

# Products & Solutions for the Utility Industry



## Complete Solutions for Utility Market Applications

The utility industry continues to evolve in response to regulatory updates, new technologies and changing consumer expectations. Working at heights presents potential hazards and necessitate safety precautions. Even short-distance falls can cause serious injury. MSA can help customers to navigate these utility sector challenges by providing products and solutions for many utility industry applications.

- Generation plants
- Substations
- Transmission
- Distribution

**WE KNOW WHAT'S AT STAKE.**

# Generation

Working within power plants presents many potential hazards, including electrical shocks, burns, fires, explosions, and hazardous chemical leaks or spills. Providing your workers with proper safety products and training aids significantly in reducing and mitigating the effects of accidents.



Applications	Potential Hazards	MSA Solutions
<b>TOWERS</b>	Most towers don't provide mechanical lifts.	Horizontal lifelines are flexible, easy solutions to accommodate many safety needs for working at heights. Personal rescue devices (PRD) are to be used with a fall protection system or an anchor point. Power generation may present lone worker situations where rescue may be difficult.
<b>FIXED LADDERS</b>	Fixed ladders are vertical systems primarily used for accessing towers for maintenance.	Vertical lifeline systems provide temporary fall protection on ladders or when climbing. Systems can also provide secondary lifeline for suspended positioning systems.
<b>BOILERS</b>	Boilers include a heat source that allows water to be heated above its boiling point.	In confined spaces where boilers, electrical vaults and open pits are present, products such as XTIRPA™ System for confined space entry, portable gas detectors and respiratory protection may be necessary.
<b>OVERHEAD OPERATIONS</b>	Overhead hazards	MSA Latchways overhead lifeline systems offer Constant Force® technology housed within inline energy absorber.

# Substations Fall Protection (Transformers)

Substations are located throughout electric power transmission and distribution systems and can present unique safety needs. Common scenarios including clearance, illumination, passageways, and evacuation routes require training, preplanning and safety equipment.



Applications	Potential Hazards	MSA Solutions
<b>WORKING ON TOP TRANSFORMERS</b>	Newer transformers provide attachment points but older versions may not. Work requiring use of ladders or scaffolding must be assessed to minimize risk.	Latchways WinGrip® Vacuum Anchor provides compact, lightweight, fully portable fall protection solutions requiring only one-person operation. WinGrip is intrinsically safe and is suitable for use within in both wet and dry conditions. Adjustable lanyards
<b>BUCKET TRUCK OPERATIONS</b>	Risk of injury or incident is high. Potential electrocution hazards exist.	Personal rescue devices are contained within a small backpack attached to full body harness to be used with fall protection system or anchor point. <ul style="list-style-type: none"> <li>• ANSI-approved head protection</li> <li>• Eye protection</li> <li>• Fall restraint system/fall arrest system</li> <li>• Insulated gloves where electrocution risk is possible</li> </ul>

# Transmission Towers

Transmission tower work continues to present potentially hazardous situations within the power distribution industry. Falls from heights are the biggest cause of death and the major cause of serious injury. Be aware of key standards relating to fall protection and ensure that your workers not only use required safety products, but are also trained in the proper use of their PPE.



Applications	Potential Hazards	MSA Solutions
<b>LINEMAN CLIMBING STRUCTURES</b> <b>NEW OSHA REGULATIONS 1910.269 &amp; 1926 SUBPART V</b>	Working at heights: 1910.269 requires 100% tie-off; no free climbing is allowed.	TowerLatch™ vertical fall protection system for retrofitting to overhead line tower climbing legs. TowerLatch SP attachment device incorporates built-in energy absorbing pack to reduce end load in event of a fall. System can be used by four workers simultaneously. Vertical system resembles free climbing while maintaining 100% tie-off.

# Distribution

Distribution is the final stage in electric power delivery. Distribution substations connect to transmission systems and lower transmission voltage. Most utility pole work is performed from bucket trucks; very little pole climbing is necessary. Every bucket truck has a rescue unit, typically a step ladder that can be lowered over the bucket edge for workers to climb down to the ground.



Applications	Potential Hazards	MSA Solutions
<b>BUCKET TRUCK OPERATIONS</b>	Falling from bucket truck while working alone.	Personal rescue devices allow for self-rescue. With PRDs, training is intuitive and easier than training with ladder and tag line. Training may occur only annually.

All MSA Latchways systems are manufactured to the highest international standards using the best materials. In addition to rigorous in-house testing, all Latchways products undergo external verification to meet or exceed relevant industry standards.

## MSA Solutions™ for Utility Industry Applications



**Latchways Personal  
Rescue Device (PRD)**



**EVOTECH® Arc Flash  
Harness**



**Gravity®  
Harness**



**ArcSafe®  
Lanyard**



**MSA XTIRPA™ System  
for Confined Space Entry**



**Latchways  
TowerLatch™ System**



**Latchways WinGrip®  
Vacuum Anchor System**



**Latchways  
Arc Flash PFL**

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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