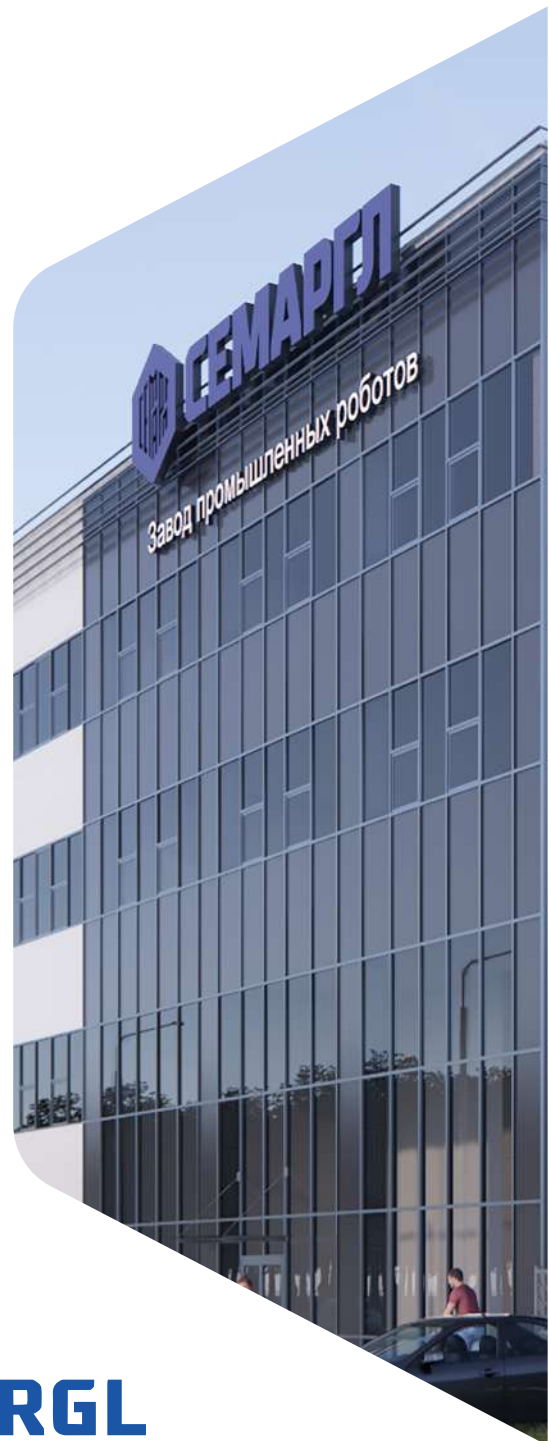


INNOVATIONS IN TECHNOLOGICAL LEADERSHIP



SEMARGL



About the company

Semargl LLC is a Russian manufacturing and engineering company. It is a market leader in creating automated and robotic solutions for industrial enterprises, logistics, and retail.

The company's in-house R&D department enables the implementation of projects of any complexity, «from concept to deployment»

The company is included in the register of:

- Systemically important enterprises in the field of «Heavy Engineering»
- Small technology companies

Equipment and software are included in the registers of:

- Russian industrial products
- Russian software

16

years on the
Russian market

100+

successfully completed
projects

250+

employees

17 000

sq.m of assembly
and production space

* In 2026, a new plant will open in the Saint-Petersburg Special Economic Zone

Key Competencies

01

Engineering and technological audit

Development of optimal
solutions

02

Maintenance

Installation, maintenance,
and modernization
of equipment, including
software upgrades

