

Croatia: The Robotics Sector



REPUBLIC of CROATIA
Ministry of
Economy

Croatia: The Robotics Sector



Republic of Croatia
Ministry of Economy

April 2025

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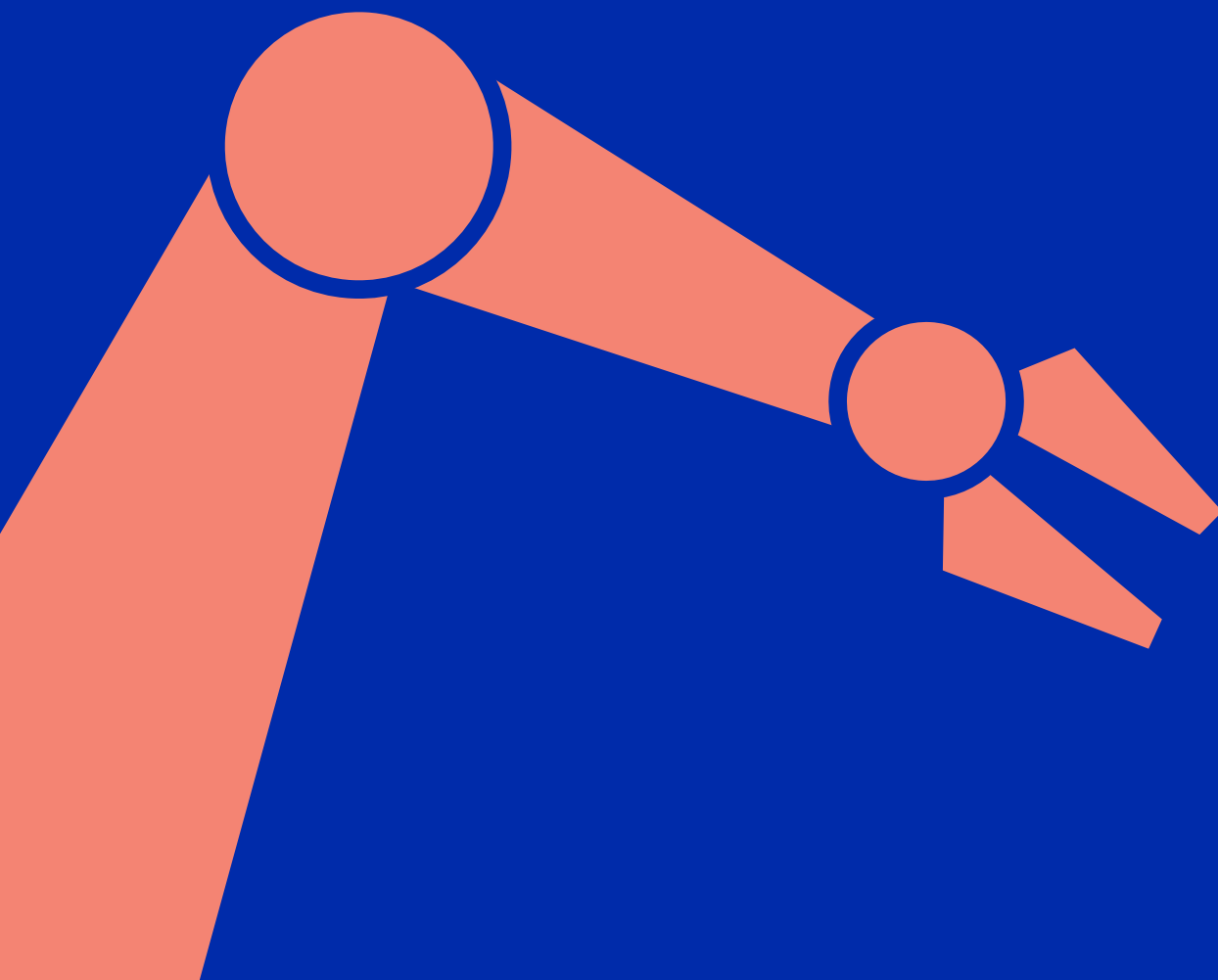
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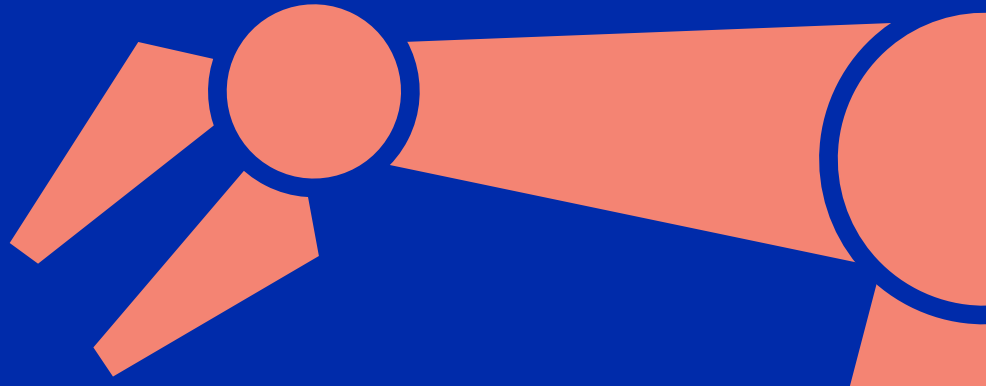
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Croatia's Emerging Robotics Ecosystem

Croatia's Emerging Robotics Ecosystem

Strategically positioned at the crossroads of Central and Southeastern Europe, Croatia has been quietly cultivating a vibrant and innovative robotics ecosystem that is gaining increasing international recognition. While it may not yet rival the visibility of traditional European technology hubs, Croatia's robotics sector is emerging as one of the country's most dynamic and forward-looking industries, driven by technical excellence, a strong educational foundation, and a growing network of innovation-driven enterprises.

A Strong Foundation in Technical Education and Research

Croatia's strength in robotics is rooted in its well-established technical education and research climate. Universities in Zagreb, Split, and Rijeka produce highly skilled engineers, computer scientists, and automation specialists, many of whom have gained international recognition for their contributions to robotics and artificial intelligence.

The University of Zagreb, for example, ranks among the top institutions in Europe for robotics research, placing 68th in Europe and 212th globally based on research performance (EduRank.org). Croatian universities have long excelled in disciplines critical to robotics, such as mechatronics, mechanical engineering,

machine learning, control systems, and precision engineering. This expertise has fostered a workforce capable of driving innovation in both academia and industry.

Beyond formal education, Croatia has an active research and development landscape, with institutions focusing on applied robotics, AI, and automation. University-led research initiatives often translate into real-world applications, bridging the gap between academic research and industrial implementation. The country's engineers and researchers frequently collaborate with global partners, contributing to EU-funded projects and participating in leading robotics conferences worldwide.

Innovation Infrastructure and Industry Support

A key driver of the growth of Croatia's robotics ecosystem is its well-developed innovation infrastructure. The country has invested in technology parks, incubators, and research centres that facilitate collaboration between academia, startups, and established companies.

The Regional Center of Excellence for Robotic Technology (CRTA), housed at the Faculty of Mechanical Engineering and Naval Architecture at the University of Zagreb, serves as a hub for cutting-edge research and the development of advanced robotic systems. With a focus on industrial and medical applications, CRTA

provides state-of-the-art facilities for scientists, engineers, and medical professionals to test and refine robotic solutions.

Complementing this is the Croatian Robotics Digital Innovation Hub (CROBOHUB), based at the Innovation Centre Nikola Tesla (ICENT). This initiative supports companies looking to integrate robotics into their operations, offering access to expertise, funding opportunities, and collaborative projects. By connecting research institutions with businesses and investors, CROBOHUB plays a crucial role in fostering an innovation ecosystem where robotics thrives.

Government Support and Investment Incentives

Croatia's robotics sector benefits from strong government support, particularly in the context of Industry 4.0 and digital transformation initiatives. Through targeted policies and funding programmes, the government encourages the adoption of automation and smart technologies across a range of industries.

Key factors contributing to Croatia's attractiveness as an investment destination in robotics include:

- **EU Funding Mechanisms:** As an EU member state, Croatia has access to various funding instruments that support research, development, and innovation in robotics. Horizon Europe, the European Structural and Investment Funds, and other EU programmes provide financial backing for ambitious projects.
- **Tax Incentives and Grants:** Companies engaged in R&D, particularly in high-tech fields like robotics and AI, can benefit from government incentives such as tax breaks and grants.
- **Business-Friendly Environment:** Croatia has made strides in improving its regulatory framework, reducing bureaucratic hurdles, and creating a favourable climate for investment in advanced technology sectors.

The Robotics Market and Its Growing Role in Croatia

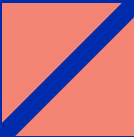
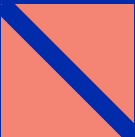
The global robotics market encompasses the design, development, manufacturing, and deployment of robotic systems and technologies across various industries. These intelligent, autonomous or semi-autonomous machines perform specialised functions with minimal human intervention, ranging from industrial automation and precision manufacturing to medical applications, agriculture, logistics, and even defence.

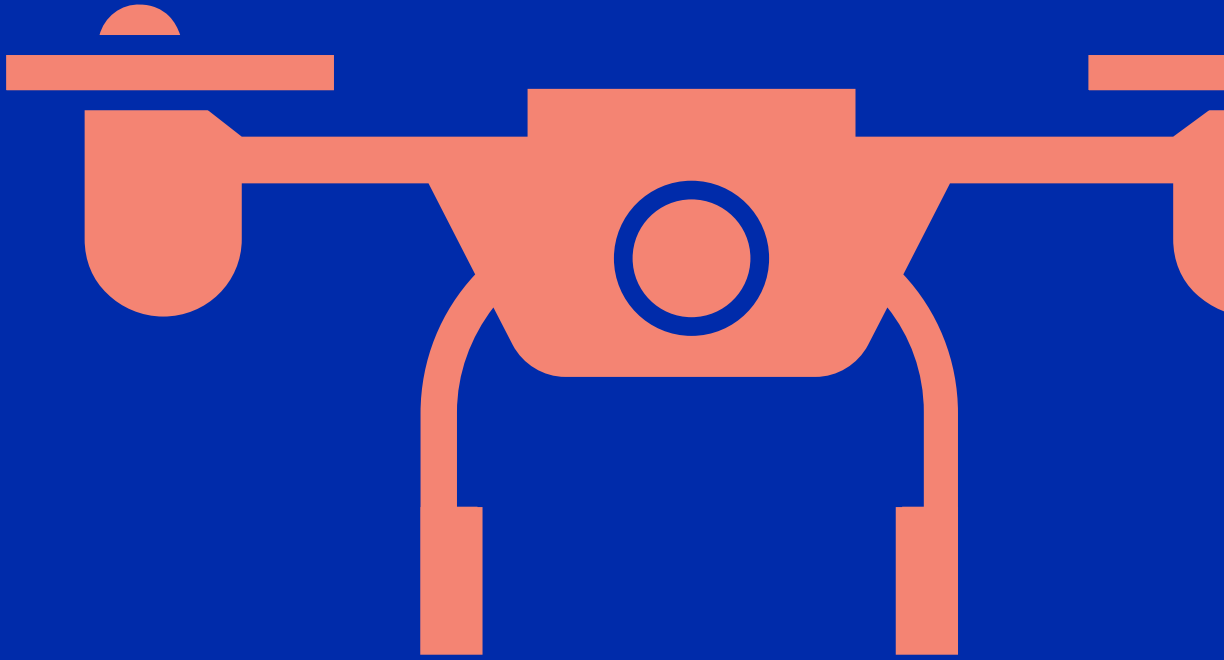
In Croatia, robotics reflects these global trends, with increasing adoption across multiple sectors. The country's research institutions and technology companies are actively contributing to the development of next-generation robotic solutions, including industrial automation systems, medical and assistive robotics, and AI-driven autonomous machines. As automation and digitalisation continue to reshape industries worldwide, Croatia's robotics sector is well-positioned to capitalise on this transformation and attract investment in cutting-edge robotics technologies.

