

# PowerFleet<sup>®</sup>

for INDUSTRIAL



DRIVER ID NUMBER  
123.133.251.42.SDX2-A



TRUCK NUMBER  
A-38927



## 2019 Catalog

CREATING A CULTURE OF SAFETY





# Power Up Your Fleet

*Improve material handling safety, increase vehicle and operator productivity, and reduce fleet costs with PowerFleet for Industrial. Power up your industrial vehicles with advanced hardware devices, powerful online 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 IQ™ 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 over 40 different forklift management products, including access control, camera systems, speed control, forklift scales, pedestrian safety, anti-theft, driver ergonomics, and wireless hour meters.*

## **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.*

# 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

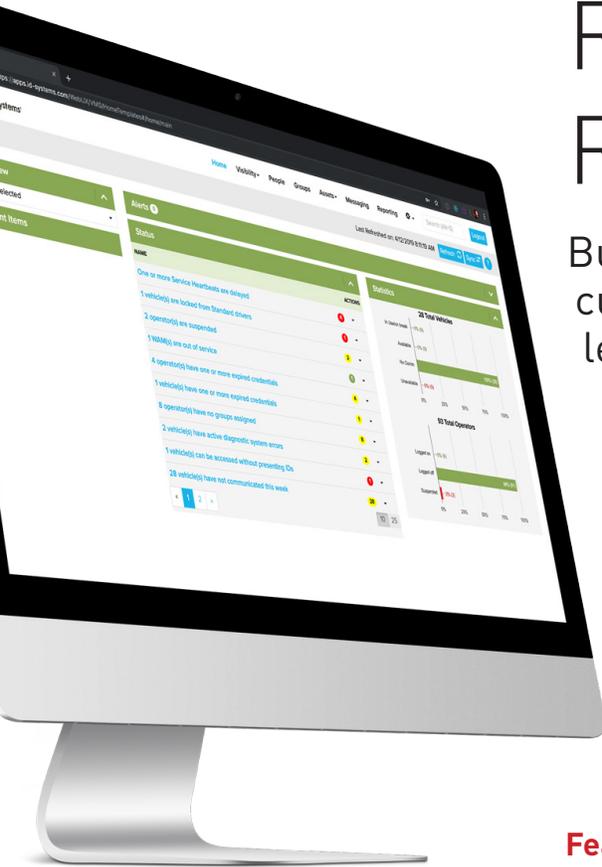
	<b>PowerFleet® Essence</b>	<b>PowerFleet® Expert</b>	<b>PowerFleet® Enterprise</b>
Access Control			
Electronic Safety Checklist			
Impact Sensing			
Predictive Maintenance			
Reporting and Analyzing Methods	<b>Basic</b>	<b>Extended</b>	<b>Versatile, scalable, ingenious</b>
Data Communication			 
Management Software	<b>Control Center (iOS)</b>	<b>INFOMATICS</b>	<b>VisionPro®</b>
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

## POWERFLEET ENTERPRISE HARDWARE:

# 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

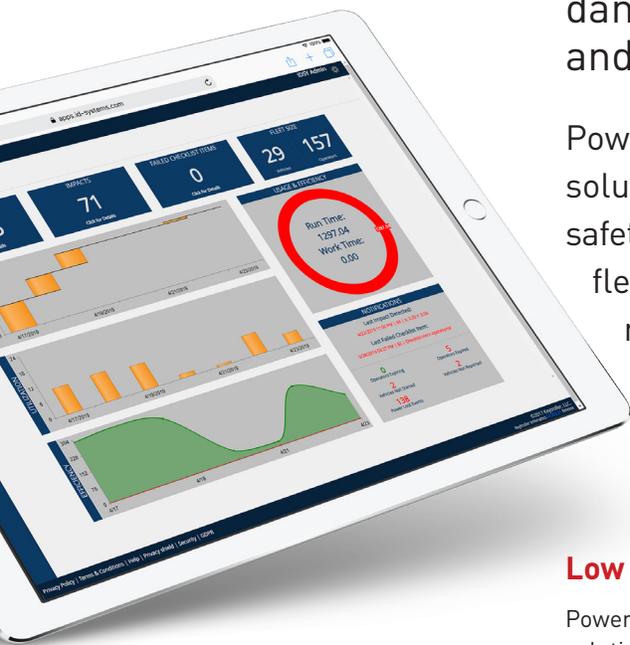
Dimensions	4 7/8" x 5 3/4" x 2" [124 x 146 x 51 mm]
Weight	1.3 lbs [0.6 kg]
Operating Temperature Range	-40° to +85° C (No display below -27° C)
Operating Humidity Range	95% RH, Non-condensing (MIL-STD-810F)
Weather Resistance	IP67, meets NEMA 6 [ANSI/IEC 60529]
Vibration	12.6 G RMS random vibration [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) Access Control Reader: Embedded options (proximity, iButton, Indala, etc.)
I/O Interfaces	9 analog inputs, 2 digital inputs, 1 analog output, 1 serial port input/output

