

PROVIDING **SAFETY**

WE PROTECT YOUR
most valuable asset
YOUR EMPLOYEES



safety switches | safety sensors | trapped key interlocks | lockout-tagout | machine guarding
process locks | safety laser scanner | enabling switches | safety simplifier | safety radar system

The TROAX logo is located in the top right corner. It consists of the word "TROAX" in a bold, sans-serif font, with a registered trademark symbol (®) to its upper right. The text is white and is flanked by two horizontal white bars, one above and one below.

TROAX®

SAFE LOCK

LOCK UP, AND PLAY IT SAFE

PROTECTING PEOPLE, PROPERTY, AND PROCESSES.

SAFE AT ALL TIMES.

AT TROAX, WE HAVE MORE OR LESS ONLY ONE THING IN MIND. SAFETY. AND MORE SPECIFICALLY, WE THINK OF SAFETY IN TERMS OF KEEPING PEOPLE, PROPERTY, AND PROCESSES SAFE.

OUR SOLID AND RELIABLE SAFE LOCK IS ONE OF THE TOOLS TO ACHIEVE THIS MISSION. IT IS DESIGNED TO PROTECT YOUR PERSONNEL AND TO KEEP YOUR PRODUCTION RUNNING.

AS SIMPLE AS IT MAY SEEM, IT WILL MAKE IT EASIER TO KEEP YOUR PERSONNEL SAFE AT ALL TIMES.



The Safe Lock is easily affixed to the panel frame using only two bolts.



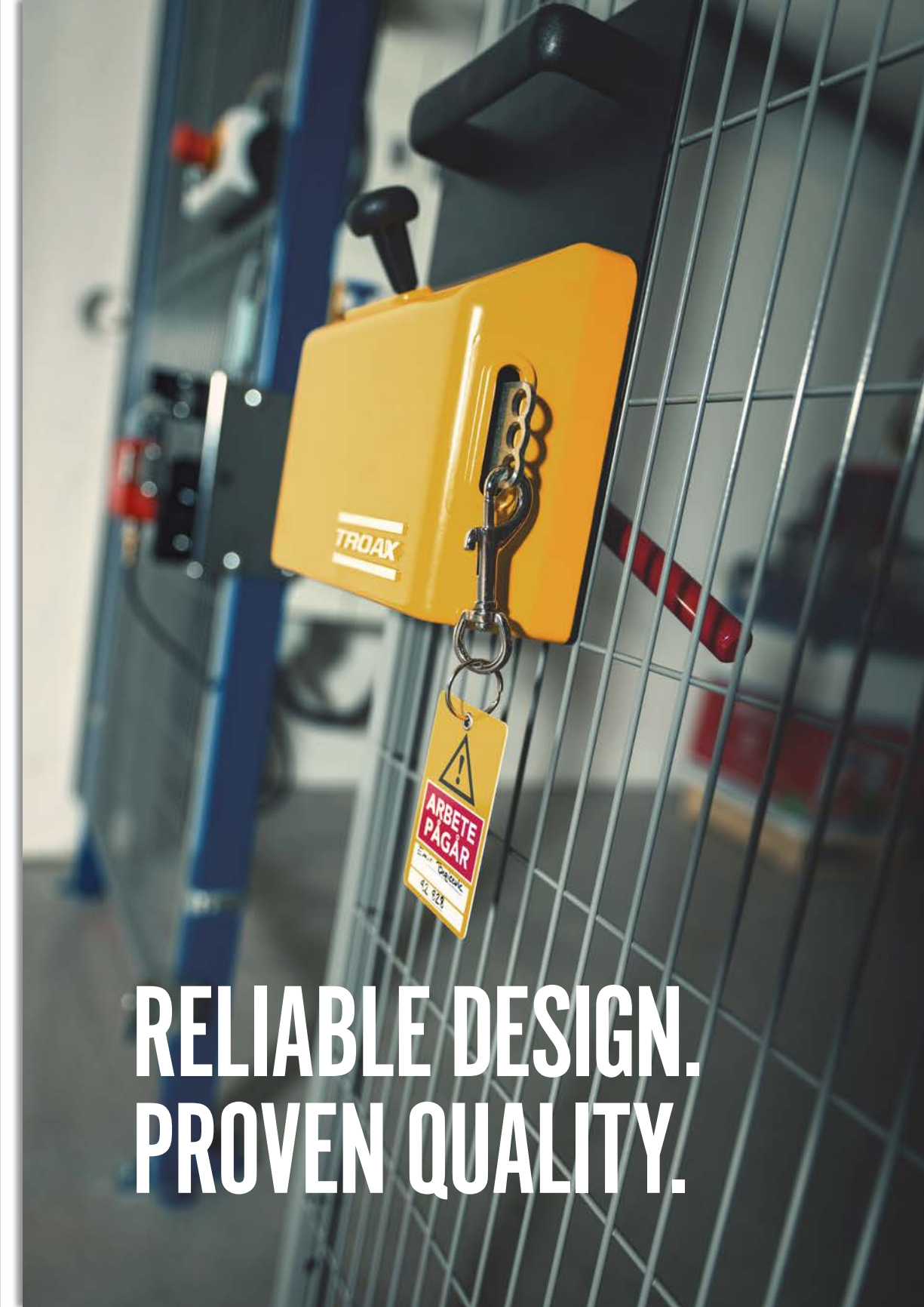
A padlock can be used to prevent the door from being locked during maintenance operations.



