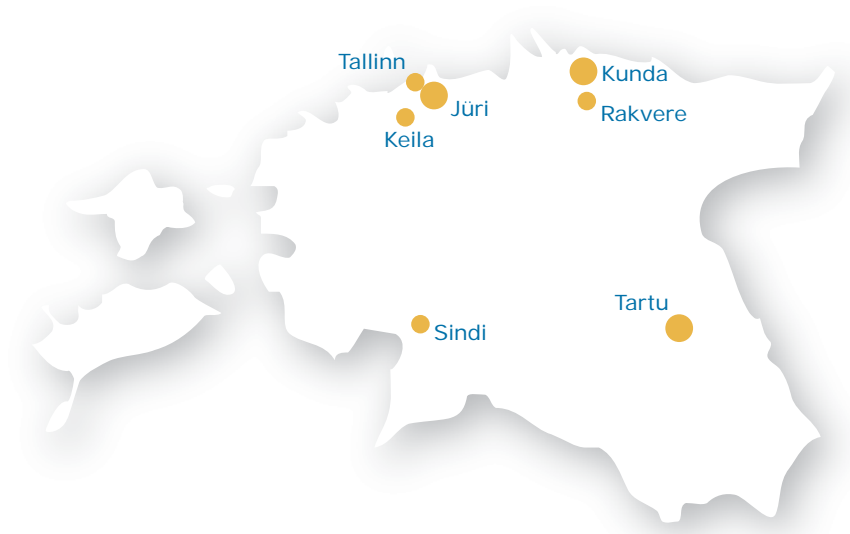


# Service

## Maintenance of Industries





### ABB Service – Professional Maintenance

A successfully working maintenance system that helps foresee and prevent failures is one of the most important basics of effective production. ABB considers the specifics of production and requirements established by a customer for both production and maintenance when developing methods for diagnostics and maintenance.

Systematic maintenance has the following advantages:

- Improved reliability of a plant (less unplanned work stoppages)
- Increased efficiency and profitability of production
- Extended lifetime of equipment and systems

ABB's competence:

- Long-term contracts, one-term projects, emergency calls
- Experienced specialists
- Units in more than 60 countries all over the world
- Constant development activities

### Maintenance – Improved Failsafe Performance and Production Efficiency of Equipment/Systems

ABB is responsible for keeping the equipment in good working order and offers recommendations for the modernization and updating of equipment.

Maintenance includes an analysis of the condition of equipment, diagnostics, preventive maintenance, repairs, performance measurements, and consistent development activities.

Implementation of historical data concerning the equipment and knowledge base available, combined with maintenance-related experiences of ABB, serve as the basis for success.

#### ■ ABB Full Service®

– a partnership to increase equipment effectiveness and plant productivity. ABB takes full responsibility for maintenance function. A stationary ABB unit is going to be present in customer's production.

■ **TEM** (Total Equipment Management) – a partnership to assure the functioning of production processes and contribute to its efficiency and reliability by involving modernization. Includes 24/7 support.

#### ■ Auditing maintenance systems

#### ■ Assistance to the development of maintenance systems



## Maintenance and Repair of Mechanic Equipment and Systems

ABB is highly competent in the sphere of repairs and maintenance of mechanical equipment. ABB's mechanical specialists are providing maintenance services to our customers' equipment on a daily basis. Willingness to learn consistently about new technologies and methods and to adopt them provides a required assurance for the development and implementation of development projects.

- Maintenance and repairs of AC and DC motors
- Diagnostics of rolling bearings at the site
- Aligning equipment with laser adjustment device
- Dynamic balancing of equipment at the workshop or on site
- Installation and maintenance of industrial refrigeration plants
- Maintenance of generators
- Maintenance of turbines
- Repair of high-voltage motors
- Repair and sales of dry-type transformers
- Sales of ABB motors
- Sales of spare parts for ABB equipment
- Workshop services
  - Metal cutting operations
  - Manufacturing of metal structures

## Maintenance and Repair of Automation Equipment and Systems

Being one of the largest manufacturers of industrial equipment and automation systems, we have obtained a profound knowledge of high-level maintenance and repair of automation systems and control equipment. ABB offers service programs that provide both proactive and corrective maintenance services. ABB engineers utilize the most advanced diagnostic and repair practices to reduce mean time to repair and increase plant performance.

- Installation, maintenance, and repair of electric, automation, and measuring devices required for industrial processes
- Installation, maintenance, and repairs of ABB frequency converters
- Drives modernization projects
- Operation of electrical systems
- Maintenance of low- and medium-voltage processing devices
- Maintenance and sales of accumulators
- Sales of spare parts for ABB equipment
- Sales of repair supplies for electrical machines (brushes, insulation materials, etc.)

## Modernization, Renovation, and Moving of Equipment/Systems

Engineers of ABB, having specialized in mechanics and automation, have a broad experience with relatively all industrial equipment and automated devices, thus providing strong foundation for the implementation of any projects, involving assembly and disassembly of production equipment.

- Renovation and major repairs of equipment
- Reconstruction and modernization of equipment
- Relocation of equipment and production lines

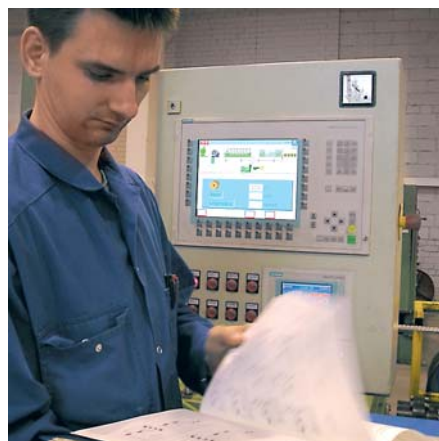




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