# 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

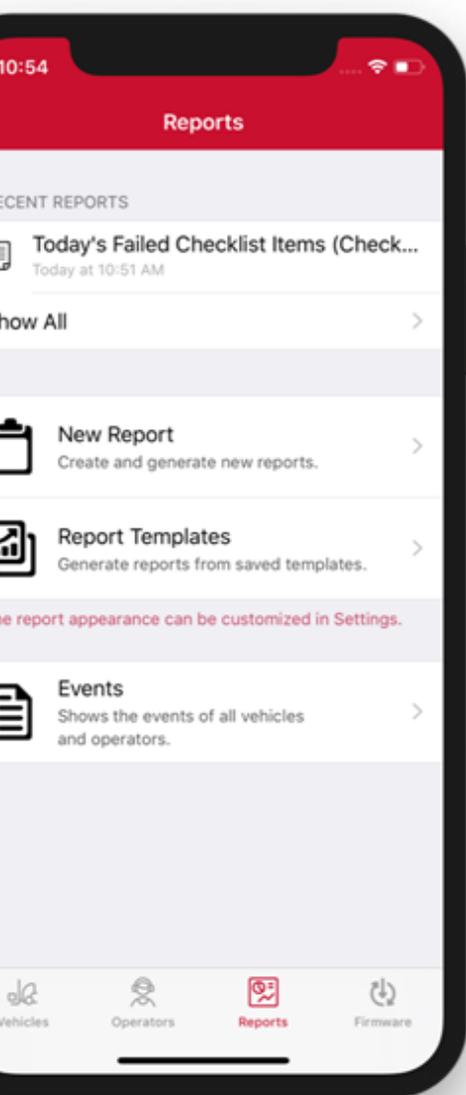
Supply voltage	12VDC (converter required for 24, 36, 48, 80VDC)
Standby current	350mA with radio on, 40mA when "asleep"
Temperature range	-40 - 167F (-40 - 85C)
Water immersion	IP -67 for weather extremes
Size	165mm x 95mm x 57mm (6.5" x 3.75" x 2.25")
Approval	ISO9000--CE--RoHS, UL
WiFi	802.11b/g/n,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

# 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.

## Create

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

## Define

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

## 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.

## 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	External Approximate RF Range ~ 100' with external antenna

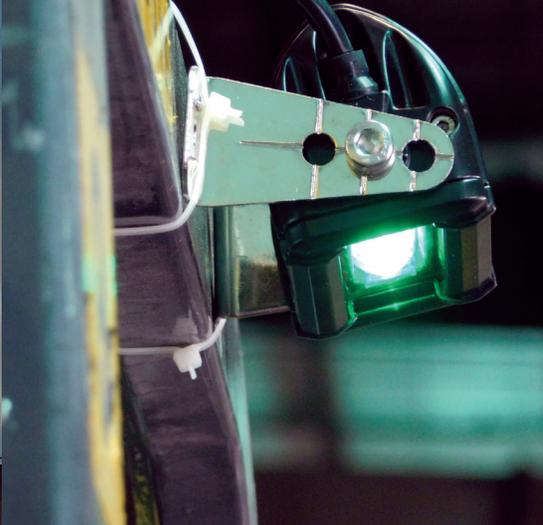


SAFETY PRODUCTS

# 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, digital speedometers, 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.*



