



Air. Pure and Simple.  
ON-Lift

# Globally Patented Air Powered Landing Gear and Rear Stabilizer Automation

The World's Exclusive Answer to 21<sup>st</sup> Century Transportation

Air. Pure and Simple<sup>TM</sup>

## ***PRODUCTS***

**ON-LIFT:**    **Model 2000**    Capable of raising and lowering landing gear in less than 10 seconds.

Capable of lifting up a 60,000# trailer.

48.5 ft/lb torque    RPM = 220

**Model 2000HD**    Capable of lifting up a 100,000# trailer

106 ft/lb torque    RPM = 160

**ON-LOAD:**    Rear Trailer Stabilizer

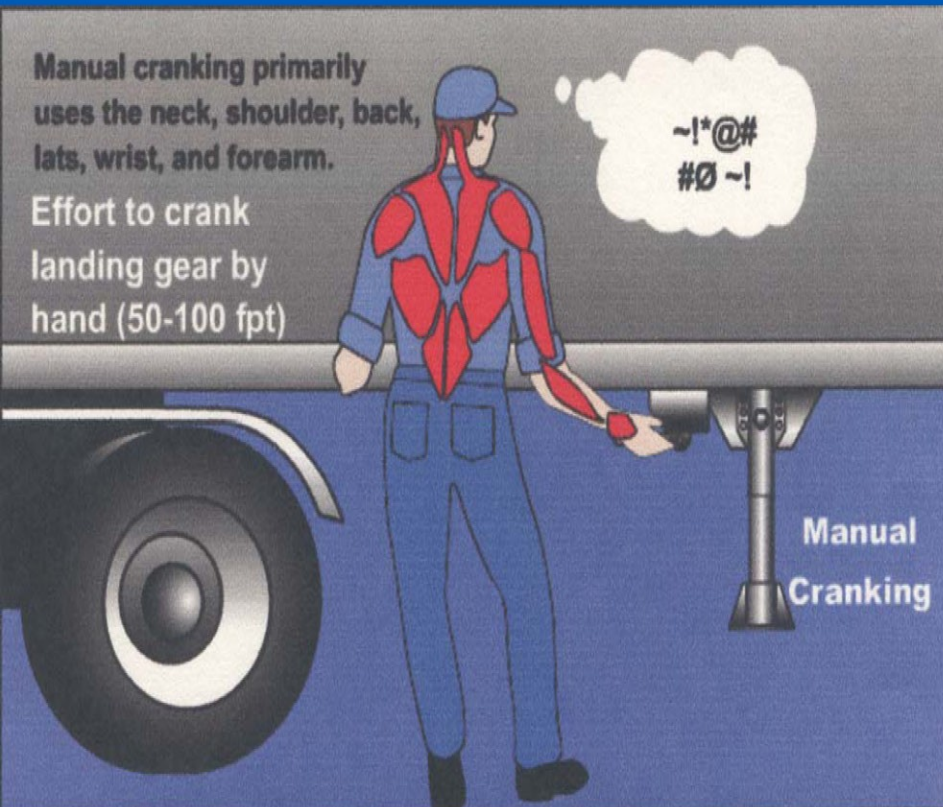
This is the same as On-Lift but the landing gear is placed in the rear of the trailer.

This basically eliminates dock squat, where the trailer drops below the level of the Dock.

This becomes a critical issue for fork lift maneuvering and other operational tasks, especially as many current air suspension systems settle the level of the trailer several inches under the dock after the tractor is shut down.

