SPEEDING UP YOUR BUSINESS!

EAM WEBROZUM
asset management

ENTERPRISE ASSET MANAGEMENT AND INVENTORY PLATFORM

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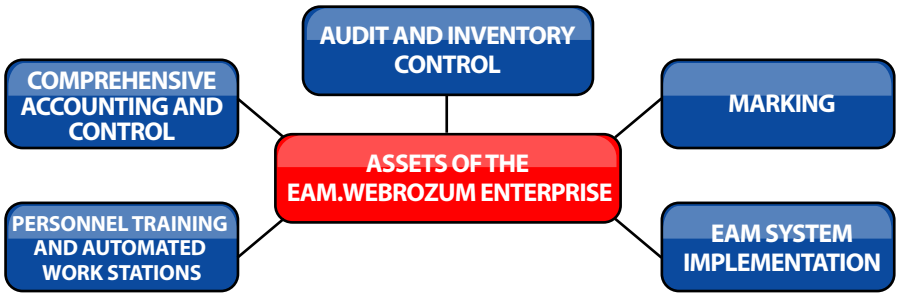
EAM.WEBROZUM
TANGIBLE ASSETS + EFFECTIVE SOLUTIONS

Enterprise Asset Management (EAM) systems are digital information platforms designed for efficient company asset management.
We present to you the best solutions for enterprise tangible asset accounting from **VOSTOK COMPANY.**
The **EAM.WEBROZUM** platform, featuring an adaptive interface, includes a digital asset registry for inventory management, asset characteristics, and optimization of accounting and control processes. It ensures clear and simple usability from anywhere in the world with internet access.

EAM.WEBROZUM is not just an IT platform, but a tool for business process transformation.

The key to success is leadership involvement and a focus on quick results!



KEY ISSUES IN TANGIBLE ASSET CONTROL AND ACCOUNTING:

- **Lack of a unified database: Information on company tangible assets, equipment, and intangible assets is stored** in Excel, BAS, and paper logs.
- **Downtime and chaos** in business processes, dependency on personnel.
- **Lack of transparency in equipment costs**, losses due to stockpiling, and duplicate entries.
- **No tools for calculating ROI on** asset investments.
- **Outdated data:** The registry contains obsolete information (e.g., decommissioned equipment is still listed as operational).
- **No marking:** Working and power machines, equipment, measuring and control instruments, transmission devices, computing equipment, vehicles, tools, production and household inventory and accessories, etc., are not marked (barcode, QR, RFID).
- I**ncompatible systems,** no API, data chaos.
- Manual data entry and user errors.

EAM.WEBROZUM solutions — a step-by-step transition to structured and transparent tangible asset management. At each stage, the enterprise gains tangible value: from inventory management to strategic tangible asset management.

Every phase of EAM implementation delivers measurable results in the short term — starting with initial accounting and marking, and leading up to full digitalization of assets and the integration of procurement, tendering, and corporate accounting systems into a single information complex.

The EAM.WEBROZUM system is suitable for large, medium, and small businesses.

AUDIT, INVENTORY

- **Physical verification:** checking the presence of assets on-site and reconciling with system records.
- **Reconciliation with accounting records:** matching data in systems (for example, BAS, SAP, IBM, etc.) with accounting.
- **Asset localization: i**dentifying the current location of equipment and facilities.
- **Photo documentation of tags/asset marking:** confirming the existence and condition of assets.
- **Analysis of technical processes and key indicators:** repairs, MTTR, MTBF.
- **Financial control:** depreciation, residual value, supporting documents.
- **Compliance with standards:** ISO, technical inspections, regulations.
- **Result:** report, recommendations, corrective plan.
- **Data update:** revising parameters, passports, condition, preventive maintenance schedules, service life.

Marking is the process of applying digital images, symbols, text, and color codes to objects, equipment, containers, documentation, and other items for subsequent tracking and EAM control.

