



EASILY INSTALLS ON  
ANY VEHICLE



RUGGED CONSTRUCTION FOR  
HARSH AREAS



BUILT-IN  
SAFETY CHECKS



WORKS WITHOUT RF  
CONNECTIVITY



# Industrial Product Catalog

Improve safety. Increase productivity. Reduce costs.









# Power Up Your Fleet

Improve material handling safety, increase vehicle and operator productivity, and reduce fleet costs with Powerfleet. Power up your industrial vehicles with advanced technology devices, powerful cloud-based software, and the industry's most data-rich analytics platform.

We pioneered the use of wireless technology to control, track, and manage forklift fleets of all shapes and sizes. For decades, we have been at the forefront of global innovation to deliver world-class lift truck fleet management solutions.

## **Intelligent Analytics**

Powerfleet integrates the largest, richest database of its kind, encompassing millions of forklift activity data points from every kind of material handling activity, in every type of facility, across all industries.

## **Regulatory Compliance**

Ensure regulatory compliance with OSHA by using our electronic checklist completion before vehicles can operate. Manage access control with an existing employee ID badge to ensure driver training and accountability.

## **Beyond Telematics**

We offer a broad portfolio of forklift management products, including access control, camera systems, speed control, forklift scales, pedestrian safety, anti-theft, and driver ergonomics.

## **Leaders Chose Us**

We serve thousands of customers across industries such as automakers, forklift OEMs, CPG companies, food producers, industrial conglomerates, heavy equipment manufacturers, retailers, and government institutions.

# Why Powerfleet?

Powerfleet delivers the intelligence you need to make better decisions and stay connected to your assets.

- More than 25 years' experience in telematics globally.
- 8,000+ companies have selected Powerfleet for their IoT needs.
- Organizational financial strength and stability.
- Seamless integration with robust developer toolsets.
- Repeatable standardized series of APIs.
- Our platforms are highly configurable.
- Robust analytics with customizable reporting.
- White glove service with a dedicated team to help take the stress off you and enable you to focus on what matters.
- We provide comprehensive technology solutions and innovative safety products for the Industrial Truck/Material Handling markets world-wide.
- We provide product and installation training so that you can be fully prepared to answer your customer's questions.
- We provide solutions that work, add significant value and improve safety for your customers.
- You'll be supported with our best in class help desk and support.
- Powerfleet University provides free technical and installation training for your technicians.









# Managing Access




Powerfleet for Industrial has a telematics solution for every sized powered industrial truck fleet. We ensure that your operations are compliant, efficient, and cost effective with electronic record keeping and safety checklists to maintain regulatory compliance and automate your business, central recording, report management and robust graphing.

Our solutions allow site managers of all fleet sizes to ensure that only certified operators are using their equipment, when they have completed required safety inspections, and how their equipment is operated to reap the savings of safer, OSHA compliant, and highly productive industrial truck operations.

Our systems are designed for user simplicity with powerfully comprehensive analytics that deliver total visibility and management, with control and views that can be tailored to any fleet's specific needs. Customizable options are available, including impact detection and control parameters, lists of all new vehicle operators for training and oversight, display sensors and triggers for events such as seat and seatbelt switches, oil sensors and timeouts, and much more.



# Solutions Overview

	Powerfleet® Essence	Powerfleet® Expert	Powerfleet® Enterprise
Access Control	✓	✓	✓
Electronic Safety Checklist	✓	✓	✓
Impact Sensing	✓	✓	✓
Predictive Maintenance	✓	✓	✓
Reporting and Analyzing Methods	Basic	Extended	Versatile, Scalable, Ingenious
Data Communication			
Management Software	Control Center (iOS)	INFOMATICS	VisionPro®
System Integration		✓	✓
Productivity		✓	✓
Tracking			✓
Business Intelligence Tool, Incl. Data Integration			✓



# Powerfleet Enterprise

Real-Time. Real Fixes.  
Real Cost Savings.

Built upon 25+ years of industry experience, cutting-edge engineering details, and hundreds of lessons learned from the world's best supply chains.

Powerfleet® Enterprise combines an advanced hardware device, powerful online software, and the industry's most data-rich analytics platform. Get an intelligent, wireless computer that combines critical safety controls with insightful data collection on the performance of both vehicle and operator.



## Features and Benefits

- Simple dashboards for fleet and system status at a glance
- Automatic exception reporting for data you need, when you need it
- Integrated tools for instant access to user help, training, and support
- Advanced data search, sorting, filtering, and graphing functions for flexibility
- Accessible anywhere, anytime, from any device—smartphone, tablet, desktop

## Popular Options

- Powerfleet IQ™ data analytics
- Real-time vehicle location visibility
- "Breadcrumb trail" playback of travel paths Integration with Google Maps™ for outdoor applications
- Integration with WMS, ERP and maintenance software systems



# VAC4S

The VAC4S and Powerfleet Enterprise provide wireless, automated control & monitoring of industrial vehicles. Powerfleet Enterprise empowers companies to effectively manage, track, monitor, and control their powered industrial vehicles and the operators who use them. It helps improve material handling productivity, reduce costs, and increase visibility by establishing accountability for the use of forklifts and other industrial trucks, ensuring equipment is in the proper place at the right time, streamlining work flow, and measuring vehicle utilization.

Powerfleet Enterprise reduces fleet maintenance costs by automatically monitoring vehicle status, reporting equipment problems electronically, scheduling maintenance according to actual vehicle usage rather than by calendar or manual data entry, and helping determine the optimal economic time to replace equipment. Powerfleet Enterprise and the VAC4S help improve workplace safety and security by restricting vehicle access to trained, authorized operators, enforcing electronic safety inspection checklists, and sensing vehicle impacts.