With its combination of skilled talent, advanced research capabilities, strong government backing, and a thriving innovation ecosystem, Croatia is on its way to becoming a notable robotics hub in Europe. As global demand for automation and intelligent systems continues to grow, Croatia's robotics sector presents an exciting opportunity for investors, technology companies, and research institutions looking to engage with a forward-thinking, innovation-driven market.

By leveraging its strengths in education, research, and industrial collaboration, Croatia is poised to play an increasingly important role in shaping the future of robotics in Europe and beyond.

In the following section, we will introduce some of the key companies driving Croatia's robotics sector forward. These companies are at the forefront of innovation, developing cutting-edge robotic solutions across various industries, from manufacturing and healthcare to logistics and artificial intelligence. Their success stories highlight Croatia's growing reputation as a centre of excellence in robotics and automation.





Croatian Robotics Companies

COMPANY NAME

2B Automation Group

CONTACT

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Social media LinkedIn: 2B Automation Group

Primary Contact Saša Škalamera,
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+385 51 565 500

ABOUT THE COMPANY

2B Automation Group is a team of experienced electrical engineers specialised in industrial automation. They cover all phases of project development and commissioning. The company's focus is on the delivery of automation solutions for metal and other industries. They are involved in project activities from the design phase, PLC and HMI software development, to equipment testing and on-site supervision and commissioning.

TECHNOLOGICAL INNOVATIONS

Software for automatic storage systems featuring a custom Cartesian robot. The robot cell operates as a slitter tool handling a STAHL loader, enhancing efficiency and productivity by working in the background to supply slitter machines seamlessly.

KEY PRODUCTS

- Industrial robotics
- Cold rolling mills (metal strip)
- Metal strip process lines
- Hot rolling mills for long products
- Continuous casting machines

KEY CLIENTS/REFERENCES

Robotics partners:

- Officine MTM S.p.a. (Italy)
- Nomen (Croatia)

EXPORT MARKETS

Robotics: USA, Italy, Germany,
Spain, Sweden

KEY TARGET INDUSTRIES

Their robotic cell operates in the metal industry and is installed to supply slitter machines.

COMPANY NAME

AIR-RMLD

CONTACT

Address Jarunska 19,
10000 Zagreb, Croatia

Website www.air-rmld.com

Social media LinkedIn: AIR-RMLD
Facebook: AIR RMLD

Primary Contact Milan Domazet, CEO
Milan.domazet@air-rmld.com
+385915911632

ABOUT THE COMPANY

Drone Solution Company.
The company undertakes the following:

- Production and development of unmanned aerial vehicles
- Development, support, and consulting services for drone and UAV-based service development
- Pipeline inspection using drones
- Power line inspection using drones
- Reforestation using drones
- Delivery and cargo transport using drones
- Automated drone solutions – DRONEBOX
- Automated airport lights inspection

TECHNOLOGICAL INNOVATIONS

- Automated drone gas pipeline inspection
- Automated AI-powered drone reforestation
- Autonomous AI larvae recognition system
- Automated airport traffic light inspection

KEY PRODUCTS

- AIR-RMLD – Drone for Pipeline Inspection with Leak Detection
- PROJECT 02 – Reforestation with Drones
- UAV Mosquito AI Analysis – Controlling Mosquito Infestations Using Drones

AWARDS OR RECOGNITIONS

- Airport lights control, MZLZ
– 3rd place in international competition
- UAV Mosquito AI – NINGBO China
– 3rd place in international competition

KEY CLIENTS/REFERENCES

PLINACRO d.o.o., HOPS d.o.o., Hrvatska pošta d.d., Hrvatski Telekom d.d., MAGIC FOREST, Zagreb Franjo Tuđman Airport, ENVIAM (Germany), MITNETZ GAS (Germany)

STANDARDS/CERTIFICATES

Registered Trademarks:

- AIR-RMLD
- PROJEKT 02
- UAV Mosquito AI Analysis

EXPORT MARKETS

Germany, Slovenia, Hungary,
Serbia, Bosnia and Herzegovina,
Montenegro, Kosovo

KEY TARGET INDUSTRIES

- Autonomous control and inspection
- Gas inspection
- Power line inspection
- Air traffic control

COMPANY NAME

ATINEL

CONTACT

Address Kućanska ulica 2,
42000 Varaždin, Croatia

Website www.atinel.hr

Social media LinkedIn: ATINEL d.o.o.
Facebook: Atinel doo
Instagram: atinel.hr

Primary Contact Krešimir Androlić,
Managing director
atinel@atinel.hr

ABOUT THE COMPANY

ATINEL was founded in 2006 and currently employs around 40 people. Almost all its employees are electrical, mechatronics or mechanical engineers. The company is recognised as a reliable partner for the automation of industrial plants for the automotive, food, wood, metal, chemical and pharmaceutical industries. It offers electrical design, CAD machine design, CNC machining, 3D printing, PLC (programmable logic controller) programming, development of programs for industrial robots, 3D simulations and virtual commissioning, assembly, and commissioning at end user sites.

TECHNOLOGICAL INNOVATIONS

ATINEL has developed its own range of automated systems with collaborative robots under the ADAPTO brand. Using the Robot Operating System (ROS) software platform, the company has developed a universal application that enables the use of collaborative or industrial robots from different manufacturers. This application can be quickly adapted for various robot applications: manipulators, palletising, welding, grinding, machine servicing, etc.

KEY PRODUCTS

- Automatic special purpose machines (10 pcs annually)
- ADAPTO systems with collaborative robots (20 systems annually)
- Automatic welding machines (TIG, MIG, MAG, laser welding, 10 pcs annually)
- 3D modelling
- Virtual commissioning (2 systems monthly)
- Industrial robot programming (150 annually)
- PLC programming (50 annually)
- CAD construction (AutoCAD)
- Electrical design (EPLAN)
- CNC machining on a 5-axis milling machine

STANDARDS/CERTIFICATES

ISO 9001, ISO 14001

KEY CLIENTS/REFERENCES

ThyssenKrupp AG, Continental,
MAGNA, FFT, Daimler-Mercedes,
EKOS, Meliori

EXPORT MARKETS

Germany, Austria, Hungary,
Slovenia, Croatia

KEY TARGET INDUSTRIES

Automotive, logistics, food,
wood, metal, chemical and
pharmaceutical industries

COMPANY NAME

Autegra

CONTACT

Address Vladimira Nazora 5,
43280 Garešnica, Croatia

Website www.autegra.hr

Social media LinkedIn: Autegradoo
Facebook: Autegradoo
Instagram: Autegra

Primary Contact Ivan Hrabar, Research Lead
Ivan.hrabar@autegra.hr
+385 91 363 0031

ABOUT THE COMPANY

Founded in 2014, Autegra offers innovative solutions in the field of industrial automation. Autegra's solutions are based on the expertise that the company's specialists have acquired by participating in numerous industrial projects in a wide variety of sectors. In addition, Autegra specialises in robotics solutions offering the RobCo modular industrial robot arms on the Croatian market. The company has its own robotics R&D team, which enables it to develop and further improve state-of-the-art robotics technologies.

TECHNOLOGICAL INNOVATIONS

Autegra is a pioneer in advanced robotics solutions with a particular focus on the implementation of modular industrial robotics solutions and agricultural robotics, driving innovation. Through the use of cutting-edge technologies, the company is revolutionising agricultural practises, improving efficiency and promoting sustainability.

KEY PRODUCTS

SCADA systems, DCS systems, PLC programming, EPLAN electric design, Electrical cabinets, Servo systems & motion application, Robotics, Manufacturing and developing special-purpose machines

STANDARDS/CERTIFICATES

ISO 9001, ISO 27001, ISO 45001

AWARDS OR RECOGNITIONS

Croatian Chamber of Economy business awards for the most successful company in the Bjelovar-Bilogora County - the Golden Kuna for business performance in 2021, 2023

EXPORT MARKETS

EU / Worldwide

KEY TARGET INDUSTRIES

Pharmaceutical, food, manufacturing, etc.

COMPANY NAME

Autron

CONTACT

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40000 Čakovec, Croatia

Website www.autron.hr

Primary Contact Nikola Kirić, mag. ing. mech.,
Director
nikola@autron.hr
+385 98 9655 417

ABOUT THE COMPANY

Autron is an automation and robotics company founded in 2022. The company designs and manufactures robotic systems for industrial automation, which includes tailoring the entire process to the customer's needs, from the idea to the finished system.

TECHNOLOGICAL INNOVATIONS

Their robotic solutions are unique because they are tailored to specific customer needs, ensuring optimal performance and seamless integration into existing processes. Each system is designed to deliver maximum efficiency, flexibility, and precision for diverse applications.

KEY PRODUCTS

Each product is unique and custom-made to meet specific customer requirements. So far, the company has been producing robotic cells for welding and bending applications, ensuring high precision and reliability in these processes.

KEY CLIENTS/REFERENCES

Centrometal d.o.o., Maring d.o.o., Dinop d.o.o., Komet d.o.o.

KEY TARGET INDUSTRIES

Most robotic stations the company manufactures are intended for welding and bending applications. However, the company is not limited to a specific industry, as it offers customised robotic stations tailored to the customer's requirements.

