

ASSET MANAGEMENT

Lifecycle management
Native platform synchronization
Maximum asset return

EMSYS optimizes asset management through full control of inventory, maintenance and costs, automating processes from planning and resource allocation to real-time performance reporting.

Competitive Advantages

	Lifecycle Management and Sustainability	Advanced support for improving performance and maintaining assets in functional condition for as long as possible. Helps minimize total costs for design, acquisition, operation, maintenance and disposal.
	Flexible Asset Definition and Registration	Allows assets to be defined in three ways: automatic import of fixed assets from accounting, integration of serialized inventory items in use, or addition of unregistered goods (leased equipment/complex components).
	Geographical Location and Tree Hierarchy	Dynamic location definition as a tree structure for precise geographical positioning. Enables automatic asset association to terminal nodes and assignment of dedicated owners.
	Functional Structuring by Technological Systems	Logical organization of assets by processes, subprocesses and technological components. This common structure fully supports process industries such as utilities, energy, oil and gas.
	Financial Traceability and Cost Objects	Detailed monitoring of accounting indicators: current value, depreciated value, acquisition cost, depreciation regime and automatic allocation of maintenance costs to specific cost objects.
	Reliability Monitoring and Criticality Index	Automatic calculation of age, remaining useful life and utilization level. The system evaluates failure probability and cost, generating a criticality index to prioritize interventions.
	Documents, Warranties and Insurance	Full management of insurance policies, authorizations, pledges and warranties, with intelligent traffic-light status (Green/Yellow/Red) based on validity dates.

	Predictive Maintenance through Measuring Points	Monitoring of asset operation (running hours, kilometers, technical parameters) through periodic readings. The system uses measuring points and meters to trigger predictive alerts, preventing failures before they occur.
	Corrective Maintenance and Defect Management	Immediate cataloguing of incidents and failures by defect classes and causes. Enables rapid notifications to technical teams to restore the normal operating condition of degraded equipment.
	Repair Plan Preparation and Approval	Supports configuration of the annual or periodic preventive maintenance and repair plan. The system covers automatic repair proposals, user adjustments, technical review, economic review and approval of final versions.
	Intervention Management and Work Orders	Operational generation of work orders in response to alerts or defect notifications. It coordinates field teams, records completed work and provides the technical support required for each intervention.
	Native Budget Integration and Cost Control	Each repair-plan job is directly linked to financial elements. The system integrates supply requests, material issue notes, labour and transport directly into the company revenue and expense budgets.
	Resource Control: "Planned vs. Consumed"	Rigorous tracking of budget execution at work-order level. Provides immediate comparison between initially estimated financial/material resources and the actual costs recorded after interventions.
	Native EAM / ERP Integration	The module connects natively with the other components of the integrated EMSYS system, ensuring secure data transfer and visibility for production, quality, fixed assets, HR and accounting.
	Executive Analysis, Reporting and Technical Audit	Automatically generates summary reports: completion of works (planned vs. unplanned), costs incurred in RON/EUR and defect summaries to support strategic management decisions.