03

Robotization and flexible manufacturing systems

Robotization of production
processes of any complexity

04

Development and manufacturing of custom equipment

Automated and Robotic
Storage and Cargo
Movement Systems,
AGV-robots

05

Software

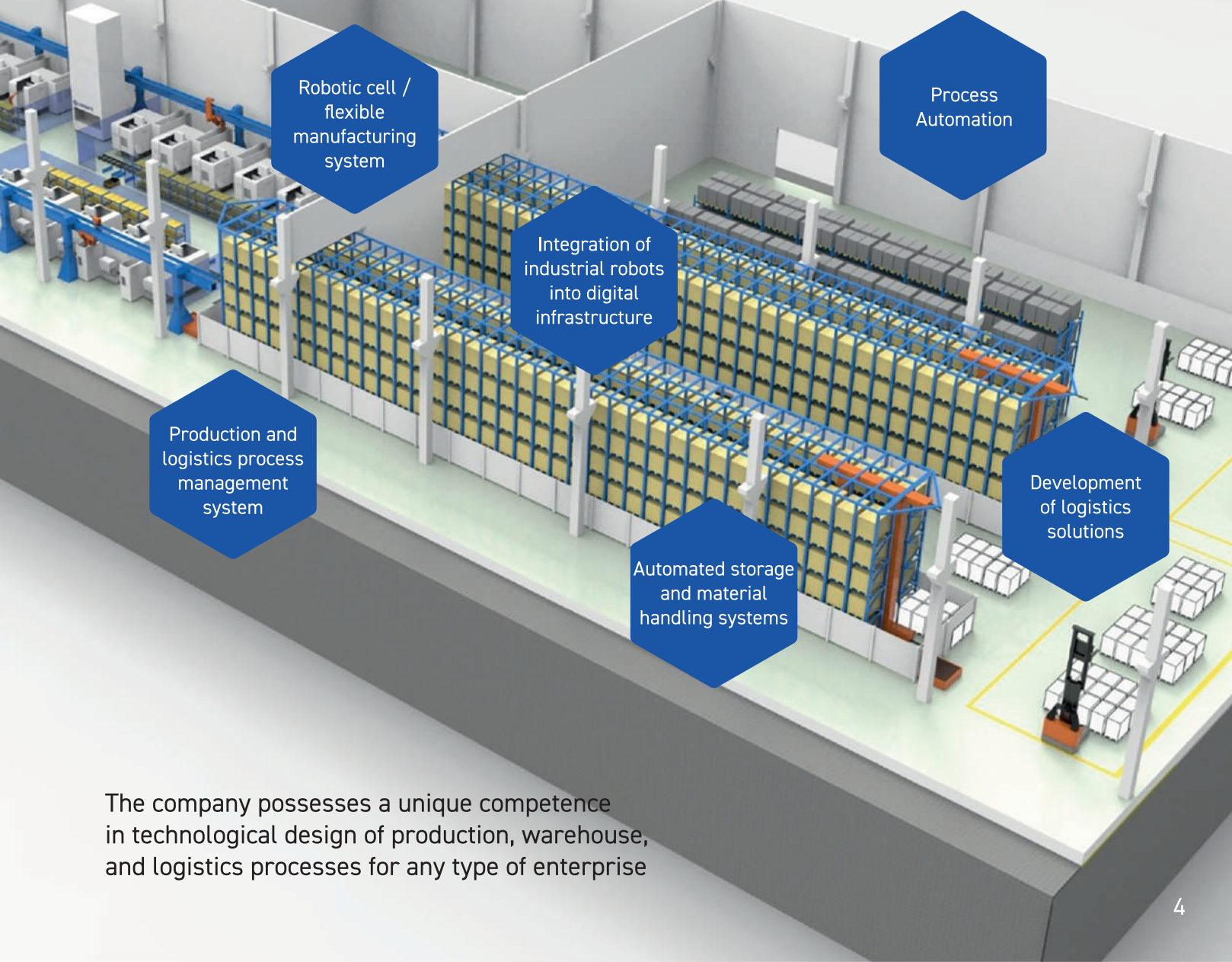
In-house software DIACON
WMS, RMS

06

Process design

Equipment selection
for production processes

Production process engineering



Robotic cell /
flexible
manufacturing
system

Process
Automation

Integration of
industrial robots
into digital
infrastructure

Production and
logistics process
management
system

Development
of logistics
solutions

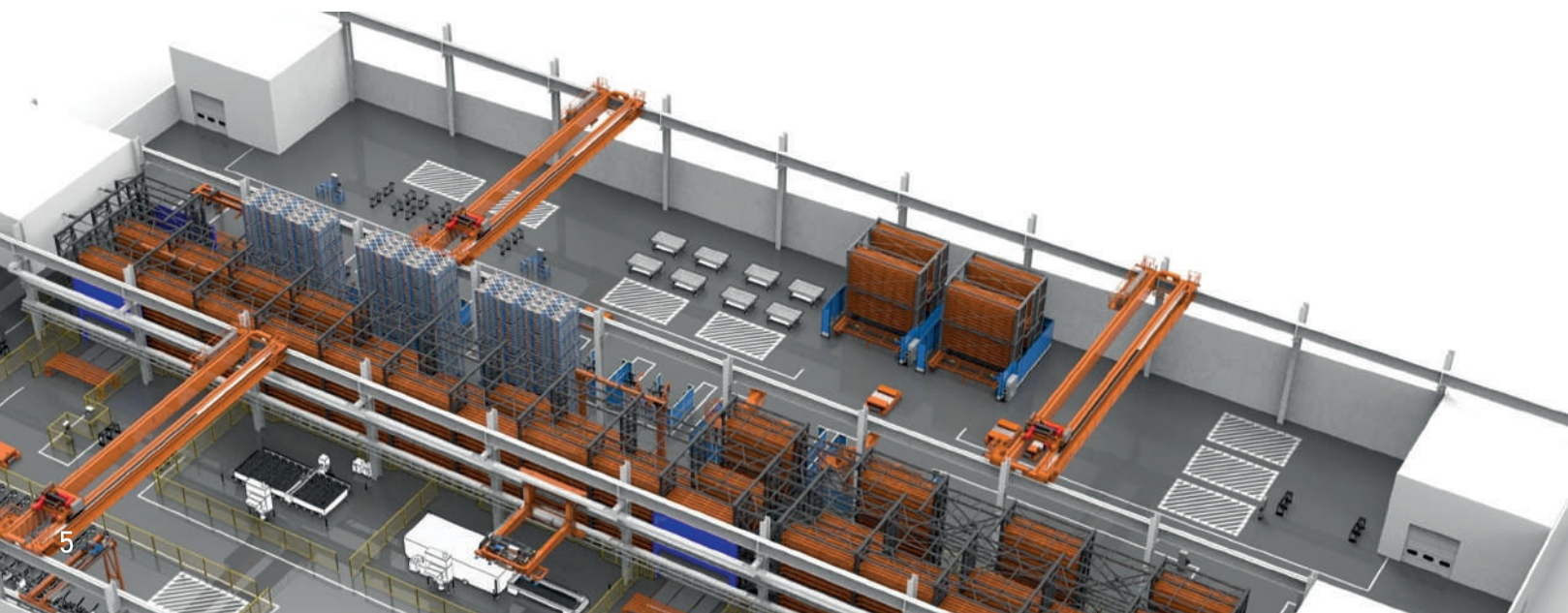
Automated storage
and material
handling systems

The company possesses a unique competence in technological design of production, warehouse, and logistics processes for any type of enterprise

Production logistics

For industrial enterprises,
the company creates
solutions based on:

- Maximum utilization of the entire production floor space
- Integrated manufacturing system combining machinery, logistics, and storage under unified control.
- Implementation of the "goods-to-person" and "just-in-time" principles
- Ensuring an enhanced level of personnel safety
- Deployment of Russian software as a key element of digital security
- Reduction of workforce engaged in routine operations
- Implementation of the "8760" principle



Retail and Warehouse Logistics

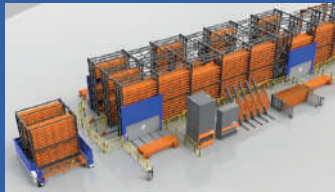
For retail enterprises, the company creates solutions based on:

