



THE WELDING AUTOMATION COMPANY

PEMAMEK  
THE WELDING AUTOMATION COMPANY

Pema



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# CEO's message

At Pemamek, we are on a mission to enable the heavy industry to optimize its manufacturing processes. Our journey, which started with a vision to transform challenges into opportunities, has grown into helping manufacturers reach new heights of productivity.

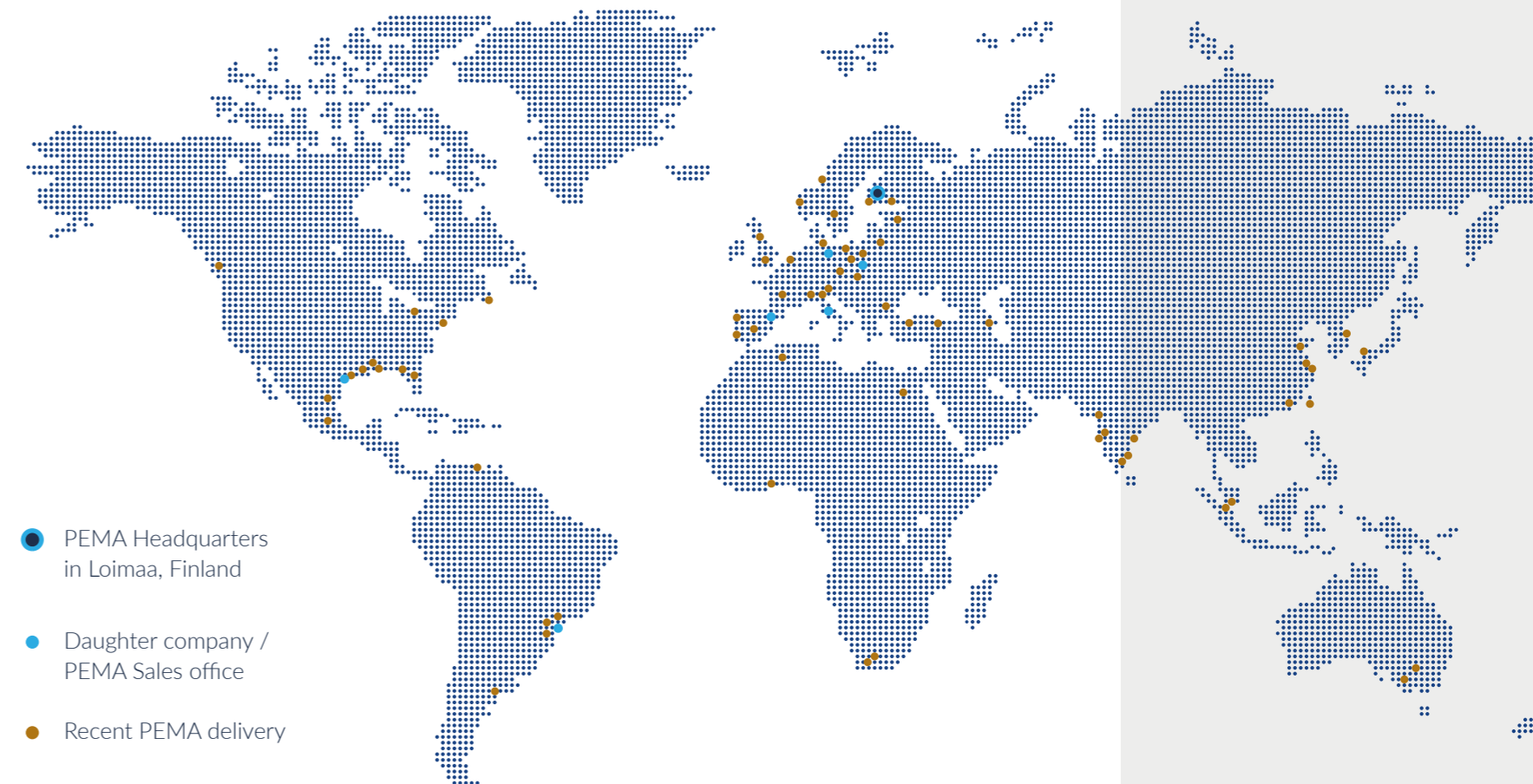
We take pride in engineering and manufacturing cutting-edge welding automation solutions for over 50 years. With every innovation we bring to life, today and in the future, we are driven by a commitment to enhancing efficiency and streamlining processes.

