

# Custom & Specialized Container Solutions

## *Engineering Portfolio*

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Engineering-driven container solutions for demanding technical environments

Certified systems for energy storage, hazardous materials and infrastructure

ATEX / EX compliant designs where required

Custom-built containers based on project-specific requirements

Certified manufacturing for international projects

# POLKONT Container Solutions Portfolio

*A structured overview of our engineering and container capabilities*

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ENERGY, ATEX & SAFETY-CRITICAL SYSTEMS → p. 6

SECURITY, ACCESS & CERTIFICATION → p. 8

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# Engineering Expertise & Application-Driven Container Solutions

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## Engineering Expertise & Design

Structural and load-bearing container design with certified modifications

FEM-based calculations and engineering simulations

Fire safety, risk mitigation and safety concept development

HVAC, thermal and acoustic management solutions

Electrical, control and technical systems integration

Design compliant with international standards and authority approval processes

## Application-Driven Container Solutions

Structural and load-bearing container design with certified modifications

Chemical and hazardous materials storage systems

Secure storage and controlled-access containers

Technical infrastructure containers (power, gas, utilities)

Modular container complexes and special-purpose installations

Highly customized container projects with certified modifications

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# Safety, Compliance & Certification

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ATEX / EX zone container design and documentation (where required)

Risk assessment and safety concept development

Fire protection systems and mitigation strategies

FEM-verified designs reviewed by authorized bodies

Certified manufacturing, testing and quality audits

CSC recertification and approval for modified containers

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# Why POLKONT Containers?

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In-house engineering & FEM (no outsourcing)

Proven experience in safety-critical projects

ATEX / CSC / fire safety know-how

One partner: design → certification → delivery

EU manufacturing & quality audits

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# Energy Storage Containers & Integrated Safety Solutions

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Containerized enclosure for Battery Energy Storage Systems (BESS)

Integrated fire suppression systems

Engineered ventilation and thermal management

ATEX / EX compliance available (Zone 2 / Zone 1 – upon request)

Custom-engineered layout based on client system architecture



# Chemical & Hazardous Materials Storage Containers



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ATEX / EX zone-ready design & documentation

A/C , forced ventilation and gas detection systems

Spill retention and leak prevention

Fire safety and risk mitigation measures

Engineered for industrial and energy applications



# Secure Storage & Controlled Access Container Solutions

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Container solutions for secure storage

Controlled and monitored access configuration

Integrated power and ventilation systems

Industrial and infrastructure applications

Custom layout based on project requirements



# Leak Containment and Protective Interior Systems

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Spill containment systems with leak-tightness verified by testing

Spray-applied polyurea coating systems providing seamless protection

Cladding and flooring systems in steel, aluminum, and chemical-resistant materials

High-load access grating and working surfaces, including non-sparking solutions

Thermal and acoustic insulation applied in accordance with site and operational requirements



# Modified Containers with CSC Recertification

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FEM-based engineering design and calculations

Authority review and design acceptance

Structural testing at certified test stations

Controlled production and quality audits

Final approval and CSC certificate issuance



# Engineered Internal Systems & Equipment

A close-up photograph of industrial lifting equipment. It features a grey metal pulley system with a yellow safety label, mounted on a yellow structural beam. Two heavy-duty metal chains are attached to the pulley. The background shows a perforated metal ceiling.

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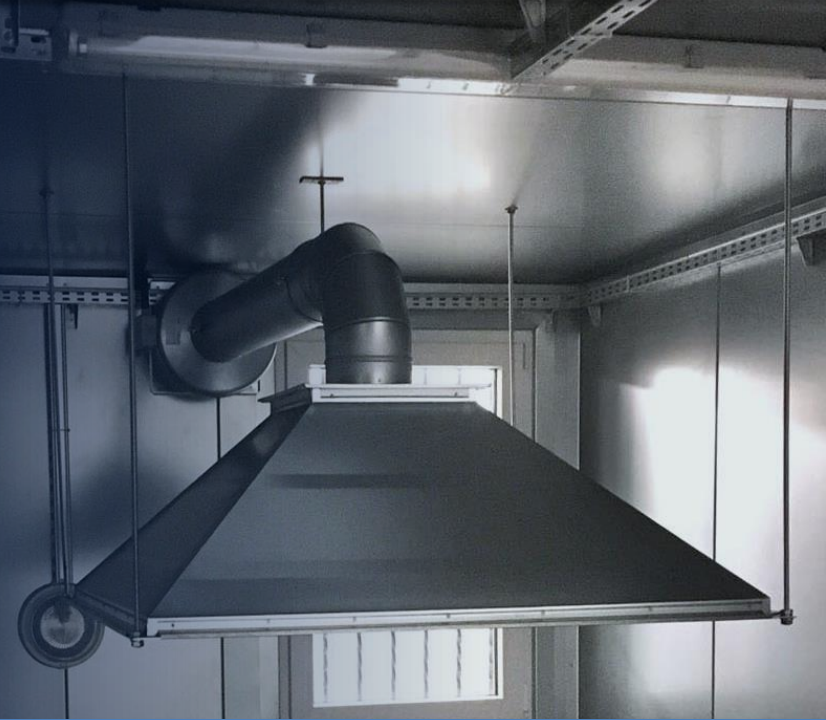
Custom-designed internal equipment and support systems