COMPANY NAME

Avyonx

CONTACT

Address Unska 3,
10000 Zagreb, Croatia

Website www.avyonx.hr

Social media LinkedIn: Avyonx

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ABOUT THE COMPANY

Avyonx is a spinoff from the LARICS laboratory at the University of Zagreb Faculty of Electrical Engineering and Computing. Building on over 15 years of aerial robotics expertise, Avyonx is focused on autonomous solutions for Unmanned Aerial Vehicles, with the main goal of expediting and increasing the quality of wind turbine and wind farm inspections. Avyonx is continuously branching out into other areas, such as agricultural and infrastructure monitoring, by automating various manually flown tasks in the industry.

TECHNOLOGICAL INNOVATIONS

- Autonomous wind turbine inspection with unmanned aerial vehicles
- Autonomous bridge element inspection with unmanned aerial vehicles

KEY PRODUCTS

PAWTIS: Pilot-Assisted Wind Turbine Inspection Software, 5 licences per year

KEY CLIENTS/REFERENCES

Helvetis S.A., Switzerland,
Končar - Obnovljivi izvori d.o.o.,
HŽ Infrastruktura d.o.o., Marina
Punat d.o.o, Agronomski fakultet
Sveučilišta u Zagrebu, Probotica
d.o.o.

EXPORT MARKETS

Croatia, Switzerland

KEY TARGET INDUSTRIES

- Infrastructure inspection and maintenance
- Agriculture

COMPANY NAME

Byte Lab Grupa

CONTACT

Address Medarska ulica 69/1,
10090 Zagreb, Croatia

Website www.byte-lab.com

Social media LinkedIn: Byte Lab
Clutch: Byte Lab
Instagram: byte.lab

Primary Contact Josip Puškar, Director of
Business Development
puskarj@byte-lab.com

ABOUT THE COMPANY

Byte Lab is an innovation-driven engineering company established in 2011 in Zagreb. It specialises in electronic product development, embedded software and hardware development, and prototyping and manufacturing – providing clients with a one-stop solution for their electronics design and manufacturing needs.

KEY PRODUCTS

- Development and production of electronic products
- Development of embedded software and hardware
- Consulting for IoT product development
- Gasread Automatic Meter Reader – A retrofit solution for remote gas meter reading based on three different connectivity options – Sigfox, LoRa, NB-IoT – 20,000 pcs
- Telemetry devices for transformer station monitoring – TS-AQU-LORA – 200 pcs
- Remote metering device designed to monitor environmental conditions such as temperature, humidity, illuminance, and motion – TS-SENSE-LORA – 500 pcs
- AC Unit Controller – 500 pcs

STANDARDS/CERTIFICATES

ISO 9001, ISO 14001, ISO 27001,
IPC-A-610

EXPORT MARKETS

Worldwide, with the following
primary markets: EU, USA,
Switzerland, Norway

KEY TARGET INDUSTRIES

Construction, manufacturing,
energy infrastructure

KEY CLIENTS/REFERENCES

Philips, Bosch, Kärcher, Honeywell, Signify, Belimo,
ABUS, Blues Wireless, Bugatti Rimac, Porsche
Greyp, A1, HEP Plin d.o.o., HEP ODS d.o.o., MB
Frigo Grupa d.o.o.

COMPANY NAME

CHIRON Croatia

CONTACT

Address Zagrebačka 100,
23000 Zadar, Croatia

Website www.hstec.hr

Social media LinkedIn: HSTEC
Instagram: chirongroup_official
YouTube: HSTEC “Brand of the
CHIRON Group”

Primary Contact Tea Mikulić, Technical
Documentation and Marketing
tea.mikulic@chiron-group.com
+385 23 205 454

ABOUT THE COMPANY

CHIRON Croatia and its brand HSTec have been creating innovative and customised solutions for various industrial applications since 1997. Top-quality, high precision, flexibility, and constant improvement make them a leading expert in spindle drive technology and industrial automation.

TECHNOLOGICAL INNOVATIONS

- Production process automation with industrial robots
- Specialised machines for process automation, assembly, and quality inspection
- Smart motorised spindles for robotic applications

AWARDS OR RECOGNITIONS

Croatian Chamber of Economy business awards for the most successful company in the Zadar County:

- the Golden Kuna for business performance in 2013, 2014, 2017, 2018, 2019, and 2021
- the Crystal Kuna for business performance in 2020

KEY PRODUCTS

- Machine-tending robotic cell
- Complex clamping devices
- Special machine tools
- 5-axis measuring machine
- Machine vision, PLC and EPLAN design
- Electrical cabinets
- Motor spindle service and repair
- Authorised representative of Balluff – electronic and electromechanical sensors, rotary and linear transducers

KEY TARGET INDUSTRIES

- Manufacturing and automation industry
- Automotive industry
- Electrical components industry

STANDARDS/CERTIFICATES

ISO 9001, ISO 14001

KEY CLIENTS/REFERENCES

Chiron Group, Schaeffler Group,
Bosch Rexroth

EXPORT MARKETS

EU, USA, China, Serbia, Bosnia
and Herzegovina, Switzerland

COMPANY NAME

CODEL

CONTACT

Address Ulica Franje Tuđmana 20,
48260 Križevci, Croatia

Website www.codel.hr

Social media LinkedIn: Codel d.o.o.

Primary Contact Matija Sever, COO
matija.sever@codel.hr
+385 99 518 7600

ABOUT THE COMPANY

Codel has over 30 years of experience in production and warehouse automation. The company develops and implements advanced solutions, including Stock Master Smart Shelves with an in-house WMS, the AIDA Total Production Management platform for manufacturing digitalization, and robotics systems such as 6-axis robots and AGVs. By integrating cutting-edge technologies, it helps businesses optimise operations, improve efficiency, and stay competitive in a rapidly evolving market.

TECHNOLOGICAL INNOVATIONS

Automatic roll wrapper of varying dimensions with robotic feeder and automatic label application

KEY PRODUCTS

- Robotic cell for wrapping, labelling, and palletising rolls of foil for the food industry
- Stock Master series of smart shelves (Standard, Modular, Mobile, Pallet)
- AMR robots – HIK robot partners (LMR, FMR, CTU)
- Nachi robot partner

STANDARDS/CERTIFICATES

ISO 9001:2015, ISO 27001:2013

EXPORT MARKETS

BAT Adria, Alca, Lagermax AED,
Lactalis-Dukat, Franck d.d.,
Enikon Aerospace d.o.o., Ember
kamin d.o.o., SELK-TDK

KEY TARGET INDUSTRIES

UK, EU and Southeast Europe
(the Balkans)

COMPANY NAME

Crobotic Solutions

CONTACT

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10000 Zagreb, Croatia
Website www.crobotics.tech
Social media LinkedIn: Crobotic Solutions
Primary Contact Filip Zorić, CEO
filip.zoric@crobotics.tech
+385 91 896 7253

ABOUT THE COMPANY

Crobotic Solutions is a robotics startup that simplifies collaborative robot deployment with an AI-powered software platform and modular vision systems. Its technology enables natural language interaction, defect recognition, and skill adaptation by integrating novel AI with robot control. Supporting multiple robot brands, Crobotic Solutions helps manufacturers automate tasks efficiently, enhancing flexibility and productivity in production lines.

TECHNOLOGICAL INNOVATIONS

Crobotic Solutions has developed innovative technology to make working with collaborative robots easier. Their user-friendly API allows developers to quickly program different robot brands, while their AI-powered vision software helps detect defects and accurately interact with objects of interest in unstructured environments.

KEY CLIENTS/REFERENCES

- 3rd place at the Zagreb Innovation Centre Tech Transfer competition in 2024
- NUQLEUS Start-up Builder Alumni
- HAMAG-BICRO acceleration
- Founded by robotics researchers from the University of Zagreb Faculty of Electrical Engineering and Computing with over 20 peer-reviewed scientific papers in robotics.

KEY PRODUCTS

- Arm API2
- AI vision software platform

EXPORT MARKETS

EU/DACH

KEY TARGET INDUSTRIES

Manufacturing





COMPANY NAME

DOK-ING

CONTACT

Address Slavonska avenija 22 G,
10000 Zagreb, Croatia

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YouTube: DOK-ING Ltd.
TikTok: dok_ing_

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Director of Sales and Marketing
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ABOUT THE COMPANY

DOK-ING is a Croatian mid-cap with over 30 years of experience in developing and manufacturing of unmanned robotic ground systems. DOK-ING provides a plethora of different systems for civilian organizations, as well as security and defence organizations worldwide. The company's expertise spans EOD, crisis management, critical infrastructure protection, and other multifunctional robotic platforms that preserve human life, property, and the environment.

TECHNOLOGICAL INNOVATIONS

DOK-ING specialises in the production of unmanned robotic systems for mechanical demining, military engineering, explosive ordnance disposal, CBRNe, emergency response, counterterrorism, and underground mining.

STANDARDS/CERTIFICATES

ISO 9001:2015, ISO 14001:2015, ISO 50001:2018,
ISO 45001:2018, ISO 3834-3:2021

KEY PRODUCTS

- MV-2 Compact EOD Robotic System
- MV-4 Multi-Mission EOD Robotic System
- MV-10 Heavy Duty EOD Robotic System
- MVF-5 Emergency Response Robotic System
- MVFD-5 Emergency Response Robotic System (decontamination)
- MVC-8 CBRNe Robotic System
- MV-3 Counterterrorism Robotic System
- Multi-purpose robotic platform MV-8 Komodo (Open Architecture Robotic Platform for Payload Integration)
- XLPD Compact Robotic Dozer
- NRE fleet for underground mining (Dozer, Support Rig and Drill Rig)
- Annual Production Capacity – more than 80 different robotic systems

AWARDS OR RECOGNITIONS

Over 100 national and international business and industrial awards in the fields of innovation and technology (e.g. the Platinum Key, the Golden Key, the Golden Kuna etc.)

EXPORT MARKETS

USA, Ukraine, Sweden, Ireland, Italy, Greece, Austria, Saudi Arabia, Sri Lanka, South Korea, Azerbaijan, etc.

KEY CLIENTS/REFERENCES

Armed forces, government agencies, NGOs, humanitarian organizations, commercial companies, police and security forces, civil protection, first responders

KEY TARGET INDUSTRIES

EOD, military engineering, counterterrorism, CBRNe, civil defence, emergency response, crisis management, critical infrastructure protection, underground mining

COMPANY NAME

Gideon

CONTACT

Address Croatia Radnička cesta 177,
10000 Zagreb, Croatia

Address USA 3500 South DuPont Highway,
Suite EN-101, Dover, DE 19901,
United States of America

Website www.gideon.ai

Social media LinkedIn: Gideon
YouTube: GideonRobotics

Primary Contact Dario Ljubić, Sales & Strategic
Projects Executive
M (US): +1 (629) 213-2189
M (CRO): +385 91 620 1074

ABOUT THE COMPANY

Gideon is a pioneer in delivering fully autonomous vehicles for loading and unloading palletised trailers in manufacturing and warehousing. Equipped with proprietary software and hardware, Gideon's autonomous vehicles streamline customer processes and ensure maximum efficiency. Gideon's expertise was recognised by Fortune 500 companies and forklift OEMs – most notably the Toyota Industries Corporation, which announced a strategic partnership with Gideon. The company was founded in Croatia in 2017 and expanded to the USA in 2020.