## Features

- Integrated micro-computer with highly configurable firmware to accommodate any wireless communication needs
- Installs on virtually any industrial vehicle (forklifts, tow tractors, etc.)
- Rugged construction withstands harsh environmental conditions
- All components (antennae, card reader, etc.) protected inside the VAC
- Supports a variety of access control options to accommodate existing facility credentials (proximity card, iButton, keypad, etc.)
- Provides electronic safety checklists via built-in display and 20-key keypad
- Automatically records & uploads/downloads key vehicle/operator data
- Wide range of optional sensors (GPS, impact, speed/distance, loaded/unloaded, etc.)
- Performs functions at all times: constant wireless connectivity not required

## Problems Solved

**Unproductive Operators:** Movement and load tracking

**OSHA Compliance:** Automated, configurable and multi-lingual safety checklists

**Forklift Damage:** Impact management and automated alerts

**Unauthorized Operators:** RFID card or numeric code required for access

**Visibility of Assets:** Near real-time location of all assets displayed on map



SPECIFICATIONS/CERTIFICATIONS	
Dimensions	4 7/8" x 5 3/4" x 2" (124 x 146 x 51 mm)
Weight	1.3 lbs (0.6 kg)
Operating Temperature Range	-40° to +85° C (No display below -27° C)
Operating Humidity Range	95% RH, Non-condensing (MIL-STD-810F)
Weather Resistance	IP67, meets NEMA 6 (ANSI/IEC 60529)
Vibration	12.6 G RMS random vibration (MIL-STD-810F)
Shock	20 G and 40 G, 11 msec sawtooth pulse (MIL-STD-810F)
Bump	20 G, 6 msec for 15,000 cycles
Input Voltage	Works on any vehicle with batteries from 9–100 VDC
Wireless	802.11b/g/n, 2.4 + 5GHz Open, WEP-64, WEP-128, WPA-PSK (TKIP), WPA2-PSK (AES), WPA-EM (PEAP-MSCHAPv2), WPA2-EM (PEAP-MSCHAPv2), SHA-256
Power Consumption	100-280mA [10-40mA] (lower power mode won't drain battery) Back-up Battery Life: 10 years typical
Memory	4MB x 16 RAM, 2MB x 16 Flash
Clock	Real-time
Display	Back-lit, graphical monochrome LCD; 4 LED indicators visible up to 100 ft (30 m)
I/O Interfaces	Access Control Reader: Embedded options (proximity, iButton, Indala, etc.)
	9 analog inputs, 2 digital inputs, 1 analog output, 1 serial port input/output





# APIs

## Enterprise Reporting

**Telematics application program interfaces for flexible integrations.**

Powerfleet Enterprise APIs were designed to help our customers and partners develop integrations with Powerfleet industrial solutions for robust and aggregated reporting. They are a collection of data exchange end points that allow Powerfleet customers to send data to and receive data from Powerfleet in a standardized, repeatable, and reliable process. These exchanges are frequently used to simplify administration for customers who have other enterprise applications or to pull data into their customers' analytics platforms.

### Benefits

- Standardized series of APIs created
- Provides developer toolset — reduces time and effort of the technical developer teams
- Enables more data points to be shared
- Supports future planning for additional data points

### Features

- REST design with JSON-encoded responses
- OAuth2 authentication
- Acknowledgment process to prevent data duplication
- Automated monitoring and diagnostics
- Scalable data sets in easy-to-use end points

### Problems Solved



Eliminate duplicate data entry



Automate maintenance work order creation



Combine telematics data and other data sources in a single data lake



Enterprise-wide analytics, configurable dashboards



# Powerfleet Expert

## Helping Create a Highly Performing Culture of Safety.

Quickly and accurately monitor utilization, productivity, damage, and safety compliance to find problem areas and identify potential solutions.

Powerfleet Expert provides intelligent fleet management solutions that deliver complete regulatory compliance, automated safety, and security, a low total cost of ownership, and comprehensive fleet visibility and management. Easy to install, use, and maintain, electronic record keeping, and safety checklists, leverages your Wi-Fi networks, and ensures that your fleet operations are compliant, efficient, and cost effective.



### Low Cost of Ownership

Powerfleet Expert is affordable, easy to install solution that supports Wi-Fi infrastructure (2.4 & 5 GHz) combined with Infomatics.

### Regulatory Compliance

Powerfleet Expert automates the recording of key data to provide proof of compliance with regulatory statutes and mandates.

### Full Automation

Powerfleet Expert automates record keeping and leverages the latest technology to ensure safe operations and prevent unauthorized usage.

### Visibility and Management

Powerfleet Expert delivers total visibility and management, with control and views that can be tailored to sites or departments.



## Powerfleet EXPERT HARDWARE:

# LCD601

The LCD 601 and Powerfleet Expert offers a comprehensive forklift fleet management system to achieve optimization across your operations. This comprehensive telematics solution tracks and reports on vehicle and operator utilization and data to increase productivity across your operations. With the LCD 601 and Powerfleet Expert, you can effectively simplify asset maintenance management, optimize labor resources and turn actionable data into results to reduce costs, efficiently maintain OSHA compliance with intuitive automated checklists, decrease damage with forklift impact and speed sensors, and beat the bottom line.

## Features

- Comprehensive data collection for in-depth analysis through Powerfleet Infomatics software
- Provides electronic safety checklists via built-in color display
- Rugged construction withstands harsh environmental conditions
- Easily installs on virtually any industrial vehicle (forklifts, tow tractors, etc.)
- Optional sensor connections (impact, speed, seat belt, seat switch, load sensor, fault sensor)
- Device starts and turns on ignition and starter via relays (numeric code or RFID card)
- Language support for English, Spanish

## Problems Solved

**Unproductive Operators:** Movement and load tracking

**OSHA Compliance:** Automated, configurable and multi-lingual safety checklists

**Forklift Damage:** Impact management and automated alerts

**Unauthorized Operators:** RFID card or numeric code required for access



## SPECIFICATIONS/CERTIFICATIONS

Supply voltage	12VDC (converter required for 24, 36, 48, 80VDC)
Standby current	350mA with radio on, 40mA when "asleep"
Temperature range	-40 - 167F (-40 - 85C)
Water immersion	IP -67 for weather extremes
Size	165mm x 95mm x 57mm (6.5" x 3.75" x 2.25")
Approval	ISO9000--CE--RoHS, UL
WiFi	802.11b/g/n, 2.4 + 5GHz
Max relay contact current	Configurable encryption open, WEP 64 and 128, WPA1-TKIP, WPA2-AES
Endurance tested for:	10A at 12 - 48 VDC
	High and low temp shock
	Overvoltage reliability
	High shock reliability
	Vibration reliability
	Condensation, salt spray reliability



## POWERFLEET EXPERT HARDWARE:

## OC55

The OC55 and the Powerfleet Expert system offer the basics of industrial truck fleet management to bolster your safety practices. It has been designed to ensure that pallet jacks, boom lifts, scissor lifts, sweeper/scrubber and other material handling equipment are used by authorized operators while meeting HSE regulation compliance.

All at an affordable price.