# Manual Cranking vs. ON-Lift

## Manual

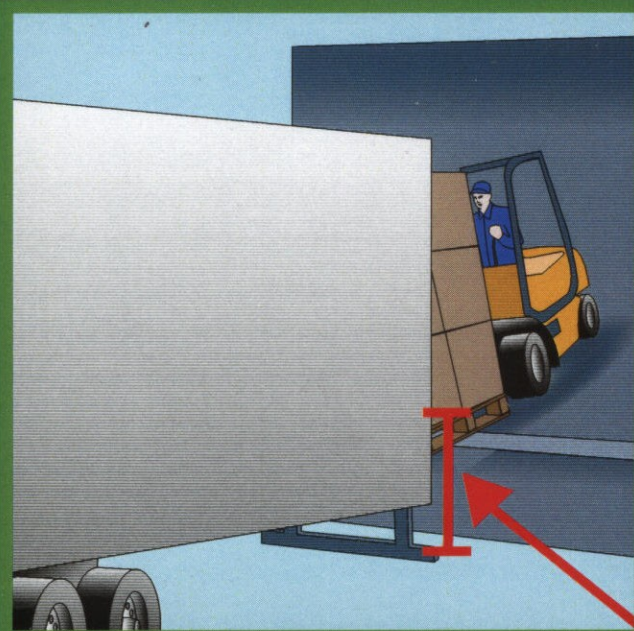


## ON-Lift



# ON-Load

Without OnLoad™



Maximum risk of injury to forklift driver  
without OnLoad™

With OnLoad™



With OnLoad™ deployed, rear end of trailer  
flush with dock allow forklift on and off freely