Through constant exploration of new technologies, expertise, and a passion for excellence, we have emerged as a global leader in welding automation. We are reshaping the landscape of heavy manufacturing, enabling businesses to step into a future where precision, efficiency, and quality go hand in hand.

As Pemamek continues to pave the way for modern manufacturing, we invite you to join us on this journey. Together, we unleash the true potential of the industry and create a future that is efficient, sustainable, and filled with endless possibilities.

Welcome to the future of manufacturing!

**Juha Mäkitalo**  
CEO, Pemamek



# World's leader in welding and production automation

We have always been mindful of what we say and promise. With over 50 years of experience in engineering and manufacturing welding and production automation for heavy industries, we can stand tall and affirm that we are the number one in the world in these fields.



OVER  
**15,000**  
welding automation and  
production solutions delivered

OVER  
**50** countries with  
PEMA solutions

OVER  
**50** years in  
the business

HISTORY

# Our journey so far

Pemamek's journey has always been about finding answers to challenges, engineering, and designing solutions that create measurable value and a competitive edge for our customers.

What started as a small welding positioner business over half a century ago has grown into a global welding automation success story.

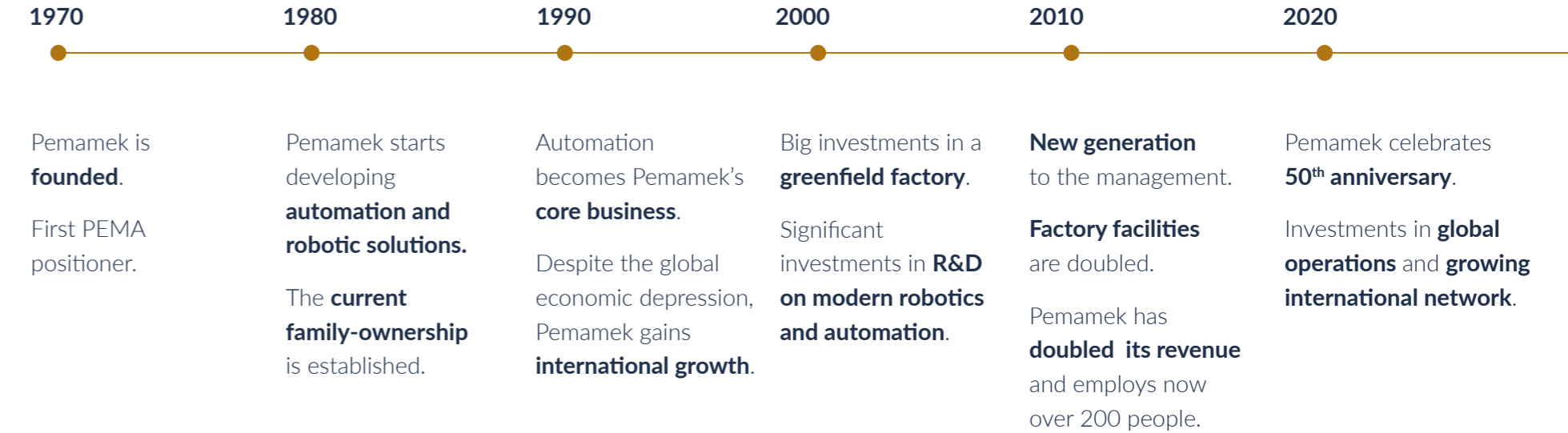
Despite the growth, we are strongly rooted in Pemamek's founding principles: listen, understand, innovate, and deliver as promised.



Watch Pemamek's 50th-anniversary video

Today, Pemamek is a family-owned business, just like in the beginning. We have great trust in our personnel and value long-term partnerships with our customers

## Welcome aboard!



# Pillars of success



## OUR PURPOSE

To enable heavy industry to optimize their way of manufacturing.

## OUR VISION

Continue as the global leader in welding automation by providing technology that transforms the heavy fabrication industry.