SAFETY PRODUCTS



# 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:

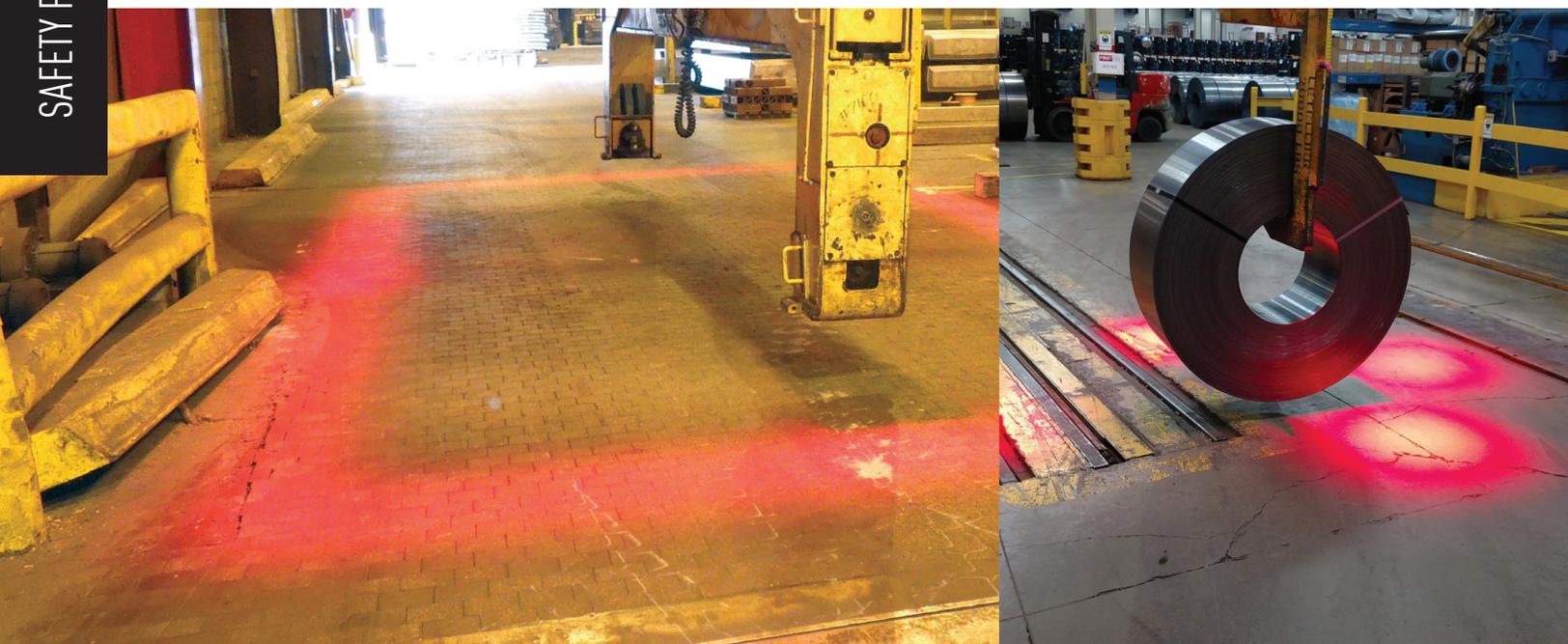
Alerts pedestrians/workers to location of overhead crane hook

### 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

SAFETY PRODUCTS



## 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
Working life	50000 hours
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 Arrow



FOREWARNER promotes workplace safety by preventing dangerous pedestrian and vehicle collisions. Easily mounted to a forklift, it projects a bright spot or arrow 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.

