



**WELDING  
INNOVATION  
DESIGN  
PROCESSING**

# ZAVAR COMPANY

Founded in 1988 in Skopje, ZAVAR Company is a family-owned business that has become a leader in the Balkans region in the field of process equipment and welding expertise.

Known for its high standards and quality, ZAVAR is heavily export-oriented, with 90% of its products being shipped to the EU, USA, Switzerland, and the UK.

ZAVAR is an established producer of high-quality pressure vessels and processing tanks made from stainless steels and special metals, ensuring reliability and durability .

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## INTERNATIONAL CERTIFICATES

EN ISO 9001:2015- QUALITY acc TUV CERT, Rheinland (since 2005)

EN ISO 14001:2015 – ENVIRONMENT, by TUV CERT Rheinland (since 2006)

EN ISO 3834-2. – WELDING, by TUV CERT Rheinland (since 2009)

PED 2014/68/EU – pressure equipment producer by TUV CERT Rheinland (since 2012)

IWE/IWI personel in the company, NDT-VT, PT, ST, personel in the company

Planned implementation and certification of EN ISO OHSAS

Planned fullfiling and issuing of commitment according ISO 26000 (social responsibility CSR)

Planed implementation and certification ASME U stamp

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## WPQR CERTIFICATES OF WELDING PROCEDURES

TIG (141) alloy C22 Hastelloy – plates and pipes

TIG (141) alloy 825 Incoloy – plates and pipes

TIG (141) inox 316 SS –plates and pipes

TIG (141) AWP automatized ORBITAL –inox 316 SS – pipes

TIG / MIG (141 & 131) AWP automised CNC tank welding – inox 316 SS

TIG (141) CS – pipes and plates

MAG (135) CS – plates

MIG (131) inox SS – plates and pipes

TIG (141) CS & inox SS – plates and pipes

TIG (141) superduplex – pipes and plates

All issued by TUV RHEINLAND



# ZAVAR Sustainability pillars

ZAVAR's dedication to environmental, social, and economic sustainability aligns closely with the United Nations Sustainable Development Goals (SDGs). By integrating these principles into its operations and maintaining transparency, ZAVAR plays a vital role in advancing the global agenda for sustainable development. This commitment not only benefits the company but also creates a ripple effect, inspiring others in the industry to adopt similar practices and collectively work towards a more sustainable future.

## ENVIRONMENT

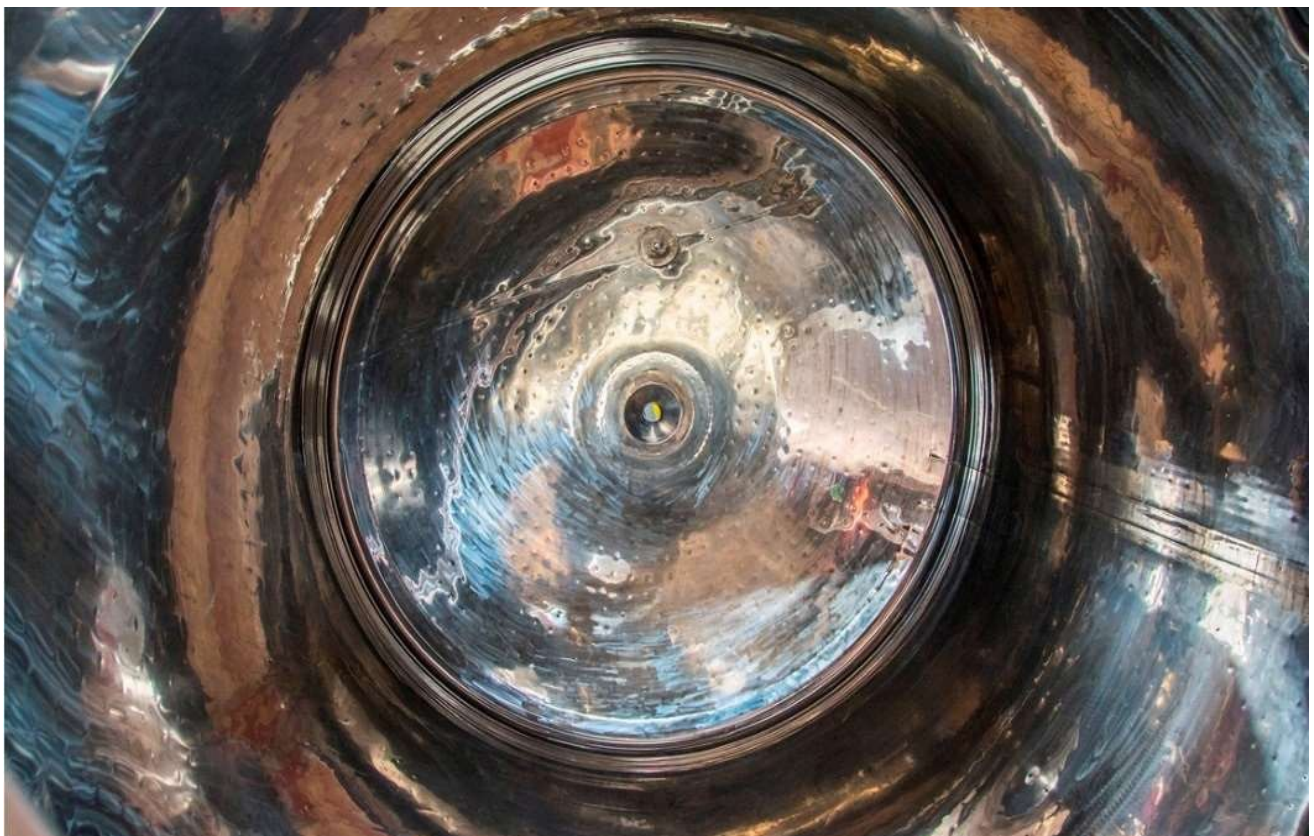
ZAVAR's commitment to sustainable business practices is commendable. By prioritizing responsible resource usage and investing in research and development, the company not only ensures its own longevity but also contributes positively to the environment. This approach benefits nature but also resonates with environmentally conscious consumers who value ethical business practices.