TECHNOLOGICAL INNOVATIONS

1. Autonomous forklift for loading and unloading palletised trailers
2. Proprietary camera system (hardware and software)
3. Fully vertically integrated company developing:
 - 2D and 3D localization
 - Navigation
 - Semantic segmentation, object detection, and position estimation
 - Fleet management and coordination
 - Warehouse execution layer

KEY PRODUCTS

Gideon's key product is Trey – an autonomous trailer-loading and unloading forklift.

KEY CLIENTS/REFERENCES

Fortune 500 companies

EXPORT MARKETS

Gideon's key markets are the USA, Canada, and the UK. The company already has installations in the USA and Canada and is expected to implement several first installations in the UK in 2025.

AWARDS OR RECOGNITIONS

Croatian start-ups on the Start. Up! Germany 2018 Roadshow contest – winner; Digital Takeover Business Leaders, 2018 – recognition; contribution to the development of the robotics industry in Croatia; DB Schenker Start-up Award, Essen, 2018; ABB Robotics Innovation Challenge, Zurich, 2019; finalist; Nomination for the Golden Kuna award, 2019.

KEY TARGET INDUSTRIES

Automotive, Food and beverage, Logistics, Paper and pulp, Manufacturing, Distribution

COMPANY NAME

H2O Robotics

CONTACT

| | | | |
|---------------------|--|------------------------|--|
| Address | Unska 3, 10000 Zagreb, Croatia | Primary Contact | Vladimir Djapic Chief Executive Officer (CEO) |
| Website | www.h2o-robotics.com | | vladimir@h2o-robotics.com |
| Social media | Facebook: H2O Robotics LinkedIn: H2O Robotics | | +1 619 947 3745 |

ABOUT THE COMPANY

H2O Robotics is a technology-driven company specialising in maritime robotics, focusing on autonomous surface and underwater vehicles. Founded in December 2017, it emerged as a spin-off from the University of Zagreb Faculty of Electrical Engineering and Computing, founded by the members of the Laboratory for Underwater Systems and Technologies. The company's flagship product, H2Omni-X, is an autonomous surface vehicle (USV) renowned for its low-power dynamic positioning, obstacle avoidance, and advanced communication capabilities in both surface and underwater environments. H2O

Robotics develops custom navigation algorithms, adapts its USVs for diverse use cases, and pioneers research and development in maritime robotics. With strong collaborations across the EU and the US, H2O Robotics has manufactured and sold nearly 20 H2Omni-X units to clients in industries ranging from ecology and offshore oil to biological research and marine security. The company's mission is to bring cutting-edge maritime technologies from research to market, advancing the fields of marine exploration, environmental monitoring, and autonomous navigation.

TECHNOLOGICAL INNOVATIONS

H2O Robotics has pioneered autonomous maritime robotics, integrating low-power dynamic positioning, real-time obstacle avoidance, and AI-driven navigation. The H2Omni-X USV enables surface and subsurface communication, while H2Observe and H2Orbit advance underwater

tracking and IoT connectivity. The company's custom sensor fusion algorithms enhance real-time environmental monitoring, diver tracking, and maritime security, revolutionising ocean technology.

STANDARDS/CERTIFICATES

NATO STANAG standard

AWARDS OR RECOGNITIONS

European Commission's Seal of Excellence

KEY CLIENTS/REFERENCES

www.kenautics.com
www.lariat.unidu.hr

KEY PRODUCTS

- H2Omni-X – Autonomous Surface Vehicle (USV) for environmental monitoring, hydrography, and maritime security (×10 units per year)
- H2Observe – Smart underwater sensor for real-time monitoring and IoT-based data collection (×15 units per year)
- H2Orbit – Autonomous underwater tracking system designed for divers and marine robotics navigation (×10 units per year)
- H2O AI Navigation Suite – AI-driven navigation algorithms for autonomous surface and underwater vehicles (custom solutions)
- H2O Dynamic Positioning System – Low-power station-keeping technology for maritime robotics and offshore operations (custom solutions)
- H2O Multi-Sensor Fusion Module – Advanced sensor fusion system integrating GNSS, IMU, sonar, and vision-based localization (×20 units per year)
- H2O Remote Command & Control Interface – Cloud-based and offline control platform for robotic fleets (custom)
- H2O Sonar Mapping & Detection Module – Real-time sonar mapping tool for underwater object detection (×10 units per year)
- H2O Energy-Efficient Propulsion System – Bio-inspired low-power propulsion for extended mission autonomy (custom solutions)
- H2O Custom Maritime Robotics Solutions – Tailor-made autonomous systems for defence, ocean monitoring, and offshore industries (custom development)

EXPORT MARKETS

H2O Robotics, based in Croatia, is expanding its market presence internationally, with a focus on the following key regions:

- European Market – This is the most accessible market for H2O Robotics due to its geographic proximity and trade agreements. The company is addressing both the diving industry and maritime robotics needs within this region.
- North American Market – The U.S. Navy and university research programs in the U.S. are potential clients for H2O Robotics' products such as H2Observe and H2Omni-X. The market for diving safety and marine monitoring is well-developed there.
- Asian Market – Although a highly competitive and complex market, Asia presents opportunities in aquaculture, environmental monitoring, and industrial applications.
- Global Dive Industry – H2O Robotics is targeting the live-aboard dive boat market, which includes super-yachts and remote diving operations. The company estimates that approximately 6,000 H2Observe units can be sold worldwide for diving applications.
- Environmental Monitoring Market – The global water quality monitoring market is expected to reach \$5.38 billion by 2027. H2O Robotics is leveraging this opportunity with IoT-enabled smart buoys.
- Aquaculture and Fishing Operations – Markets in Europe, North America, and Asia are growing in the aquaculture sector, with increasing demand for automated monitoring systems.

KEY TARGET INDUSTRIES

H2O Robotics specialises in maritime robotics and underwater technology, with applications across multiple industries:

- Maritime and Ocean Monitoring
- Products such as H2Observe and H2Orbit are used for underwater communication, asset tracking, and data collection for environmental and industrial monitoring.
- The company is working on integrating its products into smart city networks for water quality and pollution monitoring.
- Scuba Diving and Safety
- H2Observe and H2Orologio provide underwater diver communication, safety tracking, and messaging for recreational and professional divers.
- H2O Robotics' systems support live-aboard diving operations and emergency response tracking.
- Aquaculture and Fisheries
- H2Orbit's monitoring capabilities help optimise fish farming and net monitoring.
- Autonomous buoys provide real-time tracking and environmental data for fish farming.
- Autonomous Surface Vehicles (ASVs)
- The H2Omni-X is designed for ocean exploration, hydrography, and environmental monitoring.
- Research institutions and government agencies use ASVs for surveying and mapping.
- Defence and Research
- The U.S. Navy has tested H2Observe for diving communication and tracking.
- Academic and military research institutions are adopting H2O Robotics solutions for underwater surveillance and data collection.
- Smart Cities and IoT
- H2O Robotics is integrating its IoT-enabled products with cloud-based monitoring solutions for environmental applications.
- H2O Robotics is continuously expanding its presence in these industries by leveraging its advanced technology in underwater communication, environmental monitoring, and maritime robotics.

COMPANY NAME

Hartera Robotics

CONTACT

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Website www.harterarobotics.com

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Primary Contact Karlo Džafić, CEO
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ABOUT THE COMPANY

Hartera Robotics is a Croatian startup specialising in the development of innovative autonomous robots for polishing vessel hulls in dry marinas. Established in 2023, the company combines advanced robotics, sensor integration, and AI-driven solutions to deliver efficient and sustainable maintenance for maritime operations. Hartera Robotics is recognised for its cutting-edge innovation and industry impact, earning accolades at multiple national and international competitions.

TECHNOLOGICAL INNOVATIONS

Hartera Robotics has developed Carpathia, a compact and fully mobile robotic system designed for polishing vessel hulls. Using an innovative three-rope movement mechanism,

it adapts to any hull shape with precision. Lightweight and portable, Carpathia fits in standard bags, allowing easy deployment in any dry marina.

KEY PRODUCTS

- Robotic Vision Systems – Custom software solutions for industrial robotic vision applications (20 licences/year)
- Custom Robotic Arms – Tailored robotic arms optimised for specific client requirements (5 units/year)
- AI Navigation Software – Advanced navigation systems adaptable for various industries (10 licences/year)
- Automation Optimization Services – Streamlined programming and optimization for existing robotic systems (10 projects/year)
- Carpathia Robotic System – Autonomous robot for vessel hull polishing (10 units/year)
- Sensor Integration Solutions – Development and integration of sensor systems for precision tasks (10 units/year)
- End-Effector Customization – Specialised tools for robotic arms to meet industry-specific demands (15 units/year)
- Industrial Robot Calibration – Services to enhance the accuracy and performance of robotic systems (10 systems/year)
- Portable Robotics Solutions – Lightweight, mobile robotics for diverse applications (5 units/year)
- On-Demand Robotic Programming – Custom coding and software development tailored to client specifications (10 projects/year)

AWARDS OR RECOGNITIONS

- Top 10 Innovations – Recognised among the top 10 innovations at the Student Digital Award by *Jutarnji List* (2024).
- 3rd Place at BUG.HR – Awarded third place for innovation and technology excellence (2024).
- Finalist at the Bug Future Show – Selected as a finalist at the Bug Future Show, showcasing advanced robotics (2024).
- HAMAG-BICRO Accelerator – Advanced to the next phase of the HAMAG-BICRO Accelerator for innovation and development (2024).
- Burza Nautike Feature – Featured in *Burza Nautike*, the most widely read Croatian nautical magazine, for groundbreaking contributions to maritime robotics (2024).

KEY CLIENTS/REFERENCES

- Dry Marinas – Collaborations with dry marina operators to provide autonomous solutions for efficient vessel hull polishing.
- Vessel Maintenance Providers – Partnering with companies specialising in boat and yacht maintenance to optimise polishing processes.
- Private Yacht Owners – Offering innovative polishing services tailored to individual vessel needs.
- Boat Charter Companies – Assisting charter operators in maintaining their fleets with high-quality polishing solutions.