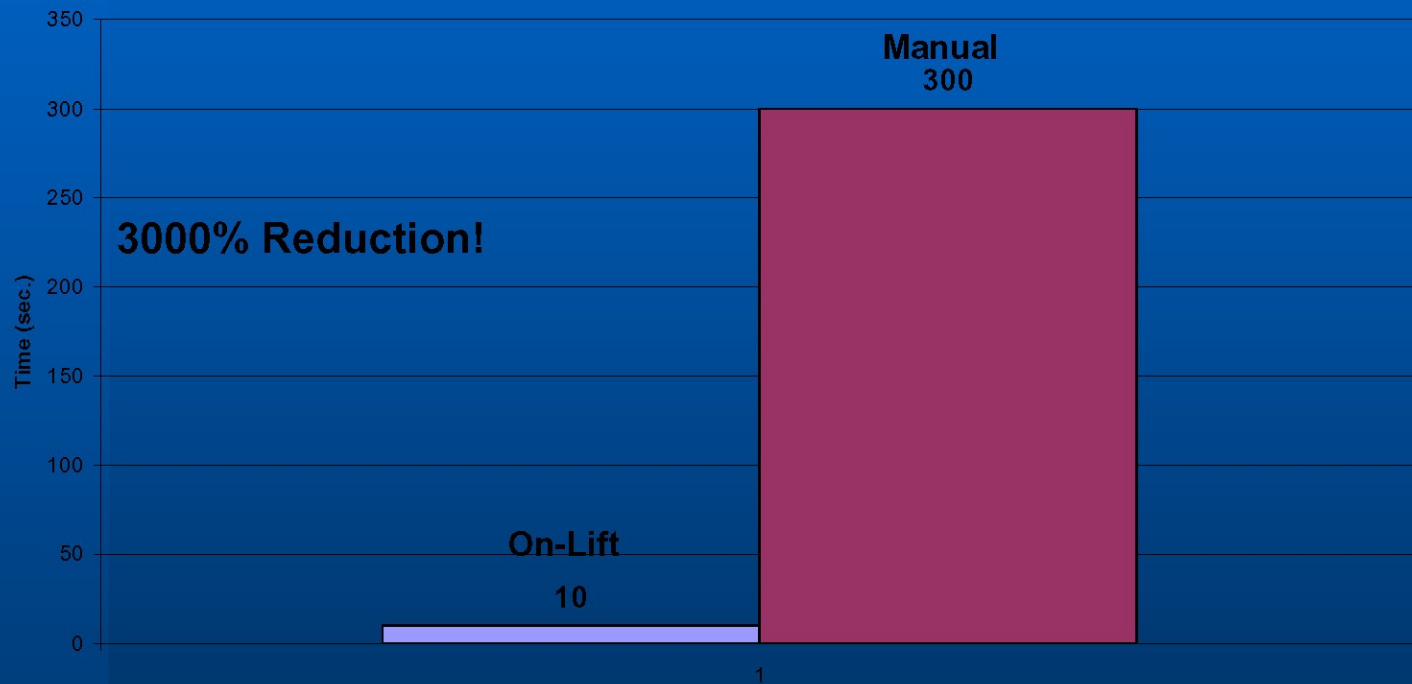


# PATRIOT LIFT CORPORATE AND MANUFACTURING ST. CROIX, USVI



## *Patriot Lift Product Performance Graphs*

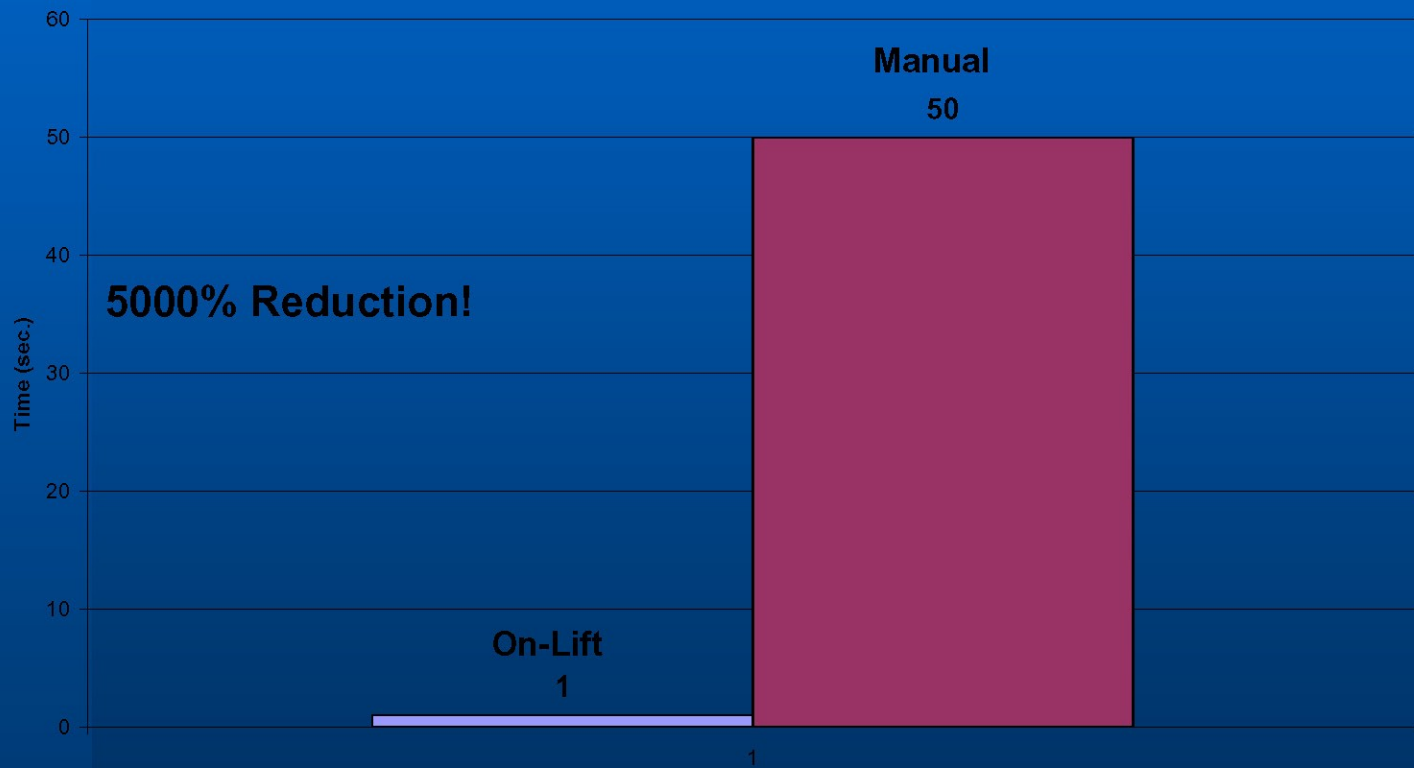
### On-Lift Reduction In Timing (sec.)



Based on typical time of 10 seconds for a raise/lower cycle in high gear using On-Lift vs. 5 minutes of manual cranking, On-Lift can save 5 minutes or more per use.