## THE PROMISE

Partnership with Pemamek comes with a promise. It builds on three facts:

- **Fast return on investment**
- **More productivity**
- **Future competitiveness**



ISO9001:2015  
Quality Management System



ISO14001:2015  
Environmental Management System



ISO45001:2018  
Occupational Health and Safety Management System



Dun & Bradstreet  
Lowest Credit Risk

## PEMAMEK VALUES



### Placing the customer first in everything we do

Our success is intertwined with the satisfaction and success of our customers. By consistently putting the customer first, we foster long-lasting partnerships built on trust, reliability, and mutual growth.



### Talented workforce fueled by the PEMA spirit

We are committed to creating an environment where our workforce's skills, creativity, and passion can thrive. Together, we push boundaries, innovate, and make a lasting impact in the industries we serve.



### Committed & reliable partner to customers and employees

As a partner to our customers, we are dedicated to understanding their unique requirements and challenges. Our commitment to employees is equally strong. We know that these relationships are the foundation of success.



### Sustained technological leadership in welding automation

We invest in cutting-edge technologies, research, and development to stay ahead of the curve. Our commitment to technological leadership enables us to deliver state-of-the-art solutions that empower our customers with a measurable competitive edge.



OUR PHILOSOPHY

# Mastering welding automation together

We strive to play in and lead the Champions League of welding automation. The goal of consistent success keeps us challenging and developing ourselves every day. Our business philosophy covers all key areas in the field.

**Staying focused**

Focusing and understanding your real-life needs and business targets sets the ground for a valuable long-term partnership. Delivering welding solutions for over 50 years gives us a firm backrest, but it is always your individual needs that everything starts with.

**Team of experts**

All PEMA solutions are designed and manufactured with decades-long expertise in heavy metal welding, manufacturing automation, and software development. Significant R&D investments keep us on the pulse and guarantee state-of-the-art yet reliable solutions for our customers.

**Winning combination**

The results make the winner. Pemamek's process from the initial validation to manufacturing, factory tests, installation, and even decades-long operating life cycle sets us apart. Our global customer references are the best proof of our ability to deliver promised results and added value to our customer's business.



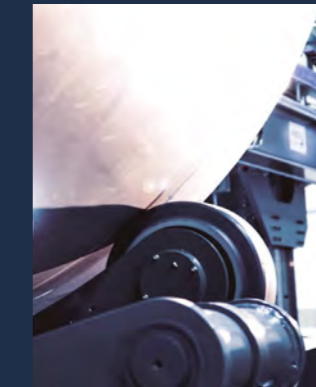
Pre-engineering studies



Concept development



Welding tests



Project execution



Production support



Life-cycle management

Unleash the potential of your manufacturing.

INDUSTRIES

# Growth and new opportunities for **6 industries**

Pemamek's deep knowledge of welding and production automation spans globally across six industries. We are dedicated to bringing the best value for each of them and we have an extensive track record to back our promises.

WIND ENERGY

SHIPBUILDING

GENERAL FABRICATION

HEAVY FABRICATION

POWER GENERATION

OFFSHORE & PROCESS INDUSTRY





# Wind energy

Leading expertise for onshore & offshore

**Increase the efficiency and productivity of tower and foundation manufacturing with PEMA solutions for onshore & offshore wind energy.**

As the industry leader, we provide state-of-the-art automated welding, milling and production solutions specifically for the wind energy sector.

Our offering is driven by safety, efficiency, and innovative technology. All lines are modular and designed to match your production capacity needs.

- Onshore towers
- Offshore towers
- Monopiles
- Transition pieces
- Jackets
- Floating foundations
- Nacelle structures



## Reach your productivity and quality targets with PEMA's complete welding and production automation solutions.



### Secure future competitiveness

We stand as a trusted partner for global onshore and offshore wind energy customers. Many of the industry-leading companies utilize our highly automated production solutions and expertise.

Our mission is to empower manufacturers to maximize production efficiency, achieve exceptional results and stay ahead in the rapidly evolving wind energy manufacturing.

### Onshore solutions

With long expertise in the field, we provide onshore manufacturers with comprehensive production solutions with a high level of automation.

PEMA machinery is equipped with easy-to-use PEMA software. Partnership with us is always secured with our experienced process support.

Optimize onshore wind tower manufacturing processes with Pemamek.

### Offshore solutions

Understanding the unique challenges faced by offshore wind energy manufacturers, we provide you with comprehensive production automation solutions with equipment, software, and support services.