EXPORT MARKETS

- Croatia – Primary market with established collaborations in dry marinas and vessel maintenance providers.
- Italy – Initial penetration through partnerships with Mediterranean yacht and boat maintenance companies.
- Slovenia – Targeting regional marinas for introducing autonomous polishing solutions.
- Greece – Expanding into the Aegean market, focusing on yacht charter maintenance.
- Spain – Early-stage discussions with companies in the Balearic region for vessel upkeep automation.
- France – Exploring opportunities in the French Riviera, a hub for luxury yachts and marinas.

KEY TARGET INDUSTRIES

- Maritime Industry – Autonomous solutions for vessel hull polishing and maintenance in dry marinas.
- Shipbuilding – Robotic systems for precision tasks in vessel assembly and upkeep.
- Yacht Maintenance – Tailored robotic solutions for luxury yacht polishing and surface care.
- Industrial Automation – Custom robotic arms and vision systems for manufacturing optimization.
- Marine Charter Operations – Solutions to streamline maintenance of charter fleets.
- Logistics and Warehousing – Sensor integration and navigation software for automation.
- Research and Development – Collaborations on innovative robotics projects for academia and industry.

COMPANY NAME

HENNLICH

industrijska tehnika

CONTACT

Address Stupničkoobreška 17,
10255 Gornji Stupnik, Croatia

Website www.hennlich.hr

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industrijska tehnika d.o.o.
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Primary Contact Katarina Markoč, Director
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ABOUT THE COMPANY

HENNLICH industrijska tehnika is a part of the HENNLICH Group which operates in 24 countries of Europe and Asia. The HENNLICH Group was established in 1922, while HENNLICH Croatia was founded in 2003. The company handles selling, assembling, commissioning, and servicing various industrial products for all branches of industry. Besides representing renowned manufacturers, mostly from Germany, the company has started its own production of seals, water cannons, heat exchangers, automation solutions etc. The company is certified according to ISO standards 9001:2015 and 14001:2015.

TECHNOLOGICAL INNOVATIONS

- A collaborative robot for automatic filling of cheese into plastic bags, after which the bags are sealed and transported by conveyor belt
- A system for automative lifting and pressing dough
- Collaborative robots for stirring pig cracklings, imitating human hands
- A delta robot for fast pick & place assignments
- Palletising projects

KEY PRODUCTS

Custom made solutions in the robotics & automation area, energy chains, flexible cables, bearings, pumps, heaters, valves, nozzles, seals, and water couplings.

KEY CLIENTS/REFERENCES

Harburg Freudenberger,
Kostwein, Multinorm, The City
of Zagreb, INA d.d., HEP d.d.,
Rimac, PEKAR TOMO d.o.o.,
PIK-VRBOVEC, Žito, Podravka
d.d., Petrokemija, Teva,
Hidraulika Kurelja d.o.o.

AWARDS OR RECOGNITIONS

Best distributor for THK
products in 2021, 2022, 2023
and 2024

STANDARDS/CERTIFICATES

ISO 9001:2015, ISO 14001:2015

KEY TARGET INDUSTRIES

Food industry, Wood industry,
Pharmaceutical industry,
Automotive industry

EXPORT MARKETS

Europe (mostly Serbia, BiH,
Slovenia)

COMPANY NAME

HUNOR

CONTACT

Address Remetinec 42,
10020 Zagreb, Croatia

Website www.hunor.hr

Social media LinkedIn: Hunor d.o.o.
YouTube: HUNOR
AUTOMATION

Primary Contact Denis Petljak, Head of the
Robotics and Mechanical
Engineering Department
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+385 91 170 7105

ABOUT THE COMPANY

HUNOR is Croatia's leading robotics and automation company with over 30 years of experience in industrial automation, CNC machines and controls, industrial robotics, and programming. With decades of industry expertise and countless successfully finished projects, HUNOR provides solutions for the most challenging automation tasks and customer requests across a broad spectrum of industries and technologies.

TECHNOLOGICAL INNOVATIONS

- Flexible sheet metal bending robotic cell
- Flexible jigless LASER welding robotic cell for EV battery production

KEY PRODUCTS

- Custom robotic cells
- Robot programming (ABB and KUKA)
- PLC programming (SIEMENS and BECKHOFF)
- Consulting services
- Turnkey solutions
- Mechanical Engineering services
- Custom machine building
- Vision systems
- CNC controls

KEY CLIENTS/REFERENCES

AD Plastik d.d., Aquaestil d.o.o.,
Baumit d.o.o., DW REUSABLES,
Enikon Aerospace d.o.o., MB
Jaksche Technology d.o.o., MB
Frigo Grupa d.o.o., Saxonia
Franke Group, SILIKO, WACKER
NEUSON

EXPORT MARKETS

Austria, Bosnia and Herzegovina,
Germany, Serbia, Slovenia,
United States of America

KEY TARGET INDUSTRIES

Aerospace, automotive,
composite materials
production and machining,
electric vehicle components
production, HVAC, injection
moulding, laser welding,
logistics, manufacturing,
medical and healthcare industry,
metalworking industry, MIG/
MAG welding





COMPANY NAME

I.E.S.

CONTACT

Address Bok 23 A,
51000 Rijeka, Croatia

Website www.robotadria.eu

Primary Contact Ivica Grgurić, CTO
ivica.grguric@ies.hr
+385 91 539 6566

TECHNOLOGICAL INNOVATIONS

The company engages in the advanced integration of robots into production processes using AI, computer vision, and other advanced technologies. This accelerates digitalization, improves efficiency, and enhances competitiveness.

AWARDS OR RECOGNITIONS

ABB Value Provider, silver medal at the international innovation exhibition ARCA

ABOUT THE COMPANY

The company I.E.S., founded in 2017, provides innovative solutions in the field of industrial automation. The company's solutions are based on expertise gained by professionals during participation in over 100 industrial projects across a wide range of industries. Its services include:

- **System Integration:** Design and programming of automation and electric drive systems from various manufacturers.
- **Creation of Electrical Schematics:** Development of detailed electrical schematics for industrial plants.
- **Commissioning and Supervision:** Commissioning and supervision of production plants.
- **Education:** Providing courses to build and improve competencies, increase safety, and develop problem-solving skills.

In addition, as a representative of Turin Robotics in the Adria region, the company offers high-tech automation and robotics services for improving the efficiency and productivity of industrial processes. The company upholds the values of expertise, innovation, team spirit, and agility, ensuring solutions tailored to specific client needs.

KEY CLIENTS/REFERENCES

Thyssenkrupp Components
Technology Hungary Kft.,
Thyssenkrupp Presta de México
S.A. de C.V., ABB Germany, ABB
France, Adriatic Gate Container
Terminal, Roefix, Impol-TLM
d.o.o., Chromos, Palumbo V.
Lenac, Sveti Rok, Roca etc.

EXPORT MARKETS

France, Germany, Hungary, Italy,
Mexico, Pakistan etc.

KEY TARGET INDUSTRIES

Automotive industry, chemical
industry, logistics/palletising,
food industry, pharmaceuticals,
machining, pulp and paper

COMPANY NAME

Mastroy

CONTACT

Address Ulica Hrvatskih branitelja 7,
10430 Samobor, Croatia

Website www.mastroy.hr

Social media LinkedIn: Mastroy
Facebook: Mastroy
Instagram:
[mastroy_mastering_production](#)

Primary Contact Dino Skansi, Director
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info@mastroy.hr
+385 99 161 6815

ABOUT THE COMPANY

Mastroy offers systematic problem solving in manufacturing companies through an individual integrative and strategic approach, partnering with client companies and addressing their specific production challenges. Mastroy helps manufacturing companies to address current challenges, as well as to prepare for future changes, thereby securing a lasting competitive advantage in the global market.

TECHNOLOGICAL INNOVATIONS

- Specialised packaging systems, computer vision, QA/QC
- Tailor-made robotic grippers, MES, SCADA

KEY PRODUCTS

System integration, cartoning solutions, pick and place, MES, SCADA, etc.

KEY CLIENTS/REFERENCES

Franck d.d., AKD, Bauwerk,
Podravka d.d., Aquafill, Nipro,
Končar, Kerschoffset d.o.o.

EXPORT MARKETS

EU / Worldwide

KEY TARGET INDUSTRIES

Pharmaceutical, food, wood
production, automotive industry,
etc.

COMPANY NAME

NOTUM Robotics

CONTACT

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10410 Velika Gorica, Croatia
Website www.n-r.hr
Social media Instagram: notumrobotics
X: Notum Robotics
Primary Contact Milan Rajčević, CEO
m@n-r.hr
+385 91 272 4622

ABOUT THE COMPANY

Notum Robotics is a privately owned and funded venture, incorporated in 2022 in Velika Gorica, Croatia. Notum specialises in physical AI agents and low-energy connectivity solutions for robotics and infrastructure. Their primary focus is software development for the emerging world of intelligent machines, innovating in the areas of reasoning, vision, communication, and navigation of autonomous solutions.

TECHNOLOGICAL INNOVATIONS

- nMesh – a self-meshing, self-healing IoT connectivity solution designed for urban environments
- nTAK – a Tactical Awareness Kit for first responders based on nMesh
- 4D Lidar SLAM optimised for quadrupeds
- Temporal AI: LLM with a novel tensor architecture

KEY PRODUCTS

Notum produces tailor made software and hardware solutions for physical AI in industrial, civil engineering and public safety environments. Their solutions range from robotic comms with nMesh - their low energy network to DogOS, their all-in-one software and hardware augmentation for quadrupedal autonomy.

KEY CLIENTS/REFERENCES

Leading Construction Management Service providers in Massachusetts and New Hampshire, OSHA enforcement and Jobsite Safety contractors

EXPORT MARKETS

United States of America (Massachusetts (New England area), New Jersey, New York) – 95% of revenue.

KEY TARGET INDUSTRIES

Construction, worksite safety, civil engineering, automotive, industrial

COMPANY NAME

Novatec

CONTACT

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Facebook: Novatec New Technologies

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TECHNOLOGICAL INNOVATIONS

One of Novatec's most significant projects is the Gamsberg zinc project. This robotised zinc production plant, worth 400 million USD, is the first fully digitalised ore plant in Africa where Novatec has implemented an entire computerised process control and automation system on a turnkey basis. The Novatec delivery consisted of the design of hardware and software, the construction of more than 200 meters of electrical cabinets, as well as the startup and commissioning of the zinc and lead concentrator plant.