## PEOPLE

ZAVAR's approach to employee development and well-being is exemplary. By fostering a culture that values individual growth and prioritizes health and safety, the company creates a supportive environment where employees can thrive. Additionally, ZAVAR's commitment to supporting non-profit organizations and local communities showcases its dedication to social responsibility beyond its business operations. Such initiatives not only benefit the communities served but also contribute to the overall welfare of society, reinforcing ZAVAR's positive impact beyond its core activities.

## ETHICS

ZAVAR's commitment to upholding the dignity and rights of every individual as outlined in the International Bill of Human Rights and International Labor Organization conventions, sets a high standard for ethical conduct. By adhering to national and local regulations regarding workers' rights, the company ensures fair and just treatment of its employees. The decision to decline behavioral guidelines underscores ZAVAR's dedication to maintaining professional integrity in all aspects of its operations, further solidifying its reputation as a responsible and ethical organization.





Zavar's track record in producing industrial processing equipment across various market sectors and regions worldwide is a testament to their expertise and reliability. Their commitment to extensive consultation with customers throughout the design and manufacturing phases ensures that each project meets specific requirements and delivers optimal solutions.

Recognizing the cost and disruption associated with interruptions in manufacturing processes, Zavar adopts a strategic approach by constructing modules off-site. This not only minimizes interference with ongoing operations but also enhances quality control measures, ultimately offering a cost-effective and efficient solution.

Zavar's specialization in producing process modules and skid units for a wide range of equipment underscores their versatility and capability in catering to diverse industry needs. From vessels and reactors to heat-generating equipment, pumps, valves, and instrumentation, they offer a comprehensive suite of solutions tailored to specific applications.

Moreover, Zavar's in-house production of components such as dimple sheet exchange surfaces, flanged and dished heads, man-ways, and support structures ensures control over quality and customization, further enhancing the reliability and performance of their products.

Overall, Zavar's commitment to innovation, quality, and customer satisfaction positions them as a trusted partner in the processing industry, capable of delivering tailored solutions that meet the most demanding requirements while minimizing disruptions to existing operations.



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Zavar Company's expertise in designing, rating, and producing pressure vessels and other pressure-containing equipment is evident. Their experience encompasses a variety of materials, including stainless steel, exotic alloys, and duplex, ensuring flexibility to meet diverse client needs. Compliance with the European Union's Pressure Equipment Directive underscores their commitment to maintaining high standards in design and production.