1. PREPARATION FOR MARKING

1. Identification and location of items to be marked (products, equipment, etc.).

2. Photo documentation of items and marking application points.

3. Selection of marking type/method depending on purpose and service life.

2. MARKING

1. Design of layouts according to the selected marking method.

2. Production of labels based on the chosen application method.

3. Application of tags/labels to the objects.

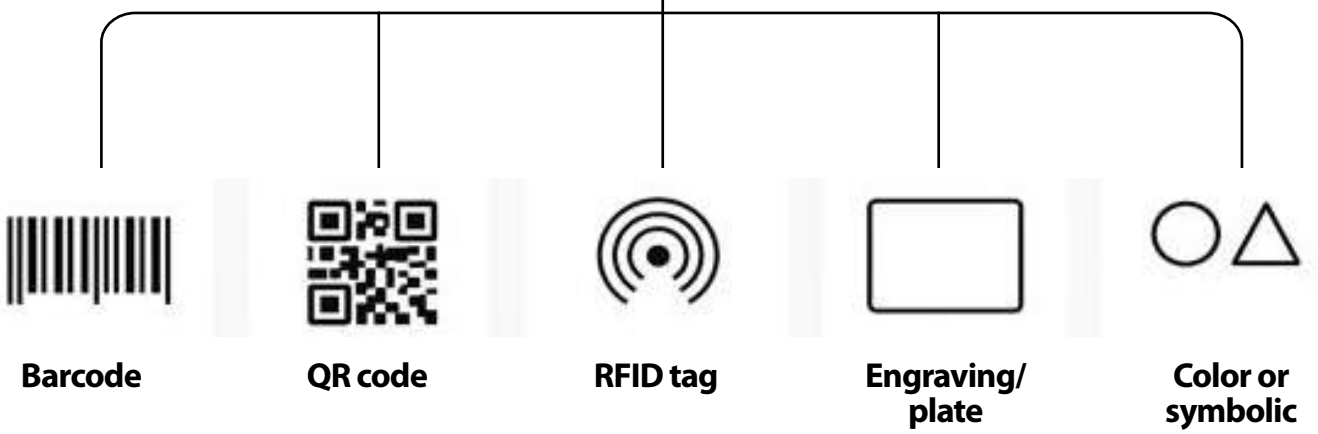
3. ENTRY INTO THE EAM SYSTEM

1. Entry into the EAM system, digitalization.

2. Integration with other software.

3. Configuration of dashboards and report forms.

MARKING METHODS



Marking technologies	Description	Application	Advantages	Disadvantages
Barcode (1D)	Sticker with a linear code (EAN, Code128)	Equipment, furniture, tools, documents	Simplicity, availability of scanners	Need visibility, easily damaged
2D Data-matrix	2D code with high data density	Small assets, devices, components, DPM	Direct DPM marking, easy to scan	Requires expensive specialized scanner or DPM camera
QR code of the web passport	Link to a web address	All assets except small ones	Can be scanned with a smartphone, no special software required	Constant internet access required
RFID tag	Radio frequency tag (HF/UHF)	Moving equipment, returnable containers, transport	Contactless reading, automation	Requires specialized equipment and setup, but provides maximum automation
Engraving / plate	Permanent marking - laser, embossing, metal plate	Metal structures, stationary assets	Durable, does not wear off	Expensive to produce, labor-intensive to apply
Color or symbolic	Visual difference (color, pictogram)	Manual sorting or storage areas	Quick recognition, easier orientation	Without additional marking, no automation

INITIAL marking at the first stage of inventory

We recommend carrying this out using paper and polypropylene labels. Printing on a label printer allows you to independently and promptly produce additional labels when unmarked fixed assets, property items, or materials are identified. This eliminates the need to order and wait for the production of specialized labels.

After completing the preliminary accounting of all tangible assets, we recommend using reliable long-term **labels from our partner — inotec Barcode Security GmbH (Neumünster, Germany)**. These labels are manufactured using multilayer technology and feature exceptional resistance to external influences.

Container marking

Container marking plays an important role in logistics, warehousing, inventory management, and product tracking. In the context of EAM, it helps efficiently manage **returnable containers**, reduce losses, and automate processes.

ВИДЫ МАРКИРОВКИ ТАРЫ

BARCODE | QR-CODE | RFID TAG | SERIAL NUMBER | COLOR OR SYMBOLIC

The in-mould container labels produced by **inotec (Germany)** are developed and manufactured both as in-mould labels and as self-adhesive options.

