

The logo features a stylized icon of three interconnected nodes on the left, followed by the word "MAX" in a bold, sans-serif font. Below this, the word "Gaia" is written in a similar font, with a circular icon containing horizontal lines to its right.

**MAX**  
**Gaia**

# DATA ALGORITHMS DECISIONS

IoT is transforming the industry

GEFRAN introduces to the market two solutions based on IoT and generative artificial intelligence to support machine builders in optimizing processes, reducing costs, and improving sustainability.

**MAX** and **GAIA** transform field-collected data and corporate know-how into actionable insights, enabling timely, accurate, and effective decision-making.

 **MAX**

**Gaia** 

# PRACTICAL SOLUTIONS TO REAL PROBLEMS.

## "IT'S HARD TO MAKE DECISIONS"

Decision-makers often lack easy access to insights, which are often limited to data scientists.

MAX and GAIA solutions provide immediate, accessible insights to decision makers.

## "SYSTEMS DO NOT COMMUNICATE WITH EACH OTHER"

OT and IT systems are separate, preventing a unified overview and quick access to information.

MAX and GAIA break down information silos, creating an integrated and fluid digital ecosystem.

## "THE DATA COLLECTED IS NOT USEFUL"

The data is fragmented, decontextualized and difficult to use effectively.

MAX and GAIA turn fragmented data into contextualized information useful for quick decisions.



## Machine Analytics eXpert

MAX is an IoT platform that collects and analyses data from your machines in real time, transforming every piece of data into an opportunity for improvement.. Connecting your machines allows you to monitor and optimize performance, preventing failures and reducing downtime.



## GEFRAN Artificial Intelligence Assistant

GAIA is a virtual assistant that leverages generative AI to provide immediate, precise support, guiding everyday decisions. Integrated with MAX, GAIA provides a smart system capable of answering technical questions, provides reports and suggests actions to improve performance.



# Prevention is better than repair

MAX doesn't just monitor machines; it leverages predictive analytics to identify anomalies before failures occur. This technology can reduce machine downtime by up to 30%, avoiding costly emergency interventions and optimizing maintenance. Predictive maintenance makes every intervention more targeted and efficient, improving the longevity of systems.



# Customization and scalability

MAX is a modular platform that grows with your business. You can choose the modules that best suit your needs, without unnecessary overhead.

The scalability of MAX means you can enable new features as your system evolves, thus optimizing your investment over time.

As every company is unique, with MAX you can configure the ideal solution for your business.



# Data-driven decisions

MAX enables truly data-driven decision-making. MAX collects and analyses data from your machines to provide you with clear, detailed reports that help you make informed decisions.

With real-time analysis and data historicisation, it is possible to monitor every aspect of production and make comparisons between periods or between different lines, thus optimizing processes and continuously improving performance.

# Optimization and sustainability

Boost performance while minimizing environmental impact. MAX is not only a tool to improve production performance, but also to optimize the use of resources. By monitoring the consumption of energy, water and other resources, MAX enables companies to reduce waste and improve efficiency, thereby contributing to corporate sustainability.

MAX Basic Modules form the fundamental infrastructure of Gefran's digital IOT platform and provide all the essential features to ensure secure connection, collection and processing of industrial data.

## Key features:

- Universal connectivity
- Real-time data collection
- Data storage and normalization
- Responsive user interface
- User and role management
- Industrial safety by design

## Advantages:

- Modular and scalable platform
- Ready for cloud or on-premise integration
- Drastic reduction in implementation times
- Standardization of data from heterogeneous machines

## Modules included:

✓ Homepage

✓ Production statistics

✓ KPI analysis

✓ Calendar

✓ Line supervision

✓ Consumption analysis

✓ Black box

✓ Smart notifications

MAX can be integrated by choosing from 12 additional modules:

## MAINTENANCE module

Digitizes and optimizes maintenance management, transforming reactive interventions into planned, predictive activities.

## SPC ANALYSIS module

Applies statistical control to production data to identify deviations, trends, and variations in production processes.

## OPERATOR KNOWLEDGE module

Allows you to create, consult and update training content, video tutorials and operating procedures.

## HEALTH MONITORING module

Provides a complete overview of the health status of machines in production

## AUTOMAXIC PDF REPORT module

Generates automated, comprehensive, customizable reports in PDF format, based on data collected by the MAX platform.

## FORMAT CHANGE ANALYSIS module

Analyses performance during machine changeover phases, identifying inefficiencies, delays and best practices.

## STREAMING VIDEO module

Integrates real-time video streams within the MAX platform, providing continuous visual supervision of production processes.

## SUSTAINABILITY module

Monitors the consumption of energy, water and other resources in real time, with detailed analyses of the environmental impact of production.

## QUALITY VISION SYSTEM INTEGRATION module

Enables the integration of machine vision systems with the MAX platform, centralizing automatic visual inspection data

## DOCUMENTATION module

Centralizes and digitizes all technical, operational and regulatory documentation of machines and processes.

## JOB EXECUTOR module

Digitally manages and guides the execution of operational activities in production.



# AI fluent in the language of machines

Through artificial intelligence, the virtual assistant GAIA learns directly from corporate documentation and from data collected by MAX. It is not a generic assistant like ChatGPT, but a system that relies solely on company-specific data to provide precise, secure answers.

Available 24/7 in over 50 languages, GAIA offers optimal support for quick, informed decisions, reducing service times and improving operational efficiency.



