

# ABB Parts Fingerprint

Reduce risk of production loss  
and increase purchasing power



- Proactively identifies downtime losses and replacement delays, so deficiencies can be addressed
- Increases purchasing efficiency, optimizes inventory and identifies savings
- Improves preventive/corrective maintenance and matches spares to needs



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**Understanding parts inventory management is critical to preventing production loss due to missing or outdated parts. The ABB Parts Fingerprint evaluates parts management processes to find deficiencies and applies global best practices to resolve them.**



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# Approach to Parts Fingerprint

An effective parts management program including inventory procurement, storage, consumption and replacement, helps manage risk and reduce cost. The ABB Parts Fingerprint reviews parts manage-

ment processes to proactively identify risks to production as well as cost savings opportunities. Risk factors can be insufficient stock, over stock, out-of-date inventory, and end-of-lifecycle issues.

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## 1. Recommended Spares

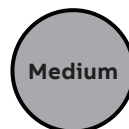
The ABB Parts Fingerprint initial assessment involves capturing detailed equipment configurations, including all associated part numbers and descriptions. The assessment includes:

- Part Number
- Description
- Installed Quantity
- Risk Factor

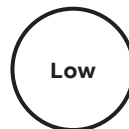
The risk factors are grouped by risk rankings including Low, Medium and High. Prioritization is set on high risk items capable of halting or hindering operation of the customers equipment.



Loss of part would affect performance and could interrupt production



Loss of part would affect but not hinder performance or production



Loss of part has no effect on performance or operation

The recommended spares list provides a snapshot of required parts inventory and the associated risk to facilitate procurement planning. To fully gauge potential risk to production, it is necessary to compare the recommended inventory levels against actual onsite inventory.

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## 2. Gap Analysis

A Gap Analysis is conducted to compare the amount of spare inventory a customer keeps to the ABB recommended quantity. A physical audit is performed to measure the quantity and quality of parts inventory. Parts requirements and usage history are also compiled and integrated into a database to manage future requirements. The Gap Analysis reviews:

- Optimum spares levels
- Parts sustainability
- Lifecycle status
- Supportability
- Criticality

The Gap Analysis uses the Recommend Spares list as a benchmark for the parts audit and exposes any gaps, so spare part levels can be adjusted to prevent unnecessary costs. We also look for all available sourcing options to address inventory deficits and prevent downtime due to missing parts.

## 3. Supply Analysis

In Supply Analysis, gap findings are measured against the supply chain to produce purchasing recommendations based on equipment availability, access to replacement parts and risk of obsolescence. Each step in the supply chain is evaluated to identify the most efficient sourcing options and to find cost savings opportunities. The Supply Analysis reviews:

- Procurement patterns
- Vendor selection
- Purchase price variances
- Supply management costs
- Warranty/version/obsolescence status
- Warehousing/storage
- Security/inventory shrinkage

A collaborative action plan is implemented to streamline the parts management process and promote procurement efficiencies. Recommendations are made to manage equipment lifecycle status and sustainability.



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# Finding the potential in parts

## How to get started

ABB Parts Fingerprint audits are recommended for the following ABB equipment types:

- Analyzers
- Brakes
- Control Systems
- Conveyor Systems
- Drives
- Electrical Equipment
- Electro-Magnetic Stirrers
- Gearless Mill Drives Systems
- Instruments
- Laboratory Gauges
- Measurement Products
- Mine Hoists
- Motors
- Power Products
- Quality Control Systems
- Ring Mill Drive Systems
- Robots
- SCADA Systems
- Telecomm Systems
- Web Imaging Systems

An annual ABB Parts Fingerprint audit is recommended to maintain parts management improvement. Inventory conditions and lifecycle status can change. Events including upgrades, hardware and software updates, changes in component availability, storage deficiencies and human error are factors that may influence parts management requirements.

Talk to your local ABB Service provider about taking the next step to better parts management.





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