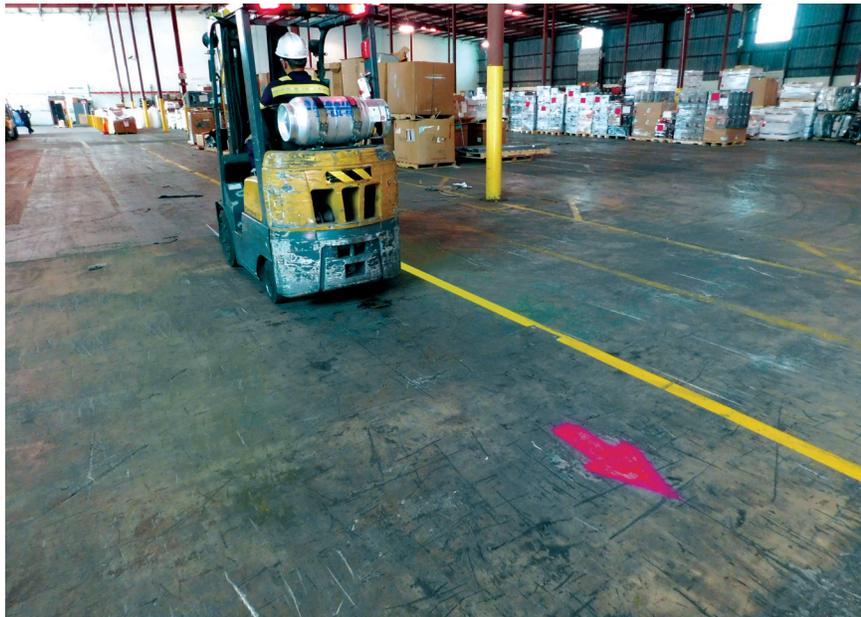
## Features

- 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

### Forewarner

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 Arrow

FWN - 10W - ARROW - B (10 Watt Blue)	
FWN - 6W - ARROW - R (6 Watt Red)	
LED 2 Focused --- CREE 10 Watt (B) 6 Watt (R)	
Supply voltage	9 to 80 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 Sideliner 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.