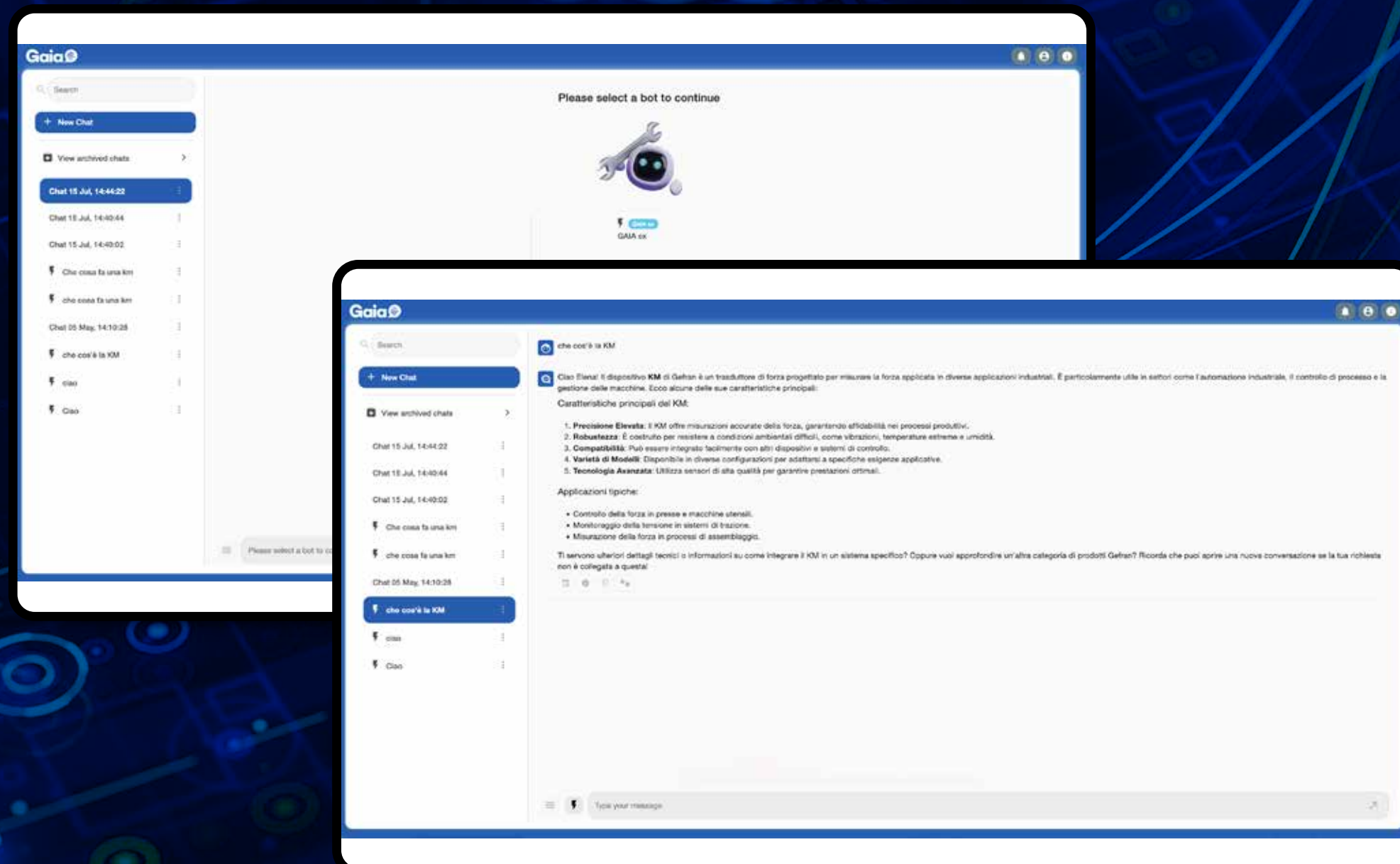
# Support you can count on, anytime

GAIA provides ongoing, real-time assistance, answering technical questions and guiding the operator through maintenance procedures. Powered by intelligent algorithms, it recommends real-time corrective actions based on data analysis, while simplifying the onboarding process for new operators.

With GAIA, every operator has an assistant always to hand, ready to solve any problem on the spot.



# GEFRAN Artificial Intelligence Assistant



## Integration

The chat can be built into any application: websites, mobile apps, third-party software (e.g. CRM), custom applications, online HMI.

## Document management

Files can be uploaded in various formats, providing visual content and offering detailed answers within specific conversations

## Speed and autonomy

GAIA learns quickly and autonomously, uploading documents in the original language and conversing in more than 50 languages.

## Multi-bot

Each bot can be created, customized and managed from a single dashboard. Select the one that best suits a specific type of use (e.g. maintenance, customer service, procurement department, etc.).

# Compliance and safety

**Maximum protection for your data and your company.**

With MAX and GAIA, data security is guaranteed. The solutions comply with international regulations such as the GDPR, ensuring advanced protection of corporate information.

The cloud architecture is secure and ISO 27001-certified. Moreover, by using secure VPN connections, end-to-end protection of production data is guaranteed. Finally, the architecture of MAX and GAIA ensures data remains entirely under the customer's control, through the use of dedicated cloud instances.



GEFRAN:  
the ideal partner  
for all business  
functions

MAX and GAIA are designed to support all company roles involved in production management:

- **Production managers:** Process optimization and real-time monitoring.
- **Plant managers:** Improved efficiency and reduced downtime.
- **Maintenance technicians:** Predictive maintenance and ongoing support.
- **Technical and Quality Departments:** KPI monitoring and performance improvement.
- **Company management:** Informed decisions based on hard data and detailed reports.

# Start the transformation with MAX and GAIA

Implementing MAX and GAIA couldn't be easier. Contact us for a personalized demo and start boosting your company's efficiency with GEFRAN's advanced digital solutions.

Our team is ready to guide you through integration and to support you at every step, ensuring a fast, seamless adoption experience.