ABOUT THE COMPANY

Since 1994, Novatec has been specialising in industrial automation, robotics, and software development in the fields of mining and metals, renewable energy sources, automotive, maritime industry, etc. In addition, the company is undertaking intensive development of smart solutions in the field of urban mass mobility (the Electric Minibus with Eco system – battery charger package). Its team consists of top experts in the fields of automation and robotics, electrical supervisors, hydraulic supervisors, mechanical supervisors, hardware and software experts, software engineers, electrical engineers, and project managers. Novatec has been continuously building a strong reputation as a reliable partner with the ability to design, develop and deliver the agreed-upon engineering solutions for individual equipment or fully integrated packages. Its experts help reduce customer costs and increase the speed and flexibility of client company development.

STANDARDS/CERTIFICATES

ISO 9001, Siemens Solution Provider

AWARDS OR RECOGNITIONS

The City of Labin annual best company award in 2023

EXPORT MARKETS

Africa, EU, Middle East

KEY TARGET INDUSTRIES

Mining and metals, chemical and pharmaceutical industry, renewable energy, automotive industry, maritime automation, food & beverages, logistics, water treatment and processing.

COMPANY NAME

OLUK Robotics

CONTACT

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40305 Nedelišće, Croatia
Website www.oluk-robotics.hr
Social media LinkedIn: OLUK Robotics d.o.o.
Primary Contact Vanja Čemerin, CEO
vanja.cemerin@oluk-robotics.hr
+385 95 503 5904

ABOUT THE COMPANY

OLUK Robotics specialises in robotic material removal applications like robotic grinding, sanding, polishing, deburring, etc., providing high-precision surface finishing for various industries. Established in 2023, the company leverages advanced automation and engineering expertise to enhance efficiency, consistency, and quality in robotic material removal applications. With a focus on innovation and customised solutions, OLUK Robotics helps businesses optimise production while reducing costs and manual labour.

TECHNOLOGICAL INNOVATIONS

OLUK Robotics pioneers advanced robotics material solutions, integrating AI-driven process optimization and adaptive force control for superior surface finishing. Its innovative approach enhances precision, reduces material waste, and improves efficiency, ensuring consistent quality across various industrial applications.

KEY PRODUCTS

- Robotic cells for grinding, sanding, polishing, and deburring – 5 per year
- Helping customers integrate robotic cells
- Positioners for robotic cells – one-axis positioners, two-axis positioners, travelling axes (7th axis) for robots
- Helping companies integrate and design various automation processes with the Wittenstein portfolio

KEY CLIENTS/REFERENCES

Hanjes & Co. Stahlbau GmbH,
HAHN Automation Group,
INETEC d.o.o., Virs d.o.o.

EXPORT MARKETS

Croatia, Slovenia

KEY TARGET INDUSTRIES

- Automotive (metal and plastic component polishing)
- Aerospace (high-quality surface treatment)
- Medical (polishing of surgical instruments and implants)
- Metalworking (automated grinding of welds for improved efficiency)

COMPANY NAME

OPTIMUS DRIVE

CONTACT

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Website www.optimusdrive.hr
Primary Contact Sebastijan Kos, CEO
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ABOUT THE COMPANY

OPTIMUS DRIVE was established in 2021 and specialises in industrial automation, PLC programming, and commissioning. The company collaborates with international partners in the automotive industry, delivering high-quality automation solutions. Its expertise also includes electrical engineering, mechanical integration, and industrial communication, ensuring efficient and reliable system implementations. Optimus Drive is committed to innovation and continuous development in automation.

KEY CLIENTS/REFERENCES

PIA Automation Austria GmbH, PIA Automation US Inc., PIA Automation Ningbo, PIA Automation Canada Inc, TMP GmbH automation & engineering

EXPORT MARKETS

Germany, Austria, USA, Canada, China, Hungary, and others

KEY TARGET INDUSTRIES

Automotive industry

COMPANY NAME

Probotica

CONTACT

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10000 Zagreb, Croatia

Website www.probotica.hr

Social media LinkedIn: Probotica

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ABOUT THE COMPANY

Probotica is a forward-thinking company specialising in advanced robotics and automation with a strong focus on research and development. Founded in 2019, it leverages its expertise in robotics and system integration with a broad portfolio of autonomous mobile robot projects to deliver innovative, tailor-made solutions. Driven by a dedicated team of professionals, Probotica collaborates closely with leading universities on cutting-edge projects in autonomous mobility.

TECHNOLOGICAL INNOVATIONS

Probotica has developed advanced autonomous mobile robotic systems that integrate innovative sensor fusion, AI-driven controls, and modular design. These unique solutions deliver enhanced precision and adaptability for dynamic robotics applications.

KEY PRODUCTS

- SEEker robot
- Marinero autonomous surveillance UGV
- Development of Hybrid Drive UGVs

STANDARDS/CERTIFICATES

ISO 9001

KEY CLIENTS/REFERENCES

DOK-ING d.o.o., Sinitech industries d.o.o., Ruđer Bošković Institute, RONNA Medical d.o.o., Šela d.o.o., Bajkmont d.o.o., Summa-con d.o.o.

KEY TARGET INDUSTRIES

Probotica's robotics solutions are engineered for industries operating in challenging outdoor environments. Their systems perform automated patrols, hazardous sample collection, and repetitive outdoor tasks – effectively replacing human labour for safer operations.

COMPANY NAME

PROEL Automatizacija

CONTACT

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10000 Zagreb, Croatia

Website www.proel-automatizacija.com

Social media LinkedIn: PROEL Automatizacija
d.o.o.
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Instagram: proel_grupa

Primary Contact Dario Novak,
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+385 91 234 0303

ABOUT THE COMPANY

PROEL Automatizacija is a young company, but it has grown owing to the rich engineering experience of its employees in the field of industrial automation. Its core services comprise designing and building simple or complex industrial systems tailored to user requirements. Today, the company offers a comprehensive service that includes basic engineering, design, production of electrical cabinets, SCADA/HMI/PLC programming, equipping plants with computer vision and industrial robots, commissioning and maintenance of systems, and user training. PROEL Automatizacija develops industrial solutions based on customer needs and goals, guaranteeing a high-quality relationship between the delivered solution and growth through investment in state-of-the-art equipment and processes that significantly multiply production results.

TECHNOLOGICAL INNOVATIONS

- OPTICUT special solution for cutting medical ampoules
- 3D navigation for robots with industrial cameras
- AGV development of control system
- DISTPAC system – an automatically synchronised system for managing an advanced distribution network with the aim of maintaining reliability and robustness in real-time

KEY PRODUCTS

- SCADA systems
- PLC programming
- EPLAN electric design
- Electrical cabinets
- Servo systems & motion application
- Robotics
- Machine vision
- Manufacturing and developing special-purpose machines

KEY CLIENTS/REFERENCES

Pliva d.o.o., JGL d.d., Pfizer Inc., Belupo d.d., Genera, ACG Lukaps d.o.o., Cemex, NEXE, KronoSpan, Rofix, TPV, ISKRA, Podravka d.d., Zdenka, Coca Cola, HiPP, ELDA, Colas, Vertiv, Siemens AG, ABB, NIPRO, Heplast-pipe d.o.o., Akrapović

AWARDS OR RECOGNITIONS

Gold and Silver Awards of the Slovenian Ministry of Economy for 3D navigation of robotics and machines for optical quality inspection

STANDARDS/CERTIFICATES

ISO 9001, GAMP, ABB System Integrator, Siemens Add Value Reseller, Yaskawa System Integrator, Mitsubishi System Integrator, ATEX certification

EXPORT MARKETS

Bosnia and Herzegovina, Slovenia, Hungary, Italy, France, Germany, SA Africa, Kuwait, Qatar

KEY TARGET INDUSTRIES

ATEX application, pharmaceutical industry, cement industry, F&B industry

COMPANY NAME

Romb Technologies

CONTACT

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Website www.romb-technologies.hr

Social media LinkedIn: Romb Technologies

Primary Contact Damjan Miklić
Director, Founder
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ABOUT THE COMPANY

Romb Technologies develops software for autonomous navigation in intralogistics. Its modules tackle key issues like mapping, localization, planning, and path tracking. Its solutions integrate seamlessly with existing processes, boosting reliability and efficiency in logistics operations. Romb Technologies was established in 2018.

TECHNOLOGICAL INNOVATIONS

- Patented high-accuracy efficient path following technology (EP4073608)
- Localization using natural features of the environment
- Semantics-aware visual perception
- Adaptive pallet pose pickup based on visual perception (EP24223684.2, patent pending)

KEY PRODUCTS

- Navigation software
- Map building
- Localization
- Accurate path following
- AGV Roadmap design, commissioning and monitoring software
- Hardware and software integration for AGVs/AMRs
- Specialised development and training for high-accuracy navigation systems
- Mobile robotics education

KEY CLIENTS/REFERENCES

- System Logistics – development of bespoke autonomous navigation software in collaboration with an in-house R&D team
- RV Automation – licenced software modules for map building, localization, path following, and roadmap design; conversion of manually operated forklifts into AGVs
- OMCO Croatia – design and commissioning of an automation solution for the transport of raw materials in glass mould production

EXPORT MARKETS

Italy, Spain, Lithuania, China

KEY TARGET INDUSTRIES

Logistics, manufacturing





COMPANY NAME

RONNA MEDICAL

CONTACT

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Website www.ronna-medical.com

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Primary Contact Zvonimir Bušić,
managing director
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+385 1 4400 230

ABOUT THE COMPANY

RONNA MEDICAL, established in 2021, is a pioneer in the research and development of advanced healthcare technologies. Specialising in innovative medical products, the company's flagship offering, the RONNA G6, is a next-generation neurosurgical robotic system featuring haptic feedback for increased safety during operations, automatic localization, and autonomous driving.

TECHNOLOGICAL INNOVATIONS

RONNA MEDICAL's innovations focus on robotic neurosurgery. The RONNA G6 Robotic Neuronavigation System combines an autonomous platform, a stereotactic "RONNA vision" camera, a planning station, and cranial bone markers, enhancing precision, ease-of-use, and outcomes.

KEY PRODUCTS

- RONNA G6 Robotic Neuronavigation System – annual production volume of 6 units
- RONNA Cranial Marker System – annual production volume of 2000 sets, with each set comprising 5 screws and 5 mounting caps

STANDARDS/CERTIFICATES

- In preparation for:
- ISO 13485 Medical Devices – Quality Management Systems
 - CE Product Marking according to EU Medical Device Regulation 2017/745

EXPORT MARKETS

EU

KEY TARGET INDUSTRIES

- Healthcare/medical – particularly neurosurgery and related surgical disciplines, focusing on robotic-assisted procedures
- Research and development – academic institutions and labs seeking advanced robotic platforms for clinical and preclinical investigations

COMPANY NAME

SINEL

CONTACT

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52220 Labin, Croatia

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Instagram: sinel_labin

Primary Contact Milan Rudan, Director
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ABOUT THE COMPANY

Founded in 1992, Sinel specialises in the automation of industrial production processes and the development of robotic applications. The company focuses on non-standard solutions tailored to the specific requirements of its end customers. Sinel's skilled team covers a wide industrial scope across sectors such as the metalworking, automotive, shipbuilding, and the food industry. The company also offers expert service, repair, and upgrades of machine tools and industrial electronics.