## SPECIFICATIONS/CERTIFICATIONS

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

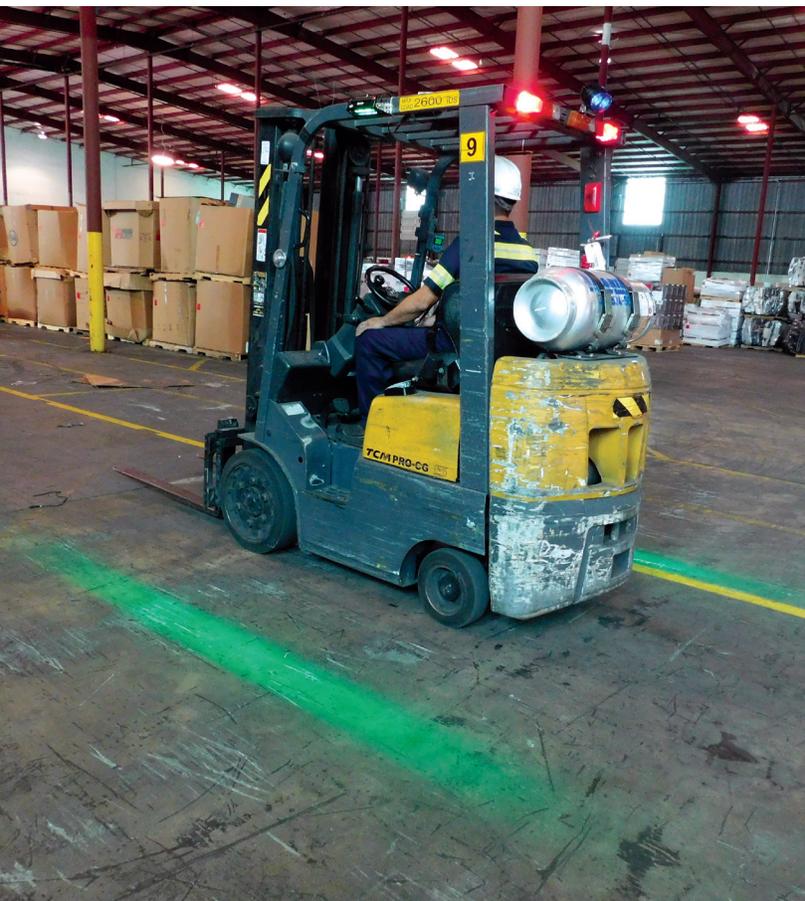
## Features

- 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



# Start-Smart

START-SMART is a vehicle access control system that allows you to easily control access to lift trucks, cranes or pickups to ensure only authorized operators gain access. This eliminates the need for ignition keys by instead using numeric code or RFID card access. START-SMART includes a keypad module and a relay module, wired either to the vehicle ignition switch or to an optional anti theft wireless relay connected to the vehicle's ignition or fuel pump circuit.



## Features

- Small profile design fits seamlessly to any dashboard without exposed cables
- Numeric code or RFID card enables the system and prevents unauthorized operators
- Rugged, waterproof design to withstand harsh environmental conditions
- Programmable for restricted vehicle access
- Anti-theft functionality available
- Installs on any make or model vehicle
- Monitor seat belt, seat switch, low oil, high temperature, etc.

## Problems Solved

**Unauthorized Operators:** Designated numeric code or RFID card required to enable vehicle

**Theft:** Optional Wireless relay prevents hot wiring and theft



## SPECIFICATIONS/CERTIFICATIONS

Power	12VDC (voltage converter required for 24, 36, 48VDC)
Stand by current	30mA
Temp Range	-40 to 185F (-40 to 85C)
Size	3.5" X 3" X .75" (89 X 75 X 20mm)
SSM metal keypad approval	ISO9000-CE-RoHS
Wireless relay option	12 or 24VDC (must specify)
Max relay contact current	peak 30A
Tested for	High + Low temp shock Overvoltage reliability High shock reliability Vibration reliability Condensation, salt spray reliability
RFID card reader	HID prox
USB connector	12" (.33m)

# 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).

# SpeedSaverEL & SpeedSaver

SPEED-SAVER EL is an automatic speed limiter dedicated for industrial equipment with electronic computer controlled throttles (fly by wire). In addition, the system prevents vehicle idling and driving that is destructive to the vehicle's tires. It maintains control over the vehicle's maximum speed by electronically controlling the machines throttle system, whilst still allowing the operator to use the full power of their vehicle for functions other than driving. It eliminates machine over-speeding independently of the operator to maintain safe operations.

## Features

- Controls vehicle top speed to increase warehouse safety
- Reduces vehicle idle time with idle controller
- Enables managers to set two top speeds
- Tire saving function by preventing operators from changing direction while in motion
- No loss of engine power to guarantee hydraulic functions
- Improves vehicle fuel efficiency to decrease overhead
- Controls speed in both forward and backward direction
- Designed to fit to any make or model forklift with electronic throttles

## Problems Solved

**Speeding Operators:** Controls speed to ensure a safe environment

**Tire Damage:** Reduces driving that is destructive to tires

**Heavy Lifting:** Does not affect heavy hydraulic lifting operations

**Vehicle Longevity:** Increases the overall life of a vehicle by decreasing wear and tear

**Costly Fuel Consumption:** Reduces fuel costs by preventing speeding and idling

SPEED-SAVER is an automatic speed limiter dedicated for industrial equipment with mechanically controlled internal combustion engines. The system maintains control over the vehicle's maximum speed by mechanically controlling the mechanical or linkage type throttle system.

The SPEED-SAVER allows the operator to use the full power of their vehicle for functions other than driving while eliminating machine over-speeding independently of the operator to maintain safe operations.

