

## Application Brief

# Durable Printing for Lockout/Tagout

### Industry

Manufacturing  
Field Service  
Power Generation and Transmission  
General Industrial Operations

### Products

Duratran Synthetic Tag  
Duratran Pro Tag  
TMX2000 series ribbon  
PM43  
PC43

### Region

North America

### Typical Applications

Lockout/tagout programs

### Customer Benefits

- Assured compliance with government and industry standards
- Durable, high contrast print for consistent scanning performance
- Increased productivity
- Marking longevity with durable tags
- Custom tags available in a wide range of colors and sizes to meet signage guidelines
- Reduced total cost of ownership with free printhead replacement program when Intermec media and fixed printers are used together



### Industry Need

Ensuring employee safety is a foundational focus of any world-class industrial operation. Fully functional equipment has well-documented procedures and robust safeguards in place to eliminate hazardous conditions. However, during installation and maintenance, significant additional risks such as exposed sources of electricity, mechanical force, or pneumatic/hydraulic pressure are encountered. These risks are mitigated by a well-defined set of lockout/tagout policies. As a top 10 most frequently cited OSHA violation in 2012, the importance of compliant and effective procedures to fully de-energize and communicate equipment status is underscored. Selecting the optimal printers and media to support lockout/tagout helps ensure success of this critical process.

### Reference Links

**OSHA 29 CFR 1910.147** (applies to most industries)

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_id=9804&p\\_table=STANDARDS](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_id=9804&p_table=STANDARDS)

**OSHA 29 CFR 1910.269** (applies to power generation, transmission, and distribution)

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=standards&p\\_id=9868](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=standards&p_id=9868)

### Intermec Solution

The two relevant OSHA standards state that tagout devices shall be substantial enough to prevent inadvertent or accidental removal and must withstand the use environment and weather conditions. Intermec offers solutions to meet these standards. Two leading film tag products from Intermec have been proven successful in this environment, both rated for outdoor exposure up to one year. Duratran Synthetic Tag has excellent resistance to water, oil, and chemicals, and the strength to ensure it remains attached with typical locks or cable ties. Duratran Pro tag has premium pull strength available for operations where maximum stress on the tagout device is anticipated.

Printed on-demand with Intermec thermal printers such as the PM4i and combined with durable thermal transfer ribbons, you can be sure these rugged tags will maintain legibility in challenging industrial and outdoor environments.

This complete solution enables robust bar code traceability ultimately ensuring that supervision and safety staff can accurately track maintenance jobs in progress and effectively manage downtime.

### Media Recommendation

Duratran Synthetic Tag (Standard product)

Duratran Valeron Tag (Premium pull/tear strength)

### Ribbon Recommendation (if applicable)

TMX2000 series mid-range

## Printer Recommendation

PM43 Mid Range Printer [Profile](#)

- **Ready** – *Fastest to deploy. Seamlessly fits any environment.*
  - Large color multi-lingual tamper proof touch-screen or icon user interface
  - No touch configuration capabilities
  - Only CCX & WiFi certified fixed printers with standard IPv6 implementation
- **Reliable** – *Maximize uptime. Built from 40 years of printing innovations. 3rd generation platform.*
  - Precision Print for consistent bar code printing with pin point accuracy
  - Multilingual Web page loaded on every printer ensures easy device monitoring
  - Strong metal structure with metal door that can be locked for media protection
- **Perform** – *Increase productivity and process efficiencies.*
  - Fastest throughput in its class
  - Powerful programmable capability with ability to directly connect peripherals
  - Most connectivity options in the market

PC43 Desktop Printer [Profile](#)

- **Intuitive** – *Super Easy to Install & Use*
  - 10-language LCD or Icon graphics user interface maximizes uptime
  - One hand media loading for trouble-free use
  - Fastest throughput in its class at 8 ips
  - Quick configuration with USB stick device
- **Flexible** – *Fits your business needs today & tomorrow*
  - User installable connectivity upgrades and accessories for scalability
  - Leading command languages for seamless deployment
  - Modular IT-friendly design speeds up deployment and support
- **Smart** – *Keeps you informed & productive*
  - Remote status updates with Intermec tools minimize downtime
  - Programmable with ability to directly add keyboard or scale improves efficiency

## The Intermec Advantage

When worker safety hinges on legible and durable printed tags, it is essential that the printer and media provide optimum reliability. Intermec printers and media are optimized to deliver superior performance when used together. Our rigorous testing and co-engineering ensures consistently high print quality, proven label and tag performance in demanding real-world environments, and maximum print head service life for reduced downtime.

Intermec printers and media are complemented by the industry's only complete line of integrated solutions and services, including rugged mobile computers, RFID systems, and advanced scanning technology. Intermec products and services are used by customers worldwide to improve the productivity, quality and responsiveness of their business operations.

## Printhead Replacement Program

Intermec will provide no cost replacement printheads, as failures occur due to normal wear and tear, to those customers who use Intermec Media Products exclusively with their Intermec direct thermal and thermal transfer fixed printers. For full details, click [here](#).



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