

# Sustainability and Minimal Environmental Impact

## MPS-System Ltd.

At MPS-System Ltd., we are committed to sustainability and minimizing our environmental footprint. Our approach integrates innovative technologies, responsible practices, and a deep commitment to environmental stewardship. Here's how we ensure our operations are aligned with these values:

- **Sustainable Materials and Processes**

We prioritize the use of eco-friendly materials and sustainable processes in our production. By leveraging advanced technologies, we minimize waste and optimize resource efficiency. Our powder coating technology, for instance, produces minimal volatile organic compounds (VOCs) and ensures a high transfer efficiency, reducing material waste.

- **Energy Efficiency**

Our facilities are designed to be energy-efficient, utilizing state-of-the-art systems to reduce energy consumption. We invest in renewable energy sources, such as solar and wind power, to offset our carbon footprint. Energy-efficient lighting, heating, and cooling systems further contribute to our sustainability goals.

- **Waste Reduction and Recycling**

We implement comprehensive waste management strategies to minimize our impact on the environment. This includes recycling and reusing materials wherever possible, and ensuring that any waste generated is handled responsibly. Our processes are designed to maximize material usage and reduce scrap.

- **Water Conservation**

Water is a precious resource, and we take steps to minimize our water usage. Our manufacturing processes are optimized to use water efficiently, and we employ water recycling and treatment systems to ensure that we minimize our impact on local water resources.

- **Sustainable Supply Chain**

We work closely with our suppliers to ensure that they adhere to sustainable practices. By sourcing materials responsibly and promoting sustainable practices throughout our supply chain, we extend our commitment to sustainability beyond our immediate operations.

- **Continuous Improvement and Innovation**

Sustainability is an ongoing journey. We are constantly seeking new ways to improve our processes and reduce our environmental impact. Through research and development, we explore innovative technologies and practices that further our sustainability goals.

- **Employee Engagement and Community Involvement**

Our commitment to sustainability extends to our employees and the communities we serve. We engage our workforce in sustainability initiatives, providing training and encouraging environmentally responsible behaviors. Additionally, we support community projects and partnerships that promote environmental conservation and sustainability.

- **Compliance and Certification**

We adhere to all relevant environmental regulations and standards, and strive to exceed them wherever possible. Our commitment to quality and sustainability is reflected in our adherence to international standards, such as ISO and EN, which guides our environmental management system.

By integrating these principles into our operations, MPS-System Ltd. ensures that we contribute positively to the environment while delivering high-quality products and services. Our dedication to sustainability not only benefits the planet but also enhances the long-term viability and success of our business.

## **Ultra Low Power Consumption of Our Devices**

We prioritize energy efficiency in the design and development of our devices. Our rain gauges are engineered to operate with exceptionally low power consumption, making them both cost-effective and environmentally friendly. Here's how our devices stand out:

### **1. Ultra-Low Power Consumption**

Our rain gauges are designed to consume minimal power, ensuring long-term, uninterrupted operation. Specifically, these devices operate at a consumption rate of only 4mA at 5V. This low power requirement translates into several key benefits:

- **Extended Battery Life:** With such low power consumption, our rain gauges can run for extended periods on standard batteries, reducing the need for frequent replacements and maintenance.
- **Cost Savings:** Lower power usage means reduced energy costs, making our devices a more economical choice for customers.
- **Environmental Impact:** By consuming less power, our rain gauges contribute to a smaller carbon footprint, supporting our commitment to sustainability and environmental responsibility.

### **2. Low Power Heating**

Our rain gauges feature a heating system that consumes only 12W of power. This low power consumption ensures that the devices remain energy-efficient, providing key benefits:

- **Automatic Activation Below 4°C**

The heating system is designed to activate automatically when the temperature drops below 4°C. This feature ensures that the rain gauge continues to operate accurately in freezing conditions by preventing the accumulation of ice and snow.

- **Parameterization Capability by Remote App**

Our rain gauges offer the flexibility of parameterization, allowing users to customize the heating settings according to their specific requirements.

### **3. Ideal for Remote and Off-Grid Locations**

The low power requirements of our rain gauges make them perfect for deployment in remote or off-grid locations where power sources are limited or unavailable. These devices can be easily integrated with solar panels or other low-power energy solutions, providing flexibility and ease of installation.

### **4. Advanced Technology Integration**

Our commitment to innovation means that our rain gauges incorporate the latest advancements in low-power technology. This not only enhances their efficiency but also ensures that they remain at the forefront of industry standards.

### **Conclusion**

We understand the importance of energy efficiency and sustainability. Our devices, with their ultra-low power consumption of 4mA at 5V, exemplify our dedication to providing high-quality, reliable, and environmentally responsible products. Whether for use in urban settings, remote areas, or off-grid applications, our rain gauges offer an efficient and sustainable solution for accurate weather monitoring.

## **Materials**

### **Use of Recyclable Materials: Stainless Steel and Aluminum Alloy**

We are dedicated to sustainability and environmental responsibility, which is why we prioritize the use of recyclable materials such as stainless steel and aluminum alloy in our production processes. These materials offer numerous environmental and performance benefits that align with our commitment to creating a sustainable future.