## Features

- Controls vehicle top speed to improve warehouse safety
- No loss of engine power to guarantee hydraulic functions
- Improves vehicle fuel efficiency to decrease overhead
- Controls speed in both forward and backward direction

## Problems Solved

**Speeding Operators:** Controls speed to ensure a safe environment

**Heavy Lifting:** Does not affect heavy hydraulic lifting operations

**Vehicle Longevity:** Increases the overall life of a vehicle by decreasing wear and tear

**Costly Fuel Consumption:** Reduces fuel costs by increasing fuel efficiency

## SPECIFICATIONS/CERTIFICATIONS

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



# SpeedTroller

SPEEDTROLLER provides reliably accurate measurements of speed, distance and over-speed events to ensure vehicle operators are held accountable. Equipped with a large, weatherproof LCD display that enables you to calibrate easily from the screen, the system features audio and visual alarms when pre-set speed limits are exceeded.

## Features

- Enables analysis of speed, distance and over-speed events
- Features large, illuminated, weatherproof LCD display
- Easy automatic calibration from screen
- Internal (buzzer) and external (LED) alarm flashes when programmable speed limit is exceeded for programmable amount of time (grace period). This is programmed in seconds.
- External flashing siren alarm sounds when preset speed limit is exceeded past programmed grace period.
- Adjustable mounting bracket allows versatile installation options
- Monitors Speed in Forward and Reverse.

## Problems Solved

**Speeding Operators:** Device alarms when the set speed limit is exceeded. The 120db Alarm continues to sound alerting everyone in the facility that this operator is speeding. The alarm will sound until the operator slows to or below the programmed speed limit.

**Warehouse Safety:** Significantly increases the operations safety by reducing speed and related accidents

**Vehicle Shelf Life:** Decreases wear and tear on costly vehicles



## SPECIFICATIONS/CERTIFICATIONS

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

# WeighAlert

WEIGH-ALERT is an economical, reliable, waterproof Overload Warning system that fits to any make or model forklift. Designed to ensure warehouse loading safety and provide audio and visual warning of a forklift overload situations. Designed to withstand abusive applications, it provides highly accurate, reliable performance.

The WEIGH-ALERT comes equipped with an easy-to-read LCD screen and functions with only three buttons – making it extremely simple to operate. It does not require time consuming periodic recalibration or servicing, and installation is quick and easy. **Please note THIS IS NOT A WEIGHING SYSTEM.**

## Features

- Waterproof, easy-to-read display
- Designed for heavy industrial use
- Includes external audible alarm to sound when the programmed weight limit is exceeded
- Optional overload flashing alarm is available
- Quick and easy installation
- Only three buttons - easy to use
- Stores the number of time the system has been overloaded for Supervisor review.

## Problems Solved

**Forklift Overload protection**

**Increased Safety**

**Increased efficiency**



# 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



WEIGHT PRODUCTS

# 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.

## 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.**

## 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

## 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



# 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 Digital technology (faster transmission rate)
Size	7.8" X 5" X 1.1" (199 X 128 X 28mm)
Input Power	10 - 32VDC (converter available 36 - 80V)
Resolution	800RGB (H) X 480 (V) dot
Shock Rating	10G vibration rating for tough applications

### Wireless Cameras

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

# 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 accidental 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

## Features

- 720P 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

## 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 weather-proof cameras

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

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

## CP4 SPECIFICATIONS/CERTIFICATIONS

Video In	CH1, Ch2: 12V 1080p or 720p AHD camera in CH3: 12V 720p AHD 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 Supports Delayed power shutdown Ignition-on sensing
Size/Weight	120mm x 28mm x 90mm / 166g
Operating Temperature	-10°C ~ 55°C



CAM1 - 720p
NOR | CAM2 - D1
NOR

X: 0.683  
Y: 0.359  
Z: 0.964  
06.22.2016 12:45:25.01

MPH  
326 / 600

0 rpm

MPH

12:40:00 (00:00)

Storage		Speed		Event	
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					

MPH  
326 / 600

0 rpm

MPH

12:40:00 (00:00)