Structural calculations for static and dynamic loads

Integration of lifting, ventilation and process equipment

Compliance with industry standards and client specifications

Engineered for long-term industrial operation



# Technical Container with Integrated Crane System



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Integrated overhead crane for internal Operations

Structural reinforcement for dynamic loads

Designed for heavy-duty industrial use

Custom-engineered solution



# Mobile Technical Container Solutions for On-Site Applications

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Containerized mobile technical systems

Designed for transport and rapid deployment

Suitable for industrial, energy and infrastructure applications

Integrated technical and process installations

Plug & play operation



# Power & Utility Infrastructure Containers



POLKONT Containers | [www.polkont.pl](http://www.polkont.pl)

Containerized enclosures for power and gas infrastructure

Designed for transformer substations and gas reduction stations

Integrated ventilation, fire safety and access control

Compliance with utility and grid operator requirements

Engineered for continuous and outdoor operation



# Civil Protection & Municipal Infrastructure Containers



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Containerized solutions for civil protection and public services

Designed for municipal and emergency infrastructure

Secure storage and operational space for critical equipment

Durable construction for long-term outdoor deployment



# Training & Operational Infrastructure Containers

POLKONT Containers | [www.polkont.pl](http://www.polkont.pl)

Reinforced structures with integrated safety systems

Engineered for uniformed services and institutional users

Secure access and controlled internal environment

Designed for long-term, intensive operation

Integrated ventilation, lighting and technical installations



# Modular Infrastructure Solutions - Container Based

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Large-scale modular container infrastructure

Utility and public infrastructure application

Turnkey delivery including engineering and fabrication

Scalable, repeatable and relocatable systems



# Heavy Engineering Container Modifications

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Load-bearing structural redesigns

Custom steel constructions and external frameworks

Process-ready penetrations and flanged connections

Multidisciplinary integration: mechanical, electrical, HVAC

Engineered for industrial and utility applications

# Special Purpose Lifestyle Containers



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Container saunas and home gyms

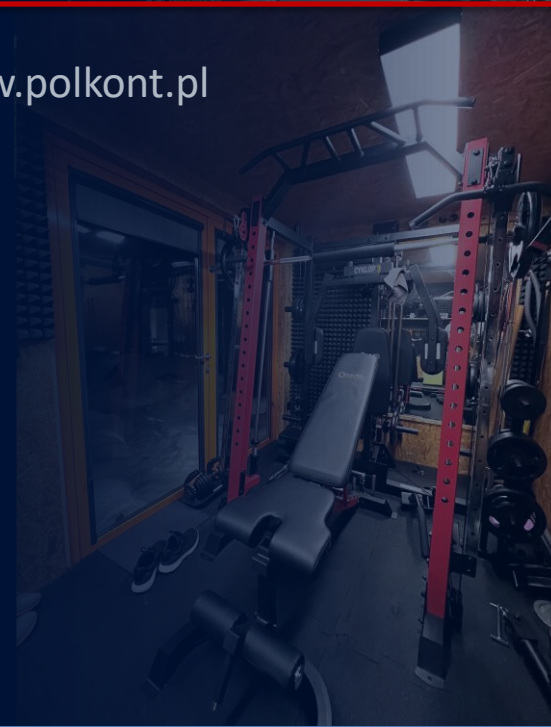
Designed for everyday comfort and relaxation

