



**SMAL**

Manufacturing  
Plastics

Your Partner in Plastic Innovation



# Our team

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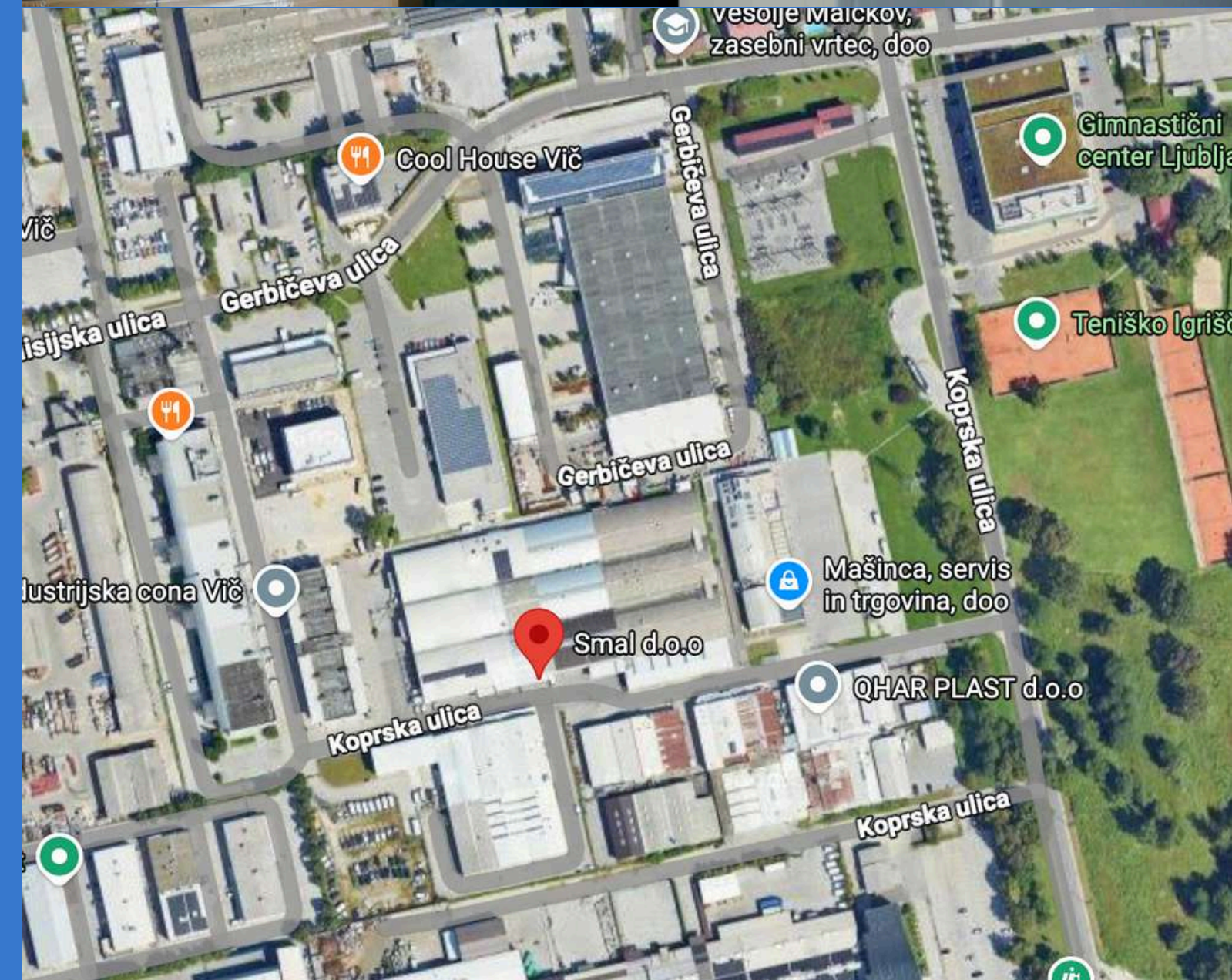
Your Partner in Plastic Innovation

# About us

## Company Location & Operations Overview

- Based in Ljubljana, Slovenia, operating from Industrijska Cona Vič.
- Strategic location near the highway — ideal for quick access to major transport routes.
- Efficient logistics:
  - Small batch deliveries handled through our own transport services.
- Ensures shorter delivery times, timely, and safe shipments.
- 600 m<sup>2</sup> operational space, optimized for flexibility and fast response.
- Our compact facility enables efficient asset utilization and supports the Just-in-Time (JIT) approach to meet client needs swiftly and effectively.