Highly automated PEMA solutions ensure maximum productivity, safety, and reliability in offshore steel structure manufacturing.

Optimize offshore tower and foundation production with Pemamek.

# Shipbuilding

Leader with complete solutions



**Partnering with us means cooperation with the global leader in welding and production automation of modern shipbuilding.**

We at Pemamek have deep decades-long industry understanding and advanced turn-key solutions from single-piece production to comprehensive high-volume production facilities.

Gain and secure a competitive edge with PEMA's state-of-the-art shipbuilding automation solutions.

- Plate and profile fabrication
- T-beam production lines
- Subassembly lines
- Panel lines
- Flat block lines
- Open block & outfitting lines
- Transportation solutions
- Control softwares designed for actual users



Wide experience of the shipbuilding industry and right customized solutions for all needs of steel production.



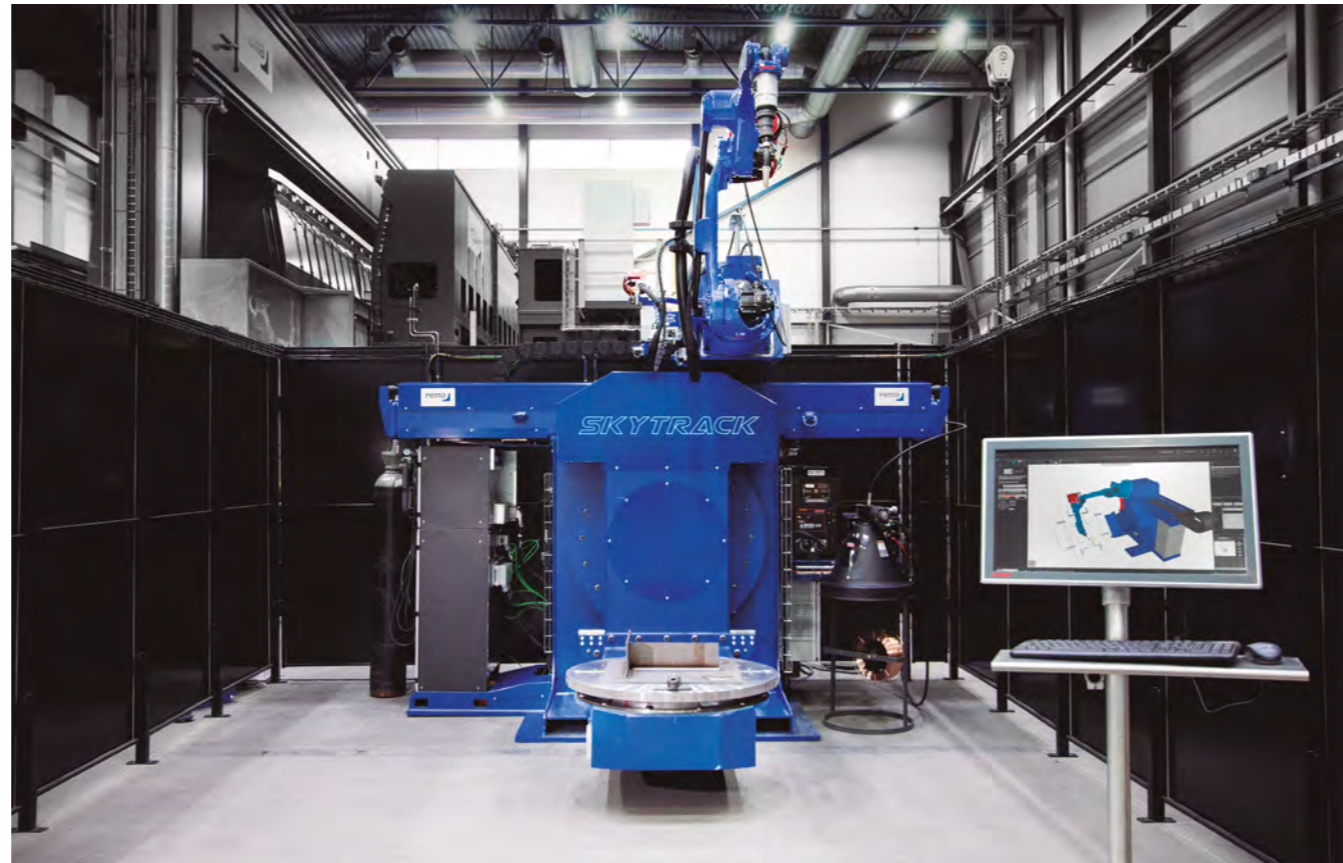
**Shipyard 4.0 thinking is part of all our solutions**

With Pemamek you will get more than just enhanced productivity. Our total solutions created together with our selected leading industry partners deliver.