## *Patriot Lift Product Performance Graphs*

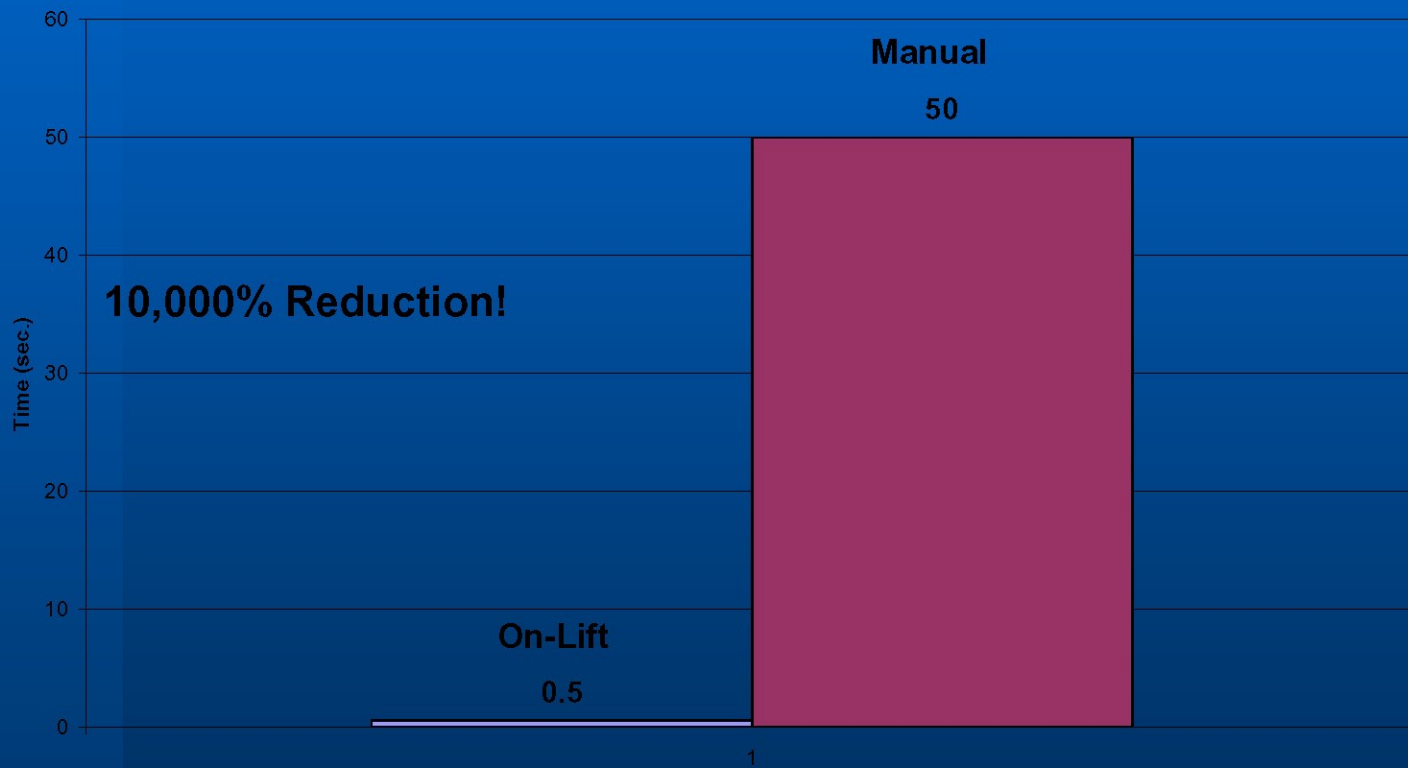
### **On-Lift Reduction In Repetitive Cranking (times)**



**On-Lift eliminates repetitive cranking of landing gear.**

## *Patriot Lift Product Performance Graphs*

### **On-Lift Reduction In Max. Manual Effort (ft-lbs)**



**On-Lift eliminates manual effort of cranking landing gear.**

## ***Landing Gear Automation Safety Deliverables***

- Reduces torque drivers are subjected to in to raising or lowering landing gear from 100 ft. lbs. to ½ ft. lbs. (a 200 magnitude reduction).
- Eliminates up to 50 repetitive high torque manual cranks of the landing gear.
- Eliminates manual repetitive cranking in tight locations and awkward positions.
- Eliminates musculoskeletal injuries due to repetitive cranking.
- Eliminates strains due to repetitive cranking.
- Enables all drives regardless of Age, Sex, or Physical Handicap to perform the raising and lowering of the landing gear operation.
- Eliminates serious impact injuries due to crank recoil.
- Virtually eliminates injuries due to Dock Walk/Squat.
- Creates a safe working environment for the operation of raising and lowering of the landing gear.