With the OC55 and Powerfleet Expert, you can simplify asset maintenance management, optimize labor resources and turn actionable data into results to reduce costs, efficiently maintain OSHA compliance with intuitive automated checklists, decrease damage, and drive a culture of safety that will reduce costs to beat the bottom line.

## Features

- Easily installs on any vehicle
- Built-in safety checks
- Comprehensive data collection for in-depth analysis through Powerfleet Infomatics software
- Provides electronic safety checklists via built-in color display
- Rugged construction withstands harsh environmental conditions
- Optional sensor connections (impact, seat belt, seat switch)
- Device starts and turns on ignition and starter via relays (numeric code or RFID card)
- Language support for English, Spanish, German, French

## Problems Solved

**OSHA Compliance:** Automated safety checklists

**Forklift Damage:** Impact sensing

**Unauthorized Operators:** RFID card or numeric code is required for access, know who is driving what, when and where



## SPECIFICATIONS/CERTIFICATIONS

Dimensions	4.07" x 3.52" x 1.83" (103.5 x 89.5 x 46.5 mm)
Operating Temperature Range	-40° to +80° C
Ingress Protection	IP67
Input Voltage	9 to 60 VDC (converter required for 80VDC)
Power Consumption	450mA (active mode), ~2mA (sleep mode)
Back-up Battery Life	5 years
Memory	1MB flash
Display Technology	Color TFT
Display Dimensions	3.75"H X 4"W X 2.35"D (92mm X 100mm X 55mm)
Status LEDs	1
I/O	Analog: 0/1 Digital: 3
Accelerometer	3 axis (reporting X and Y)
Regulatory Certifications	ISO9000, RoHS, CE, FCC Part 15
Wi-Fi	Configurable encryption: Open, WEP64 and 128, WPA1-TKIP, WPA2-AES
Antenna	Internal, ~150' RF Range
Max Relay Contact Current	10A @ 12-48 VDC

# OC59

The Powerfleet Expert OC59 is a cellular based solution that ensures site managers in warehouses, manufacturing, distribution, retail and construction/outdoor environments can have peace of mind knowing that only certified operators are using the equipment. Powerfleet OC59 ensures that the operator has completed the OSHA required safety inspection and that the equipment is being operated safely. The OC59 is designed for simplicity, from simple installation to intuitive use and management. It delivers powerful results without consuming your time.

## Features

- Easily installs on any vehicle
- LTE Cellular Auto Data Collection
- Uses cellular network communication for automated data collection in user application
- Rugged construction withstands harsh environmental conditions
- Enforces access control for authorized operators
- Improves impact management reporting with reduction in false alarms, background reporting, visual and audible alerts, truck shutdown and self-policing
- Automated notification and reporting of key vehicle/operator data
- Optional sensor connections (camera systems and seat belts)
- Device turns on ignition and starter via relays
- Language support for English, German, Spanish, and French

## Problems Solved

**OSHA Compliance:** Automated safety checklists

**Forklift Damage:** Impact sensing

**Unauthorized Operators:** RFID card or numeric code is required for access, know who is driving what, when and where

**No IT department:** No IT department needed and no Wi-Fi security concerns

**Not limited to indoor operations:** Cellular communications provides greater flexibility in operating environments

**Fleet utilization:** Right size your fleet and improve utilization

**Maintenance costs and scheduling:** Idle timeout by vehicle type reduces internal combustion truck planned maintenance /fuel use, emissions

**Location:** GPS reporting for location and rental billing reconciliation



SPECIFICATIONS/CERTIFICATIONS	
Dimensions	4.07" x 3.52" x 1.83" (103.5 x 89.5 x 46.5 mm)
Operating Temperature Range	-40° to +80° C
Ingress Protection	IP67
Input Voltage	9 to 60 VDC
Power Consumption	450mA (active mode), ~2mA (sleep mode)
Back-up Battery Life	5 years
Memory	1MB flash
Display Technology	Color TFT
Display Dimensions	3.75"H X 4"W X 2.35"D (92mm X 100mm X 55mm)
Display Resolution	320 x 240 pixels
Status LEDs	1
Keys (numeric)	5 (10/2); (other): Start / Stop (power on)
I/O	Analog: 0/1 Digital: 3
Accelerometer	3 axis (reporting X and Y) External Accelerometer Support
Regulatory Certifications	ISO9000, RoHS, CE, FCC Part 15 (BLE module only)
Antenna	Internal Approximate RF Range ~ 100' with external antenna



# Powerfleet Essence

No I.T. Department Needed.  
Now That Is Easy.

Easy to install out of the box, electronic record keeping and safety checklists, and no need for IT departments ensures that your operations are compliant, efficient, and cost effective.

Powerfleet Essence ensures site managers in warehouse, manufacturing, distribution, retail and construction environments with small fleets can have peace of mind knowing that only certified operators are using their equipment, when they have completed required safety inspections, and how their equipment is operated to reap the savings of safer industrial truck operations. Powerfleet Essence is designed for simplicity, from simple installation to intuitive use and management.

## Capture and Display

See all listed events as configured, all authorized operators for a vehicle, and the status of all active vehicles.

## Define

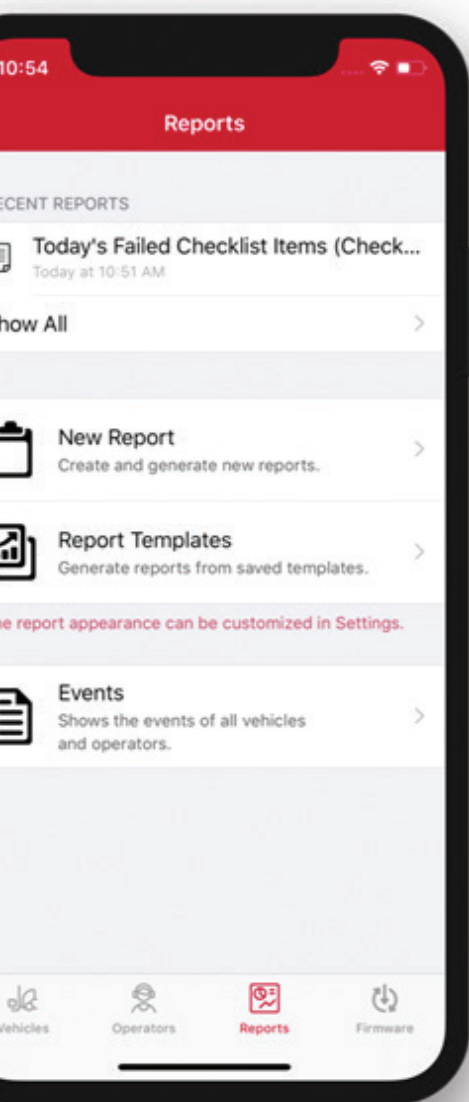
Define access control, impact, sensors, checklists, shifts, hour meters, maintenance and much more.

