TROAX™

Safety Solutions for Industrial Automation and Robotics



Designed for automation. Proven under pressure.

Where people and machines work side by side, safety is the foundation of performance. We understand automated production, its pace, its pressures and the risks that arise where robots, conveyors, Autonomous Mobile Robots and operators meet. Every interface has different safety requirements, and every minute of unplanned downtime can cost a large global operation thousands in revenue, making uptime critical. Safe commissioning and reliable operation therefore need to be built in from the start.

Matched to the risks and access requirements of each area, our solutions help manufacturers protect people, support compliance and keep automated operations running safely as production evolves.



Wherever robots and people meet, we've got the solution.

Standard and high-payload robot cells
Every robot cell, conveyor and application guarded at the right energy level.

Welding cells
Contain welding spatter and shield surrounding areas from hazardous arc radiation while guarding the robot's full reach.

Collaborative robots and cobots
Defining safe boundaries between people and machines.

AMR and AGV integration
Keep people and automated vehicles apart and reconfigure as the fleet grows.

Conveyor and automated material handling
Guard every transfer point and automated-to-manual crossing.



Safety that improves performance. That’s Troax.

Providing everyday safety that helps each employee get home safely after each shift is a privilege. But for us, it does not stop there. Industrial safety does more than protect people, property and processes. It delivers higher uptime, greater adaptability and lower long-term costs.

The widest offering, one partner

With 70 years of setting the standard in industrial safety, Troax is trusted by leading companies worldwide. We combine the widest offering across every segment with high-quality modular systems, tailored or standard, giving you one partner for all your operations. Our solutions are designed to improve performance today, adapt tomorrow and stand the test of time. In short: smooth, smart and cost-effective.

Global reach, local service

With manufacturing on three continents and sales organisations in more than 40 countries, we combine global capacity with local service. The result is short lead times, reliable deliveries and expert help close to where it is needed.

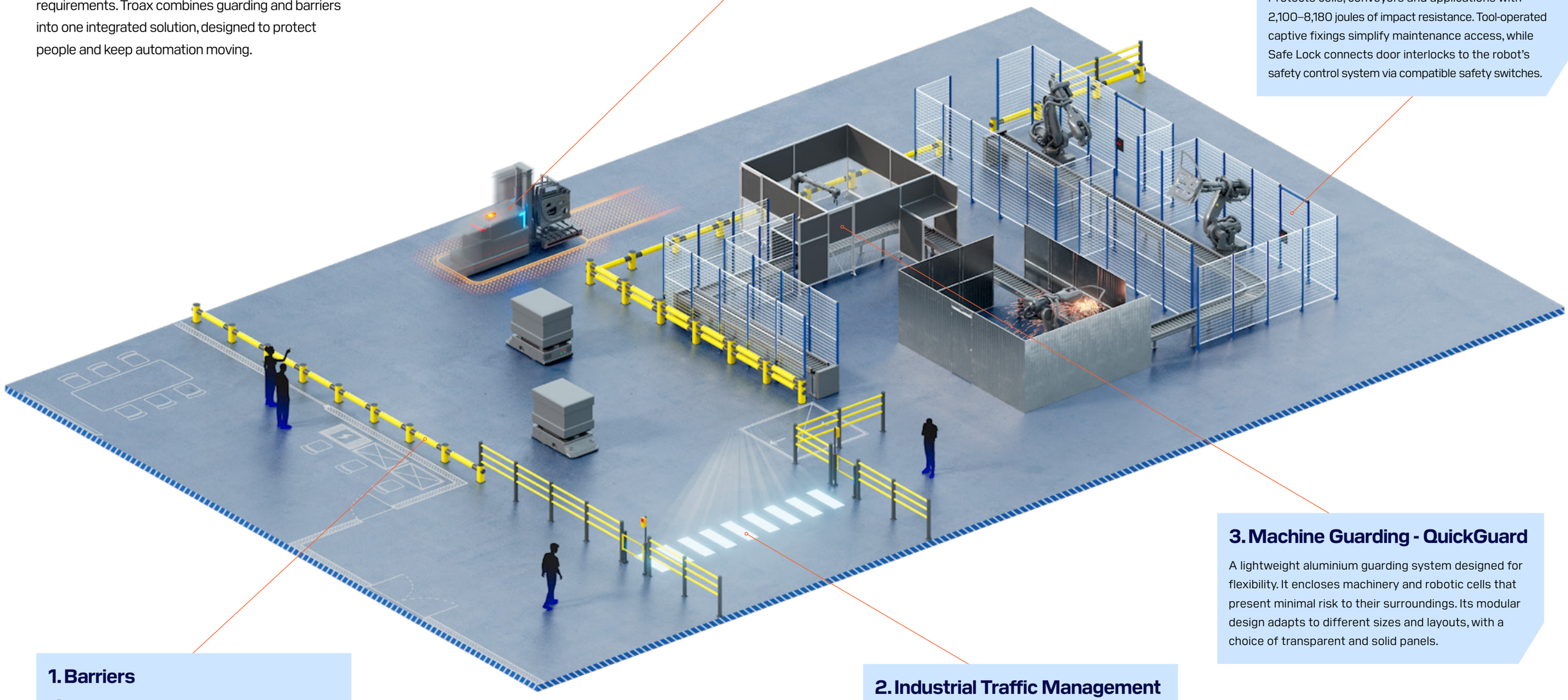
Tools and support at every stage

We support the full process from planning and specification to installation and beyond. After handover, we remain available with training, spare parts and maintenance. Digital tools simplify planning, configuration, ordering, assembly and documentation.