- Technological design and equipment selection backed by feasibility studies, with results validated on a digital twin of the distribution center
- Introduction of robotics for SCU transportation and sorting operations
- Implementation of the "goods-to-person" and "just-in-time" principles
- Ensuring an enhanced level of personnel safety
- Deployment of Russian software as a key element of digital security
- Reduction of manual operations in the warehouse and sorting area
- Implementation of simple and effective solutions
- Integration of the retailer with the manufacturer through digital supply chain support

Equipment Lineup

01

Automated
Storage
Systems



02

Automated
Transport
Platforms



03

Flexible
Manufacturing
Systems



04

Software



05

Automated
Crane
Systems



06

AGV
robots
Semabot

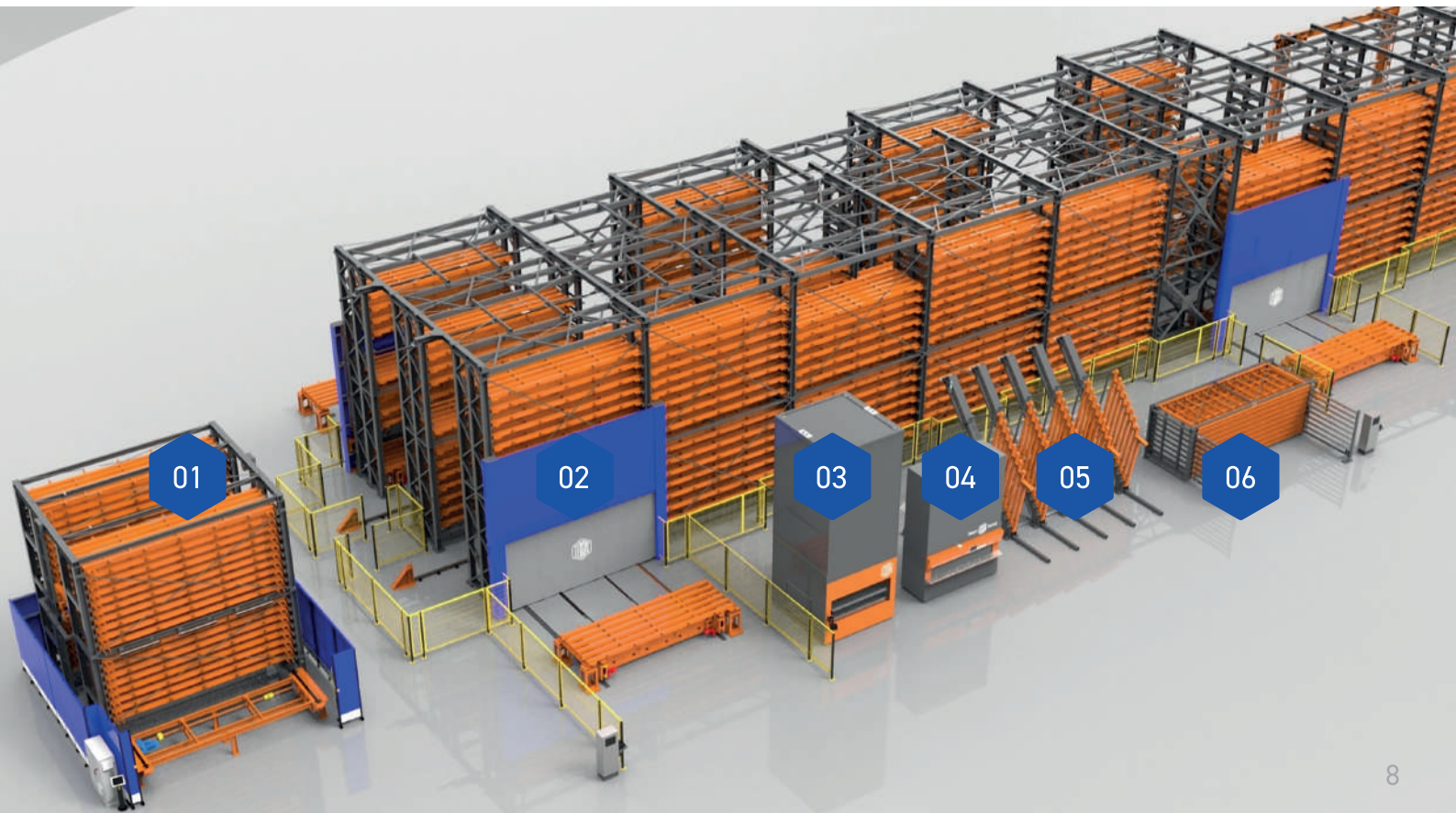


Up to 5 tons | cassette

Automated storage systems

Integrates with the shop floor control system (MES). Controlled via DIACON WMS. Uses Russian PLC-level software

- 01 ARSENAL B vertical lift type
- 02 ARSENAL AS/RS
- 03 ARSENAL M vertical lift type
- 04 Carousel-type ARSENAL AK
- 05 ROGATNIK fan-type
- 06 AMBAR S with pull-out shelves