TECHNOLOGICAL INNOVATIONS

- Robotic solutions for the food industry, specialising in hygienic design and advanced vision systems for quality and traceability
- Modular robotic cells designed for rapid deployment and easy reconfiguration across diverse production needs
- Proven track record in complex automated assembly and quality control machines for automotive suppliers

KEY PRODUCTS

- Robotic packaging cells
- Robotic palletization cells
- Automated assembly cells
- AI-powered quality control systems
- Custom-made check weighers with print and apply systems
- Metal detectors (food industry)
- Overhead conveyors for cardboard or plastic boxes
- Food industry conveyor systems
- Project consulting, planning, and R&D
- Electrical engineering and automation software development

KEY CLIENTS/REFERENCES

British American Tobacco p.l.c.,
Podravka d.d., Perutnina Ptuj,
Đuro Đaković, TMD Ai d.o.o.
Gradačac, CIMOS d.d., AD
Plastik d.o.o., KGL d.o.o., FSB,
RITEH

EXPORT MARKETS

USA, Italy, Slovenia, Bosnia
and Herzegovina, Serbia,
Montenegro, and other
surrounding countries

KEY TARGET INDUSTRIES

Food, automotive, metal
processing, logistics &
intra-logistics industries

COMPANY NAME

SMART ROBOTICS

CONTACT

Address Radnička cesta 32,
10000 Zagreb, Croatia

Website www.smartrobotics.hr

Social media LinkedIn: Smart Robotics

Primary Contact Hrvoje Turkalj
hrvoje.turkalj@smartrobotics.hr
+385 98 205 214

ABOUT THE COMPANY

SMART ROBOTICS offers affordable end-of-line robotic packaging and palletising automation systems most needed in FMCG factories for manual labour-intensive work functions. Its mission is to democratise robot ownership in Croatian and European factories, enabling owners to boost productivity.

TECHNOLOGICAL INNOVATIONS

The affordable Robot Palletising, Case Erecting and Packing Machines are easy to operate, have a small footprint to fit current human labour space, are movable with a forklift and offer maximum flexibility, including:

- FANUC Industrial Robot / COBOT
- Almost no format parts
- Fast changeovers in less than 2 minutes
- Standardised tools
- Low maintenance costs, off-the-shelf wearable parts
- Continuous efficiency
- Fast payback
- 12-24 month limited warranty

KEY PRODUCTS

- SMARTPAL MINI
- SMARTPAL DUO
- SMARTPACK packing machines

KEY CLIENTS/REFERENCES

Klas d.d. Sarajevo, Bingo d.o.o.,
Tuzla

EXPORT MARKETS

Croatia, Bosnia and
Hercegovina, Western Balkans

KEY TARGET INDUSTRIES

All FMCG factories

COMPANY NAME

STEMI

CONTACT

Address Radmile Matejčić 10,
51000 Rijeka, Croatia
Website www.stemi.education
Social media LinkedIn: Stemi Education
Instagram: stemi.education
Primary Contact Marin Trošelj, CEO
marin@stemi.education

ABOUT THE COMPANY

Founded in 2016, STEMI is an EdTech company dedicated to accelerating high-tech workforce development by bridging the gap between schools and the tech industry. Specialising in project-based learning, STEMI offers industry-certified STEAM programs for middle and high school students, focusing on areas such as robotics, artificial intelligence, and more. Their flagship robotics program engages students in building a hexapod robot designed for Mars exploration, fostering an engineering mindset and practical problem-solving skills.

TECHNOLOGICAL INNOVATIONS

STEMI has developed the Hexapod robot, an innovative six-legged robotic platform designed to provide students with hands-on learning experience in robotics and engineering. This unique solution enables learners to engage in practical applications of STEM concepts, fostering an engineering mindset and practical problem-solving skills.

KEY PRODUCTS

- STEMI Hexapod
- STEMI LMS
- STEMI Educational Programs

AWARDS OR RECOGNITIONS

- Kids Judge Bett Award in both 2022 and 2023
- #21 on Deloitte Technology Fast 50 Central Europe 2024

KEY CLIENTS/REFERENCES

InterAmerican Development Bank, Norwalk Public Schools, Shelby County Public Schools, Prince George County Public Schools, Milestone C, Koding Next

EXPORT MARKETS

USA, Brazil, Indonesia, UK

KEY TARGET INDUSTRIES

Education, Professional Development

COMPANY NAME

Strojotehnika

CONTACT

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10360 Soblinec, Croatia

Website www.strojotehnika.hr

Social media LinkedIn: Strojotehnika d.o.o.

Primary Contact Ivan Bartolin,
Head of the Robotics and
Automation Department
ivan.bartolin@strojotehnika.hr
+385 91 281 6360

ABOUT THE COMPANY

Strojotehnika specialises in robotics, automation, and the production of special machines. Its team of experts develops and implements customised robotic systems, automated lines, and special machines to meet the specific needs of its clients. The company offers design development, electrical design, PLC programming, robot programming, in-house production of parts, electrical and mechanical assembly, and final commissioning at the client's site. Its mission is to enable clients to increase productivity, reduce costs and improve product quality.

KEY PRODUCTS

- Robotic stations
- Special machines
- Automated lines

KEY CLIENTS/REFERENCES

Schaeffler special machinery GmbH, FELSS
Systems GmbH, IPTE GmbH, Tekvor care GmbH

EXPORT MARKETS

European Union, Bosnia and Herzegovina, Serbia

KEY TARGET INDUSTRIES

Automotive industry, healthcare, logistics,
manufacturing

COMPANY NAME

V&R Automated Systems

CONTACT

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10360 Sesvete, Croatia

Website www.vandr-as.hr

Social media LinkedIn: V&R Automated Systems

Primary Contact Damjan Miklič, Director
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ABOUT THE COMPANY

The company provides turnkey solutions for material handling automation. By upgrading proven brand-name forklift platforms with state-of-the-art sensing and computing equipment and software, it offers automated guided vehicles (AGVs) with market-leading capabilities. These solutions integrate into existing workflows to improve the efficiency and reliability of client logistics.

TECHNOLOGICAL INNOVATIONS

Complete hardware and software system for turning manual forklifts into mobile robots

KEY PRODUCTS

- Automated guided vehicles (AGVs) – 5 AGVs
- Turnkey solutions for material handling process automation

KEY CLIENTS/REFERENCES

OMCO Croatia – Automation of raw materials transport in glass mould production

EXPORT MARKETS

Austria, Hungary, Slovenia, Italy, Bosnia and Herzegovina, Serbia

KEY TARGET INDUSTRIES

Logistics, manufacturing

COMPANY NAME

Visor

CONTACT

Address Slavonska avenija 22C,
10000 Zagreb, Croatia

Website www.visor.hr

Primary Contact Bruno Birgmajer, CEO
Bruno.birgmajer@visor.hr
+385 1 3667 110

ABOUT THE COMPANY

Visor is an engineering company specialising in development and manufacturing of machine vision and robotic systems, primarily for automated optical inspection (AOI) and vision-guided robotic handling. Their high-end systems rely on state-of-the-art sensing and automation components coupled with customised software and are fully tailored to the customer's process. With 15+ years of experience and expertise in vision and robotics, they have 150+ systems deployed worldwide – incl. Brazil, Mexico, the USA, most of the EU, the GCC area, India, China and Thailand.

TECHNOLOGICAL INNOVATIONS

Multi-robot flexible AOI system for comprehensive optical quality control

KEY PRODUCTS

- Custom automated optical inspection (AOI) systems
- Integrated inspection and handling machines
- Vision-guided robotic handling and sorting
- Advanced 2D/3D optical metrology stations
- Custom vision, PLC, SW and mechanical engineering

STANDARDS/CERTIFICATES

- ISO 9001, ISO 14001
- Mvtec Certified Integration Partner
- ISO 27001 implementation in process

KEY CLIENTS/REFERENCES

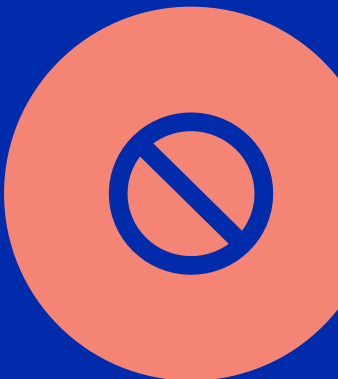
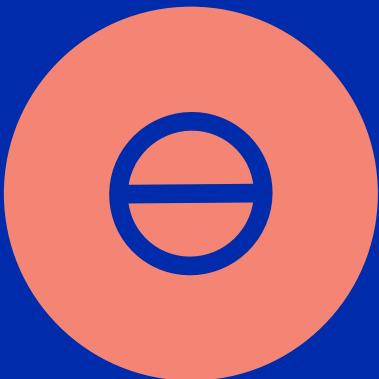
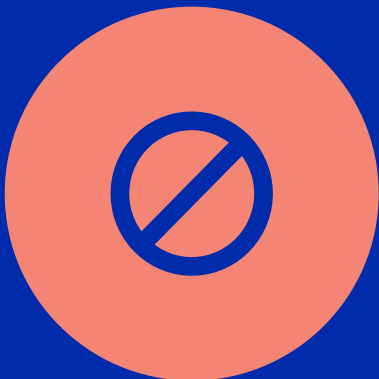
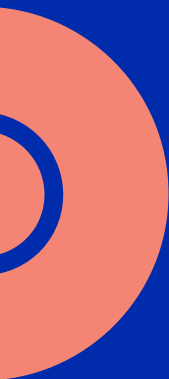
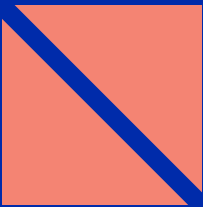
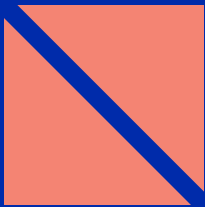
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d.d., DS Smith plc, Camsensor
Technologies Ltd.

