



excellence in safety

# tec.dloto – Digital Lockout / Tagout

## Ensure compliance

## Go paperless



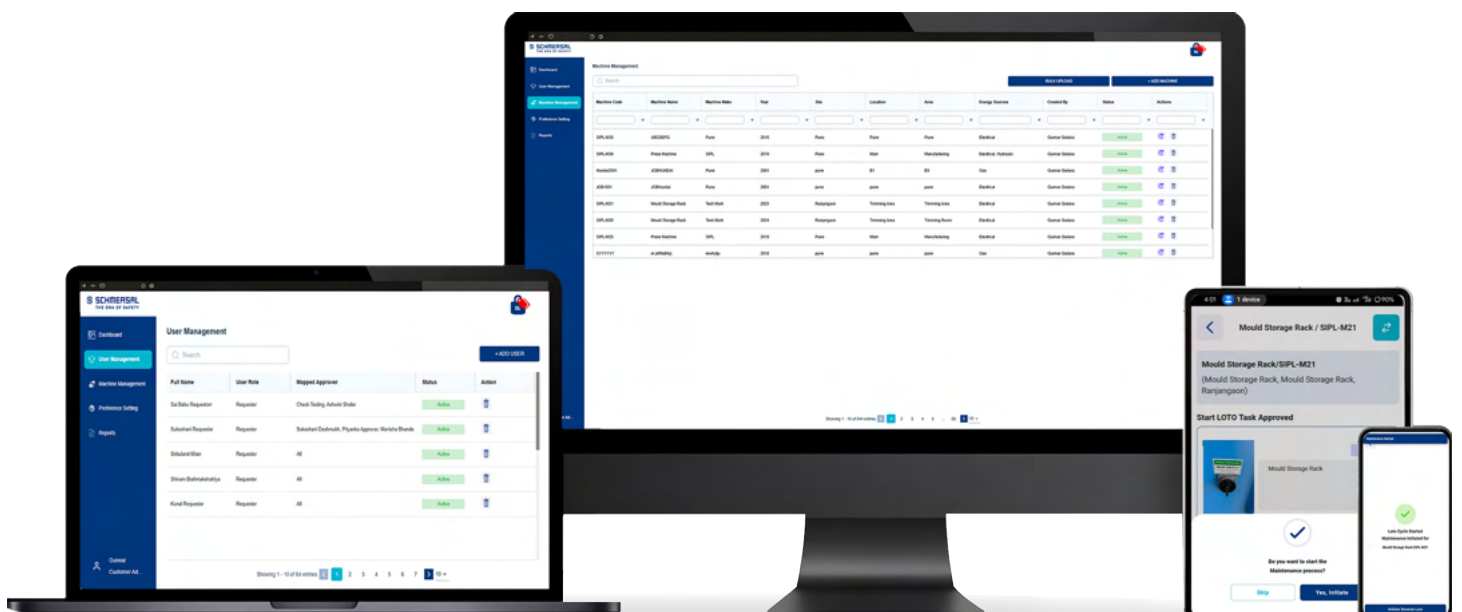
**tec.nicum**  
Schmersal Group



## What is tec.dloto?

tec.dloto is a powerful web and mobile-based Lockout/Tagout (LOTO) management platform that digitizes and simplifies the entire energy isolation process. It transforms traditional paper-based LOTO procedures into a secure, efficient, and fully digital system – enhancing worker safety, reducing operational delays, and ensuring audit readiness.

Designed for maintenance teams, safety officers, and plant leaders, tec.dloto delivers guided workflows, real-time monitoring, and centralized records to strengthen accountability across every LOTO activity. The platform is compliant with OSHA 29 CFR 1910.147 standards, ensuring organizations maintain compliant, consistent, and repeatable energy control procedures across all machines and sites.



# Why tec.dloto ?

tec.dloto is a smart, digital Lockout Tagout solution designed to replace paper-based processes with guided workflows, real-time visibility, and audit-ready records – ensuring safety, compliance, and efficiency in industrial environments

## 1 Outdated & non-standard procedures

Paper procedures are inconsistent and fail OSHA requirements.

✓ **Standardized, machine specific, OSHA compliant procedures with templates, approvals, and versioning.**

## 2 Missing or unclear isolation instructions

Generic procedures force technicians to rely on memory.

