

  
Comaxel  
2025

REDUCE REUSE RECYCLE  
WE DO NOT WASTE MATERIALS  
WE FIND OTHER USES FOR THEM



COMAXEL

NORSEPOWER

Making Dreams Real



Contact us

Comaxel Spółka z ograniczona odpowiedzialnością

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# COMAXEL FOUNDERS

## WELCOME,

Comaxel Spółka z ograniczoną odpowiedzialnością was established in 2013 in Goldap, Warmian Masurian, Poland – a picturesque region renowned for its stunning lakes and lush forests, providing an idyllic backdrop for our operations.

### Our products and services

Plugs and moulds

Mega structures

Composite parts

Composite sheets

Recycling – Go Green



### Michael Rann Co-Founder, CEO

One of the two owners of Comaxel Spółka z ograniczoną odpowiedzialnością. Holder of a Master of Science degree in Chemical Engineering. Michael has been working with composite structures and processes for more than 20 years and is head of all technical relations and project managements.

### Katarzyna Gorska Co-Founder, Administration

One of the two owners of Comaxel Spółka z ograniczoną odpowiedzialnością. Holder of a Bachelor degree in Business Economics. Kasia has been working with composites for more than 15 years and knows well the different products and processes.

# CONTENT

## 01 Facilities

At present, our team comprises nearly 100 dedicated individuals, collectively striving to deliver premium-quality products to our esteemed clients across Europe. Housed within our expansive 5000m<sup>2</sup> production facilities, equipped with state-of-the-art fibre weaving cranes, we ensure efficient and precise manufacturing processes. Our new rapid quarantine warmly welcomes our guests and our new production facility is equipped presses, large scale beam saw, CNC machinery for fitting and milling boat making Comaxel able to handle any request of modelling and mould production.

## 02 Products

Our product portfolio predominantly revolves around utilizing epoxy, glass and carbon fibers, constituting approximately 95% of our supply materials. We boast a diverse range of offerings, catering to every conceivable demand of our clientele. From the fabrication of intricate glass fiber washers to the monumental achievement of producing 36m Flattner rotors – the largest ever manufactured globally – we continually push the boundaries of innovation and excellence. Highest quality CMC approved composite sea containers approved for payload above 28 ton. Advanced epoxy/carbon booms for sailing yachts. High end composite wing sails up to 40m in height. Advanced composite climate solution regulating water flow during flooding. Carbon part production for a broad spectrum of client.

## 03 Prototyping and development

Central to our ethos is the unwavering commitment to shepherd an idea from conception to fruition. With an extensive wealth of expertise in prototyping, we offer comprehensive services encompassing design, engineering, plug and mould creation, prototype development, in-process testing, and production setup.

## 04 Documentation

Ensuring transparency and accountability, we meticulously document every facet of our production process. Each component manufactured by Comaxel comes with complete documentation, securely stored on our Client Shared Server (CSS) as part of our robust Project Management Program.

## 05 Leadership

Beyond our dedication to craftsmanship, we are deeply invested in fostering a culture of environmental stewardship and safety consciousness. With utmost reverence for our natural surroundings, we prioritize sustainable production practices and prioritize the safety and well-being of our workforce. One result is that we reduce our carbon footprint by thousands of tons per year, only using sustainable power based on wind, solar and water for our production. Comaxel takes pride in its adherence to industry-leading standards, holding certifications across the board, including ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018.

## 06 Pedigree

Furthermore, we are privileged to collaborate with esteemed partners hailing from Finland, Sweden, Norway, Denmark, Switzerland, Austria, Italy, Germany, France, Lithuania and Poland, fostering mutually beneficial relationships that underscore our global reach and influence.

# U

„ Great things in business  
are never done by one person.  
They're done by a team of people. ”

COMAXEL team - Making Dreams Real



Small part of  
**Comaxel**  
team

# 01. Facilities

At present, our team comprises nearly 100 dedicated individuals, collectively striving to deliver premium-quality products to our esteemed clients across Europe. Housed within our expansive 5000m<sup>2</sup> production facilities, equipped with state-of-the-art 10mt traverse cranes, we ensure efficient and precise manufacturing processes. Our new head quarter warmly welcomes our guests and our new production facility is equipped presses, large scale beam saw, CNC machinery for kitting and milling robot making Comaxel able to handle any request of modelling and mould production.



Graniczna 5



Ekonomiczna 14

## Why choose us

- 1 Experience and professionalism
- 2 Innovative solutions
- 3 Individual approach
- 4 Reliability and **QUALITY**



## Comaxel Megastructures

Moving megastructures is not easy. But over several years, we have come to perfection.

We are calm and ready for what lies ahead, with an experienced team we can move mountains - Both figuratively and literally.

