



**Glorinda Comprehensive Analyzer Package Systems**

**Solution for Process Optimization**

# Section 1

## About Glorinda

## What We do?

### We develop & create the future of business

Glorinda is a multi-service company that provides comprehensive services for expanding businesses around the world. In our services, we try to remove different business obstacles to help businesses to reach their potential. We provide the following services:

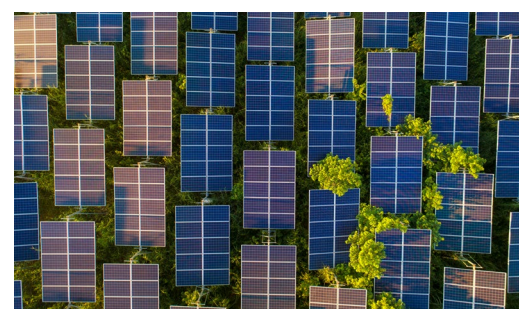
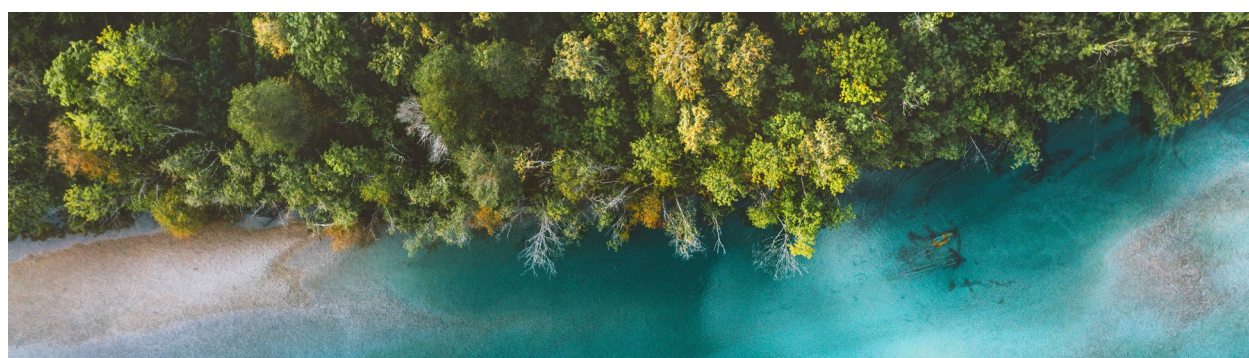
- Engineering and Licensing
- Commissioning and Industrial Services (maintenance)
- Fabrication and OEM Cooperation
- Finance and Acceleration of Startups
- Trading and Procurement Services



# Field of Activities

By bringing together specialists in different fields, Glorinda is able to provide services to a variety of sectors. Our activities are centered in the following industries:

- Energy:** Renewable sources (e.g. solar power, wind power, hydropower, waste to energy) as well as non-renewable sources (e.g. oil and gas, petrochemicals, LNG, etc).
- Environment:** wastewater treatment, water treatment and desalination, biogas production, waste management, and air decontamination systems.
- Steel & Minerals:** equipment and raw materials for steel, copper, aluminum, cement and other minerals.
- Petrochemicals and Chemicals:** process packages, raw materials, catalysts, and utilities.



