on full charge: 8+ h

ABOUT US

We build flexible, autonomous material handling solutions that automate even the most complex warehouse and manufacturing material handling operations.

Our autonomous mobile robots are **powered by proprietary spatial AI and 3D vision technology**, enabling businesses to automate and orchestrate workflows of humans, robots, and other equipment, supported by real-time data.

APPLY FOR PILOT

www.gideon.ai

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