✓ **Annotated images, color coded markers, and visual step by step guidance.**

## 3 Using incorrect or unapproved procedures

Printed procedures become outdated but still circulate.

✓ **Only the latest approved procedure is shown on web, mobile, and tablet.**

## 4 Untrained or unauthorized personnel performing LOTO

Expired or unverified training leads to unsafe execution.

✓ **Skill Management checks training validity and blocks unauthorized users automatically.**

## 5 Lack of real time visibility

Supervisors cannot track LOTO progress or deviations.

✓ **Live dashboards showing who locked the machine and current status.**

## 6 No verifiable evidence for audits

Manual logs cannot prove what happened or when.

✓ **Timestamped actions, photos, approvals, and complete execution logs.**

## 7 Scattered machine data causing errors

Incorrect machine info leads to inaccurate procedures.

✓ **Centralized machine data auto populates procedures accurately.**

## 8 Slow rollout across large plants

Manual creation for hundreds of machines takes weeks.

✓ **Bulk uploads and bulk procedure creation for rapid, enterprise rollout.**

## 9 Inefficient paper based workflows

Paper logs make ownership unclear and slow down maintenance.

✓ **Role based permissions and full audit trails for clear accountability.**

## 10 Delays & downtime

Manual co-ordination leads to slow approvals and extended downtime

✓ **tec.dloto simplifies LOTO with mobile access and automated approvals, reducing machine downtime.**



## Powerful features Proven capabilities

### Visual accuracy at the point of work

Clear, annotated machine images guide technicians to the correct isolation points with confidence.

### Enterprise-standardized LOTO procedures

Unified, OSHA-compliant procedure templates ensure consistent formats across all machines and sites.

### Skill management & authorization control

Automatically validates training so only authorized, OSHA-compliant personnel can perform LOTO.

### Guided loto execution workflows

Digital step-by-step workflows capture evidence and prevent skipped or unsafe steps.

### Real-time LOTO monitoring

Live dashboards show lock status, user activity, and execution progress across all locations.

### Audit-ready compliance evidence

Versioned PDFs, timestamps, and activity logs provide instant, verifiable audit documentation.

### Centralized machine management

A single machine database auto-populates accurate details into every procedure.

### Bulk operations for rapid rollout

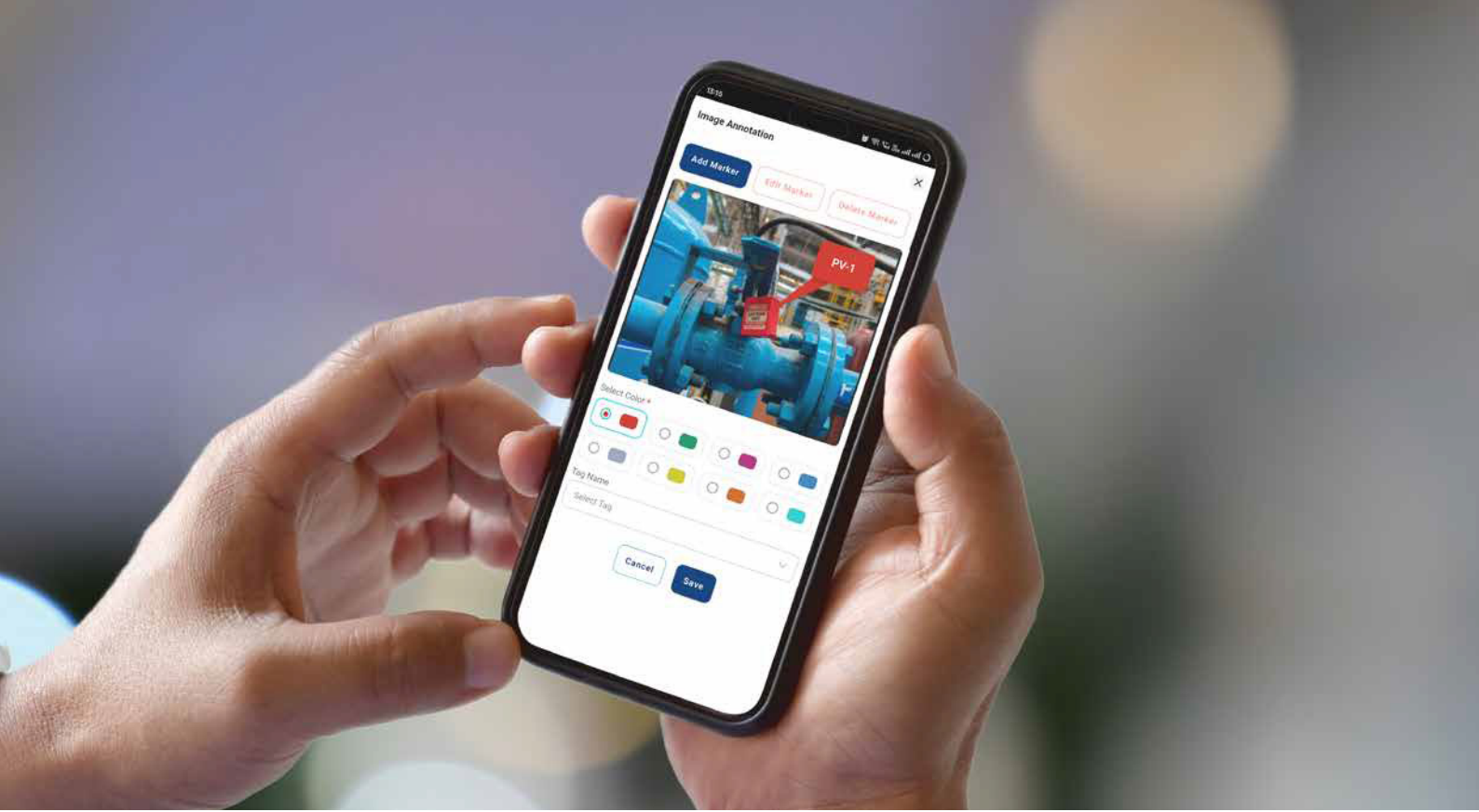
Bulk uploads and bulk procedure creation accelerate onboarding for large asset bases.