- Better safety and reliability to the whole shipbuilding process
- Reduction of potential for human errors
- Increased consistency of the output

# General fabrication

Solutions for world-class manufacturers



## Reduce costs, boost capacity, and ensure safety and ergonomics with PEMA solutions in your manufacturing.

Stand-alone machines and complete integrated welding and production automation solutions for:

- One-off & small-series fabrication
- Heavy-duty material handling and welding
- Extra heavy workpieces

We offer versatile high-quality welding and handling solutions for growth-oriented workshops. Start with one equipment or invest in a complete production line. With all PEMA general fabrication solutions, you can rely on durability, reliability, and Pemamek's 50+ years of expertise in welding automation.

### PEMA Positioners

Cost-effective and flexible solutions to improve productivity even up to 70%. Programming functions via Wifi connection make operation super easy. Heavy-duty models are available for up to 250 tons and more.

### PEMA Roller beds

Ensure accuracy, safety, and good ergonomics while working even with extra heavy cylindrical workpieces like wind towers. Special models for piping are available. Optional anti-creep systems prevent longitudinal movement of the workpiece during rotation.

### PEMA Column & booms

Meet the standards of high-quality production with increased productivity with our robust modular column and booms. PEMA WeldControl operation systems can control not only

50% reduction in production time and up to 6 times faster welding.



the welding process but all integrated equipment like PEMA assembly station or roller beds.

### PEMA Assembly and welding station

One operator solution for manufacturing tubular and conical workpieces also with thin walls. Up to 6 times faster can assembly compared to the traditional on-floor method.

### PEMA Special solutions

A large variety of modular solutions according to your workshop needs.

INDUSTRIES

# Heavy equipment

Built to deliver

**PEMA robotic welding stations and production lines are designed for the manufacturing of large and heavy parts for use in the heavy equipment industry products.**

Whether you need a single robot cell or an entire production line, our heavy equipment solutions are designed, manufactured, and tested for your needs at factory in Loimaa, Finland with a more than 50 years history. Pemamek's industry-leading welding solutions for:

**Heavy lifting**

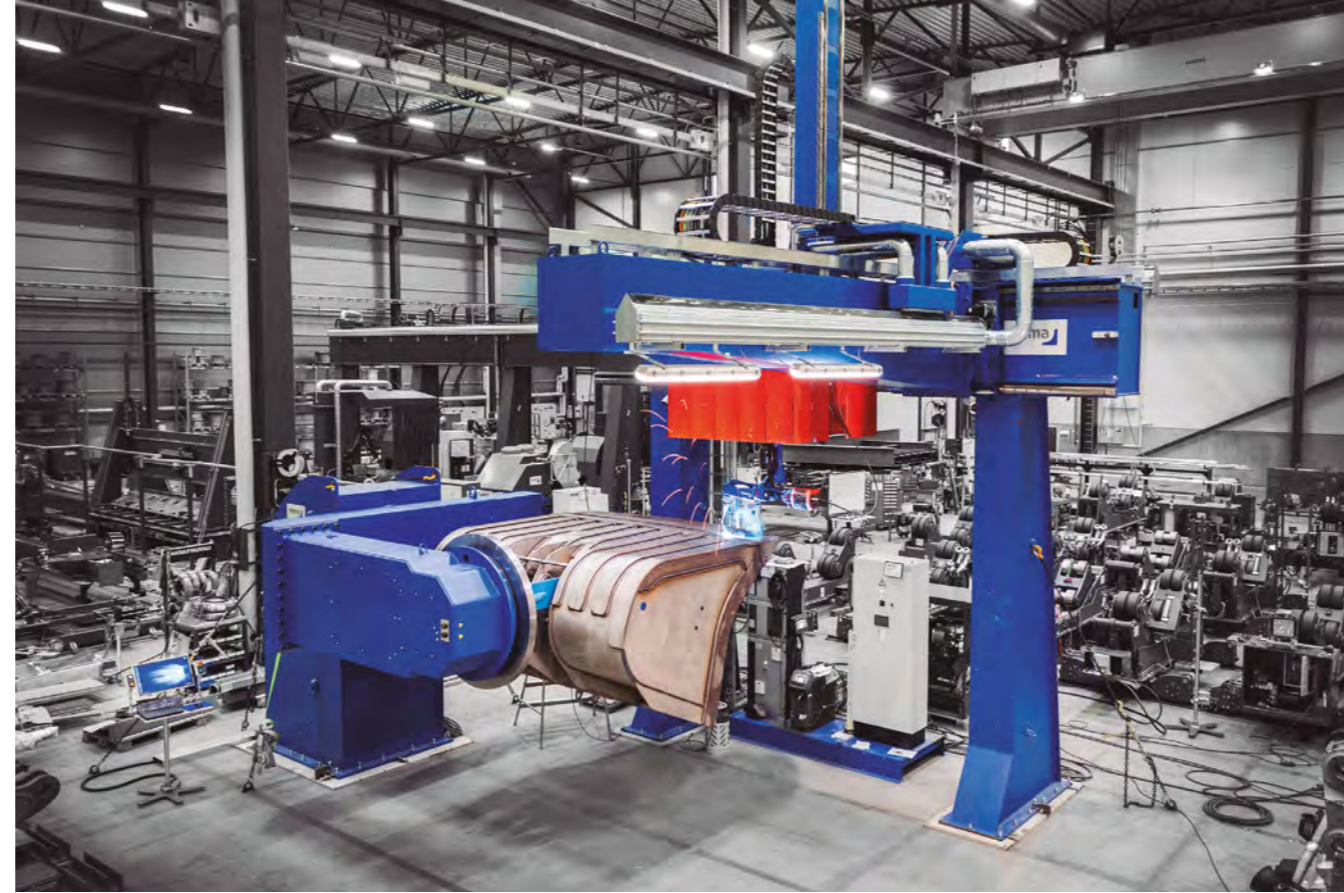
- Mobile cranes & industrial cranes
- Container handling & harbor cranes

**Transportation equipment**

- On-Road transportation
- Off-Road transportation

**Mobile machinery**

- Construction & Mining
- Agricultural & Forestry



Higher productivity, shorter throughput times, better quality, and less physical strain on welders. All with PEMA heavy equipment solutions.



**Pemamek is a turn-key system integrator of robots, material handling, welding technology & processes and software for full delivery. Responsibilities are clear during and after delivery, enabling a smooth project and fast ramp-up of production.**

- Typical weights of parts to be welded with PEMA robotic solutions are from 1 ton to more than 100 tons.
- One single welding robot typically performs the job of 3-5 welders.
- Typically programming time can be reduced with 60% – 90% by offline robot programming and making use of mirroring and macro functions.

Our modular product range and in-house developed software allows building the production system of numerous

components with a large variety of robot tracks and material handling solutions.

- Flexible manufacturing systems
- Complete deliveries including material handling and conveying systems
- Effective programming solutions such as PEMA Offline and SCAN – welders become the operator
- Profitable high mix & low volume production
- Training, modernization and optimization services

Pemamek delivers customized solutions incorporating decades of welding know-how of heavy steel fabrication - no work piece is too large, heavy, or complex for PEMA heavy equipment solutions!

# Power generation

Empowering the future

**Ensure the safety and quality of critical power generation components with PEMA's solutions. Working for decades in this highly advanced sector has earned us the reputation of a well-known and trusted manufacturer of automated welding solutions, especially robust and high-quality boiler membrane panel lines.**

Our wide range of turn-key solutions covers membrane panel welding lines, solutions for superheater and boiler tube manufacturing, and robotized applications for complex constructions.

As a forerunner of the industry, Pemamek has developed state-of-the-art welding automation solutions to match the quality demands of the hydrogen era. As a one-stop shop, our offering consists accurate milling machines for groove preparation and also the latest welding innovations.

We maintain long-term, supportive relationships with our satisfied clients, some of whom have used PEMA products for over thirty years.

50 years of experience in power generation products and boiler manufacturing lines.