## Create

Create safety checklists, impact detection and control parameters, and list all new vehicle operators.

## Configure

Configure and display sensors and triggers for events such as seat and seatbelt switches, oil sensors and timeouts.



POWERFLEET ESSENCE HARDWARE:

OC53

The Powerfleet Essence OC53 ensures site managers in warehouse, manufacturing, distribution, retail and construction environments with small to mid-size fleets can have peace of mind knowing that only certified operators are using the equipment, the operator has completed the OSHA required safety inspection and that the equipment is being operated safely. Powerfleet Essence is designed for simplicity, from simple installation to intuitive use and management. It delivers powerful results without consuming your time.

Features

- Provides electronic safety checklists via built-in display
- Uses Bluetooth for local communications to iPad or iPhone and the Powerfleet Control Center application with automated data collection from your nearby (<100 feet) fleet
- Rugged construction withstands harsh environmental conditions
- Easily installs on virtually any industrial vehicle (forklifts, tow tractors, etc.)
- Communication with the Powerfleet Control Center application works out-of-the-box
- Automatically records and uploads/downloads key vehicle/operator data
- Optional sensor connections (impact, seat belt, seat switch)
- Device starts and turns on ignition and starter via relays
- Language support for English, German, Spanish, and French provides easy comprehension and better adoption for operators

Problems Solved

**OSHA Compliance:** Automated safety checklists

**Forklift Damage:** Impact sensing

**Unauthorized Operators:** RFID card or numeric code is required for access

**No IT department:** No IT department needed and no Wi-Fi security concerns

**No Wi-Fi:** Bluetooth communications eliminates the IT security concerns.



ACCESS CONTROL

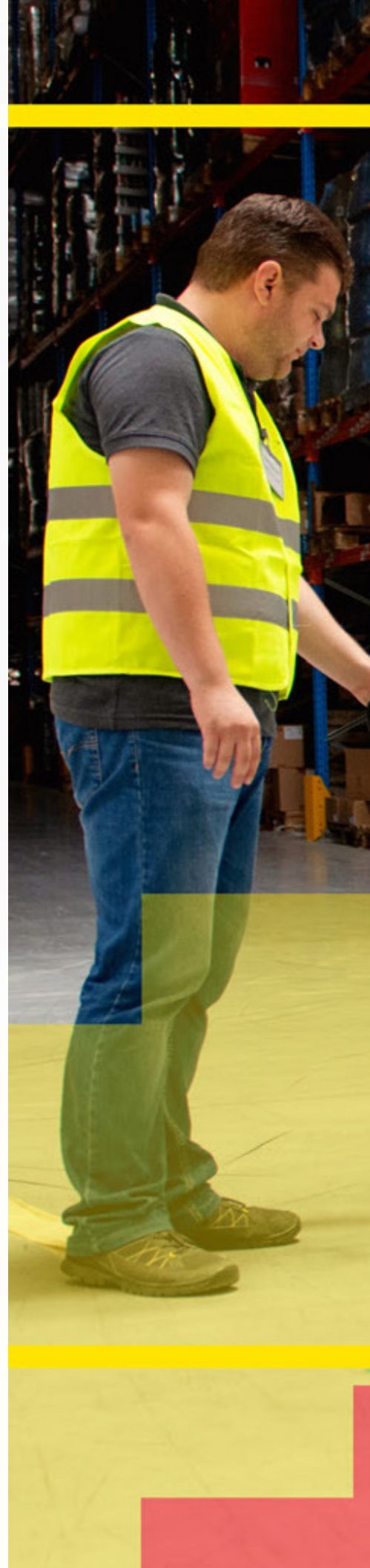
SPECIFICATIONS/CERTIFICATIONS	
Dimensions	4.07" x 3.52" x 1.83" (103.5 x 89.5 x 46.5 mm)
Operating Temperature Range	-40° to +80° C
Ingress Protection	IP67
Input Voltage	9 to 60 VDC
Power Consumption	450mA (active mode), ~2mA (sleep mode)
Back-up Battery Life	5 years
Memory	1MB flash
Display Technology	Color TFT
Display Dimensions	3.75"H X 4"W X 2.35"D (92mm X 100mm X 55mm)
Display Resolution	320 x 240 pixels
Status LEDs	1
Keys (numeric)	5 (10/2); (other): Start / Stop (power on)
I/O	Analog: 0/1 Digital: 3
Accelerometer	3 axis (reporting X and Y) External Accelerometer Support
Regulatory Certifications	ISO9000, RoHS, CE, FCC Part 15 (BLE module only)
Bluetooth	BLE v4.2
Antenna	Internal Approximate RF Range ~ 100' with external antenna



# A Culture of Safety

Powerfleet has been dedicated to securing the safety of forklift operators and pedestrians since our inception. Today, we are the only company that provides a full suite of safety and theft solutions for every sized powered industrial truck fleet and warehouse need — designed to withstand the toughest of applications.

Our systems secure fleets with camera systems to record what happened before, during and after (video and audio). We extend the lifespan of vehicles to reduce overhead costs with innovative solutions to prevent speed and abuse with state-of-the-art electronic throttles that cannot be tampered with by personnel. We employ seatbelt systems, rugged and precise weighing devices, comprehensive safety systems, anti-theft solutions, lift truck and overhead crane safety lights for pedestrian safety, and fan systems to keep operators cool and productive year-round — **all from the industry's most trusted brand.**









# Overview of Camera Systems

80% of forklift accidents involve a pedestrian.

A single forklift accident could cost your company \$180,000 or more.

Get better line of sight in material handling operations through video solutions. Improve operator training and coaching through reviewing video recordings and keep operators accountable. Increase operators' visibility to help prevent collisions and damage.