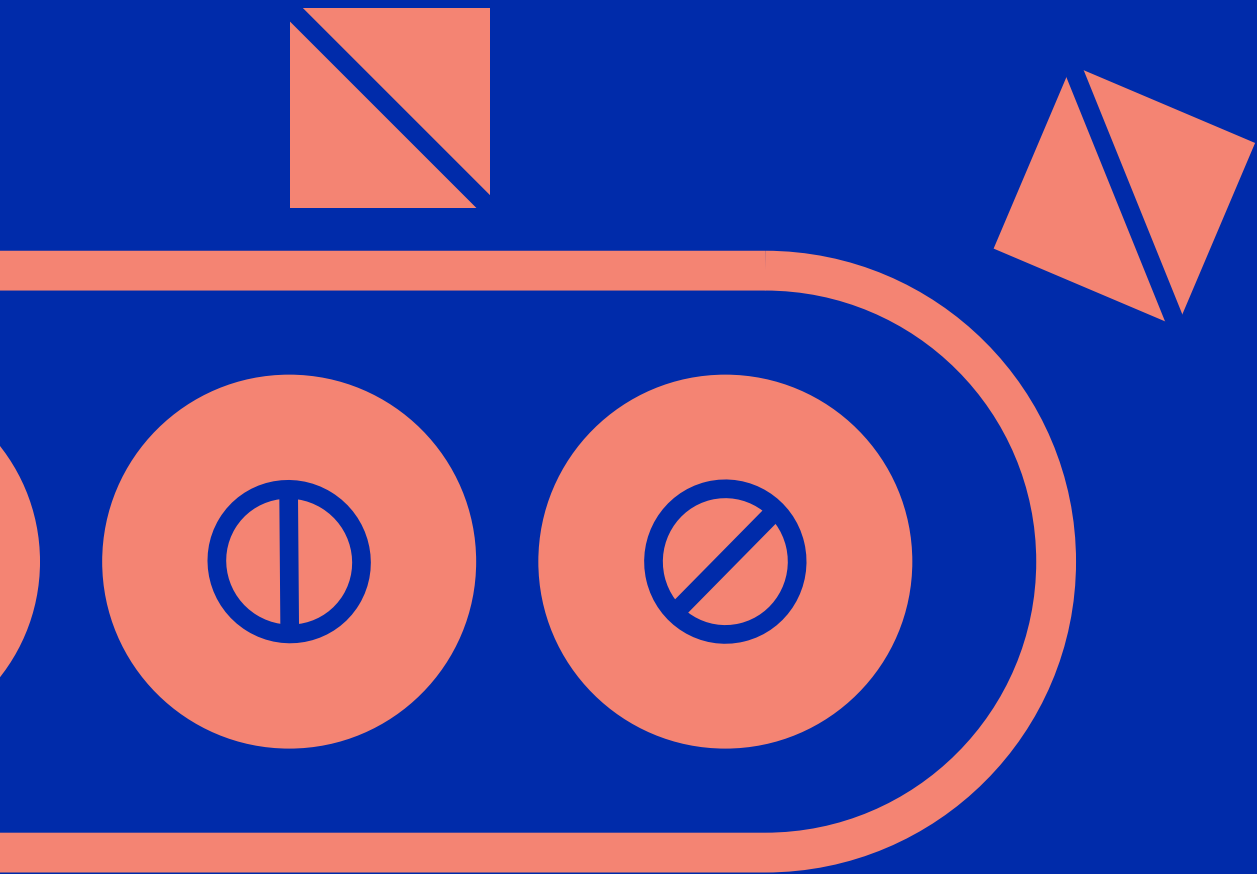
EXPORT MARKETS

- Global activity and installation base
- Primary activity – Austria, Germany, China, Thailand

KEY TARGET INDUSTRIES

Electronics, automotive,
defense, packaging





About us

Ministry of Economy

As the key governmental body responsible for economic development, industrial policy, and investment facilitation, the Ministry of Economy plays a central role in shaping Croatia's business environment and fostering the growth of high-tech industries, including robotics and automation.

Recognising the importance of attracting foreign direct investment (FDI) and strengthening domestic enterprises, the Ministry of Economy provides comprehensive support to investors. This includes:

- **Investment incentives:** Tax reliefs and grants for businesses investing in strategic sectors such as robotics, artificial intelligence, and automation.
- **Regulatory support:** Assistance in navigating Croatia's legal and administrative framework to ensure a smooth and efficient investment process.
- **Infrastructure development:** Support for the establishment of industrial zones, technology parks, and innovation hubs that create a favourable environment for high-tech companies.

In addition to supporting large-scale investments, the Ministry actively promotes entrepreneurship, startups, and SMEs. Acknowledging that robotics and automation are often driven by agile and innovative companies, it provides funding schemes, advisory services, and networking opportunities to foster the growth of tech-driven enterprises.

The Ministry also facilitates strategic partnerships between international investors and local experts, creating synergies that benefit Croatia's robotics ecosystem while offering foreign partners access to the country's technical talent and innovation capabilities.

By fostering a business-friendly environment, promoting innovation, and providing targeted financial support, the Ministry of Economy serves as a crucial partner for both domestic and international stakeholders looking to invest in Croatia's rapidly evolving robotics sector.

Contact details

Ministry of Economy

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E invest@mingo.hr

W investcroatia.gov.hr

Ministry of Science, Education and Youth

The Ministry of Science, Education, and Youth is responsible for overseeing and improving the education system at all levels. It develops the National Curriculum, regulates textbooks and educational standards, and ensures the quality of preschool, primary, and secondary education both in the country and abroad. The Ministry of Science, Education and Youth also establishes and supervises educational institutions, provides funding and infrastructure, conducts inspections, and promotes technical skill development in children, young adults, and adults. Additionally, it supports organizations dedicated to education and works to enhance the student standard.

In the field of higher education, the Ministry of Science, Education and Youth manages funding and resources for universities and colleges, monitors their activities, and evaluates institutions and study programs. It oversees the Croatian Qualifications Framework, lifelong learning initiatives, and higher education databases. The Ministry of Science, Education and Youth also safeguards the quality of study programs, administers registries of institutions and study programs, and provides financial aid to students to improve access to education.

Regarding science and innovation, the Ministry of Science, Education and Youth fosters research and technological advancement by supporting institutions, harmonising funding programs with research projects, and promoting intellectual property protection. It encourages technology transfer between research organizations and the business sector and enhances international scientific cooperation. The Ministry of Science, Education and Youth also facilitates researcher mobility, scholarships, and international training programs while supervising research institutions.

Additionally, the Ministry of Science, Education and Youth plays a key role in implementing EU-funded and international projects related to education, science, and technology. It collaborates with state property management authorities in overseeing publicly owned educational assets and represents Croatia in European and international education and research committees.

Contact details

Ministry of Science, Education and Youth

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Regional Center of Excellence for Robotic Technology (CRTA)

Innovation and Research at the Highest Level

The **Regional Center of Excellence for Robotic Technology (CRTA)**, located at the Faculty of Mechanical Engineering and Naval Architecture in Zagreb, is the first centre of excellence for robotics in Croatia. As a leading research centre, CRTA brings together laboratories for autonomous systems, artificial intelligence, and medical robotics, bridging the gap between academia, industry, and innovation.

CRTA is dedicated to developing innovative technologies and fostering progress through multidisciplinary research, workshops, and collaborations with industrial and academic partners. Cutting-edge research in artificial intelligence, autonomous systems, and medical robotics is conducted with the goal of advancing technological solutions.

Educating Future Leaders in Robotics

As part of the Faculty of Mechanical Engineering and Naval Architecture, CRTA plays an active role in educating future engineers. The **Mechatronics and Robotics** university study program, launched in 2020, provides students with the opportunity to acquire modern and competitive knowledge through hands-on experience in high-tech laboratories. The curriculum covers various fields, from robotics and automation to cybernetics and smart transportation systems.

State-of-the-Art Laboratories

CRTA spans 740 square meters and includes three specialised laboratories:

- **Artificial Intelligence Laboratory** – focused on motor intelligence research and humanoid robots.
- **Autonomous Systems Laboratory** – exploring human-robot interaction and developing systems for safe and efficient collaboration in industrial environments.
- **Medical Robotics Laboratory** – equipped with a surgical room for the preclinical testing of neurosurgical robots and advancing innovations in medical robotics.

Research Projects Shaping the Future

CRTA is currently involved in several research projects involving more than 70 researchers:

- **Insight** – a project in collaboration with BMW Group, developing AI-based predictive models for battery cell production and recycling. Researchers, graduate students, and PhD candidates contribute, enhancing their expertise and mobility towards the industry.
- **Marinero and Robocamp** – two IRI projects focused on developing innovative products, services, and business models in tourism, aimed at digital and green transition.
- **Resonance** – a project on robotic ultrasound guidance and targeting in urological procedures, funded by the Adris Foundation.
- **Remdoc** – an innovative system for remote (teleoperative) medical diagnostics and patient scanning.
- **Inspiration** – a three-year project aimed at developing a non-invasive patient registration method for robotic neurosurgery.
- **Pronobis and Andromeda** – robotic navigation for prostate biopsy and autonomous drilling for medical applications, funded by NPOO.

A Centre of Excellence Open for Collaboration

CRTA is committed to transferring knowledge and innovation to the industry. It provides resources, expertise, and infrastructure for advanced research while fostering collaboration with industrial partners to develop innovative technologies. Through facilitating **technology transfer**, CRTA contributes to the commercialization of research results, the creation of new products, and increasing economic competitiveness. With a vision of ensuring top-tier research and educational conditions, CRTA aims to attract scientists from across Europe and create an exceptional environment for students who will shape the future of robotics.

Contact details

Regional Center of Excellence for Robotic Technology

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Faculty of Electrical Engineering and Computing

As the largest and most prestigious technical faculty in Croatia, the Faculty of Electrical Engineering and Computing (FER) is a powerhouse in electrical engineering, computing, and information and communication technology. With a legacy that dates back to 1919 as part of the University of Zagreb, FER has continuously evolved into a regional leader in education, research, and technology transfer.

With cutting-edge facilities spanning over 43,000 m², FER offers unparalleled resources to students and staff, including 35 modern lecture halls,

60+ specialised laboratories, a state-of-the-art Congress Centre, extensive library networks, student-focused support centres, and top-tier sports and recreational amenities.

FER houses 12 departments that serve as dynamic hubs for innovation, education, and research, supported by over 195 professors and 134 teaching assistants, and a vibrant student body of 3,725 undergraduates and graduates, plus 443 postgraduate students. The faculty thrives with 642 staff members who drive a culture of excellence.

Global Reach, Local Impact

FER is a trailblazer in international collaboration, currently participating in 190+ prestigious projects funded by both the European Union and national bodies. FER also boasts a proven track record of success in top-tier funding programs such as HORIZON 2020, HORIZON EUROPE, the European Regional Development Fund and many more.

In just the past five years, FER has become one of the most active and influential research institutions in Croatia, engaging in cutting-edge projects across Europe and beyond.

Experience the Future of Technology with FER – where knowledge, innovation, and global partnerships come together to shape our society and future.

Contact details

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