### Strong user roles & governance

Role-based access and complete audit trails ensure clear accountability across the LOTO lifecycle.

### Mobile-first loto enablement

Technicians access, execute, and approve LOTO directly from mobile devices with real-time updates.



## How tec.dloto works



### Procedure Management

- Create Machine Specific-Procedures
- Annotate images for isolation clarity
- Approve through structured workflow
- Download Auto generated PDFs

### LOTO Compliance

- Scan QR
- Follow the step-by-step instructions
- Capture Live Image
- Approval Workflow (Optional) Start Maintenance



### Reports

- Plant Level Reports
- Audit of Each LOTO Activity
- End to End Visibility

# Why teams choose tec.dloto

**Improves safety culture** with standardized, visual, and error proof LOTO workflows.

**Accelerates maintenance turnaround** through instant access to approved procedures and fast mobile approvals.

**Strengthens compliance confidence** with OSHA aligned workflows and fully audit ready digital records.

**Delivers real time LOTO visibility** using dashboards that track every lock, user action, and step across sites.

**Reduces training effort** by guiding new technicians with clear visual instructions and digital step by step flows.

**Eliminates paper dependency** by digitizing procedures, logs, approvals, and evidence capture end to end.

**Improves accountability & governance** with role based permissions and complete user level audit trails.

**Scales effortlessly across plants** using bulk uploads, standardized templates, and centralized machine data.

**Enables mobile first operations** allowing technicians to execute, capture evidence, and approve directly on the shop floor.

**Future proofs safety programs** with a modern platform ready for new modules like Permit to Work.





## Ready to go digital with Lockout / Tagout?

Have we sparked your interest?  
Then get in touch with us and request a demo!



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Watch our tec.dloto video  
for more information:  
[youtu.be/B2XpMBiq7HE](https://youtu.be/B2XpMBiq7HE)

# tec.nicum: global service and engineering hubs

tec.nicum – Solutions & Services GmbH is a subsidiary of Schmersal Group. It offers a wide range of services relating to machine and occupational safety.

tec.nicum comprises a global consultancy network of TÜV Rheinland-certified Functional Safety Engineers and Machinery CE Experts. Services can be called upon around the world.

The range of services at tec.nicum is based on six modules: training and workshops in the academy section, consultancy services in the consulting section, the designing of safety solutions in the engineering section, practical implementation in the integration section, the development of software solutions and new digital technologies in the digitalisation section and the provision of complete solutions in the outsourcing section.



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