# 02. Products

Our product portfolio predominantly revolves around utilizing epoxy, glass, and carbon fibers, constituting approximately 99% of our supply materials. We boast a diverse range of offerings, catering to every conceivable demand of our clientele. From the fabrication of intricate glass fiber washers to the monumental achievement of producing 35m Flettner rotors – the largest ever manufactured globally – we continually push the boundaries of innovation and excellence. Highest quality CSC approved composite sea containers approved for pay load above 28 ton. Advanced epoxy/carbon booms for sailing yachts. High end Composite wing sails up to 40m in height. Advanced composite climate solution regulating water flow during flooding. Carbon part production for a broad spectrum of clients.

**Innovation, quality and precision** – we are creating the future of composites on a global scale.

– *Michael Rann*



### VISION

We strive to be a global leader in advanced composites, continually developing innovative solutions for the marine, aerospace and green technology industries.



### MISSION

Our mission is to provide the highest quality carbon fiber, fiberglass and epoxy products, combining innovation with reliability to meet the most demanding needs of our customers.

At Comaxel we produce very large structures rising to the biggest Flettner rotors ever produced worldwide. With a height of 35m and a diameter of 5m our composite rotors sails has been our so far biggest and most challenging component to make. We have together with the client produced most of the tooling for this including plugs, moulds, jigs and other relevant tooling.

The rotors are today working with all approvals for the marine market.



Central to our ethos is the unwavering commitment to shepherd an idea from conception to fruition. With an extensive wealth of expertise in prototyping, we offer comprehensive services encompassing design, engineering, plug and mould creation, prototype development, in-process testing, and production setup.



#### KUKA KR 240 R2900 ULTRA

Robot milling, Sculpture machining,  
Multiaxis cutting, Trimming,  
Deburring.

#### Plugs and moulds

Production of high-quality components goes all the way back to high quality plugs. Defects in plugs will be visible in the moulds which again will be visible in each component.

At Comaxel we always have an open discussion with our clients about quality level of the components, which process is expected and other relevant details. Based on this we can recommend the full tooling package.

Production of plugs can be done as one off using MDF or similar...very fast and cheap solution enough for most applications. Next level is using tooling boards with density 300-1000kg/m<sup>3</sup>. Using this practice we can achieve high end quality for long lasting tools with temperature resistance up to 130 degrees of Celsius perfect for prepreg production with vacuum integrity drop of maximum 20mbar/20 minutes at 3% residual pressure.

## 03. Proto typing and development

#### Morbidelli X200 - Nesting CNC Machining Centre

Trimming small components, washers, templates, bulkheads, core kitting and much more...



At Comaxel we provide our clients a wide range of specialized moulds. Every mould is produced with focus on quality to ensure our clients ongoing production of high-end components.

Through dialog we can recommend what type of mould will give the best results dependant on our client's choice of production process and demands in surface finish.

Our range of moulds starts with standard vinylester based unheated moulds till high end epoxy moulds with hydraulics and built in electrical microprocessor-controlled heating system.

**Comaxel**  
shall be able  
to handle all  
services from  
first sketch till  
final product.

# 04. Documentation

Ensuring transparency and accountability, we meticulously document every facet of our production process. Each component manufactured by Comaxel comes with complete documentation, securely stored on our Client Shared Servers (CSS) as part of our robust Project Management Program.

**Comaxel is certified with all three main standards.**

**ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018**

## What is ISO 9001?

ISO 9001 is a globally recognized standard for quality management. It helps organizations of all sizes and sectors to improve their performance, meet customer expectations and demonstrate their commitment to quality. Its requirements define how to establish, implement, maintain, and continually improve a quality management system (QMS).

Implementing ISO 9001 means your organization has put in place effective processes and trained staff to deliver flawless products or services time after time.

## Why is ISO 9001 important?

With more than one million certificates issued to organizations in 189 countries, ISO 9001 is the most widely used quality management standard in the world. Within the ISO 9000 family, which defines seven quality management principles including a strong customer focus and continual improvement, ISO 9001 is the only standard that can be certified to (though certification is not mandatory).

Business benefits include:

- **Customer confidence:** The standard ensures that organizations have robust quality control processes in place, leading to increased customer trust and satisfaction.
- **Effective complaint resolution:** ISO 9001 offers guidelines for resolving customer complaints efficiently, contributing to timely and satisfactory problem-solving.
- **Process improvement:** The standard helps identify and eliminate inefficiencies, reduce waste, streamline operations, and promote informed decision-making, resulting in cost savings and better outcomes.
- **Ongoing optimization:** Regular audits and reviews encouraged by ISO 9001 enable organizations to continually refine their quality management systems, stay competitive, and achieve long-term success.



"Often people say the sky is the limit" at **Comaxel** we push the boundaries, we don't let anything slow us down or stop us from achieving our goal of making our customers dreams come true.

## What is ISO 14001?

ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance. By adhering to this standard, organizations can ensure they are taking proactive measures to minimize their environmental footprint, comply with relevant legal requirements, and achieve their environmental objectives. The framework encompasses various aspects, from resource usage and waste management to monitoring environmental performance and involving stakeholders in environmental commitments.