	SeeTroller	CP4 DVR System	VAI-100 Pedestrian Warning System
Augmented Driver View	✓	✓	✓
Display	7"	7"	7"
Image/Video Retrieval		SD Card WiFi 4G	SD Card WiFi
Low Light Operation	✓	✓	✓
Max. Camera Connections	4	4	3
DVR		Events Continuous Loop	Events
Telematics Event Integration		✓	✓
Image Blurring for Privacy		✓	✓
Object Identification AI			✓
Collision Warning			✓

# Pedestrian Warning System

## VAI-100

AI-enabled video pedestrian and vehicle warning system. Collisions caused by handling equipment, such as forklifts and lift trucks, are the second most common cause of freight damage and inventory loss. The VAI-100 Collision Avoidance System is an advanced artificial intelligence (AI) video solution designed to help prevent accidents and avoid damage for industrial vehicles such as forklifts. Material handling operators are expected to balance being highly productive while maintaining a safe working environment. This AI video solution notifies operators of potential hazards and imminent danger and help maintain a culture of safety at the worksite.

Two fully configurable field-of-view zones (red or yellow) for each camera warn of objects or people approaching hazardous areas and reduce nuisance trips around machines. Identifying potential risks without reliance on special apparel or wearable tags makes this solution universal and more reliable. This safety system can be used by drivers and pedestrians to avoid health and safety issues and by management to coach best practices with quantifiable analytics.

### Features

- No tags/apparel for recognition
- Image capture of events
- Automatically detects objects of interest (people, other industrial vehicles, stop signs, etc.)
- Dual zone option provides advanced warning and critical action based on proximity to the vehicle
- Activation based on direction of travel to avoid false positives
- Visual and audible driver notification of risk
- Integration with telematics solutions for vehicle control, mapping and analysis of events
- 120° field of view for up to 3 cameras
- Dust and tamper-resistant lens cover

### Problems Solved

**Collision Avoidance:** Warn drivers of collision risks before an incident occurs

**False Claims and Accusations:** Image capture of events if warnings are ignored

**Enhanced Training:** Event recordings for driver coaching on high-risk behavior and locations

**Safety and Accountability:** Reinforces safe operations and provides evidence of incident accountability



### SPECIFICATIONS/CERTIFICATIONS

Detection Range	120° field of view; 3 to 30 ft distance
LED Warning Lights	Red, yellow and green
Audible Alert	70-94 decibels @ 3 feet
Inputs	2 digital (5-30VDC), 1 USB, 1 ethernet 10/100/1000
Outputs	3 analog (12-30VDC, 5A), 1 HDMI
Input Power	9-24VDC (optional power converter for higher voltages)
Power Consumption	500mA (nominal), 2.5A (maximum)
Environmental Protection	IP65
Wi-Fi (option)	2.4GHz, 802.11 dual band; most security protocols supported
Operating Temperature	-20° to 50° C
Operating Humidity	up to 90% relative humidity, non-condensing
Size/Weight	11"x4.75"x4.25" (camera); 6 lbs each; I/O module
Regulatory Compliance	FCC Part 15, CE



# CP4 System

The CP4 is a DVR recorder system designed for the industrial truck market. It comes with up to 200 hours of video and audio recording storage and supports up to 4 cameras. Optional web-based software, cellular and WiFi connectivity options are available. Functioning of CP4 is second to none, as it records exactly what happened before, during and post incident. This powerful system can be used by management for keeping track of their operators, equipment usage, equipment location, precise checklist completion, impact force of an accident, damaged product, and verifying false accident claims. Time stamped video can also be used for increasing awareness for shift timing.



## Video Playback and Analysis

- Each DVR comes with PC analysis software
- Up to 200 hours of continuous video recording
- Google Earth export tool for advanced route tracking
- Save/print feature for event reports
- MP4 conversion tool
- Masking feature (blurring faces and vehicle numbers) can be enabled to keep the privacy intact

## Problems Solved

**False Claims and Accusations:** Live tracking of events (before, during and after event)

**Enhanced Training:** Training drivers with pre-recorded videos

**High Quality Night Recording:** IR vision weatherproof cameras

**Unauthorized Access:** DVR comes with a key locked vented box

**Safety and Accountability:** Reinforces the safe operations and provides evidence of incident accountability

## Features

- D1 video recording on all CH 1-3, D1 on CH 4.
- 128GB SD storage capacity, record up to 150 hours of footage on all 4 cameras
- Customizable video resolution and frame rate
- GPS records full-time data to provide accurate location, vehicle speed and date/time
- Google Maps integration for precise route tracking
- Driver activated events can be controlled through wired remote control and event record button
- Advanced search function with filters for time/date, event, vehicle speed
- Cameras are IP69K Waterproof rated
- Optional Web Based Software for notifications as well as quickly reviewing events without having to pull the SD Card; Cellular and Wi-Fi options are available

## CP4 SPECIFICATIONS/CERTIFICATIONS

Video In	CH1, Ch2: D1 camera in CH3: 12V D1 camera in CH4: 12V D1 camera in
Audio In	1 Ch (internal or external microphone)
AV Out	1 Video out, 1 Audio Out
Video Resolution	1080p HD (1920x1080), 720p (1280x720) D1 (NTSC: 720x380; PAL: 720x576)
Record Mode	Continuous, Event, Dual mode
Memory	SD Card: 128GB (FAT32)
GPS/GLONASS	External GPS/GLONASS
G-Sensor	Internal 3-axis G-sensor
Alarm In/Out	3x Alarm In, 2x Alarm Out
Remote Control	3x LED, Panic button, M1 & M2 Button
LED	Green LED (Network), Blue LED (Record), Red LED (Warning)
Power	DC 12V/24V 3A Input, 36W Max Consumption
Size/Weight	120mm x 28mm x 90mm / 166g
Operating Temperature	-10°C ~ 55°C

# Seetroller

SEETROLLER is a wireless rechargeable camera system for forklifts that provides operators with a variety of views around the lift truck to increase productivity and safety. This essential tool is extremely easy to install and operate.

The system can connect to the camera, mounted with a rechargeable battery pack, that can be placed on the carriage to view the fork position when the mast is extended, as well as anywhere else on the vehicle to ensure safety and lift precision. The camera is displayed with a split view on a single weatherproof 7" LCD screen.