Ready-to-use interiors with natural finishes

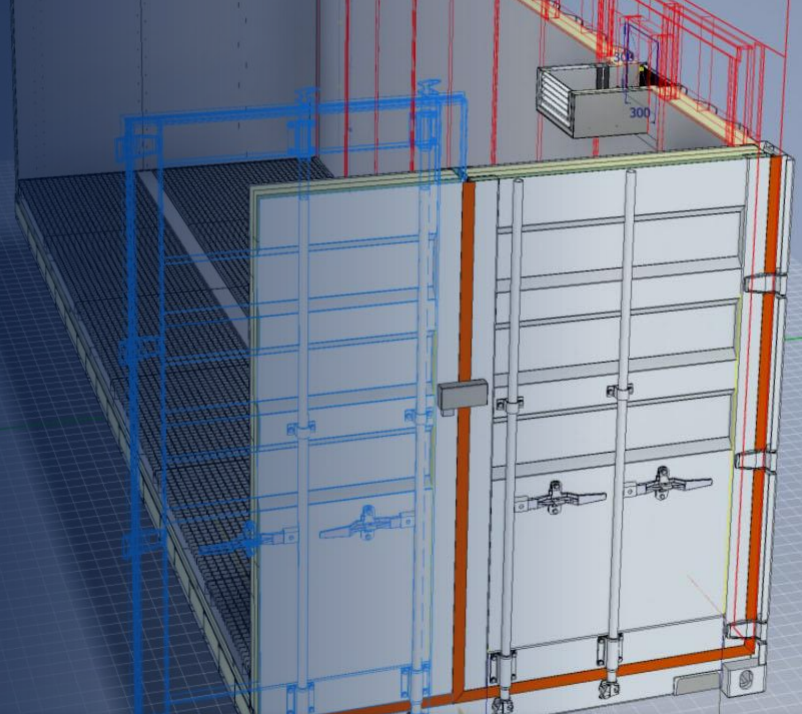
Proper thermal insulation for year-round use

Fast installation with minimal site preparation

Custom layouts tailored to individual needs



# From Engineering Design to Certified Deployment



POLKONT Containers | [www.polkont.pl](http://www.polkont.pl)

FEM-based engineering design and verified load calculations

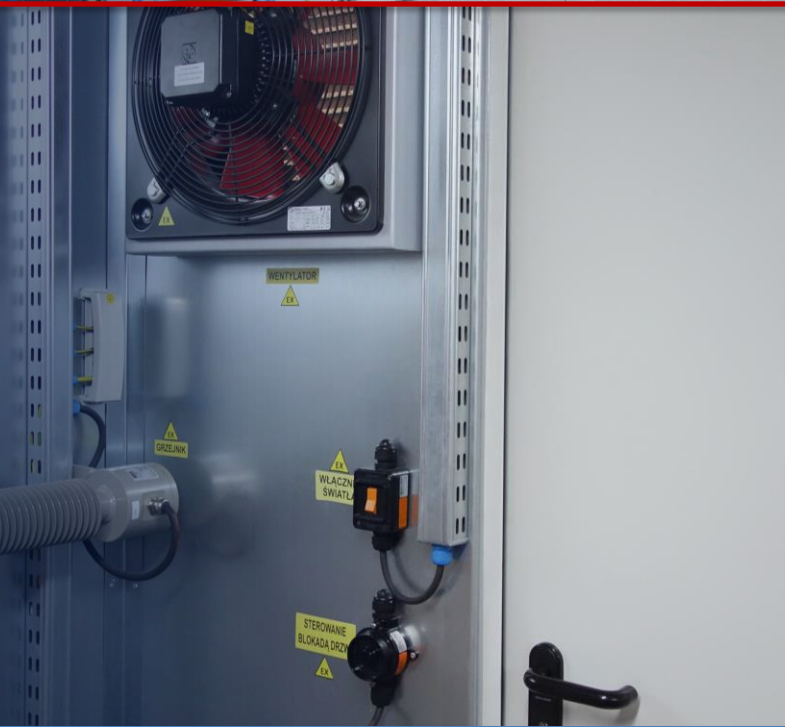
Defined safety concept and compliance scope

ATEX / EX hazardous area classification and design (where applicable)

Authority review, approval and independent verification

Certified testing: structural, leak-tightness and functional validation

Audited manufacturing, final certification and deployment readiness



# Engineered. Tested. Certified. Delivered.

Engineering, testing, certification and delivery — under one roof

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Custom-engineered container systems

Compliance with international standards and authorities

Proven experience in safety-critical applications

Scalable solutions from single units to large programs

Long-term partnership and technical support

**Early-stage engineering support**

 [sales@polkont.pl](mailto:sales@polkont.pl)

 [www.polkont.pl](http://www.polkont.pl)

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