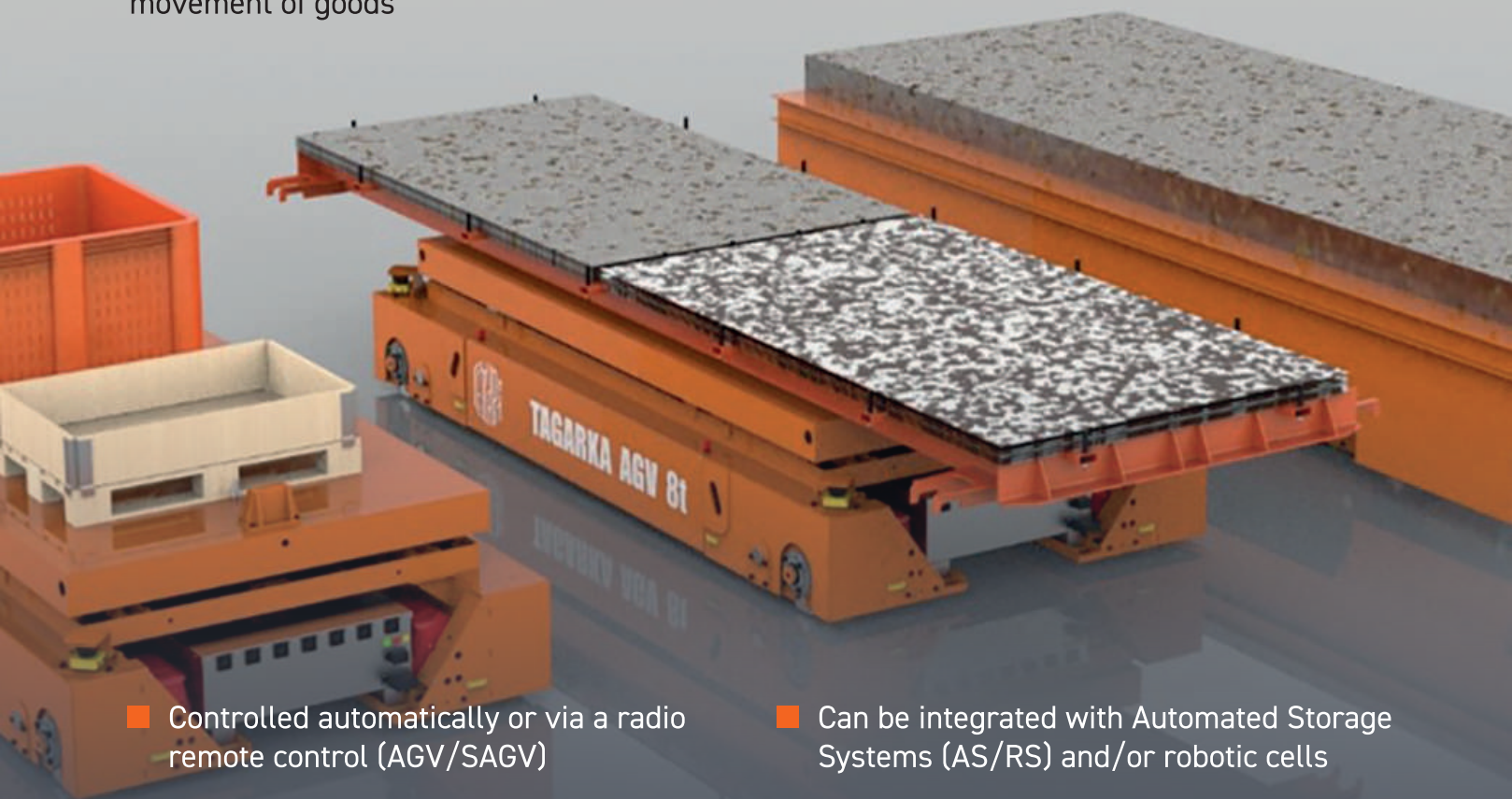


Transport systems

Automated Transport Platforms TAGARKA are designed for intra-shop and inter-shop movement of goods

load capacity

Up to 140 tons



- Controlled automatically or via a radio remote control (AGV/SAGV)
- Can be integrated with Automated Storage Systems (AS/RS) and/or robotic cells
- Integrates into the shop floor control system (MES). Controlled via DIACON RMS. Uses Russian PLC-level software.

AGV-robots SEMABOT

Innovative mobile robots for automating intralogistics, enabling uninterrupted movement of inventory items and ensuring a 24/7/365 strategy

AGV robots SEMABOT are easy to operate, combining precision, safety, and autonomy:

- A compact and maneuverable robot moves accurately along pre-programmed routes using QR navigation. Autonomous movement via SLAM is also possible
- Can perform zero-turn radius rotation and is adapted for use in confined spaces of production facilities/warehouses
- Equipped with a lifting table for loading/unloading inventory items
- Integrates into the shop floor control system (MES). Controlled via DIACON RMS. Uses Russian PLC-level software



Automated Crane Equipment

Various types of lifting equipment are available in the production line:

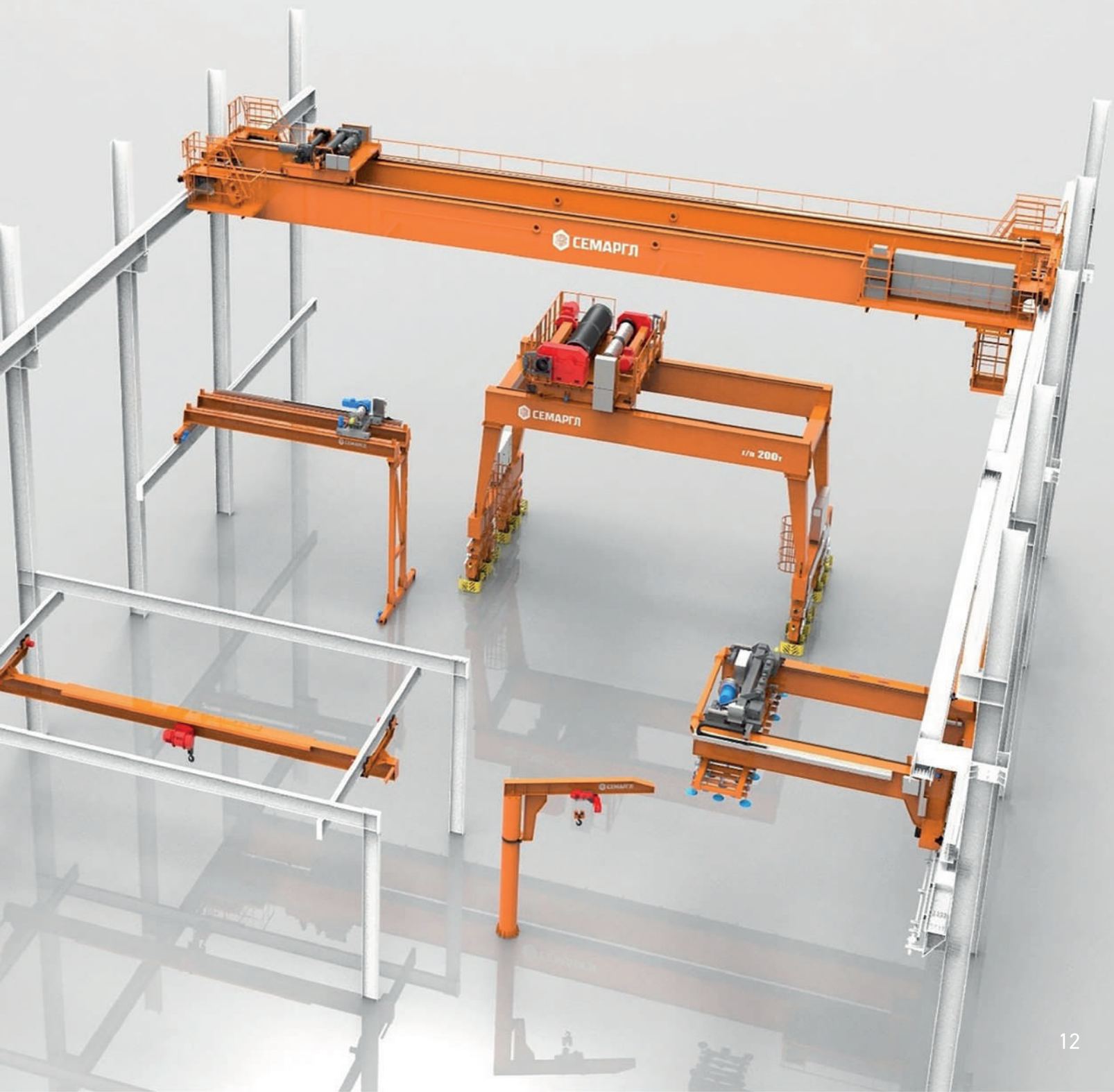
- Overhead traveling cranes, top-running
- Overhead traveling cranes, under-running
- Gantry cranes
- Column-mounted jib cranes
- Wall-mounted traveling jib cranes
- Robotic cranes

load capacity

Up to 140 tons

Cranes can integrate into the shop floor control system (MES) and transmit data on operating mode, runtime, and errors. Uses Russian PLC-level software.





Flexible Manufacturing System (FMS)