## ***Fleet Benefits***

### ***Patriot Lift Company Pneumatic Landing Gear Automation***

- 1) Potential revenue increase of \$1 million per year or greater per 100 trailers.
- 2) Significant reduction in equipment damage.
  - Landing gear damage is virtually eliminated
  - Significant reduction in 5<sup>th</sup> wheel damage as well as other trailer components
- 3) Potential significant reduction in worker's compensation and other insurance costs.
  - Virtually eliminates strains and muscular skeletal injuries caused by repetitive cranking of landing gear with forces up to 100 ft.-lbs.
  - Per OSHA injuries of this type average \$17,000 per occurrence
- 4) Improves employee hiring and retention.
  - Provides a safer work environment for employees.
  - Supports EEO hiring since the operation can be performed regardless of age, sex, race or physical handicap.
  - Reduces incentive costs for recruiting new drivers.
  - Reduces retiring attrition due to physical restriction/handicap.
  - Provides workers with an improved work environment due to physical demand.
  - Improves employee morale - PRICELESS
- 5) Parking efficiency.
  - Improves the efficiency of parking trailers by 20%.
  - Park 5 trailers in the space originally for 4.

## ***Fleet Benefits***

### ***Patriot Lift Company Pneumatic Landing Gear Automation***

- 6) Security enhancement.
  - The potential interface with various GPS tracking systems enables the landing gear to work only with the dispatcher enabler thus virtually eliminating the driver picking up the incorrect trailer.
  - The system also inhibits the theft of the trailer since the landing gear is inoperable without the proper enabler.
- 7) Virtually no maintenance.
  - The air power is delivered from the Emergency Brake System so that no other auxiliary power is required.
  - The motors have been tested to over 30,000 cycles under load with no failures. That is equivalent to 20 years usage with significant drops and hooks per day.
  - The units will operate well in severe weather conditions at both significant high and low temperatures.
- 8) Price opportunities.
  - Volume discounts are available.
  - Lease costs are under \$8 per week.
- 9) Tax stimulus incentives.

# **FLEET INCREASE REVENUE- PATRIOT LIFT AUTOMATION**

INCREASED REVENUE based on our savings calculator for productivity <http://www.onlift.com/roicalculators.php>

## **ASSUMPTIONS**

Fleet Size = 100 Trailers

Average revenue per trailer = \$100,000\*\*\*

	<b><u>ADDITIONAL REVENUE*</u></b>	<b><u>POSITIVE CASH FLOW**</u></b>
2 Drop & Hooks / Day	\$416,000/year	\$371,000 / year
5 Drop & Hooks / Day	\$1,040,000 / year	\$995,000 / year

\* Potential additional annual revenue with the purchase of 100 units.

The Purchase cost for 100 units is \$180k

\*\* Positive cash flow = Additional annual revenue minus annual lease cost.

Estimated lease cost is \$450 per year per unit.

\*\*\*"For planning purposes the average revenue per trailer is over \$12,000/ month or \$150,000/year". TBA Transportation Business Associates

Our site offers the calculation option of from \$75,000 to \$300,000.

## **Addition to the potential positive cash flow**

Additional benefits of Equipment damage reduction, Parking efficiency, Safety & Worker's compensation improvements, Improved Hiring & Retention, Improve Trailer Security as well as an improvement in quality of work life for Drivers.

## ***Patriot Lift Co.***

The time is right for Fleets to start investment with our innovative automation technology in the trucking industry.

As the economy starts to turn we believe those fleets that jump on operational improvement will be the long term winners.

Best in Class Companies will want to run lean on employees, and this technology enables the fleets to get significantly more output per employee.

This can be accomplished without adding additional employees or purchasing new trailers.

We would find it hard pressed that any best in class fleets would not want to receive all or most of these benefits.

This also qualifies for Tax Stimulus Incentives.

This automation will be a paradigm shift for the industry.