## Why is ISO 14001 important?

In an age of heightened environmental consciousness and increasing global challenges such as climate change, biodiversity loss, and resource depletion, organizations have a pivotal role to play. ISO 14001 offers a structured approach for businesses to address these pressing concerns. By adopting this standard, organizations signal a commitment not only to regulatory compliance but also to ongoing environmental improvement. This proactive approach to environmental management can result in tangible benefits, such as reduced waste, energy conservation, and cost savings.

Furthermore, it enhances an organization's reputation, fosters stakeholder trust, and often constitutes a critical step for engaging in global trade and supply chains. Simply put, ISO 14001 stands as a testament to an organization's dedication to a sustainable future, blending environmental responsibility with strategic business growth.

## What is ISO 45001?

ISO 45001 is an international standard that specifies requirements for an **occupational health and safety (OH&S) management system**. It provides a framework for organizations to manage risks and improve OH&S performance.

The standard establishes criteria for an OH&S policy, objectives, planning, implementation, operation, auditing and review. Key elements include leadership commitment, worker participation, hazard identification and risk assessment, legal and regulatory compliance, emergency planning, incident investigation and continual improvement.

ISO 45001 utilizes the Plan-Do-Check-Act methodology to systematically manage health and safety risks. It applies to organizations of all sizes and can be integrated with other ISO management system standards.

## Why is ISO 45001 important?

Implementing ISO 45001 provides significant value to organizations looking to reduce workplace incidents and demonstrate OH&S commitment. Benefits include:

- ISO 45001 provides an **internationally-recognized** framework for managing occupational health and safety risks. It enables organizations to **systematically assess hazards and implement risk control measures**, leading to reduced workplace injuries, illnesses and incidents.
- Adopting the standard shows employees and external stakeholders that the organization is committed to worker health, safety and wellbeing. This boosts reputation, morale and retention.
- The standard requires complying with OH&S regulations, ensuring legal conformity. It also promotes **proactive risk management**, potentially lowering insurance premiums.
- By requiring emergency preparedness and response protocols, ISO 45001 **strengthens organizational resilience** against safety threats and crises.
- The framework of plan, do, check act means the OH&S system can continually improve and evolve, **enhancing long-term worker health and safety performance**.

In summary, ISO 45001 enables organizations to **better protect their workers and manage OH&S risks**, making it an essential standard worldwide.



**Michael Rann**  
Co-Founder, CEO

One of the two owners of Comaxel Spółka z ograniczoną odpowiedzialnością. Holder of a Master of Science degree in Chemical Engineering. Michael has been working with composite structures and processes for more than 20 years and is head of all technical relations and project managements.

Bureau Veritas Certification



## COMAXEL Sp. z o.o.

ul. Ekonomiczna 14, Niedrzwica, 19-500 GOŁDAP

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

**ISO 9001:2015**  
**ISO 14001:2015**  
**ISO 45001:2018**

Scope of certification

### Design and production of products made of composite products.

|                                 |            |
|---------------------------------|------------|
| Original cycle start date:      | 15-01-2021 |
| Recertification Audit date:     | 10-01-2024 |
| Certification cycle start date: | 15-01-2024 |

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **14-01-2027**

Certificate No. **PL015807JU** Version: **1** Revision date: **15-01-2024**

  
Signed on behalf of BVCH SAS UK Branch  
Local Technical Manager

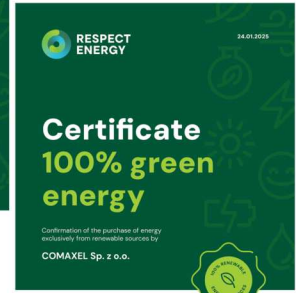
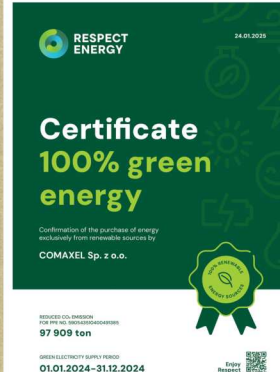


Certification body address: **5<sup>th</sup> Floor, 66 Prescott Street, London E1 6HG, United Kingdom**  
Local office: ul. Międzylowa 4, 02-795 Warszawa

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation. To check this certificate validity please call: +48 22 548 04 00

# 05. Leadership

Beyond our dedication to craftsmanship, we are deeply invested in fostering a culture of environmental stewardship and safety consciousness. With utmost reverence for our natural surroundings, we prioritize sustainable production practices and prioritize the safety and well-being of our workforce. One result is that we reduce our carbon footprint by thousands of tons per year, only using sustainable power based on wind, solar and water for our production. Comaxel takes pride in its adherence to industry-leading standards, holding certifications across the board, including ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018.



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**COMAXEL'S TRUSTED PARTNERS**