## 1. Stainless Steel

Stainless steel is a highly durable and recyclable material, making it an ideal choice for sustainable manufacturing. Here's why we choose stainless steel:

- **Recyclability:** Stainless steel is 100% recyclable. At the end of its useful life, it can be recycled into new stainless steel products without any loss of quality. This reduces the need for raw material extraction and minimizes waste.
- **Durability:** Stainless steel's corrosion resistance and strength mean that products made from this material have a long lifespan, reducing the frequency of replacement and the associated environmental impact.
- **Energy Efficiency:** Producing stainless steel from recycled material requires significantly less energy compared to producing it from virgin materials. This helps in reducing our overall energy consumption and greenhouse gas emissions.

## 2. Aluminum Alloy

Aluminum alloy is another sustainable material we utilize, known for its recyclability and lightweight properties. Key benefits include:

- **Recyclability:** Aluminum alloy is also 100% recyclable. Recycling aluminum saves up to 95% of the energy required to produce aluminum from raw materials. This makes it one of the most efficient materials in terms of energy savings and resource conservation.
- **Lightweight:** The lightweight nature of aluminum alloy reduces transportation energy costs and emissions. This makes it an excellent choice for applications where weight reduction is crucial, such as in the automotive and aerospace industries.
- **Versatility:** Aluminum alloy's versatility allows it to be used in a wide range of products, enhancing design flexibility and functionality while maintaining a focus on sustainability.

## Commitment to Sustainability

Our commitment to using recyclable materials like stainless steel and aluminum alloy reflects our broader sustainability strategy. By incorporating these materials into our production processes, we:

- **Reduce Environmental Impact:** Using recyclable materials helps lower our carbon footprint and decreases the demand for raw material extraction, which can have significant environmental impacts.
- **Promote Circular Economy:** We support the principles of a circular economy by ensuring that materials are kept in use for as long as possible, and that they can be fully recycled at the end of their lifecycle.
- **Enhance Product Lifecycle:** Products made from stainless steel and aluminum alloy have extended lifecycles due to their durability and recyclability, contributing to resource efficiency and waste reduction.

We are proud to integrate sustainable practices into our operations, from material selection to production processes. Our use of recyclable materials like stainless steel and aluminum alloy not

only supports our environmental goals but also ensures that we deliver high-quality, sustainable products to our customers.

## **Surface Treatment Technologies**

Surface treatment of materials is based on aluminum and its alloys. We use powder coating technology. Upon agreement, we also powder coat other materials, such as stainless steel.

**Pretreatment** – Degreasing, pickling, etching of the material, followed by the creation of a conversion layer of chromium via chromating (green chromating according to DIN 50939). This ensures perfect adhesion of the coating layer to the base material and simultaneously increases its corrosion resistance.

The application of the powder coating is ensured by the Tribo system, which creates an even coating with a thickness of 60-130µm.

### **Properties of powder coating**

- Excellent resistance to corrosion and UV radiation
- Perfect flexibility (profiles can be shaped even after powder application)
- Ability to reapply new color coatings
- Wear resistance and high aesthetic appearance

Powder coating achieves a high aesthetic appearance and is important for the wear resistance of coated products. Powder coating is performed on an automatic line and manually based on customer requirements.

### **COLORS**

Color range according to the RAL scale. We use powder coatings from Tigerwerk and Jotun Corro-Coat. Based on customer requirements, we also use coatings from other manufacturers. We use powder paints from various suppliers and a wide range of RAL color shades in different finishes:

- Polyester (intended for outdoor use)
- Polyester facade (intended for outdoor use with higher UV resistance)
- Paints with various textures – smooth, fine or coarse textured
- Paints with various gloss levels – glossy, semi-gloss, matte

### **ADVANTAGES**

**Pretreatment (chromating)** – Ensures perfect adhesion of the coating to the base material and increases its corrosion resistance. Guaranteed quality: Our technological line includes a laboratory where we control the quality of the coating layer. We also perform tests on aluminum sheets attached to the hung material. We conduct bend tests as well. To ensure and document quality, we continuously measure achieved parameters – gloss, thickness, grid test, etc. We archive measurement protocols and samples.

**We comply with standards EN ISO 2409, EN ISO 2813, EN ISO 2360.**

**List of Certificates of our suppliers:**

AMSET s.r.o. – ISO9001:2016

I.G.C.STROJAL s.r.o. – ISO9001:2015

TROX Tech Trade s.r.o. – EN ISO 3834-2:2021

TROX Tech Trade s.r.o. – ISO 9001:2015

TROX Tech Trade s.r.o. – ISO 14001:2015

ZAL - Zlievareň Al, spol. s r.o. – EN ISO 9001:2015



Slovakia

# CERTIFIKÁT

**TÜV SÜD Slovakia s.r.o.**  
**Certifikačný orgán systémov manažérstva**

akreditovaný SNAS  
osvedčenie o akreditácii č. Q-011

potvrďuje, že organizácia

**amset**  
INDUSTRIAL ELECTRONICS PRODUCTION

**AMSET s.r.o.**  
Jakubovo námestie 3  
SK – 811 04 Bratislava  
IČO: 17 328 969

Prevádzka:  
**Sliačska 2D**  
**831 02 Bratislava**

zaviedla a používa  
systém manažérstva kvality v oblasti

**Výroba priemyselnej elektroniky.**

Auditom, správa č. **1759/20/20/Q/AS/R1**

bolo preukázané, že sú splnené  
požiadavky normy

**STN EN ISO 9001:2016**

Certifikát je platný od **2020-09-24** do **2023-09-23**

Registračné číslo certifikátu **Q 1759-2**



Bratislava, 2020-09-24

TÜV SÜD Slovakia s.r.o.  
Certifikačný orgán systémov manažérstva  
člen skupiny TÜV SÜD  
Jašíkova 6, 821 03 Bratislava