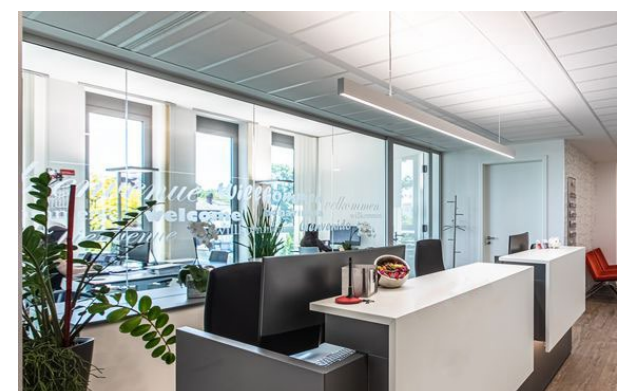
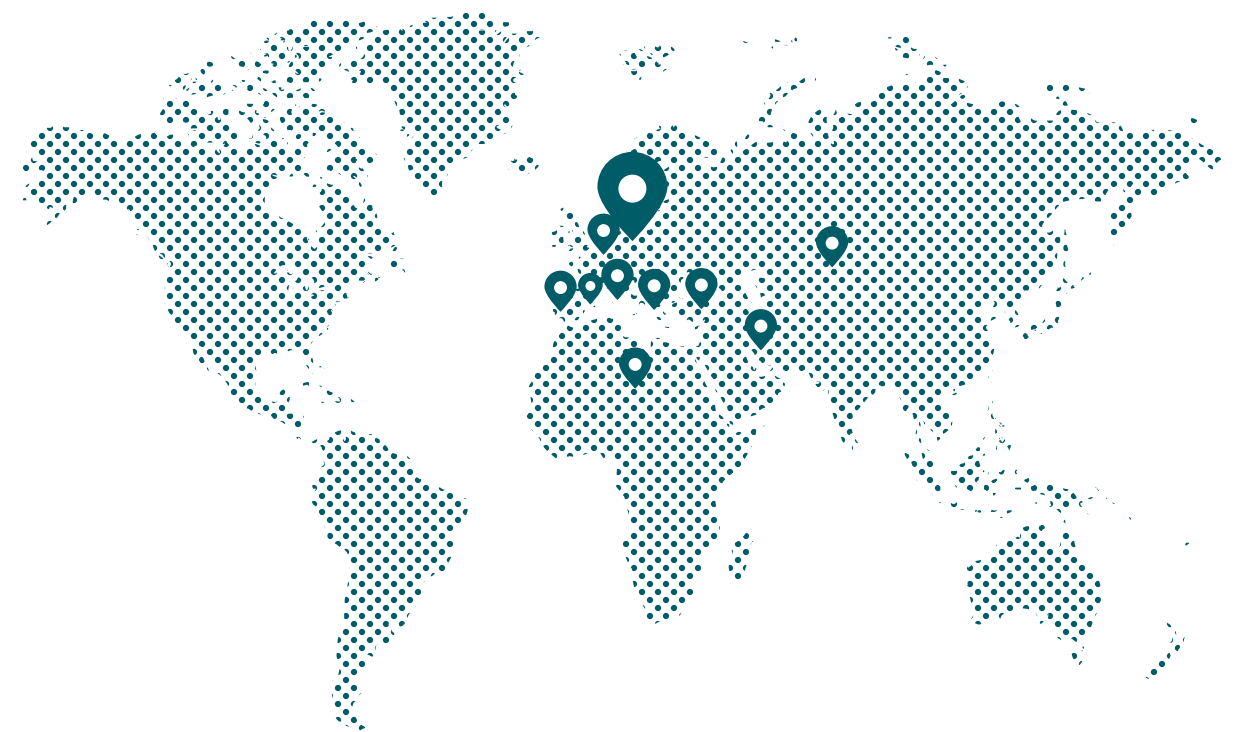


# Our Locations

Glorinda's corporate headquarters and manufacturing facility are strategically situated in the city of Wiesbaden, Germany. Furthermore, we have established a dedicated sales office in the Netherlands to better serve our valued clientele from Northern Europe.



Glorinda has successfully built a comprehensive global business network, allowing for a diversified presence and the provision of prompt, top-notch services tailored to local requirements. In addition to our prominent headquarters in Germany and our sales office in the Netherlands, we have established branches in a range of countries, including Portugal, Italy, Spain, Greece, Turkey, the Middle East, Africa, and CIS. This expanding network exemplifies our commitment to broadening our reach and enhancing our international operations.



## Section 2

### Advanced Analytical System Integration: Services and Capabilities

## Expert Integrator of Specialized Analytical Systems

Glorinda specializes in seamless integration of highly specialized and customized systems, including cutting-edge solutions like analyzer packaging, process on-line analyzers, CEMS, and HRSG for power plants and water treatment facilities, and similar applications.

Our extensive experience and expertise in procuring and integrating components of analytical systems enable us to uniquely address the demands of diverse industries, such as Oil and Gas Refineries, Petrochemicals, and up-stream projects. Our team comprises dedicated professionals, from design & technical engineers to analyzer service experts, we also have QA/QC specialists.

Our integrated systems showcase rich experience, resulting in renowned analytical instruments that meet the needs of process industries dealing with hazardous chemicals and gases. We lead in designing and engineering integrated analyzer systems, focusing on research and innovation.

For comprehensive support, Glorinda covers analyzer theory, design/engineering, field service, training, and maintenance.

To ensure our customers stay up-to-date and well-equipped, we offer annual training sessions held twice a year. These training opportunities are open to all our valued customers, providing valuable education and insights. Rest assured, our technical engineers and service professionals are always available to provide direct support, ensuring a seamless and efficient experience with Glorinda.







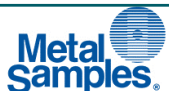



# Comprehensive Analyzer Solutions

In the realm of analyzer systems, Glorinda offers a wide range of services to meet your needs. Some of our services are as follows:

## Procurement:

1. Analyzer Package systems
2. Fire & Gas (F&G) systems
3. Corrosion Monitoring Systems

Through meticulous procurement and integration, we source top-notch tailor-made systems from leading manufacturers across the globe. The following are just a glimpse of the renowned brands we collaborate with:

Product	Manufacturer	Logo	Origin Country
Analyzer Systems	ABB		
	TELEDYNE		
	PAC		
Corrosion Monitoring System	Metal Samples		
Gas & Flame Detector	TELEDYNE		

## Engineering and Design:

1. Analyzer System Design, Fabrication, Integration, and Integrated Staging.
2. Basic & Detail Engineering for Analyzer Package Systems.
3. Technical Consulting for Analyzer Package Systems.
4. Analyzer assembly, Factory Acceptance Testing (FAT), Site Acceptance Testing (SAT).