SMAL, production, trade, import-export d.o.o.  
SMAL d.o.o.  
Koprska street 58a  
1000 Ljubljana  
Tax number: SI43406840  
Registration number: 5553822000  
SI56 3400 0101 5392 581 (Sparkasse d.d.)



# History

**1992**

The company started at home with a single plastic molding machine, producing Ika cards, frisbees, and water guns from plastic and paper.

**2015**

We provided outsourcing support for Hella Saturnus, producing casing for headlight modules when their own capacity was exceeded, ensuring timely delivery and quality.



**2005**

Stopped producing toys and shifted focus to semi-finished products, components, caps, and custom plastic solutions.

**2017**

Began collaboration with IMP Water Pumps, producing NMTX housings for pumps and skeletons for consoles.



**2014**

We moved to a larger facility to support our growing production needs, providing additional space for molding machines, storage, and processing, enabling higher efficiency and capacity.

**2018**

We established a partnership with SIBO Group, starting to produce and outsource caps for major clients like P&G and Johnson & Johnson and Novartis a relationship that remains strong and thriving today.



# Introduction

We specialize in the moulding of both small and large products, tailored to the unique needs of our clients. Over the years, our solutions have been used in:

- Fashion
- Automotive industry
- Cosmetics
- Home appliances
- Electronic components
- other...

Our long tradition, combined with continuous innovation, ensures that we provide reliable, precise, and cost-effective plastic moulding solutions.



# Industries we are a part of

Industry	Products	Typical Size
Cosmetics	Caps, inserts, applicators, closures	Medium–large
Supplements / Pharmaceuticals	Caps, scoops, closures	Large
Fashion	Hangers, metal inserts	Large
White Goods / Appliances	Technical parts / semi-finished products	Medium
Automotive	Small parts / semi-finished products	Medium–large
Electronics	Housings, covers / semi-finished products	Medium
Furniture	Caps, spacers, feet	Large
POS / Advertising	Holders, clasps	Medium
Agriculture	Connectors, protective parts	Large



# Procurement Pain Points vs. SMAL Solutions

Procurement Challenges	How SMAL Solves Them
<b>Inconsistent quality &amp; rework</b>	Precision-engineered semi-products with <b>zero-defect control</b> , full <b>traceability</b> , and <b>repeatable results</b> .
<b>Delayed deliveries</b>	<b>On-time logistics</b> using in-house transport for small batches and trusted partners (KEUHNE NAGEL) for larger shipments.
<b>Lack of technical expertise</b>	Engineering support from concept to production – <b>design optimization, testing, and validation</b> for injection moulding.
<b>Hidden costs or inefficiency</b>	<b>Cost-efficient production</b> using automation, hot runner systems, and waste-minimizing processes.
<b>Limited traceability &amp; compliance</b>	Every batch is <b>fully documented and traceable</b> , ensuring <b>quality consistency</b> and <b>regulatory compliance</b> .
<b>Sustainability pressure</b>	<b>Eco-conscious operations:</b> closed water system, recycled materials, minimal waste, and reduced emissions.
<b>Low flexibility</b>	Ability to handle <b>small or large batches</b> , with quick adaptation to project or schedule changes.
<b>Supplier reliability risks</b>	<b>Stable partnerships</b> , preventive tool maintenance, and production redundancy to avoid downtime.

# Custom Options



## Robot serving

our automated systems ensure superior quality, consistent precision, and faster repeatability in every production cycle.



## Materials

We utilize modified and hybrid plastics such as PC/ABS, ASA, HIPS, PET-G, and glass-filled PA or POM TPE, TPU, TPV...



## Hot runner system

Our hot runner system enables quicker production cycles, consistent part quality, and minimal material waste.

## Sustainable & High-Performance Materials

- Made from coconut fiber (kokos vlakna) and corn starch (koruzni)
- Designed to match conventional plastic strength
- Certified: EN 13432, ISCC PLUS, OK Bio-based
- Benefits:
  - Lower carbon footprint
  - Renewable & traceable sources
  - Eco-friendly without performance loss



# Sustainability factors

## Committed to Environmental Responsibility

At our company, we prioritize sustainability and eco-friendly practices across all aspects of our operations. We have implemented measures to minimize pollution, reduce waste, and optimize energy usage in our production processes. From responsible material sourcing to efficient manufacturing methods, every step is designed to lower environmental impact. Our goal is to ensure that high-quality products are delivered while maintaining a safe and sustainable footprint for future generations.



