VITA™ INDUSTRIAL

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Our Mission

To eliminate preventable deaths and accidents in the industrial/construction and aerospace industries through modern technology solutions.

VITA™ INDUSTRIAL

VITA™ INDUSTRIAL TRAINING ACADEMY

The Problem

Controlling Loads Unsafe & Inefficient

Spinning loads cause delays, reworks, & claims

25.4% of all USA crane accidents are caused by spinning loads

$15 Billion in annual costs from those accidents

25 preventable deaths every year

The Solution

- **Safer**
  Protect The Worker
- **Faster**
  Protect The Schedule
- **Smarter**
  Be Productive

Vita Load Navigator (VLN)

Safer:

Protect The Worker

- Keeping workers out of the danger zone
  - Currently - To Close or Under
  - Currently - Need To Reach Over Ledges
- 150lbs person vs 80,000lbs load
- Leverage wireless remote-control operation that keeps workers out of the drop/danger zone –up to 600ft away
- 63.1% reduction in crane related accidents, injuries, as well as reduce property damage

Faster:

Protect The Schedule

- Smart continuous control automatically prevents loads from spinning
- Reduce downtime from height or weather
  - Reduce impact of wind gusts on loads
  - Reduce slow downs on windy days
- Lift and drop safely in tightest environments
  - Reduce claims
- Optimize site performance
- 30% increase daily production

Smarter:

Be Productive

- Record precise lift positions and simplify repetitive lifts with the touch of a button
- Experience up to a 50% increase in productivity with memory functionality that guides loads to preset coordinates
- Always keeping your people away from the loads

The Solution

- **Four independent thrusters** spin up to 14,000 rpm in under a second
- Holding loads within **1° of deviation** in the most challenging conditions
- Configured to work with **all types of cranes**
- Lift and control **loads up to 80,000 lbs (40t)**
- **Rechargeable Batteries** working all day to keep your loads stable
- **Quick & simple** to use

Vita Load Navigator (VLN)

Added Bonus:

Upskill Opportunities

Onboarding is quick and easy
(online or in-person)

- Upgrade worker skills with state-of-the-art technology without sacrificing downtime for training.
- Attract new workers with the use of modern technology on your sites