## After-sales Services:

1. Commissioning & Start-up Service for Analyzer Package Systems.
2. Training Services (Maintenance/Operation) for Analyzer Package Systems.
3. Maintenance service for Analyzer Package Systems.





# Our Infrastructure and Manufacturing Capacity



## 1. Yearly Analyzer Package System Assembly:

On a yearly basis, Glorinda has the capacity to assemble approximately 100 analyzer package systems. The dimensions of each shelter are approximately 5mW \* 3mD \* 2.7mH.

## 2. Factory Facilities:

- Fabrication Shop: Spanning an area of 31mW \* 32.5mD (1007.5 sq.m), equipped for efficient fabrication.
- Inspection Shop: Occupying a space of 15mW \* 32.5mD (487.5 sq.m), dedicated to meticulous inspections.
- Conference Room
- Warehouse:
- Office
- Complete Tool Sets: Availability of comprehensive tool sets to support the assembly process.

## 3. Assembly & Storage Capability:

- Simultaneous Assembly/Storage: Glorinda has the capability to simultaneously assemble and store up to 25 shelters.
- Shelter Size: Each shelter has dimensions of approximately 5mW \* 3mD \* 2.7mH.

## 4. Dedicated Personnel:

Glorinda boasts a dedicated team of 30 personnel who are highly skilled and committed to ensuring successful operations in this domain.

**With our robust infrastructure and skilled workforce, Glorinda is well-equipped to meet your analyzer package system assembly needs efficiently and effectively.**

# Section 3

## Our Products



## Products

### 1. Analyzer Package System

Glorinda specializes in offering comprehensive Analyzer Package Systems, integrating various analyzers and measuring instruments into a unified package. This advanced system is designed to monitor real-time physical and chemical properties of process line samples, facilitating process optimization and quality management across diverse industries, such as oil and gas, petrochemicals mining, and power generation.

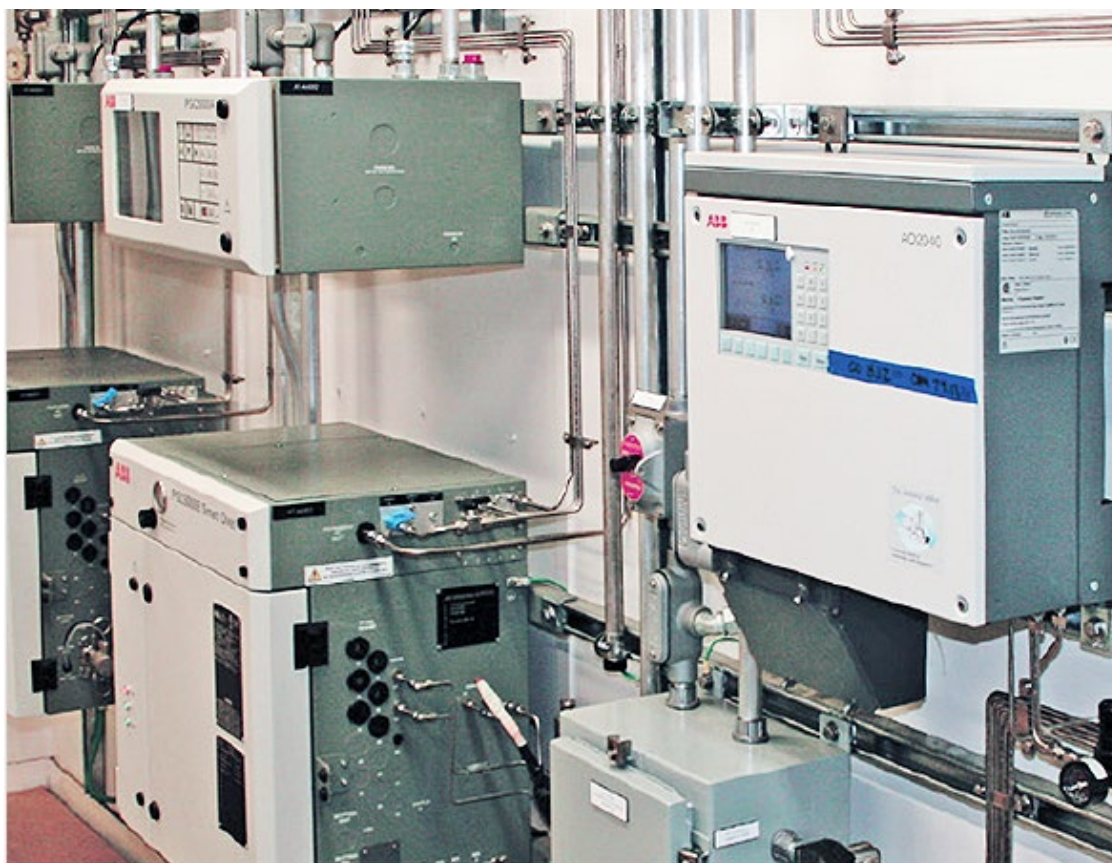
**Analyzer Package System includes analyzer shelter, cabinet, and rack that are designed to accommodate various types of analyzers such as:**

