IDEAL WAREHOUSE INNOVATIONS INC®

Protecting Your People

FORKLIFT SAFETY



Collision.
Precision.
Maintenance.

Forklifts are used to move and handle materials safely and efficiently within a warehouse environment. Promoting and maintaining safety when using this machinery is of the utmost importance in these busy surroundings.

Ideal Warehouse Innovations' forklift safety products prevent collisions, safely increase machine operation efficiency, and reduce maintenance hazards, keeping your workplace safe and running smoothly.

At Ideal Warehouse Innovations, we raise the bar in forklift safety.



COLLISION AVOIDANCE

- ForkliftSpotter™ Safe Zone
  - Front Spotter
  - Side Spotter
  - Rear Spotter
- Ergo Back-Up Handle
- Mirrors
- Safe-Bump



SAFE & EFFICIENT OPERATION

- Accu-Tilt™
- Accu-Height
- Lift Truck Log
- Checklist Caddy
- Bright-Belt
- EZ3 MagTool Kit



MAINTENANCE SAFETY

- Quick Change Propane Valve
- LockOut Guard
- Forklift Battery PPE Kit
- Dissipator Cap
- Watering Gun
- Propane Gloves

Ideal Warehouse Innovations
SAFETY SOLUTIONS
FOR OSHA REGULATIONS

Examples of possible solutions to satisfy OSHA regulations.
Each situation should be professionally evaluated for relevance.
(based on publicly listed regulations as of 2018-04-19)

COLLISION AVOIDANCE

FORKLIFTSPOTTER™ SAFE ZONE

Approximately every three days someone in the US is killed in a forklift related accident.

Source: National Institute of Standards and Technology



HELP PREVENT PEDESTRIAN COLLISIONS!

Collisions between man and machine can be catastrophic. Pedestrians in facilities with forklifts are in danger, especially when using hearing protection, distracted by mobile device use AND in poorly lit workplaces.

Ideal Warehouse Innovations' ForkliftSpotter™ Safe Zone can prevent these potentially lethal accidents. This 360° Safe Zone provides a visual alert around the entire forklift, making it immediately clear to pedestrians, the safe distance to keep from the forklift.

Forklift accidents increase cost, damage reputations and, most importantly, put your employees at risk of injury or even death. The 360° "Glow" from Ideal Warehouse Innovations' ForkliftSpotter™ Safe Zone will keep your employees safer, both on and off of the forklift.





The Forklift Front Spotter creates a safer environment by emitting a bright, white light in front of the forklift. It is built strong for the rough work forklifts do. With high impact/vibration resistance and an LED lifespan rating of 50,000 hours, the LED Headlight outperforms traditional incandescent lights typically rated at only 5,000 hours.

COLLISION AVOIDANCE

PRODUCT	FORKLIFT FRONT SPOTTER	FORKLIFT SIDE SPOTTER	FORKLIFT REAR SPOTTER
Light	LED (50,000 hours)	LED (100,000 hours)	LED (50,000 hours)
Light Color	White	Red	Blue
Rated	1500 Lumens	1200 Lumens	830 Lumens
Housing	Aluminum	Aluminum	Aluminum
Lens Pattern	Beam	Spot	Spot
Lens Material	Polycarbonate	Polycarbonate	Polycarbonate
Compliances	UL & IP68	IP67	RoHS, CE & IP68 (Total dust & water resistant)
Voltage	10-80 VDC	9-64 VDC	10-80 VDC
Amperage	1.67 Amps	1.39 Amps	0.72 Amps
Width	5.00" / 127mm	2.66" / 68mm	5.61" / 142.6mm
Height	5.75" / 146mm	7" / 178mm	4.72" / 120mm
Depth	2.50" / 64mm	3.56" / 90mm	3.54" / 90mm
Weight	1.0 lb / 0.453 kg	1.57 lbs / 0.710kg	2.0 lb / 0.907kg
Packaged Width	4" / 102mm	5.5" / 140mm	5" / 127mm
Packaged Height	6" / 153mm	7.25" / 184mm	6" / 153mm
Packaged Depth	3" / 76mm	4.25" / 108mm	4" / 102mm
Cable Length	16" / 406mm	22" / 559mm	14" / 356mm
Mounting Style	Bracket/Bolt with 360° swivel or Universal Bracket Kit option	Adhesive/Ties	Bracket/Bolt with 360° swivel or Universal Bracket Kit option



Warning Safety Sign Kit available for purchase. Use with Forklift Rear Spotter.







The Forklift Side Spotters emit a red beam to the floor, on either side of the forklift. This red glow is a visual indicator of the safe distance pedestrians should keep between themselves and the forklift. By staying outside of this perimeter, pedestrians will avoid foot injury and collision from rear end swing.