## Closed Rater Cooling

ENSURING EFFICIENT OPERATIONS, REDUCED WATER USAGE, AND A LOWER ENVIRONMENTAL FOOTPRINT.

## Plastic Waste Management

BY GRINDING DEFECTIVE PARTS WITH MILLS AND REUSING THE MATERIAL

## Hot Runner System

MINIMIZES PLASTIC WASTE WHILE ENSURING FASTER CYCLES AND CONSISTENT PART QUALITY.

# End-to-End Traceability

## Why It Matters:

Ensures fast recalls, complete production traceability, and reinforces our commitment to quality and customer trust.



## Source → Manufacture → Ship

### Raw Material

Material: PE (Polymers)  
Batch: PP-240315A  
Received: 15 Mar 2025

### Production

Machine: DEMAG  
SUMMITOMO  
220T  
Batch: IM-2025-0316-03  
Quality Check:  Passed

### Transport & Preparation

Transferred to Line 3  
Process: Dried, logged, and verified  
Operator: J. Smith

# Quality

At SMAL d.o.o., our success depends on the consistent quality of our products and services.

We are committed to excellence through precision, reliability, and customer satisfaction.

Quality at SMAL d.o.o. means:

- Strict compliance with all production and control standards.
- Verified, documented quality checks.
- Products that meet or exceed customer expectations.
- On-time delivery and dependable service.
- Honest, transparent, and supportive customer relationships.
- Clear communication and flexible solutions tailored to client needs.

Our Promise:

We deliver quality you can trust, on time, every time, building long-term partnerships through reliability and integrity.





01

### **Design & Engineering**

We start by analyzing your concept or technical drawing to ensure it's optimized for injection moulding. Our engineering team evaluates geometry, tolerances, and material compatibility to guarantee tool reliability and cost-efficient production.

02

### **Tool & Mould Production**

Once approved, we create high-precision moulds using CNC machining and EDM technology. Each mould is built for longevity and dimensional stability enabling thousands or millions of consistent shots.

03

### **Testing & Sample Validation**

Before full production, we perform first-article tests and sample runs. We measure shrinkage, surface finish, and fit to ensure that each part meets visual and dimensional standards. Any necessary adjustments are made until the mould produces perfect, repeatable parts.

04

### **Automated Injection Moulding & Assembly**

With validated moulds, we move into robotic, automated injection moulding. Our systems handle insert placement, part extraction, and assembly minimizing human error and improving cycle times.

05

### **Quality Control, Packaging & Repeat Production**

Each batch undergoes dimensional inspection and visual quality checks. We provide packaging, labelling, and logistics tailored to client needs, with optional storage for small batches and moulds. All production data are recorded for exact reproduction in future orders.

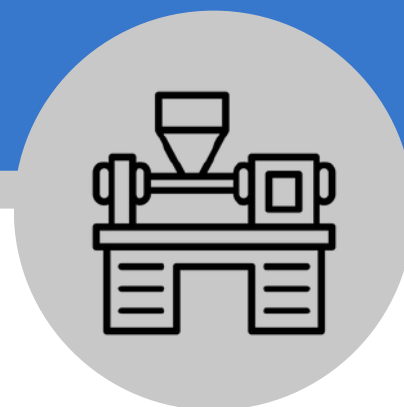


# Our Services



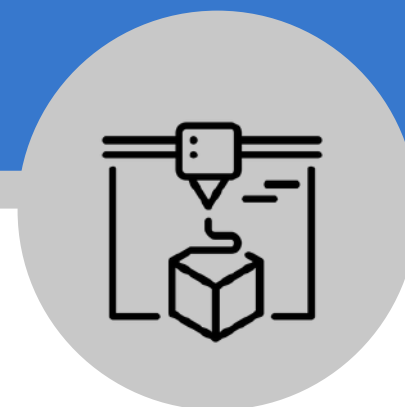
## Logistics

We provide tailored logistics, with in-house delivery for small batches and reliable partners for larger shipments, guaranteeing on-time and secure delivery every time.



## Injection Plastic Moulding

Precise injection molding across various materials and industries, supported by hot runner systems for faster cycles, minimal errors, and reduced waste.



## Pad Printing

We offer flexible pad printing solutions for logos, labels, and custom markings, available in multiple colors to create a professional and visually appealing finish for your products.



## Packaging & storage

We pack your products exactly as you prefer in boxes, plastic wraps, or custom packaging solutions tailored to your needs.