## Features

- Wireless connectivity (no wires running up/down the forklift mast)
- Provides operators with additional visibility to increase both safety and productivity
- Provides exceptionally clear picture with 7" weatherproof CD display that connects to vehicle power
- Monitor has switchable view function (up to 4 views on display)
- Night Vision technology to ensure visibility in low light conditions
- Can be mounted anywhere on the forklift
- Quick installation to any make or model forklift

## Problems Solved

**Operator Safety:** Provides operators with additional visibility to increase both safety and productivity

**Difficult to See Pallet/Load Operation:** Provides operators with a clear view of the load and pallet

**Vehicle Damage:** Decreases abusive vehicle operation



## SEETROLLER SPECIFICATIONS/CERTIFICATIONS

### LCD Display

Display	7" digital TFT LCD color monitor with Sun Visor
Size	Digital technology (faster transmission rate)
Input Power	7.8" X 5" X 1.1" (199 X 128 X 28mm)
Resolution	10 - 32VDC (converter available 36 - 80V)
Shock Rating	800RGB (H) X 480 (V) dot
Wireless Cameras	10G vibration rating for tough applications
Sensor	1/3" 500TVL Color SHARP CMOS
Transmitter	Built-in 2.4GHz digital wireless transmitter, antenna
Waterproof	IP69K
Shockproof	10G Viewing angle: 130 degrees
Power	Rechargeable lithium ion battery
	Switchbox on/off remote from FOB signal

Size	SQUARE: 4.1" X 2.2" X 2.7" (104 X 57 X 60mm)
	METAL: 5" X 1" X 1.5" (127 X 24 X 36mm)

Endurance tested for:	High and low temp shock, Overvoltage reliability, High shock reliability Vibration reliability, Condensation, salt spray reliability
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# Forewarner MAXI

Honored by Plant Engineering's prestigious Product of the Year Award, FOREWARNER-MAXI ensures pedestrian safety under overhead cranes by projecting a solid blue or red tightly focused LED spot or line on the floor below an overhead crane hook location. In addition, it aids precise positioning for overhead crane operators.

## Features

- Prevents pedestrian accidents by alerting pedestrians to overhead crane hook location
- Increases overhead crane operator accuracy
- Highly mobile to ensure precision
- Powerful 24 LED projection
- Available in solid blue or red
- Waterproof, rugged design made to withstand harsh environments

## Problems Solved

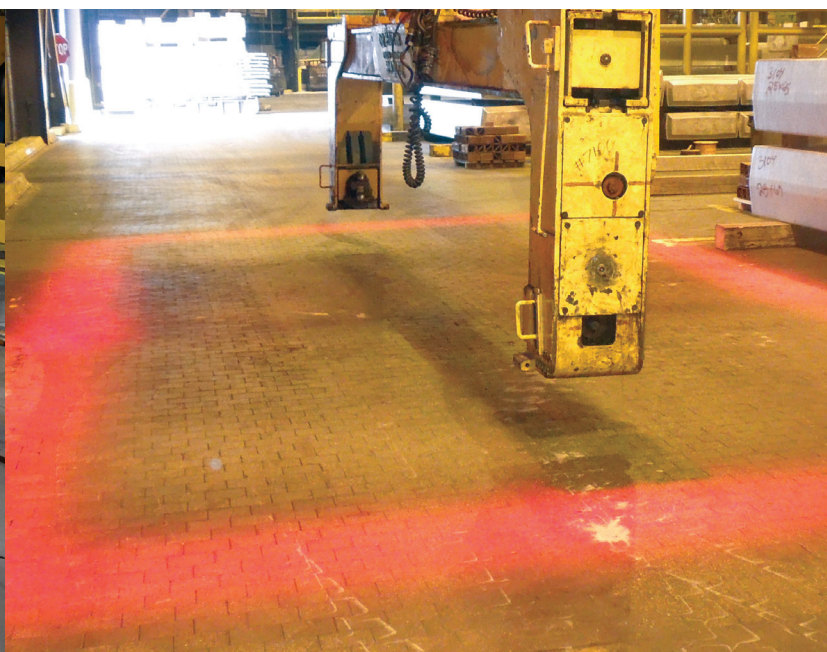
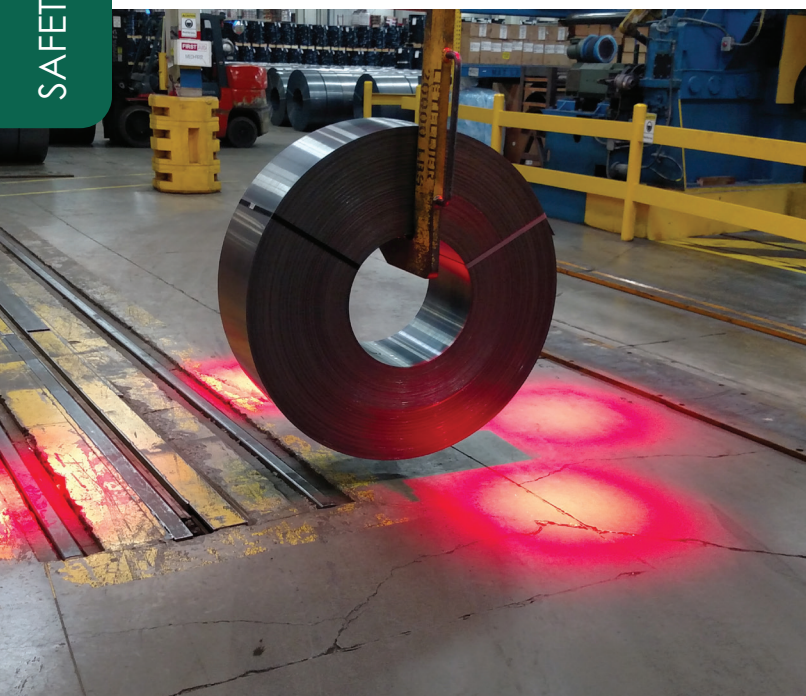
### **Pedestrian Safety Near Overhead Cranes:**

Alerts pedestrians/workers to location of overhead crane hook

### **Inaccurate Operation of Overhead Crane:**

Provides operators with a frame of reference for precise operation

**Ineffective Audible Alarms:** Visual warning to pedestrians in loud environments



## SPECIFICATIONS/CERTIFICATIONS

Power	120 Watts - 84 Watts, depending on LED color
Voltage	9-60V DC
Lumens	12000 lm 8400 lm
LEDs	24 (Cree LED)
Beam Type	Pencil beam
Size	9" X 3.9" X 9.2" (229 X 98 X 234mm)
Waterproof	IP67
Working temperature	-40~85°C
Material	Aluminum die-cast housing
Approval	ISO9000 CE RoHS
Packaging	Individually boxed with foam
Adjustable mounting bracket	150 degree up/down
Lifetime hours	up to 30,000 50,000 hours
Cable Length	23.3 meters (10')

# Forewarner

FOREWARNER promotes workplace safety by preventing dangerous pedestrian and vehicle collisions. Easily mounted to a forklift, it projects a bright spot on the floor's surface – alerting pedestrians and other vehicles in the area, regardless of ambient noise, to the nearby presence of the vehicle. As the forklift travels, a bright blue or red LED light glides across the floor about 15 feet ahead of or behind it (depending on the mounting location), letting pedestrians know that a forklift is approaching.