Labels can be **equipped with RFID chips**, enabling multiple identification options as well as the encoding of additional information (batch number, box/container weight). The above-mentioned marking options are long-lasting, designed **to withstand virtually the entire service life of the box or container.**

Permanent marking with high-temperature steel and ceramic Ceralabel tags from inotec

These labels demonstrate high resistance in aggressive environments, withstand temperatures up to 1,400 °C, ensure clear readability, and support reliable, uninterrupted operation within EAM process automation systems.

*Thanks to these universal qualities, the labels are ideal for **permanent marking** of racks, containers, workpiece holders, and tools used in thermal and chemical processes.*

Ceralabel tags can also be manufactured in very small sizes.

Permanent DPM marking: laser, dot peen, scribing

Marking is performed using industrial equipment, ensuring precision and durability.

RFID TAGS

RFID tags (Radio Frequency Identification) are a contactless marking technology that enables object identification using radio waves. They vary by **frequency, memory capacity, and design.** RFID provides contactless identification via radio channels at distances ranging from a few centimeters to several kilometers.
The RFID technology can be applied in almost any business sector to increase speed and operational efficiency.

Most common uses of RFID:

1. Access systems.
2. Vehicle weighing systems.
3. Vehicle inspection tags.
4. Toll payment.
5. Container identification.
6. Property management.
7. Animal tracking.
8. Payment systems.
9. Library management.
10. Anti-counterfeiting protection.

EAM automation processes and related documents

1. Documents managed through EAM:

- Transparency and quick access to documents, with their actual location traceable via RFID scanner.
- Technical library: drawings and schematics; equipment passports; user manuals.
- Legal documents: warranty obligations, contractor agreements, certificates of conformity.

2. Key EAM functions for document management:

2.1. Centralized storage.
2.2. Digital twin → web passport.
2.3. Linking documents to asset records and events → via blockchain.
2.4. Version control (change history).
2.5. Access control (role-based model).

3. Process automation:

- **3.1. Creation of templates (examples):**
  Inspection report → automatically fills data from EAM.
  Repair request → to technician → accountant → archive.
- **3.2. Integration with other systems:** ERP (financial documents, invoices), CAD (equipment drawings), ECM (legal documents).

Advantages of EAM.WEBROZUM for document management

- **Search speed:** QR code linked to an electronic copy; EAM + RFID = instant search.
- **Error reduction:** automatic filling of details (inventory number, commissioning date).
- **Deadline control:** alerts on warranty expiration or upcoming inspections.

For common task management, we integrate EAM.WEBROZUM with EDMS*!

**EDMS — electronic document management system*

Wholesale and retail trade

- Distribution equipment (containers, **returnable containers**, etc.).
- **Warehouse logistics (racking, vehicles, pallet spaces, etc.).**
- **Transport and logistics.**
- **IT infrastructure.**
- Retail outlets (stores).
- Equipment (cash registers, refrigeration equipment, coffee machines, etc.).

Food production

- Dairy industry.
- Meat processing and sausages.
- Bakery and confectionery.
- Canning industry.
- Production of beverages and juices.
- Starch and fat-and-oil production.
- Ready meals and semi-finished products.
- Brewing and soft drinks.
- Alcoholic beverages.

Non-food production

- Cosmetics and household chemicals — reactors, dispensers, labeling machines.
- Packaging production — extruders, printing presses, die-cutting machines.
- Building materials — concrete mixers, crushers, dryers, packaging lines.
- Metal and woodworking — saws, presses, lathes, grinding machines.
- Auto chemicals, paint and varnish materials — pumps, mixers, temperature control systems.

Industry

- Mechanical engineering, metalworking, chemical industry, and others.
- Accounting of real estate, plant equipment, and more.

Construction and infrastructure

- Road construction, bridges, tunnels, large-scale infrastructure projects.
- Construction machinery and transport.

Agricultural sector

- Accounting of agricultural machinery, equipment, warehouses, irrigation systems, and the entire farm infrastructure.
- Asset tracking and control in livestock farming and agricultural enterprises.