# Current capabilities

## **Clamping Force: 500 kN – 2100 kN**

Suitable for a wide range of part sizes and complexities.

## **Injection Weights:**

Up to 400 g

Enables production of small and larger components with consistent quality.

## **Mold Manufacturing Size: Up to 580 × 700 mm**

Supports large and complex plastic components.

## **Flexible Color Options:**

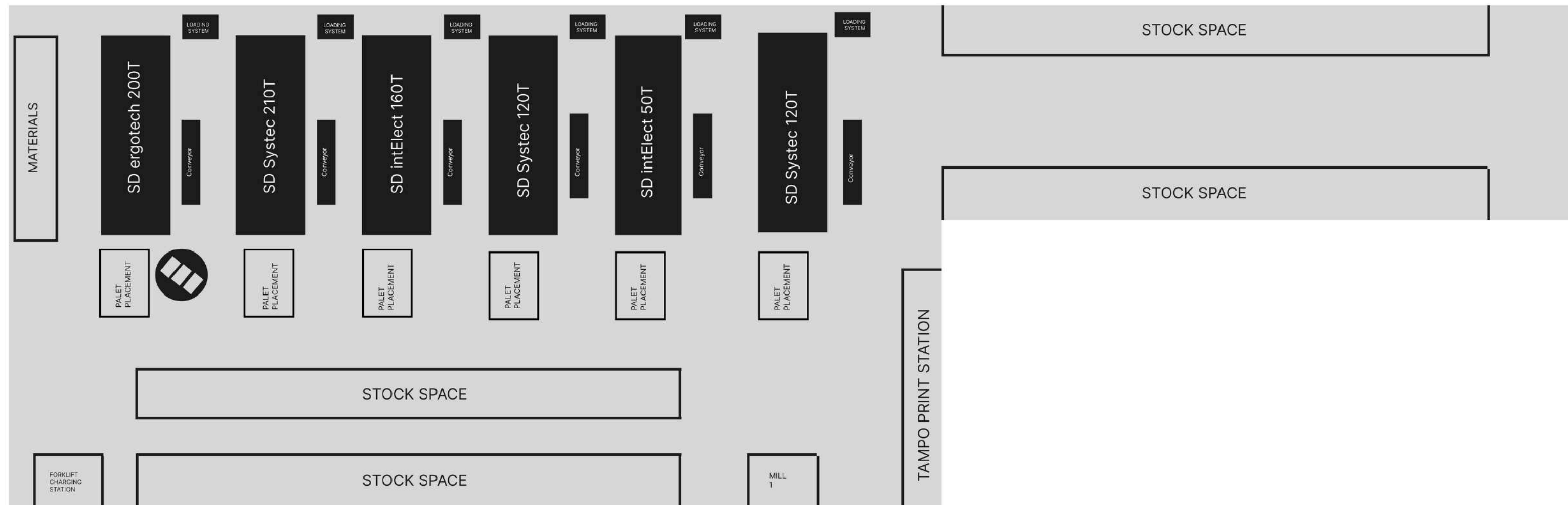
Base materials can be custom-colored to meet branding or design requirements, creating visually appealing and unique products.

## **3D Prototyping**

Base materials can be custom-colored to meet branding or design requirements, creating visually appealing and unique products.



# Company Bird eye view



# Equipment

## Injection moulding machines

- Sumitomo DEMAG intElect 50 110
- Sumitomo DEMAG Systec 120-430
- Sumitomo DEMAG Systec 120-430
- Sumitomo DEMAG intElect 160 - 680
- Sumitomo DEMAG Systec 210 - 840
- DEMAG ergotech 200/560 - 840 System

## Other

- 10x Conveyors Mass International S.r.l. NC
- 15x FEEDING AND TRANSPORT – SUCTION UNITS AND AUTOMATIC EXCHANGE SYSTEM
- 6x Colour Dosing
- 6x SD05 DRYERS– DP604-615
- 2x Robot table for feeding boxe's
- 1 ROBOT FOR FEEDING