Certification body CERTICOM



issues this

# CERTIFICATE

confirming that the organization



**I.G.C.STROJAL s.r.o.**

Priemyselná 12/939,  
965 63 Žiar nad Hronom

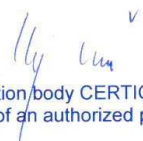
has implemented and applies a quality management system  
in accordance with requirements of standard  
**ISO 9001:2015**

**For the scope:**

Production and sale of chimney systems.  
Production and sale of components for sports facilities.  
Surface treatment of metals by technology of powder coating.

**The certification audit proved that the quality management system  
complies with the requirements of the aforementioned standard.**

Registration number: CM6410922/1  
Valid till: October 27, 2025  
Date of issue: October 28, 2022

  
Certification body CERTICOM  
signature of an authorized person



# CERTIFICATE



Czech

**TÜV SÜD Czech – CERTIFICATION BODY**  
which carries out the assessment and certification of products

Product certification body No. 3084, accredited by the Czech Accreditation Institute  
according to ČSN EN ISO/IEC 17065:2013

hereby certifies that the organization

**TROX Tech-Trade, s.r.o.**  
**Velkomoravská 4270/89B**  
**CZ - 695 01 Hodonín**  
**Company Registration No.: 60708361**

for the following fields / processes of activities:

**Design and development, production of air conditioning,  
Custom manufacturing of atypical products from thin sheets**

has implemented and uses a welding process which conforms to

**EN ISO 3834-2:2021**

Number of the Audit Report: **14.948.490**

Validity of certificate: **29.11.2027**

Certificate number: **14.948.389**

Certification scheme: EN ISO 3834-2:2021

Details and validity conditions are stated in the annex to this certificate which forms  
its integral part and contains 1 page.

Prague, on 29.11.2022



  
Head of the Certification body





# MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:  
243736-2017-AQ-CZS-RvA

Initial certification date:  
04 August 2005

Valid:  
04 August 2023 – 03 August 2026

This is to certify that the management system of  
**TROX Tech-Trade, s.r.o.**  
Velkomoravská 4270/89B, 695 01, Hodonín, Czech Republic

has been found to conform to the Quality Management System standard:  
**ISO 9001:2015**

This certificate is valid for the following scope:  
**Design and development, production and sales of air conditioning.  
Job-order manufacturing of atypical products from thin sheets.**

Place and date:  
Praha, 28 July 2023



For the issuing office:  
DNV - Business Assurance  
Thákurova 4, 160 00 Praha, Czech Republic

Eva Merhoutová Kolenovská  
Management Representative



# MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:  
243737-2017-AE-CZS-RvA

Initial certification date:  
04 August 2005

Valid:  
04 August 2023 – 03 August 2026

This is to certify that the management system of  
**TROX Tech-Trade, s.r.o.**  
Velkomoravská 4270/89B, 695 01, Hodonín, Czech Republic

has been found to conform to the Environmental Management System standard:  
**ISO 14001:2015**

This certificate is valid for the following scope:  
**Design and development, production and sales of air conditioning.  
Job-order manufacturing of atypical products from thin sheets.**

Place and date:  
Praha, 28 July 2023



For the issuing office:  
**DNV - Business Assurance**  
Thákurova 4, 160 00 Praha, Czech Republic

**Eva Merhoutová Kolenovská**  
Management Representative

Certifikát SK10/0927

SGS

Systém riadenia spoločnosti

## ZAL - Zlievareň Al, spol. s r.o.

Továrenská 651/2, 4, 6  
967 01 Kremnica

bol preverený, certifikovaný a vyhovel požiadavkám

### EN ISO 9001:2015



Pre tieto činnosti

#### Výroba a predaj odliatkov z hliníkových zliatin.

Podrobnejšie vysvetlenie týkajúce sa rozsahu tohto certifikátu a aplikácie EN ISO 9001:2015 je možné získať u organizácie.

Tento certifikát je platný od 18. mája 2022 do 17. mája 2025 a zostáva v platnosti v prípade úspešných dohľadových auditov.

Recertifikačný audit je potrebné vykonať minimálne 60 dní pred uplynutím doby platnosti.

Vydanie 6. Certifikovaný s SGS od 26. mája 2004



Schválil

Ing. Róbert Bodnár  
Riaditeľ

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Kysucká 14, 040 11 Košice, Slovakia  
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Strana 1 z 1



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