Beyond Safety. That’s Troax.

From robot cell to a full AMR fleet, every interface covered.

Every automated environment brings its own safety requirements. Troax combines guarding and barriers into one integrated solution, designed to protect people and keep automation moving.



1. Barriers

TÜV-certified polymer barriers absorb and recover from forklift and AGV impacts, guarding cell perimeters, conveyor infrastructure and equipment at high-traffic points. As layouts change, they reconfigure without replacing what is already installed.

2. Industrial Traffic Management

Manages access, guides traffic and warns drivers and pedestrians at crossings, junctions and loading docks, helping reduce collision risks where people and vehicles meet.

3. Machine Guarding - QuickGuard

A lightweight aluminium guarding system designed for flexibility. It encloses machinery and robotic cells that present minimal risk to their surroundings. Its modular design adapts to different sizes and layouts, with a choice of transparent and solid panels.

4. Machine Guarding

Protects cells, conveyors and applications with 2,100–8,180 joules of impact resistance. Tool-operated captive fixings simplify maintenance access, while Safe Lock connects door interlocks to the robot's safety control system via compatible safety switches.

5. Safety Fleet Management

Brings vehicle location, access control, impact monitoring and operating data together in one cloud-based platform, supporting safer driving and planned maintenance.

Built for automation and robotics. Trusted by leaders.



1. Barriers

- Keep people and infrastructure safely separated from vehicle traffic.
- Flexible polymer absorbs impact, helping protect machinery, racking and concrete floors.
- Less damage, less downtime and lower total cost of ownership, year after year.
- Corrosion-resistant, UV-stabilised, TÜV-certified and PAS 13 compliant, with food-contact compliant options.
- Barrier solutions for every risk point, from pedestrian segregation to racks and storage.



2. Industrial Traffic Management

- Optimised movement and flow where people and vehicles meet.
- Solutions for every crossing, dock and junction: Pedestrian segregation, mixed-traffic environments, traffic control and loading dock gates.
- Warns drivers and pedestrians early, even in blind spots and poor visibility.
- Alert systems, cameras and projected warnings.
- Supports automatic speed reduction in designated high-risk zones where supported by the system.



3. Machine Guarding – QuickGuard

- Encloses machinery and robotic cells that present minimal risk to their surroundings.
- A few standard components create endless configurations: change the width, length and height, and add doors, windows, hatches and openings.
- A range of infill options to suit visibility require ments: mesh, transparent polycarbonate, or solid steel sheet.
- Light, corrosion-resistant profiles with a screw-lock system for fast assembly and easy on-site adjustments.



4. Machine Guarding

- Keeps operators safely separated from machinery while maintaining efficient production flow.
- Impact-tested and TÜV-certified as a complete system, protecting against access to hazards and ejected parts.
- Engineered for every risk level, from standard separation to high-impact protection.
- Fast to install, easy to reconfigure and designed to adapt as production evolves.
- Designed to support compliance with the EU Machinery Regulation and relevant safety standards, including EN ISO 14120 and EN ISO 13857.



5. Safety Fleet Management

- Provides visibility of vehicle performance, safety, location and access.
- Restricts vehicle access to authorised operators.
- Connects vehicles through onboard hardware and software, recording movements, operators and impacts.
- Supports safer driving through traceable impacts, safety events and cloud-based reporting.
- Uses operating data and alerts to support planned maintenance.

Verified by certifications, standards and reality.

It is no coincidence that Troax is the clear market leader, with three times the market share of the number two player. The world's leading companies choose us because they trust our experience, our innovation and our ability to deliver.

Our R&D teams keep pushing boundaries, developing new products for the demands of modern industry. In our own Test Centre, every solution is put through rigorous testing, so both we and our customers know it will perform when it matters most. Independent certification verifies that our testing is sound, repeatable and transparent.

Troax is also the world's first mesh panel company to have its test method certified by TÜV Rheinland.

Our solutions are designed, tested and documented to the standards that govern industrial safety, including EN ISO 14120, with our test methods independently certified by TÜV Rheinland. Our operations are backed by certified management systems, with ISO 9001 for quality and ISO 27001 for information security in our connected solutions. We also offer support for risk assessments, CE marking and audits.





Safety that performs. Built responsibly.

At Troax, sustainability is a long-term commitment, built into the way we operate. We are committed to reducing the environmental impact of what we manufacture, protecting people throughout our value chain and conducting business with integrity. This commitment guides our decisions across product design, sourcing, production, logistics and governance. We believe in leading by example.

Our operations are certified to ISO 9001 for quality management, complemented by ISO 27001 certification for information security in our connected product solutions. Selected Troax facilities hold EcoVadis Gold or Silver ratings in recognition of their sustainability performance.

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When safety is designed and delivered at the highest level, what begins as protection becomes a platform for performance. It brings teams clarity and focus, makes operations run more smoothly and perform at their best.

This is what defines Troax. We create the conditions for every operation to perform at its best – by guarding people, property and processes from harm.

Seven decades of leadership have taught us that real safety goes beyond prevention. It is the foundation on which performance is built.

Beyond Safety

TROAX™
Beyond Safety

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