# Forvia Hella

Auto-Moto



**Plastic housing For:**

**HELLA's 90mm LED Headlight Classic  
Modules with Low Beam**

**Hella® 012488101 - L4060 3.5" Round Low  
Beam Driver and Passenger Side LED  
Headlight Projec**

# Danfoss

Electronic

*Danfoss*

**Levers for Danfoss ,  
Housing for different products**



# IMP Pumps

Electronic

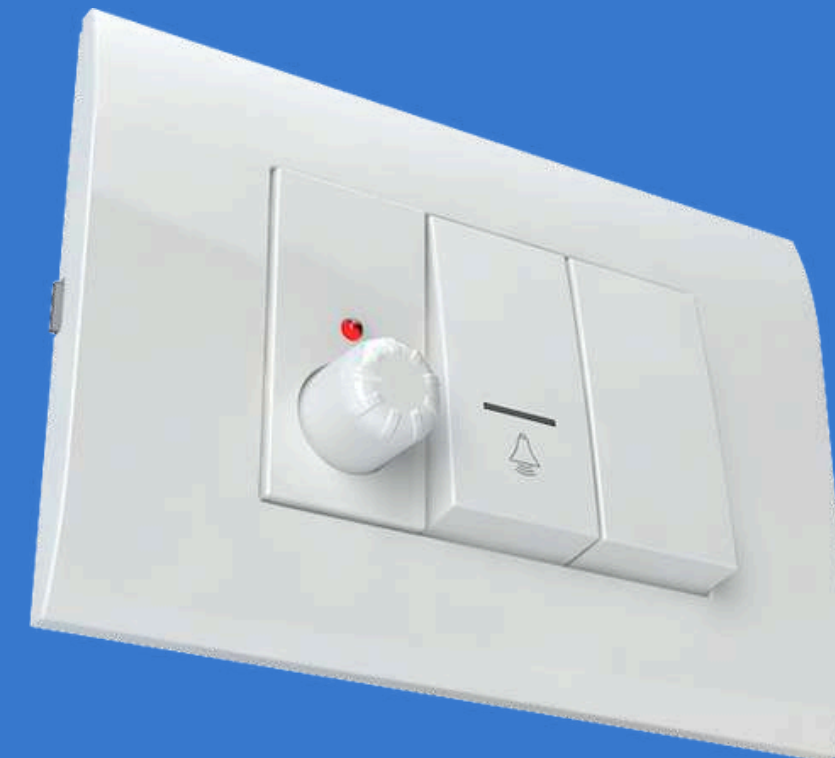


**Plastic housing for NMTMAX  
& Small consoles**



# Elektro Material

Electronic



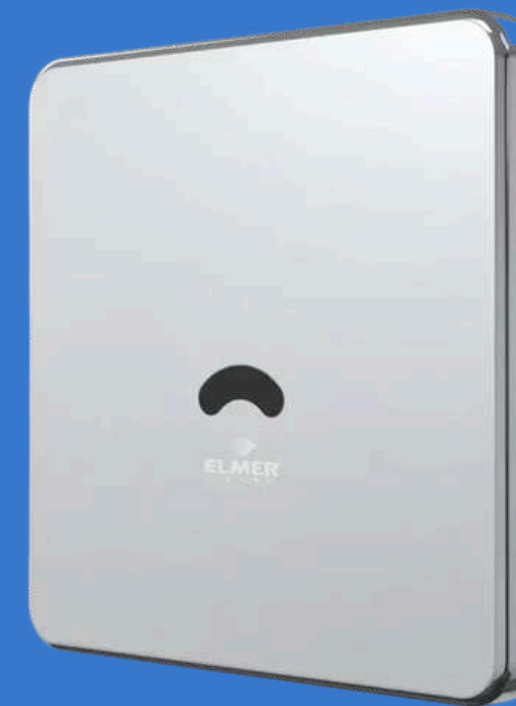
**Plastic housing for housing of various switches**