**Our offering consists:**

- Boiler panel and coil manufacturing: superheaters, economizers
- Pressure vessel production: steam drums, feed water tanks, headers, fuel, and hydrogen tanks
- Process equipment manufacturing: fans, pumps, valves, burners, conveyors
- Flue gas cleaning equipment manufacturing: scrubbers, ESPs, Bag House Filters
- Ducting, expansion joint, and chimney manufacturing
- Heavy positioners for nuclear components
- Pipe spool prefabrication

Trusted partner of world-class companies like Andritz, BHEL, Caldema, and Valmet.



# Offshore & process industry

Trusted equipment and solutions

**Boost your productivity and meet the highest safety and quality standards with Pemamek's trusted offshore and process industry solutions. We provide you with solutions from single stations to turn-key production facilities.**

Securing a competitive edge also in the future of the offshore and process industry requires high-quality, automated welding and production solutions.

PEMA solutions handle safely and efficiently heavy steel structures and unconventional alloys. Our solutions are used globally by offshore, nuclear, and other demanding process industries.



PEMA solutions are specifically designed to meet the high-quality standards required in the offshore and process industry.

**Pemamek's wide product range includes workpiece handling, roller beds, milling, and automated welding systems, ensuring superior operational standards.**

#### **Pressure vessel manufacturing**

- Thin and stainless vessels
- Thick and extra heavy workpieces
- Robotic nozzle welding
- Longitudinal and circular milling
- Disc end welding with synchronized positioning

#### **Pipe spool manufacturing**

- Longitudinal and circumferential welding
- Tube-to-tube welding with automated GTAW welding machine
- Pipe join manufacturing

#### **Valve manufacturing**

- Internal & external welding of circumferential joints
- Robotic valve welding

#### **Offshore platform manufacturing**

- Plate joining
- Beam assembly and tack welding
- Robotic welding for beams and stiffeners
- Material handling solutions



Rethink  
manufacturing

Hardware and software from the same company just make life easier.

# Advanced software

Every PEMA Solution is operated with one or several PEMA Software. All our software are created by our experienced in-house team. It ensures the most reliable, advanced, and easy real-life use of PEMA machinery.

## Towards autonomous welding

PEMA Software provide solutions for high-level automation already today and are therefore a future-proof choice. As the welding automation continues, we at Pemamek are determined to stay at the front line of this development. The combination of PEMA Software and PEMA solutions is a highly competitive package, and offers unique adaptability when needed.

## PEMA Core

Pemamek's in-house developed software family is called PEMA Core. It has three areas: Connect, Design, and Control.

### Connect

Solutions for production line control, data management, data analytics, and factory system integrations.

### Design

Solutions for the design and creation of customer welding paths for workpieces.

### Control

Control system platforms for PEMA machine deliveries.

Here are the three most valued advantages of using PEMA Software by our customers.

- One supplier of both hardware and software makes life easier. Seamless connection and control of PEMA machines.
- PEMA Software are actively developed. Real-life needs and customer feedback is reacted swiftly.
- Single partner without dependence on third-party softwares. Pemamek's customer support is always ready to assist.



PEMACORE



## CONNECT

Solutions for production line control, data management, data analytics, and factory system integrations.

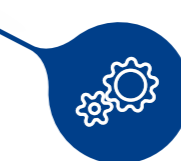
- Factory integrations
  - Open PDM
- LineManager
- FMS
- Product data handler (PDH)
- Reporting and analytics platform



## DESIGN

Solutions for the design and creation of customer welding paths for workpieces.

- WeldControl 200 & WeldControl 300
  - PathPlanner
  - Visio 3D
- WeldControl Scan
  - AutoScan
- HeatControl



## CONTROL

Control system platforms for PEMA machine deliveries.

- WeldControl 100 & WeldControl 500
- CellControl
- TaskControl
- SeamTracking
- CameraControl
- SmartPositioner



PEMA SERVICE

# Safe investment, maximum performance

Experienced and professional services go hand-in-hand with PEMA high-quality automation solutions. We accompany you with investment and manufacturing strategy to life-cycle management after the delivery.

PEMA extensive service model ensures that you can make a safe investment decision and have a high-performing production keeping up your competitiveness long after the initial delivery. With PEMA Service you will ensure:

**Production uptime**

Maximize output in your production.

**Global support**

Efficient communication with our experts when and wherever.