The Forklift Rear Spotter projects a bright blue beam of light onto the floor behind the forklift alerting pedestrians of the oncoming vehicle well in advance. The Forklift Rear Spotter is especially useful at blind intersections and rack aisles. Because the light moves with the forklift, onlookers are easily warned of the vehicle moving in their direction.

OSHA REGULATIONS

1910.178(n)(4) The driver shall be required to slow down and sound the horn at cross aisles and other locations where vision is obstructed. If the load being carried obstructs forward view, the driver shall be required to travel with the load trailing. Ideal Warehouse Innovations' ForkliftSpotter™ Safe Zone provides an early warning to pedestrians in the event of challenging sightlines.

COLLISION AVOIDANCE

ERGO BACK-UP HANDLE

Reduce back strain with the Ergo Back-Up Handle.

Operators who are required to travel frequently in reverse often grab the overhead guard. This is a dangerous practice and has resulted in serious injuries.

- Eases back stress when turning around
- Fits any lift truck
- Installs in minutes
- Keeps operator's hand inside the operator compartment
- Optional horn switch allows operator to keep left hand on steering wheel (hard wire to existing horn or battery operated for easy installation)



Standard model shown.
Battery model available.

OSHA REGULATIONS
1910.178(m)(4) The employer shall prohibit arms or legs from being placed between the uprights of the mast or outside the running lines of the truck.

MIRRORS

360 degree visibility.

Lift truck operators need to know what is going on all around the lift truck at all times. Ideal Warehouse Innovations' mirrors give a high range of visibility allowing the operator to perform a quick safety check before travelling in reverse. Installation on any lift truck is quick and easy.

Ideal Warehouse Innovations' Dome Mirror offers a 180° view and can be installed in seconds with double-sided tape or a magnetic arm.

Ideal Warehouse Innovations' Wide Magnetic Mirror provides a wide angle view of the operator's surroundings for safety and is ideal for traveling in reverse. Can mount on the overhead guard in seconds using the magnetic arm attachment.

Ideal Warehouse Innovations' Side Magnetic Mirror provides a side-view of the operator's surroundings for safety and can mount anywhere in the operator's compartment in seconds using the magnetic arm attachment.



Magnetic Dome Mirror



Tape Dome Mirror



Wide Magnetic Mirror





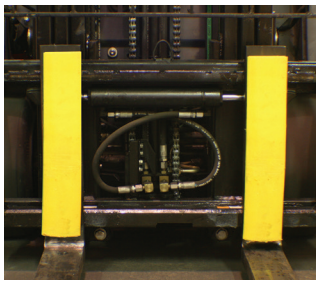
Side Magnetic Mirror

SAFE-BUMP FORKLIFT PROTECTORS

Reduce damage in many applications.

Specifically designed for forklifts, Safe-Bump attaches with two 100 lb (45 kg) magnets and (VHB) two way tape (included).

Size: 18" (457 mm) L x 4" (102 mm) W x 2" (50mm) D



Safe-Bump attaches to 4", 5" and 6" forks in seconds



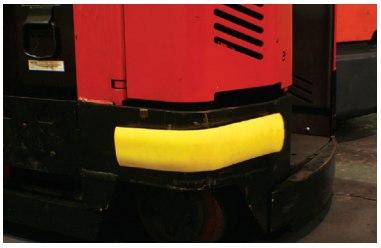
Safe-Bump is only 2" (50mm) thick and protects product from damage



Using two way tape, non-metal surfaces can be protected



Safe-Bump protects both the forklift and anything it hits



Safe-Bump can bend 90° to wrap around corners for maximum protection

SAFE & EFFICIENT OPERATION

ACCU-TILT™ FORK TILT LEVEL INDICATOR

Always know the tilt angle of the forks!

The Accu-Tilt™ shows the operator the level of the forks at all times, thereby reducing potential damage by piercing product or racking and increasing productivity by eliminating the guess work.

- Reduce product damage
- Reduce rack damage
- Reduce pallet damage
- Increase productivity
- Decrease training time for new operators

Installs in 2 minutes, without any tools, on any counterbalance lift truck.





2008 Plant Engineering PRODUCT of the YEAR WINNER

OSHA REGULATIONS

1910.178(o)(6) Extreme care shall be used when tilting the load forward or backward, particularly when high tiering. Tilting forward with load engaging means elevated shall be prohibited except to pick up a load. An elevated load shall not be tilted forward except when the load is in a deposit position over a rack or stack. When stacking or tiering, only enough backward tilt to stabilize the load shall be used.