CAMERAS

# 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.

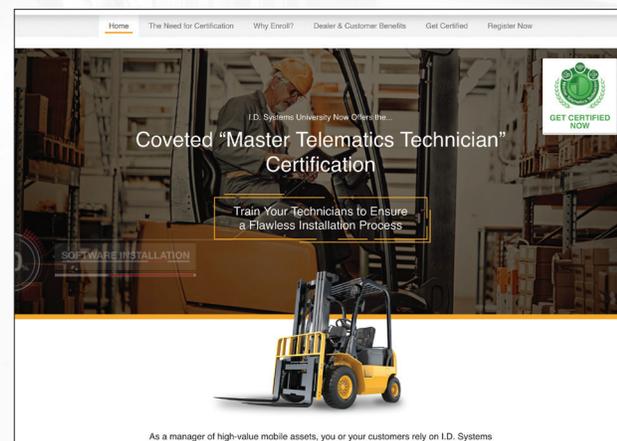
SLINGBELT is the answer!



OPERATOR PRODUCTS

# Why Partner with PowerFleet for Industrial?

- We provide comprehensive technology solutions and innovative safety products for the Industrial Truck/Material Handling markets world-wide.
- We enable your business to significantly grow.
- We provide you with opportunities to substantially increase revenue.
- 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.
- Purchasing directly from PowerFleet enables you to lower your customer's total cost of ownership (TCO).
- Our Channel Sales Managers will assist you in quoting, selling, implementing and supporting you and your customers.
- We have clear rules of engagement, which means that we never compete with you.
- We 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.
- We provide you with opportunities to differentiate yourself in the marketplace and beat your competitors.
- 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.
- IDSY University provides **free** technical and installation training for your technicians.



Partner with **PowerFleet for Industrial** (a division of PowerFleet) to tap into new ways to **grow your business, drive sales leads** and **build your market presence** like never before.

# Our Commitment To You

**We help individual sites and global enterprises deliver best-practice results.**

- Reduce operating and capital costs
- Improve safety and security
- Optimize productivity
- Enhance customer satisfaction
- Increase the bottom line

**We innovate.**

- Unique, powerful, effective solutions backed by almost 100 patents
- Close partnerships with customers to evolve and improve our solutions

**We pay you back with solutions that are cash flow positive in less than one year.**

We are here to make it work for you, with over 20 years of experience, reliable technology, expert services, and proven results with the world's greatest transportation and supply chain organizations.

## About PowerFleet, Inc.

PowerFleet is a leading provider of solutions for securing, controlling, tracking, and managing high-value enterprise assets, including vehicles, powered equipment, trailers, containers, baggage, and cargo. The company's patented technologies address the needs of organizations to monitor and analyze their assets to improve safety, security, efficiency, and productivity.

PowerFleet is listed on NASDAQ stock exchange under IDSY

**PowerFleet**<sup>®</sup>  
for INDUSTRIAL

**World Headquarters**

PowerFleet, Inc.  
123 Tice Boulevard  
Suite 101  
Woodcliff Lake, NJ 07677  
USA Tel: +1 201.996.9000  
Toll Free: +1 866.410.0152  
Fax: +1 201.996.9144

**PowerFleet for Logistics**

PowerFleet, Inc.  
5700 Granite Parkway  
Suite 550  
Plano, TX 75024 USA  
Tel: +1 972.398.7300  
Toll Free: +1 877.983.7466  
Fax: +1 972.398.7305

**PowerFleet for Industrial**

PowerFleet, Inc.  
6204 Benjamin Rd  
Suite 211  
Tampa FL 33734 USA  
Tel: +1 201.678.5565  
Toll Free: +1 866.410.0152  
Fax: +1 813.871.6250

**PowerFleet (UK) LTD.**

10 St. Ann Street  
Salisbury SP1 2DN, UK  
Tel: +44 (1908) 888250  
Fax: +44 (1908) 888005

Email:  
uksales@powerfleet.com

**PowerFleet GmbH**

Am Seestern 4  
40547 Düsseldorf, Germany  
Tel: +49 (0)211 3105454-60  
Fax: +49 (0)211 3105454-69

Email:  
saleseurope@powerfleet.com