# Elmer

Electronic

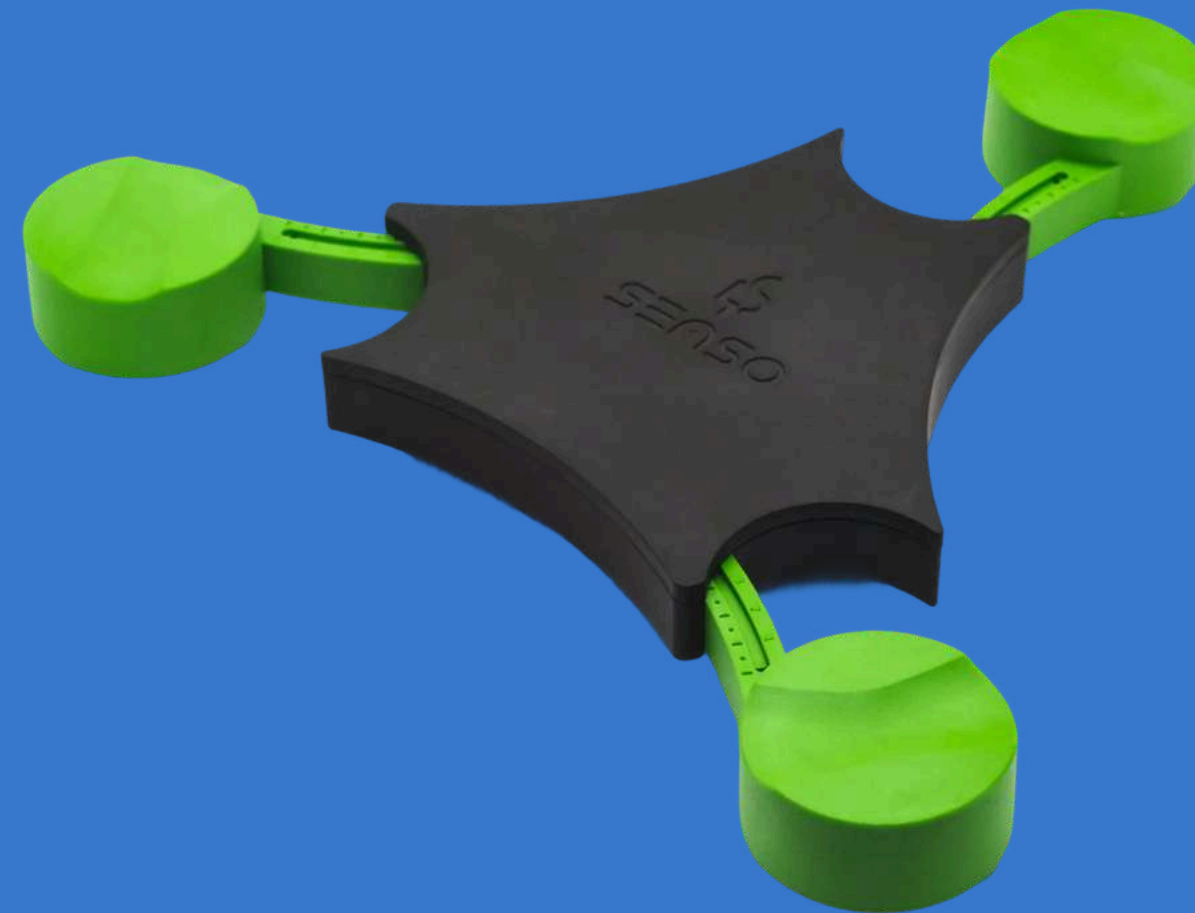


**Plastic housing for Elmer bathroom  
sensors**



# SENSO

Electronic



**All plastic components for the sensor and telescopic legs**

# ETI

Electronic

# ETI

**Housing for relays (electronial  
components)**



# Hyla

Appliances



**Vacuum cleaner components**



# SIBO

Cosmetics



**Caps and closures for various packaging  
(toothpaste, hand creams)**

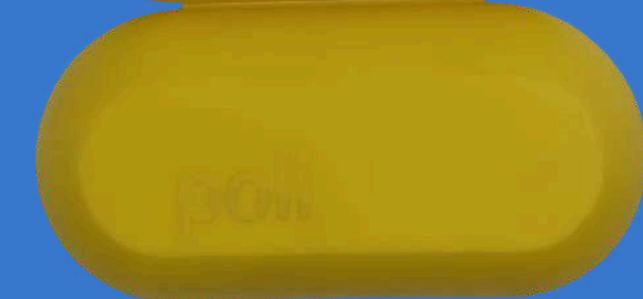


# Perutnina ptuj

Food



Perutnina Ptuj



tuperwere

# DM

Cosmetics



Gift cards production & white label packaging



# G3Spirits

cosmetics

g3spirits



**Jägermeister**

**“Test tubes” for shot glasses of  
Jägermeister**



# Mawa

Apparel



**Hangers / White label**



# Intersport

Fashion



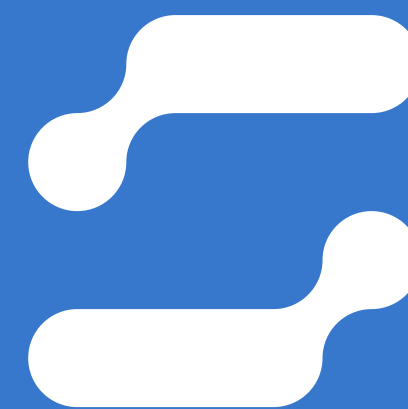
**Personalized hangers with brand logo**

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[www.smal.si](http://www.smal.si)



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