THE FUTURE OF MATERIAL TRANSPORT & OPERATIONAL EFFICIENCY HAS ARRIVED.

Effidence Robotic Logistic Solutions are dedicated to improve logistics performance in warehouses, production facilities, and industrial environments. These solutions offset rising fulfillment costs and address many inventory management issues, while they **improve profitability, productivity, and accuracy**.

Effidence STACKER
Intelligence for mobile robotics

A BEST-IN-CLASS AUTONOMOUS FORKLIFT SOLUTION

The **STACKER** is an AMR that can operate both autonomously and in a collaborative mode. It can smartly track operators, in a patented "follow-me" mode, across a variety of applications. The robot can also autonomously dispatch to programmed destinations, moving pallets along its route.

ENHANCED PRODUCTIVITY

The **STACKER** is able to perform an infinite number of tasks as directed by the operator. Through the autonomous movement of material, companies can save significant time and money with this versatile robot supporting several tasks at once.

AT A GLANCE:

Load capacity:	2,860 lbs
Capacity at height (2.9m):	2,645 lbs
Pole type:	Duplex
Length:	92.13 in
Width:	44.1 in
Total Height:	84.64 in
Total height forks up to:	115.7 in
Forks size:	4.5/6.3/1.97 in
Control:	Movement and elevation electronic variator
Steering:	Electric
Equipment:	Timer, indicators, discharge limiter
Floor flatness:	Floor defects up to .32 in
Operating temperature:	+41°/ 77°F
Protection index:	IP20
Maximum speed:	3.7 miles/hour in a straight line, the robot adapts its speed according to its environment

See reverse for STACKER safety features

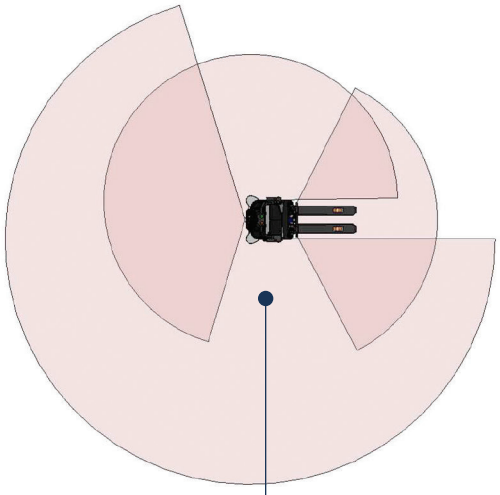
*To learn more, or to schedule a **free site automation evaluation**, please contact:*
*Tom Trudell, **trudell@am-ind.com** or Ed Olexa, **eolexa@am-ind.com***

BUILD A SAFER, MORE SUSTAINABLE OPERATION

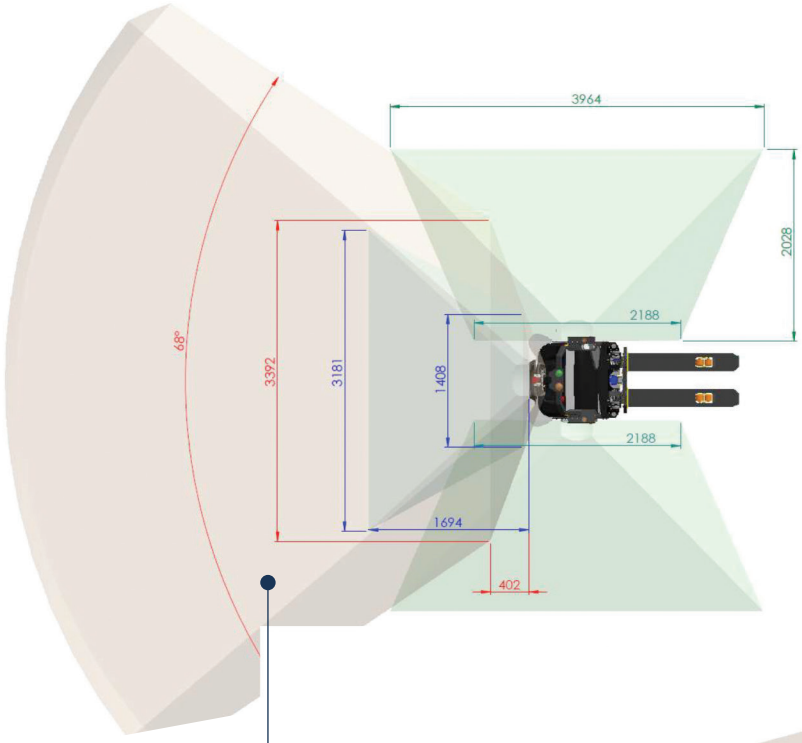
The Effidence Fleet Management System allows for a safe working environment. While staff perform value-added tasks such as assembling pallets, robots take care of heavier, difficult, and time-consuming tasks to relieve them. The robot is equipped with numerous sensors and LIDARS, which allow for obstacle avoidance through 360° monitoring. The emergency shutdown system and emergency brakes further enhance the safety features of the robot.

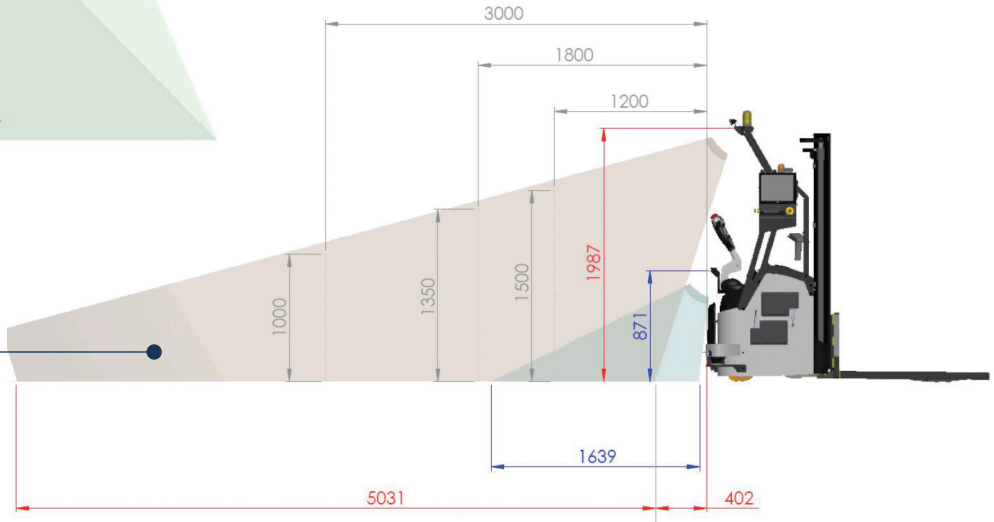
INNOVATIVE SAFETY FEATURES:

- 2 LIDAR with a 360-degree angle of detection to allow the stacker navigation and obstacle avoidance.
- 3D cameras to detect high or very low obstacles such as forks from other vehicles.
- Rangefinder sensors to secure the stacker' sideways to the end of the forks.
- A sensor at the front to allow the pallet to be manipulated.



LIDAR DETECTION AREA (above):
Vehicles are equipped with the most robust and efficient navigation system and a set of sensors that analyze the full surroundings.





SAFETY DETECTION AREA (above & right):
The location is based mainly on the natural environment and can also be artificially reinforced in open areas –the navigation system allows a speed of up to 3.7 miles/hour.

NOTE: Drawing units are metric.

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