Transport and logistics

- Railways, seaports, road transport companies.
- Rolling stock, cranes, forklifts, containers.

Medicine

- Medical institutions and hospitals, private clinics.
- Accounting of real estate, medical equipment, vehicles, etc.

Oil and gas industry, energy

- Drilling platforms, oil refineries, pipelines.
- Power plants, water supply systems.
- Gas networks, district heating systems.

Public sector

- Assets of municipal services, educational and administrative institutions.
- Property of utility companies (including consulting on software implementation and customization).

The VOSTOK Company has been working both in the market of Ukraine and abroad for more than 20 years.

Key competences of the company:

- automation of business processes for manufacturing enterprises;
- implementation of complex solutions (from development to introduction) in conditional general measurement within more than 300,000 m2 of industrial areas;
- by suggesting partnership with our company in terms of automation, we guarantee quality based approach to task solution at every stage and, most importantly, achievement of the set goals;
- while developing and introducing the automation project on a turnkey bases, we use certified materials and components and provide corresponding documentation;
- apart from development and introduction, we constantly train and consult enterprise employees.

A SOLUTION FOR THE CIO

Integrations:

- Support for API / Web API, integration with BAS, SAP, Microsoft Dynamics
- Synchronization with systems: ECM (document management), CAD (design), WMS, MRP.

Safety:

- Role-based access control (RBAC).
- User activity logging.
- Data encryption during transmission and storage.

IT support and maintenance:

- Cloud and on-premise versions.
- Adaptive interface for any device (PC, tablet, smartphone).
- No client software installation required.

Additionally:

- Support for XML, JSON, Excel formats.
- Integration with corporate BI systems.

A SOLUTION FOR LOGISTICS AND WAREHOUSE SERVICES

Accounting for warehouse infrastructure:

- RFID-based tracking of storage locations, equipment (forklifts, stackers), pallets, and containers.
- Monitoring of material movements through RFID portals and control points.

Fast inventory:

- Inventory of equipment and containers without process interruption.
- Instant data entry into the system via data collection terminal and smartphones.

Marking of containers and packages:

- Use of in-mould RFID labels and QR codes.
- Automatic write-off/registration during movement.
- Durable labeling for both returnable and non-returnable packaging.

Advantages:

- Fast implementation without interrupting logistics operations.
- Easy to use for line personnel.
- Integration with WMS and ERP systems.

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WHY ARE WE SELECTED?

Over 10 years of experience in implementing EAM projects — both comprehensive and modular solutions (inventory, labeling, etc.).

Food and non-food producers

- Reversible plastic containers.
- Returnable metal "containers" – kegs (beer, kvass), industrial gas cylinders.

Accounting for computer equipment, telecommunications

Sale and lease

- Purchase and sale of enterprises — comprehensive inventory and valuation prior to acquisition.
- Commercial real estate. Buildings and facilities for companies leasing office and shopping centers.
- Municipal sector — leasing and tracking of public property.

Document management

- RFID- and EAM-based document management — Ministry of Foreign Affairs of Ukraine, Ministry of Foreign Affairs of Kenya, Dnipro-Metrology.
- Consulting on software development/customization.

Medicine

Private medical clinics with high-value equipment.
Secondary raw materials. Waste disposal, sorting, collection, processing, landfills, tracking of collection sites and containers.

By implementing the cutting-edge **EAM.WEBROZUM** system for enterprise asset management, we create **up-to-date and accessible business information** that remains under your control **from anywhere in the world** with internet access.

During the development and implementation of new technical solutions, existing production processes do not stop!

CONDITIONS FOR STARTING WORK:

- strategic session with both parties;
- definition of goals and objectives;
- appointment of a project coordinator from the contractor's side and formation of a joint working group;
- analysis of the necessary information provided by the company;
- preparation of preliminary technical specifications (TS) – main stages, budget;
- approval of the TS and signing of the contract.

Further, all subsequent work is carried out under the contract, in accordance with the agreed scope and deadlines.

The deadlines for completing the work correspond to the stages agreed upon under the contract.

We look forward to your decisions regarding cooperation!

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