## Features

- Easy-to-install and maintenance-free
- Includes adjustable mounting bracket for precise positioning
- Equipped with 9 high-powered LED lights (6 or 10W) for Forewarner or Equipped with 2 high-powered LED lights (6 or 10 watts) for Forewarner Arrow
- Installs on any industrial vehicle (forklifts, tow tractors, etc.)
- Designed for indoor and outdoor use
- Available in blue or red

## Problems Solved

**Forklift Related Accidents:** Alerts pedestrians and other vehicles of forklifts approaching blind corners, cross aisles and exiting semi-trailers

**Noisy Environments:** Traditional audio alarms can blend into ambient noise in the building and pedestrians can become immune to the audio warning

SAFETY PRODUCTS



## SPECIFICATIONS/CERTIFICATIONS

FWN - 45W - LDS0041B (45 Watt Blue)

FWN - 27W - LDS0041R (27 Watt Red)

LED 9 Focused — CREE 45 Watt (B) 27 Watt (R)

Supply voltage 9 to 60 VDC

Waterproof rating IP68 Dust proof, Shockproof

Size 7.8" X 5" X 1.1" (199 X 128 X 28mm)

Material Aluminum die-cast housing

Cable length 10' (3.3m)

Approval ISO9000 - CE - RoHS

Lifetime hours up to 30,000 - 50,000 hours



# Forewarner Sideline LED

FOREWARNER-SIDELINER LED promotes workplace safety by preventing dangerous pedestrian and vehicle collisions. Easily mounted to a forklift, it projects a bright LED line on the floor's surface—alerting pedestrians and other vehicles in the area, regardless of ambient noise, to the nearby presence of the vehicle. As the forklift travels, a bright green or Red light glides across the floor about 15 feet on the side, ahead of or behind it (depending on the mounting location), letting pedestrians know that a forklift is approaching.

## Features

- Easy-to-install and maintenance-free
- Includes adjustable mounting bracket for precise positioning
- Equipped with 6 high-powered LED lights (18 watts)
- Installs on any industrial vehicle (forklifts, tow tractors, etc.)
- Designed for indoor and outdoor use
- Available in Green and Red

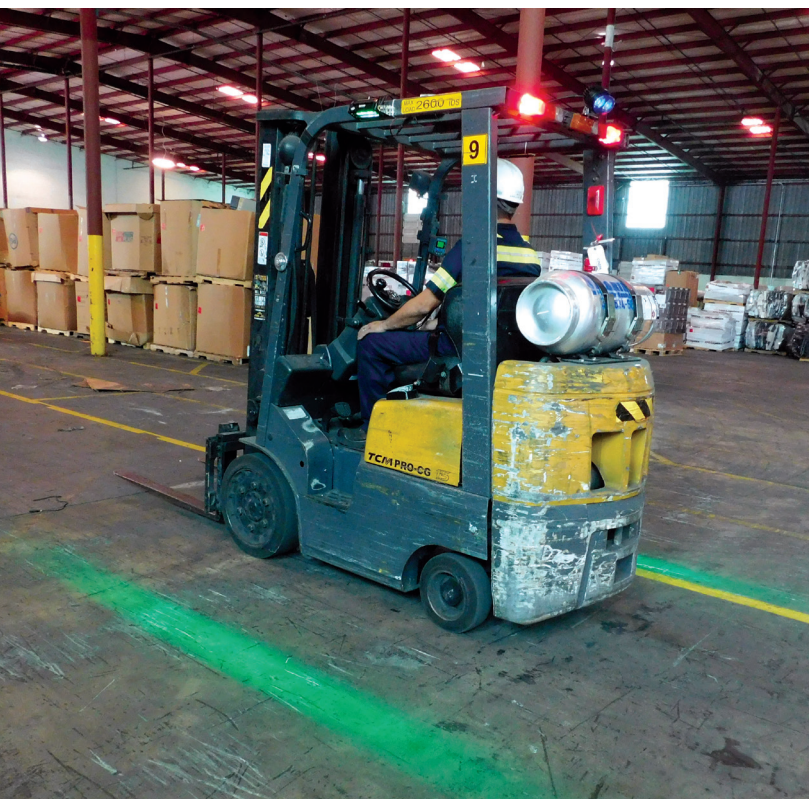
## Problems Solved

**Forklift Related Accidents:** Alerts pedestrians and other vehicles of forklifts approaching blind corners, cross aisles and exiting semi-trailers

**Noisy Environments:** Traditional audio alarms can blend into ambient noise in the building and pedestrians can become immune to the audio warning

## SPECIFICATIONS/CERTIFICATIONS

Small size: 8" X 2.6" X 3.5" (200 X 67 X 90 mm)  
IP 67 rated for outdoor usage



# Keyshock

KEYSHOCK is an invaluable, easy-to-use system that protects your equipment from abusive operators. The system activates when an impact exceeds a predetermined level, alerting management to abusive impacts and improper handling. Comprehensive software puts you in control by allowing management to set sensitivity parameters, program alarm preferences.



## Features

- Alerts to vehicle impacts and abusive handling
- Absence of battery power does not reset alarm (only management can reset after alarm is initiated)
- Easy-to-install on any make or model vehicle
- Highly customizable alarms
- Must be re-initialized after impact by management

## Problems Solved

**Vehicle Damage:** Alerts management to vehicle abuse

**Operator Accountability:** Provides management with operating reporting

**Impact Accuracy:** Impact levels can be predefined

## SPECIFICATIONS/CERTIFICATIONS

Programmed via USB connection on laptop (FREE software)

Password protected log in for settings.

Enable/disable any of X-Y-Z axis.

Set sensitivity for each axis independently.

Set "ignore" time for each axis (ms).

Set style for each output independently.