Link to YouTube Demo Video:
https://www.youtube.com/watch?v=e4EF_GcV-BE

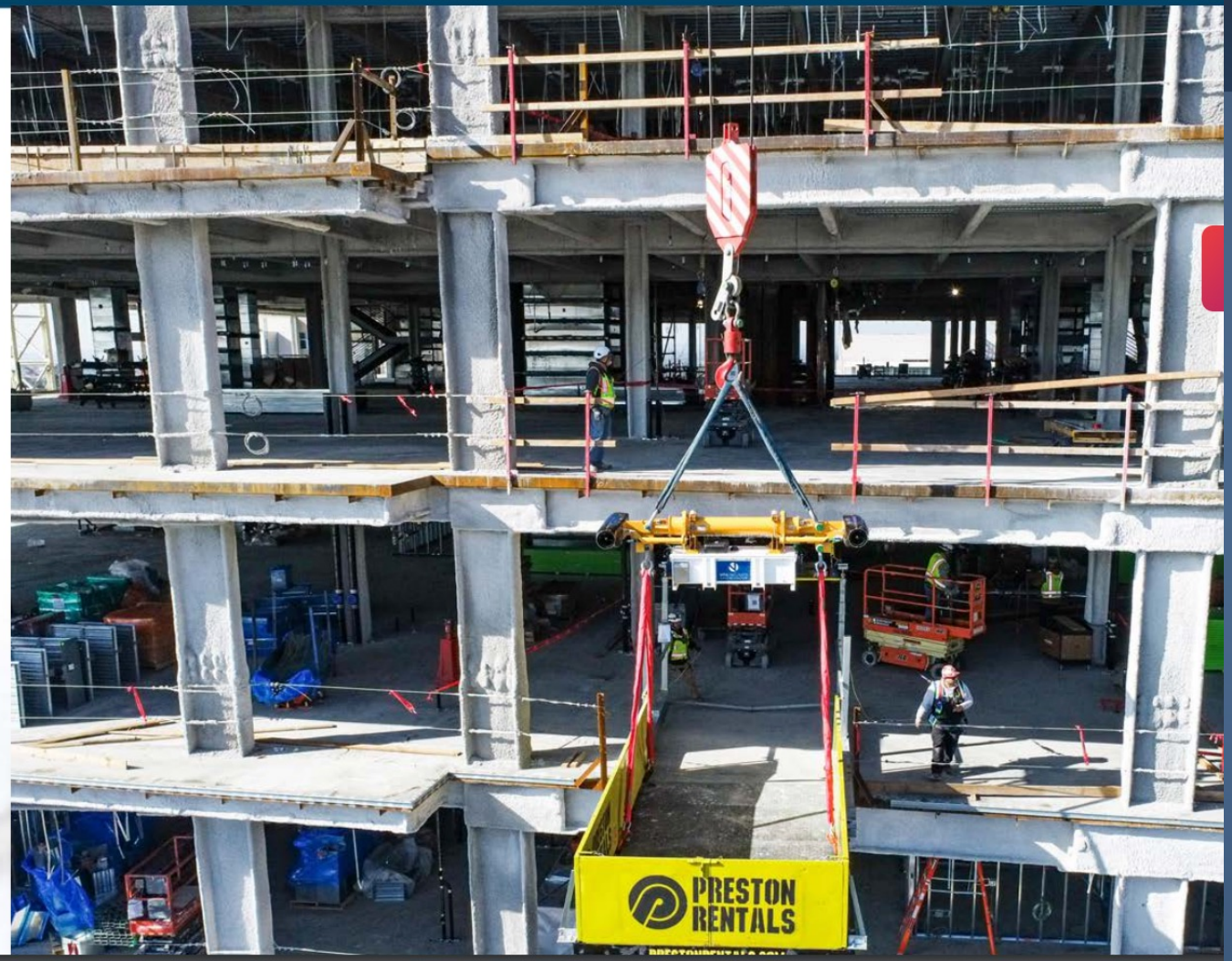
Pilot Results

ENR FutureTech
CONSTRUCTION'S LEADING TECHNOLOGY FORUM

Pilot achieved its success criteria

0 noise complaints,
0 incidents,
no negative impacts to crane operations

Highlight: the metal panel trade partner went from 3 overtime shifts per week to zero using the Vita system and significantly decreased their tagline risk exposure



Safety through-out the pick:

100ft+ taglines are no longer needed to control panels, no need to jump them over the project

Panels arrived facing the building, reducing the time to place and install

Pre-VLN = 10hrs/day **With VLN = 7hrs/day** **Savings = 3hrs/day**


Project
Existing
Garage

Summary of recommendation

I do recommend the use of the robot Vita Load Navigator

- Improving efficiency and productivity of the crane operations
- Reduction in accidents and injuries
- Better schedule management

What is the main motivation, challenge, or need for the contractor to apply the robot?

The elimination of the risks of lifting operation as the manual process consists of walking the tagline around the building, and time-saving because with the robot less time is spent on stabilizing the load, and the impact of external factors is remarkably mitigated

What is the main motivation, challenge, or need from the robot company to develop this product?

Creation of a positive impact on the workers through the prevention of industrial injuries

List the 3 main insights you got from the evaluation:

- ❑ Safety and efficiency could predominate cost metric.
- ❑ Leasing and purchasing options should be considered based on the number of projects.
- ❑ Insurance is one of the determining factors.

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VLN – Standard Models

Model Specifications	VLN Model 40T-7	VLN Model 40T-11	VLN Model 40T-15
Spreader Bar Length	7 ft 213 cm	11 ft 335 cm	15 ft 457 cm
Size (L x W x H)	In: 131 x 46 x 37 Cm: 307 x 117 x 94	In: 179 x 46 x 37 Cm: 432 x 117 x 94	In: 227 x 46 x 37 Cm: 559 x 117 x 94
Weight	1,770 lbs 800 kgs	2,125 lbs 965 kgs	2,310 lbs 1,050 kgs
Nominal Inertia Rating ($kg*m^2$)	130,000	175,000	200,000
Available Torque	500 (ft*lbs) 678 (nm)	700 (ft*lbs) 949 (nm)	800 (ft*lbs) 1,085 (nm)

Vita Load Navigator (VLN)

The Details