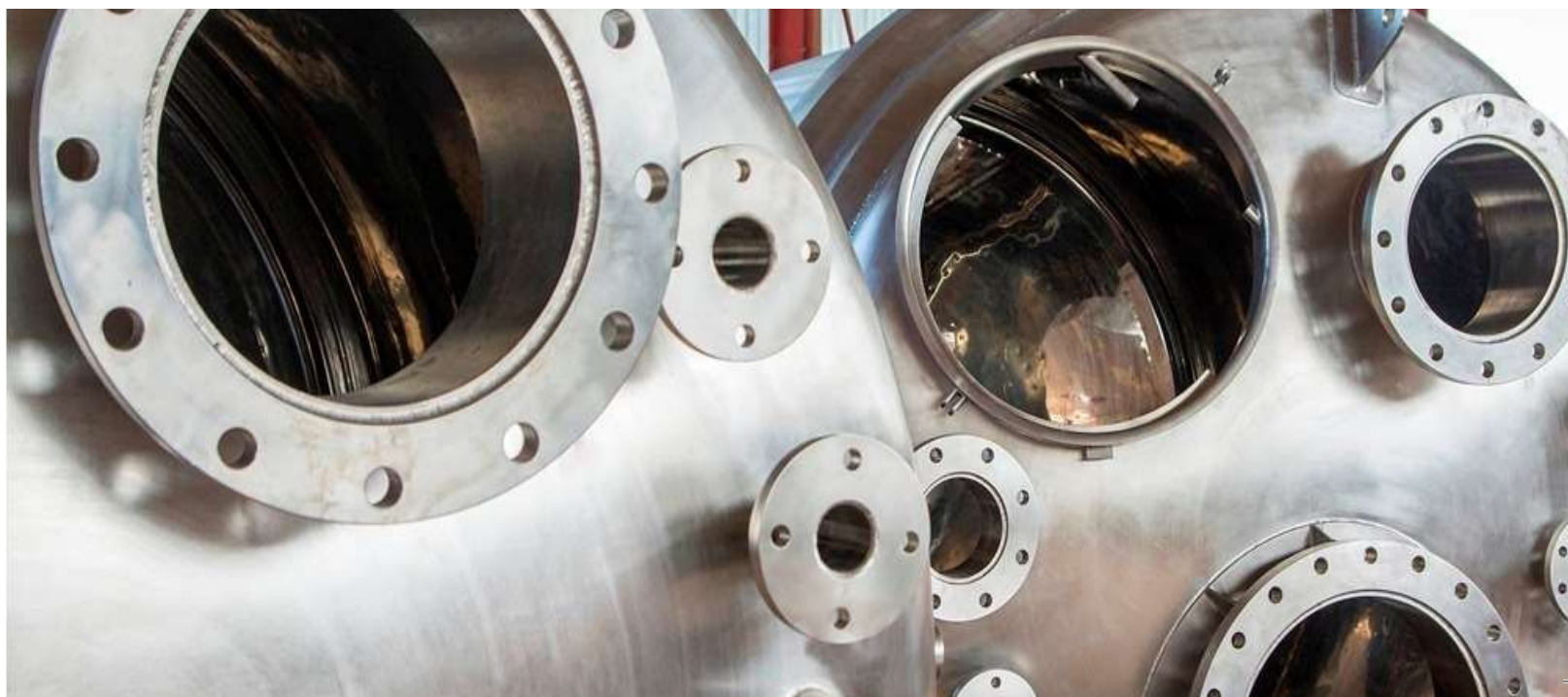
Welding plays a crucial role in constructing pressure-containing equipment, and Zavar prioritizes high-quality welding through rigorous training, testing, and certification of their welders. Meticulous supervision and quality control further ensure the integrity of each component produced.

In addition to their proficiency in welding, Zavar conducts detailed analyses and simulations across various engineering domains to optimize the performance of their modules. From process performance analysis to heat transfer system analysis, they employ a comprehensive approach to ensure the reliability and efficiency of their products.

We undertake detailed analyses and simulations from all aspects of the engineering spectrum in order to understand the performance of the modules we produce, of which most notably:

- Systems for process performance analysis
- FEA structural analysis
- Pressure systems analysis
- Process simulation
- Heat transfer system analysis
- CFD flow simulation
- Pipe stress analysis

Zavar's extensive experience in solids and liquid mixing, combined with their reputation as the premier process equipment manufacturer in the Balkans, speaks to their competence and success in serving both regional and international clients. Their dedication to technology, innovation, and sustainability further reinforces their position as a leader in the industry.





Zavar Company's commitment to innovation and customer satisfaction is evident in their approach to business. Their innovative solutions and strong company values have been central to their success over the past three decades, reflected in their everyday activities and high levels of customer satisfaction.

Zavar's performance is guided by the 5 E concept:

welding	<b>EXPERTISE</b>
technical	<b>EXPERIENCE</b>
production	<b>EFFICIENCY</b>
quality	<b>EXCELLENCE</b>
green	<b>ENVIRONMENT</b>

These principles drive their commitment to delivering high-quality products and services while minimizing environmental impact.



## EQUIPMENT

- **PRESSES**
  - Abcant press
  - CNCAbcant press
- **PLATE CUTTING MACHINES**
  - Plate cutting machines - Shares
  - NC plate cutting machines
- **MILLING MACHINES**
  - NCMilling machines
  - Milling machines
- **CIRCULAR FOR CUTTING OF BARS**
- **WELDING EQUIPMENT**
  - Welding mach. For MIG /MAG TIG(WIG)SMAW, GMAW
- **WELDING AUTOMAT WITH POSSITIONER- PORTAL CNC controlled TIG/MIG**
- **ORBITAL TIG welding**
- **TURNING LATHES**
- **MACHINES FOR BENDING TUBES AND PROFILES**
  - Bender
- **DRILL**
- **CNC PLASMA CUTTING MACHINES (with gas mixing units)**
- **RUND MACHINES FOR SHEETS (NC)**
  - Excenter PRESS
- **SHEET METAL MACHINE (ROUND CUTTING AND BENDING)**
  - Pincher
- **EQUIPMENT FOR TUBE PREPARATION**
  - For weld preparation former
  - For weld preparation cutter
- **EQUIPMENT FOR DIMENSIONAL AND SURFACE CONTROL**
  - Digital level devices
  - Digital micrometers
  - Digital laser distance and depth meters
  - Digital vernier caliper Gouges
  - Digital surface mesurment device with integrated printer
- **CNC VERTICAL MILLING CENTER**
- **3D LASER FOR CUTTING PIPESAND PROFILES**
- **LASER FOR CUTTING PLATES**







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#### **ADMINISTRATION AND SHOWROOM**

Blagoja Stefkovski 2A, 1000 Skopje, Republic of North Macedonia

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