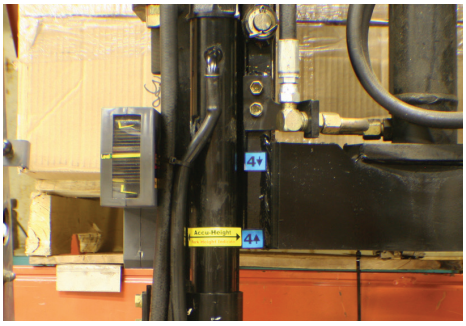
ACCU-HEIGHT FORK HEIGHT LEVEL INDICATOR

Always know the height of the forks!

The higher the lift, the harder it is to judge the correct height of the forks. Accu-Height is a simple sticker set that allows the operator to quickly know the right height of the forks at various rack levels.

By matching the indicator sticker with the color marker, the correct fork height is obtained to enter the pallet safely.

The second marker indicates the safe lift height of the pallet to be either removed from the rack or to be placed into the rack.



Correct Fork Height for Entry and Exit of Pallet



Mast Indicator - Attaches to mast.

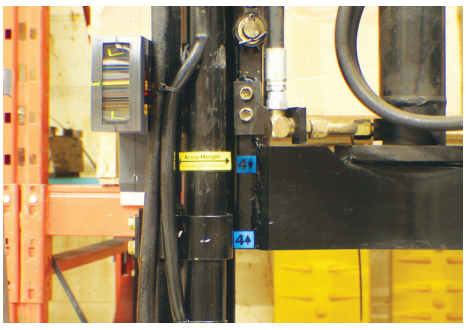


Mast Marker - Attaches to inside mast rail, pallet up position.

2010 Plant Engineering PRODUCT of the YEAR WINNER



Sticker Set - installs on rack system. Tells the forklift operator the correct marker to use on the mast.



Correct pallet Height for Entry and Exit of Pallet

SAFE & EFFICIENT OPERATION

LIFT TRUCK LOG:

Complete Checklist System

The most complete Lift Truck recording system on the market.

Lift Truck Log Includes:

- Daily Check Lists - 624
- Repair Request Forms - 24
- Accident Report Forms - 4
- Near-miss Report Forms - 4
- Lock-out Tag (required if truck is unsafe to operate)
- PM Tracking History - 36 Events (know when to service each truck)

OSHA REGULATIONS: SEE CHECKLIST CADDY



Plant Engineering PRODUCT of the YEAR Finalist 2008

CHECKLIST CADDY

- One Caddy 4 1/2" (114 mm) x 7" (178 mm) polyethylene envelope with two-way tape for easy mounting
- One checklist pad with 75 inspection carbon copy sheets available for:
  - Electric sit-down (E),
  - Propane sit-down (CB),
  - Narrow aisle (N),
  - Pallet (P) truck or Aerial Work Platform (A)
  - Crane
  - Skid Steer
  - Electric Stacker
- One pen with attached plastic wire
- Replacement pads are available
- 624 Events per log



KIT INCLUDES:

- **LOG**
- **PLASTIC CASE**
- **PEN WITH PULL-STRAP**

NOTE: Regulation states that a lift truck be inspected before the beginning of each shift and a record be kept on file. The Checklist Caddy is a complete system that ensures the operator completes this important task. The Caddy is a highly visible case that mounts anywhere on the lift truck. A guaranteed way to ensure everyone does their safety inspections. Replacement books and forms available.

OSHA REGULATIONS

1910.178(q)(7) Industrial trucks shall be examined before being placed in service, and shall not be placed in service if the examination shows any condition adversely affecting the safety of the vehicle. Such examination shall be made at least daily. Where industrial trucks are used on a round-the-clock basis, they shall be examined after each shift. Defects when found shall be immediately reported and corrected.

BRIGHT-BELT

The Bright-Belt is essential to keep operators safe.

At 60" (1524 mm) in length and conforming to all safety specifications, the Bright-Belt gives increased operator maneuverability and its highly visible, bright orange webbing helps confirm people are safely buckled up.

All installation hardware is included.





EZ3 MAGTOOL KIT

The most used tools are always at the ready.

The MagTool clipboard, tape gun and box all come with an integral, 100 lb (45 kg) magnet which allows them to be easily stuck and removed from a metal surface. That means the most common tools are always available. Less on/off machine time also increases safety and productivity.

Offered in a 3-tool kit or as individual pieces, the EZ3 MagTool Kit is a real time-saver!





MAINTENANCE SAFETY

QUICK CHANGE PROPANE VALVE

Prevent dangerous surprises with the Quick Change Propane Safety Valve.