Mount a blind rivet to prevent the Safe Lock from being defeated.



The escape release handle is designed to fit between the existing mesh apertures avoiding the need to cut any wires.



**RELIABLE DESIGN.
PROVEN QUALITY.**

GET A CLOSER LOOK AT OUR SAFE LOCK!

WITH SEVERAL USEFUL FEATURES, THE TROAX SAFE LOCK IS BOTH EASY TO ASSEMBLE AND EASY TO USE. ALL IN ALL, A NEAT, SMART – AND SAFE – SAFE LOCK!

The metal front cover can only be disassembled from the reverse side.

The emergency release handle can only be activated from the inside.

Padlock loops to secure the door in open position during maintenance.

The Troax Safe Lock fits all of our machine guarding doors: hinged, sliding, telescopic, linear and folding.

The screws are torx with pin for extra security.

A smooth, easy grip, knob for locking/unlocking of the Safe Lock.

The Safe Lock is supplied with brackets enabling you to use whichever switch you choose.



SWITCH TO SAFETY FIRST.

WHICH SAFE LOCK YOU CHOOSE DEPENDS ON THE REQUIRED PERFORMANCE LEVEL OF YOUR MACHINE GUARDING PROCESS, AND WHICH SWITCH SUPPLIER YOU PREFER. TROAX OFFERS A BROAD VARIETY OF SOLUTIONS TO SUIT MOST SWITCHES, AND YOU CAN CHOOSE TO HAVE THE SAFE LOCK SUPPLIED WITH OR WITHOUT THE SWITCH INCLUDED.

The switch actuator is mounted in the Safe Lock and will be supplied together with the fixings required to easily mount the switch to the Troax machine guarding door.

The result of your risk assessment will determine the required performance level required of your safety control system. The performance level is a measure of the reliability and architecture of a safety function using a scale from "a" to "e" with "e" being the highest level. To calculate the performance level of a safety function a number of things must be considered, including frequency of use, cabling and production environment. With our Safe Lock you will find many options reaching both PLd and PL e safety levels.

Safe Locks with guard locking (PLd GL/ PL e GL) protect hazardous areas where the hazard is not immediately removed after a stop request. On many machines, removing power to the motor will not immediately stop the dangerous motion. Typical applications are high inertia rotating machines and machines where high pressure needs to be released from pneumatic and hydraulic valves.

When choosing a Safe Lock equipped with a guard-locking switch, the switch must be equipped with an escape release button in order for the escape release handle to operate correctly and Troax provide several options for this.



PERFORMANCE LEVEL **d**

For low, medium to high risk applications where the machine stops immediately when the door is opened.

SWITCH OPTIONS

Guardmaster Trojan 5, Telemecanique XCS-A702, Schmersal AZ16-12 ZVRK, Euchner NZ1VZ-2131D.



PERFORMANCE LEVEL **e**

For medium, high to very high risk applications where the machine stops immediately when the door is opened.

SWITCH OPTIONS

Guardmaster Sensaguard 440N-Z21SS2HN, ABB/Jokab Eden, PilzPSEN cs 3.1, Euchner CES-AP-CL/CR2, Schmersal RSS260, Telemecanique XC SRC30.



PERFORMANCE LEVEL **d GL**

For low, medium to high risk applications. The safety switch locks the actuator until the machine is in a safe state for the door to be opened.

SWITCH OPTIONS

Guardmaster TLS1-GD2*, TLS2-GD2*, TLS3-GD2*, SICK i200*, Telemecanique XCS-E7412 +7312* +7512*, Euchner TZ1, Schmersal AZM 161*, Siemens 3SE5312.

*An escape release button must be added.



PERFORMANCE LEVEL **e GL**

For medium, high to very high risk applications. The safety switch locks the actuator until the machine is in a safe state for the door to be opened.

SWITCH OPTIONS

Guardmaster TLS-Z GD2, Euchner CTP.

Further information about performance level is available in EN ISO 13849-1.

Information about interlocking devices in combination with guards can be found in ISO 14119.

MAKING YOUR WORLD SAFE

