LOTOTO

DEMO BOARDS AND SIMULATORS

Ensuring safety during the maintenance and repair of industrial machines using the Lockout Tagout procedure is crucial for preventing accidents and injuries. The LOTOTO simulator provides a realistic simulation of procedures, enabling effective employee training in a safe environment.

Key Advantages of Nexum LOTOTO Simulators

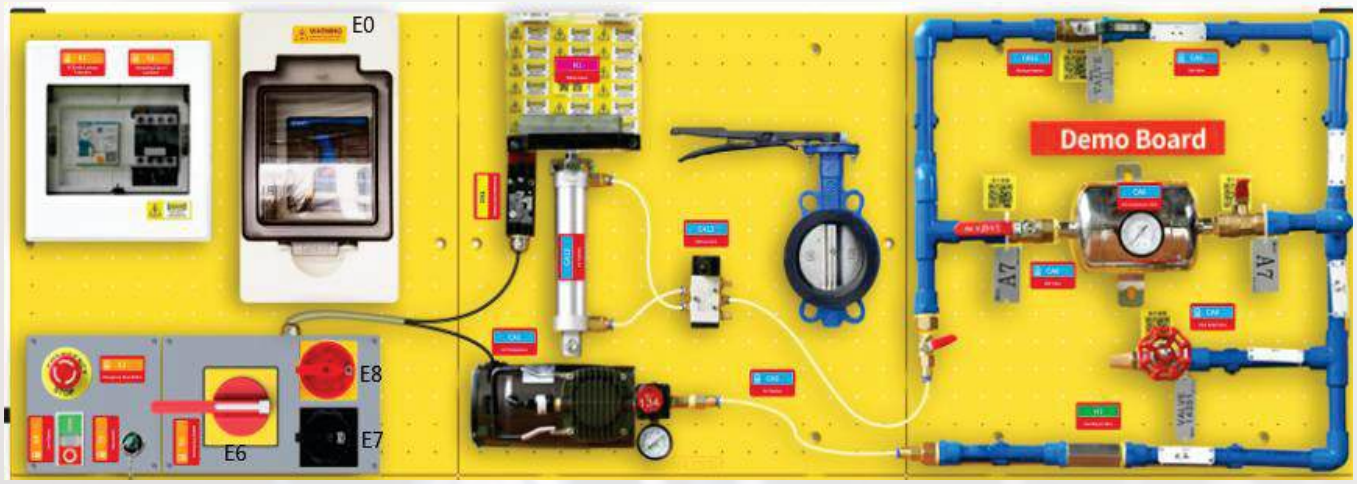
Realistic simulation
Eployees learn through practical examples that reflect real work situations.

Adaptability
The ability to customize configurations for different user needs.

Support
Consulting and collaboration with Nexum experts in user training preparations. This ensures faster and more efficient training without unnecessary elements.

By using simulators, your employees and potential external partners will be well-prepared for the daily challenges of safe work in hazardous areas.

Simulation Example: Pneumatic Cylinder Failure



STEP 1: Analyze the situation, review the attached LOTOTO procedure, and create a lockout plan based on it. What hazardous energies pose a risk, and how will we disable them? We can choose to perform a complete shutdown or simply isolate the air supply, which in this case is the only hazardous energy in the area where we will be working.

STEP 2: Use the control switches to stop the operation.

STEP 3: If we have opted for electrical isolation, we disconnect the power supply to the compressor; otherwise, we close the valves supplying air to the cylinder.

STEP 4: Perform lockout of the isolators (switches, valves) with lockout devices to prevent accidental reactivation or the supply of hazardous energy.

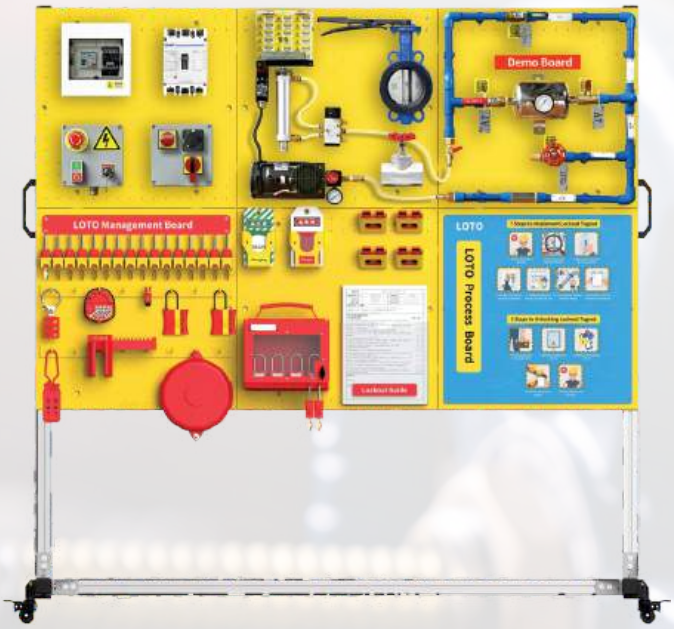
STEP 5: By opening the discharge valves, we release the air that remains in the system despite the shutdown and isolation.

STEP 6: Perform a check. Attempt to start the compressor, try to move the cylinder, and check the pressure on the pressure gauge.

STEP 7: Perform the work.

After completing the maintenance work, we prepare the work area for restart. We reinstall safety devices, remove tools and personnel, inform involved and at-risk individuals, and remove LOTOTO devices. The equipment is now ready for restart. The LOTOTO procedure is now complete.

Mobile Freestanding Simulation Panel



Dimensions: 1500 x 1530 x 610 mm
Weight: 45 kg
Components:

- **Electrical part:** Power cable for 230V power supply and connection cables for power and signals, main switch 3x, FID protection switch, contactor, control buttons and lock, emergency stop button, safety switch for protective cover, compressor, switch on the compressor.
- **Pneumatic part:** Pressure regulator, pressure vessel, compressor, valve with automatic discharge, manual shut-off ball valves 3x, shut-off valve for discharge, check valve, silencer, quick connectors, manual control valve for cylinder operation, connecting pipes.
- **Mechanical part:** Gravity weights on the pneumatic cylinder.
- **LOTOTO part:** Document space, space for lockout devices, group lockout box, holders for warning signs, instructions, equipment space, labels.

Simulation Case

Dimensions: 560 x 340 x 600 mm
Material: Aluminum and plastic
Weight: 36,6 kg
Komponente:

- **Electrical part:** Power cable for 230V power supply and connection cables for power and signals, main switch, FID protection switch, contactor, control buttons and lock, emergency stop button, safety switch for protective cover, compressor, switch on the compressor.
- **Pneumatic part:** Pressure regulator, pressure vessel, compressor, valve with automatic discharge, manual shut-off ball valves 3x, shut-off valve for discharge, check valve, silencer, quick connectors, manual control valve for cylinder operation, connecting pipes.
- **Mechanical part:** Gravity weights on the pneumatic cylinder.

The complete LOTOTO equipment required for simulations is also included. Several versions of simulation kits are available, with the most typical ones presented here. Please contact us for more information!

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