**Partnership**

PEMA Service is your one point of contact and will support throughout the lifecycle of your investment.



## MAINTENANCE AGREEMENTS

Professional maintenance coverage is critical for smooth and efficient production. At Pemamek, we have comprehensive maintenance agreements to streamline your planning and management tasks. Knowing that a dedicated team is expertly handling all your maintenance needs, maximizing production uptime and output, creates measurable value and peace of mind.

We take pride in building genuine relationships, treating your business goals as our own. Our service engineers, lauded for their customer-oriented approach and hard work, will engage with you closely to fully understand, and meet your unique maintenance needs.

Comprehensive PEMA services delivered globally



**Maintenance agreements**

Maintenance agreements  
Operation agreements



**Spare part services**

Spare part operations  
Spare part supply agreements



**Smart services**

Robotics & PLC helpdesk services  
Technical support  
Remote support & diagnostic  
Software support



**Expertise services**

Training  
Production support  
Welding consultation  
Robotics consultation



**Field services**

On-call maintenance  
Modernization

PEOPLE

# Globally growing community

People at Pemamek form a global community of diverse individuals, each bringing unique skills, experiences, and perspectives to the table.

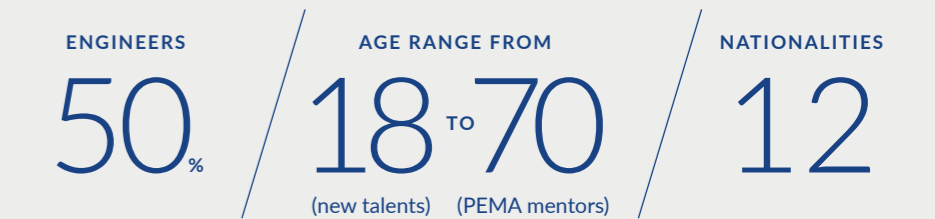
We have engineers designing the world's leading welding automation solutions, skilled production professionals, trusted salespeople, service representatives ensuring customer satisfaction, and management guiding Pemamek toward our vision.

Each member of our family embodies the core values of Pemamek. We all are committed to delivering not just solutions, but excellence, always going the extra mile to exceed your expectations.



OWNERS  
**The Heikonen family**

It is our dedicated professionals breathing life into the Pemamek promise, each day, every day.



We foster a culture of learning, collaboration, and respect, providing an environment where our people can thrive and excel. Ultimately delivering the best outcomes for you.

Pemamek's family extends beyond our company walls. Each customer is a valued member of our global community. We strive to understand unique needs and build long-term relationships. Through open and honest communication, we foster collaboration and mutual growth.

# Making a difference through action

Our commitment to environmental sustainability and responsibility reflects in our people, processes, and products. We take concrete action to minimize waste, optimize energy consumption and resource use and, continuously improve our environmental performance and personnel well-being in daily business.

## Pemamek has chosen the Advantage level as its initial sustainability target level.

Attaining the Advantage level gives us a strategic competitive edge. It also fulfills the vision defined in our sustainability strategy work: Pemamek is a responsible and reliable family-owned company in welding automation.



Setting sustainability trends in the industry.  
Opening new markets.

### Creating strategic competitiveness Standing out from competitors.

Obeing laws and norms.  
Meeting ethical requirements & demands.



### Enabling technologies

We are actively taking part in the global green energy transition. Our robotic welding and production automation solutions are widely used in the wind energy industry increasing production efficiency. The same positive impact of efficiency and end-product durability applies to all our customer industries.

### Well-being people

In all Pemamek workplaces, we promote social equity, fostering a diverse and inclusive environment where everyone is treated with respect. We expect the same from all our customers and other interest groups globally.

### Supporting the community

Beyond our organization, we recognize the responsibility toward the larger community. We are a strong local supporter, especially for children's and youth sports activities in the Loimaa region. Another important part of our community responsibility is collaborating with educational institutions and universities.

### In balance with the nature

Our commitment to more sustainably balanced operations divides into the circular economy and energy saving. The continuously measured factors include, for example, the use of renewable energy and side streams together with energy efficiency and the carbon footprint across our entire value chain.

## Pemamek HQ

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Factory, global PEMA Sales,  
PEMA Service, R&D

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Service: [service@pemamek.com](mailto:service@pemamek.com)

## Worldwide sales support network

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