View current output of each axis (helpful in setting accurate threshold).



# WeighTroller

WEIGHTROLLER-100 is an economical hydraulic forklift scale for industries that involve large loads and heavy machineries. It comes equipped with an easy-to-read LCD screen, which indicates a load's calculated weight and bar graph of the load's status, for user-friendly application. This highly accurate scale does not require time consuming periodic recalibration or servicing. Developed to withstand abusive applications, the WEIGHTROLLER-100 fits seamlessly to any make or model forklift.



## Features

- Waterproof, easy-to-read LCD display
- Designed for heavy industrial use
- Accurate hydraulic system, accurate to +/- 2% of the forklift capacity (e.g. +/-100# when installed on a forklift that has a 5000# load capacity)
- Includes external audible alarm to sound when the programmed weight limit is exceeded Economical

## Problems Solved

**Overload notification**

**Weight Verification**

**Cost effective weighing system**

**No loss of load center**

**Increased forklift efficiency**

### SPECIFICATIONS/CERTIFICATIONS

Voltage	12—24VDC (voltage converter required for 36 + 48VDC)
Sensor Range	0—250bar
Temp Range	-4 to 104F (-20 to 40C)
Size	3.5" X 3" X .75" (89 X 75 X 20mm)
Weighing Accuracy	+/- 2% of forklift lift capacity
Warranty	1 year
Enclosure	IP67 + full RFI/EMI protection
Endurance tested for	High and low temp shock Overvoltage reliability High shock reliability Vibration reliability Condensation, salt spray reliability



# Lift'N'Weigh

LIFT-N-WEIGH is a simple, easy-to-use, economical hydraulic scale for forklifts. Designed to withstand abusive applications, it provides accurate, reliable performance. It comes equipped with an easy-to-read LCD screen and functions with only four buttons – making the LIFT-N-WEIGH extremely simple to operate. It does not require time consuming periodic recalibration or servicing, and installation is quick and easy.

## Features

- Waterproof, easy-to-read display
- Designed for heavy industrial use
- Accurate hydraulic system, accurate to +/- 2% of the forklift capacity (e.g. +/-100# when installed on a forklift that has a 5000# load capacity)
- Includes external audible alarm to sound when the programmed weight limit is exceeded
- Quick and easy installation
- Only four buttons - easy to use

## Problems Solved

### Weight Verification

### Cost effective weighing system

### No loss of load center

### Increased Efficiency



## SPECIFICATIONS/CERTIFICATIONS

Operating Voltage	10 - 30 Vdc
Sensor Range	0 - 250bar
Temperature Range	-20 to +40°C operating
Accuracy	+/- 2% of fork truck capacity
Warranty	1 year
Enclosure protection	Instrument unit IP67 Full RFI/EMI protection

# Precise

PRECISE is an on-board hydraulic weighing system that provides an ideal solution for those looking to track production data and freight loads with exceptional accuracy. Designed for heavy industrial use, a forklift can weigh a load in only 5 seconds. This will ensure your shipments will not exceed trailer capacity, waybills match actual weight, lift truck capacity is not exceeded, and material inventory matches actual weight.

## Features

- Waterproof LCD intuitive touchscreen displays in LBS or KG
- High Accuracy nearly that of a load cell type weighing system
- Designed for heavy industrial use. The PRECISE cannot be damaged in tough abusive applications
- Exceptionally accurate hydraulic system (accurate to +/- 0.2% of the forklift capacity) i.e. +/- 10lb for a 5000 lb rated forklift.
- Optional external audible alarm to sound when the programmed weight limit is exceeded
- Time stamped data can be extracted with Wi-Fi, Bluetooth, direct printer connection, USB stick and SD card

## Problems Solved

### Easy and accurate load verification

### Weighing is quicker and more efficient than using a floor scale

### Track weighing by Truck number or Product

### Weighing events can be identified by PO # or Customer name

### Optional printer produces receipt or label with each weighing event

### Built in OVERLOAD system.



WEIGHT PRODUCTS

## SPECIFICATIONS/CERTIFICATIONS

Supply Voltage	12VDC
	Optional power converter used on electric forklifts
Temp Range	-4° - 122°F (-20° - +50°C)
Water Immersion	IP 67
Display Size	5.25"W x 4.5"D x 2"H (132 x 112 x 47 mm)
Bypass Size	3.25"W x 6.75"D x 2"H (85 x 170 x 47 mm)
Sensor Range	0 - 250 bar



# CoolTroller

COOLTROLLER Double-Headed Operator Cooling Fans are designed for use on forklifts to help keep operators cool in hot weather. The independently adjustable fans (360-degree movement, both horizontal and vertical) are easy to install and feature high/low switched settings at the fan. They are powered by 12 VDC input power typically connected to vehicle switched ignition power. Voltage converter included for electric truck applications.

## Features

- Quick and easy installation to any make or model forklift
- Equipped with two fans for maximum cooling
- On/off switch on device with Hi/Lo settings
- Adjustable positioning
- Can be mounted to overhead guard in front, behind or beside operator



## Problems Solved

**Increased Productivity:** Keeping operators cool and productive all summer long

# Slingbelt

Regardless of company policy statements, training and disciplinary recourse, the fact remains that many if not most forklift and equipment operators are just not wearing the seat belts provided on the equipment. Reasons for operators cited vary from forgetfulness, being in a hurry or general disinterest in wearing a seat belt. There is also a common misconception that it is safer to jump off of an overturning forklift, than to stay in the seat. This last assumption has been proven false and the law requires compliance in the use of forklift and equipment seat belts.

SLINGBELT is the answer!





# Our Commitment to You

We help individual sites and global enterprises deliver best-practice results. Our solutions help organizations:

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- **Enhance** customer satisfaction
- **Improve** safety and security
- **Increase** your bottom line
- **Maintain** compliance with regulations
- **Achieve** ROI in less than a year on average
- **Optimize** productivity

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- **We provide** industry leading technical/customer support to you and your customers.
- **We have** dedicated Channel Sales Managers located throughout North America to help you meet the needs of your customers.
- **Our experts** provide product and installation training so that you can be fully prepared to answer your customer's questions.
- **We enable** you to offer services and solutions that provide your customers with additional benefits and to differentiate yourself in the marketplace.

We created a web-based Partner Portal that will improve our services and provide an easy a company to do business. Learn more:





# Strong Track Record. Field-Proven Technology. World Class Support.

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