Changing an LPG (Liquid Propane Gas) cylinder can sometimes give a forklift operator a big surprise! The seal in the cylinder valve can fail causing liquid propane gas to spray over the hand or face faster than they can react. Liquid propane vaporizes quickly (-42°C or -44°F) and will cause extreme frostbite if it touches skin. Almost every forklift operator has had a negative experience with liquid propane, and they do not like getting hit with LP Gas!



QUICK CHANGE PROPANE VALVE IN-USE

Benefits

- Increases LPG cylinder exchange safety
- Speeds up LPG cylinder changes
- Fits all forklifts
- Quick and easy installation
- Fits on any steel propane tank

Design Features

- In case of LPG release, the liquid propane is directed away from the hand
- The PVC plastic works as an insulator from cold LPG on the brass coupler
- All parts are UL rated for forklift LPG applications



ADD GLUE TO COUPLER AND SAFETY GRIP



PUSH COUPLER THROUGH SAFETY GRIP



INSTALL COUPLER ON PROPANE VALVE WITH A WRENCH

LOCKOUT GUARD

Prevent use of unsafe equipment with this lock-out/tag-out device.

The Equipment LockOut Guard is a lock-out and tag-out system that locks-out and tags-out your lift truck or other material handling equipment until repairs are made. This minimizes workplace injury by preventing the use of unsafe and malfunctioning equipment. The LockOut Guard has been designed for lock out of electric and propane forklift connections. Other energy supply connectors are also a possibility.

The LockOut Guard Kit comes complete with LockOut Guard box, (4) LockOut guard tags, (4) tie straps and lock with key. This equipment LockOut Guard is a simple solution to important employee safety.



OSHA REGULATIONS
1910.178(p)(1) If at any time a powered industrial truck is found to be in need of repair, defective, or in any way unsafe, the truck shall be taken out of service until it has been restored to safe operating condition.

MAINTENANCE SAFETY

PPE KITS

Protect your worker's health and safety and help prevent workplace hazards!

Occupational Health and Safety laws require that all personnel wear personal protective equipment (PPE) when performing all forklift battery or propane tank maintenance or replacement.

The Battery Handling PPE Kit comes with everything needed to stay compliant and safe.

Battery PPE Kit includes:



- Neoprene safety handling gloves
- Safety goggles/eye protection
- Face safety shield/eye protection
- Apron
- Cap off removal tool
- Flashlight
- Battery hydrometer
- Battery Handling mounting board

The PPE Kit for LPG contains all of the required PPE to change propane tanks.

Propane PPE Kit includes:



- Neoprene Gloves
- Safety Glasses
- Polyethylene Board
- Cup
- Leak Detector

PROPANE CYLINDER HANDLING GLOVES

Protect Hands from Liquid Propane Burn

To help safely change propane cylinders, Ideal Warehouse Innovations offers two styles of gloves:

- "Retracto" gloves are always ready to use and are securely attached to the lift truck with a retractable cable.
- "On-Hand" gloves are attached to the overhead guard with a chain to ensure they are readily available.



DISSIPATOR FORKLIFT BATTERY CAP



Make battery maintenance easy.

Using revolutionary technology, the Dissipator Battery Cap maximizes your forklift battery's potential and reduces watering intervals by returning 80% of the evaporated water back into the battery. Its ergonomic design and durable housing that is resistant against battery acid makes the Dissipator an effective battery maintenance tool. Use the Dissipator cap on all industrial batteries such as a forklift battery, lift truck battery, Aerial Work Platform battery and golf cart battery.

Features

- Instant electrolyte level detection with the "magic eye"
- Durable acid-proof housing protects against acid overflow
- Ergonomic easy-off twist cap
- Battery emissions filter
- Returns 80% of evaporated water back to the battery
- Reduce the need for cell watering
- Reduces harmful gas emissions
- Ergonomic design for easy installation
- Prevents corrosion of the battery case

FORKLIFT BATTERY WATERING GUN

Safely maintain batteries.



Keep your batteries properly filled and keep your battery tops dry by using our watering gun. The forklift battery watering gun will help with the battery maintenance and care of your forklift battery. Our front trigger battery watering gun safely and easily adds water to your industrial batteries. The gun automatically shuts off at the correct fill level every time.

What is the major benefit of using a Battery Watering Gun? It keeps your employees safe. No longer will your employees have to bend awkwardly over the battery and look into each cell. Now they can insert the tip of the Gun and pull the trigger. This gives an accurate cell fill every time without back strain or the risk of an acid splash.

The gun automatically shuts off at the correct fill level every time and the haptic feedback in the handle alerts the user when the automatic shut off is engaged.

MORE SAFETY SOLUTIONS


Environmental Controls


Loading Dock Bumpers


Wheel Chock Safety Systems


Trailer Stands

IDEAL WAREHOUSE INNOVATIONS INC
Protecting Your People

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