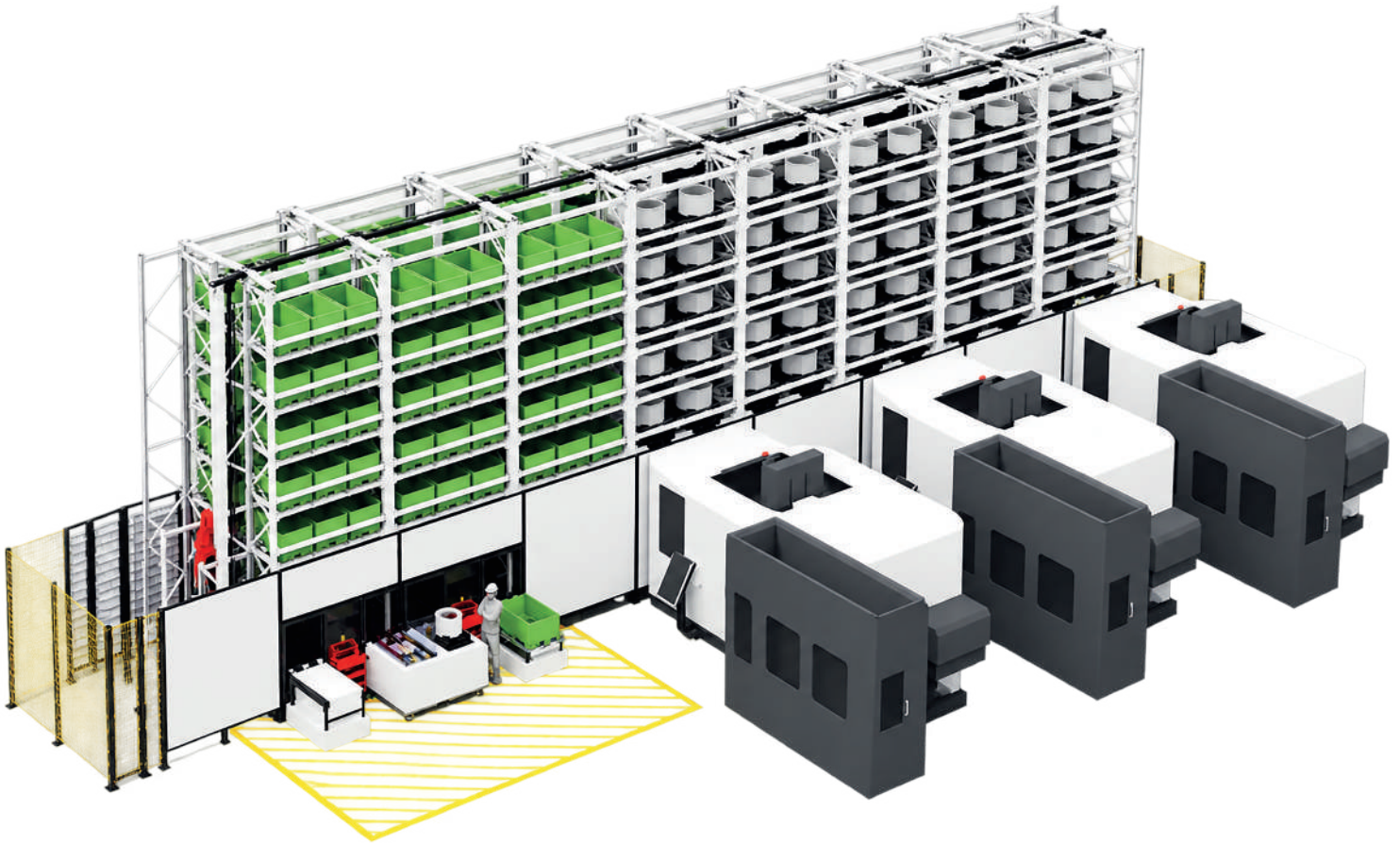
Flexible Manufacturing Cell (FMC)

Designed to create highly efficient factories of the future and «lights-out manufacturing» in the mechanical engineering segment as part of programs for robotization and import substitution in industry

The FMS / Robotic Cell uses Russian software that ensures mutual integration of machine tools, robots, measuring systems, and other equipment included in the supplied complex.

Implementation of FMS allows:

- Ensuring product quality is independent of the human factor;
- Ensuring stability and reducing the duration of operation cycles;
- Increasing finished product output;
- Reducing production costs compared to manual operations performed by humans;



Complies with OKPD 2 : 28.99.39.240

- Increasing production flexibility;
- Efficiently utilizing enterprise space and freeing up the warehouse from parts in process according to the technological workflow;
- Reducing production costs by reducing the need for manual operation and measurement personnel

In-house software diacon WMS, RMS

DIACON RMS

Management, Monitoring, and Diagnostic System for Autonomous Transport Robots

- Data exchange with robots
- Location tracking
- Safety assurance
- Integration with external systems
- Route planning
- Map loading
- Server synchronization

DIACON WMS

Warehouse Management System
for managing the storage
and movement of inventory
items in the production process

- Coordination and synchronization of incoming and outgoing goods flows;
- Operational accounting of stored inventory items with detailed information about the storage unit;
- Access control to inventory items depending on the role in the system;
- Integration with upper-level software (ERP/MES);
- Management of slow-moving and obsolete stock, processing of "industrial waste".

SEMARGL

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