- Gas Chromatographs
- IR Analyzer
- NIR Analyzer
- Total Sulfur Analyzer
- Analyzers for Physical Properties
- CEMS Analyzer
- O<sub>2</sub> Analyzer
- Oil in Water Analyzer
- Moisture Analyzer
- TOC Analyzer



## Key Characteristics of Our Advanced Analyzer Package System:

- Compliance with stringent governmental regulations, ensuring adherence to industrial standards.
- Emphasis on safety, safeguarding personnel and equipment through the utilization of automatic shutdown systems.
- Economical advantages, offering improved process control for enhanced operational efficiency.
- Precise interpretation of process quality control and functionality, providing valuable insights for optimal performance.



## Analyzer Package features

### Sample Conditioning System

To ensure the safe operation of the equipment and align the sample's pressure, temperature, and fluid condition with the required sample conditions for analysis, the Sample Conditioning System is installed at the sample shelter, in line with the analyzer, and safety systems.

### Enclosure

A structure designed to protect the analyzer from hazards and meet installation requirements.

### Hazardous Conditions

Comprising electrical and non-electrical fixtures designed to prevent and withstand explosions, ensuring safety during operations.

### Others

Analyzer Management System  
Gas Cylinders and Cylinder Accessories

### Manual Sampling System

Our Sampling System is designed to provide the highest level of performance and accuracy, ensuring that your samples are prepared and analyzed to the highest standard.

### Corrosion Monitoring System

Corrosion measurement is the quantitative method by which the effectiveness of corrosion control and prevention techniques can be evaluated and provides the feedback to enable corrosion control and prevention methods to be optimized.

## 2. CEMS/AQMS

Glorinda has developed a comprehensive and reliable solution for Continuous Emission Monitoring Systems (CEMS) and Air Quality Monitoring Systems (AQMS) to ensure a healthy environment for all living creatures. The system utilizes state-of-the-art technology from trusted vendors, offering real-time monitoring and measurement of emissions and air quality. With a wide range of monitoring equipment, including analyzers, sampling systems, and sensors, it can detect various pollutants and gases. Moreover, the solution features a powerful data analysis and reporting system, enabling easy interpretation of collected data. This capability empowers organizations to identify areas for improvement and take necessary actions promptly to reduce emissions and enhance air quality. Glorinda's solution is suitable for businesses of all sizes and industries seeking to pro-actively protect the environment.

## 3. Liquid Analyzer System

We provide Liquid Analyzer System that is designed to provide accurate and reliable measurements of key parameters such as pH, ORP, Conductivity, TOC, Chlorine, Ammonia, and Dissolved oxygen.

Liquid analysis is essential for protecting vital capital assets such as boilers and cooling towers by preventing corrosion, minimizing maintenance, and maximizing uptime. Our system allows you to continuously monitor the chemistry of your process liquid and make adjustments as needed to maintain optimal performance. The system is highly customizable and can be tailored to meet the specific needs of your application. It can be used in a wide range of industries such as power generation, water treatment, and chemical processing.

## 4. Sampling System

We provide a Sampling System which is designed to provide the highest level of performance and accuracy, ensuring that your samples are prepared and analyzed to the highest standard; Whether you need to meet strict regulatory requirements or need to handle complex samples, our sample handling system can be customized to meet your specific needs and deliver the results you demand.

**In addition, the system can be integrated with a variety of online analyzers, including:**

- **mass spectrometers**
- **gas chromatographs**
- **miscellaneous analytical instruments**

This feature allows seamless sampling preparation and analysis, that results in high-quality data and accurate results.

## 5. Corrosion Monitoring System

When it comes to corrosion measurements, control, and prevention, various technical activities must be used to manage the different corrosion causes and effects on materials and structures.

The activities that are used to analyze corrosion can be applied differently depending on the corrosion causes and the types of materials or structures involved.

**Within the sphere of corrosion control and prevention, there are technical options such as:**

- **cathodic & anodic protection**
- **materials selection**
- **chemical dosing**
- **application of internal & external coatings**



