

Parts Fingerprint

Identify opportunities for parts management improvement

ABB Parts Fingerprint evaluates parts management processes, including parts inventory, procurement and storage, through consumption and replacement.

Benefits

- Maximize system parts availability
- Reduce short- and long-term parts expenditures
- Manage stocking levels

Features

- Inventory documentation and validation
- Historical review of usage and purchasing patterns
- Inventory risk assessment and gap analysis
- Recommendations for cost savings

Parts management costs may constitute a substantial portion of your maintenance budget. An effective parts management program including inventory procurement and storage, through consumption and replacement, helps manage and potentially reduce associated cost.

The Parts Fingerprint reviews the effectiveness of your parts management process, to identify cost reduction opportunities and potential risk associated with your spares inventory. Some risk and cost can be attributed to insufficient stock, over stock, out-of-date inventory, and end of lifecycle issues. The fingerprint provides an evaluation report of your parts management program, including existing processes and conditions, compared with ABB established best practices for your ABB products.

Parts Fingerprint evaluation areas

- Parts inventory verification and validation
- Local and regional sourcing
- Lifecycle concerns and considerations
- Over and under stock conditions
- Parts status: new, used, failed
- Version and revision management
- Abnormal failure/usage rates
- Warranty management

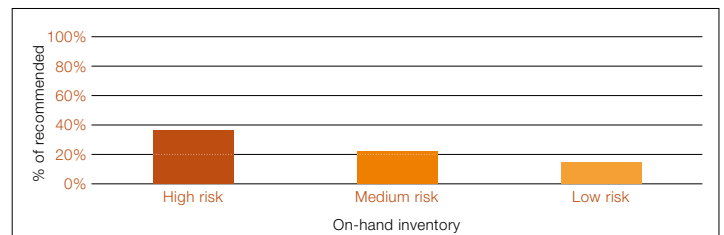


Parts availability and system lifecycle

ABB validates your spare parts inventory. Parts are ranked high, medium, or low risk; based on criticality to the operation. Obsolete or difficult to find parts are also identified. ABB recommendations are provided to manage issues related to equipment lifecycle status, and equipment supportability.

Inventory risk assessment and gap analysis

A review of part stocking levels, compared to equipment performance and uptime requirements, is conducted. ABB recommended parts and stocking levels are retrieved from PartsPRO, our parts management database. An inventory gap analysis is developed by checking on-hand inventory against PartsPRO recommendations. Parts requirements and usage history, including expedited parts, are integrated into PartsPRO to help manage future parts requirements.



Spares inventory gap analysis—ranked by critically to the operation, inventory is compared with PartsPRO recommended levels.

Report recommendations

The fingerprint report provides recommendations for improving parts management strategies and sustaining short- and long-term management goals.

ABB Part No.	Part Name	LTB=Last Time Buy			Refurb on-hand	Repair available	Ability to support		
		Prop	Supply New	New on-hand			New part	Used Part	Repair
Sample #1	Part description	No	Yes	45	0	No	Low risk	High risk	High risk
Sample #2	Part description	Yes	No	N/A	N/A	No	Medium risk	High risk	High risk
Sample #3	Part description	Yes	Yes	5	N/A	No	Medium risk	High risk	High risk
Sample #4	Part description	Yes	Yes	18	0	No	Low risk	High risk	High risk
Sample #5	Part description	Yes	No	0	0	No	High risk	High risk	High risk
Sample #6	Part description	Yes	No	1	0	No	High risk	High risk	High risk
Sample #7	Part description	Yes	Yes	1	1	Yes	Low risk	Low risk	Low risk
Sample #8	Part description	Yes	No	0	0	Yes	High risk	High risk	Low risk
Sample #9	Part description	Yes	Yes	1	0	Yes	Low risk	Low risk	Low risk
Sample #10	Part description	Yes	LTB	25	1	No	Low risk	Low risk	High risk
Sample #11	Part description	Yes	LTB	47	0	Yes	Low risk	Medium risk	Low risk
Sample #12	Part description	Yes	LTB	45	2	Yes	Low risk	Low risk	Low risk

Sample lifecycle status report. Ability to support: ■ high risk, ■ medium risk, ■ low risk.

Recommendations may include but are not limited to: ABB owned parts inventory, cost-effective parts sourcing, on-line parts ordering and tracking, inventory management tools, reduced/increased stocking levels and overstocked or obsolete parts return-for-credit. Refurbished, repaired, and pre-owned parts options may also be recommended to decrease the direct cost of replacement parts and increase cost savings.

Improvement plan

ABB offers recommendations and options to help meet your business goals and production objectives.

Our complete portfolio of parts management services are available regardless of your automation equipment lifecycle stage.

An annual Parts Fingerprint is recommended as part of your service contract agreement to sustain parts management improvement. Inventory conditions and lifecycle status are dynamic. Various events including upgrades, system hardware and software updates, and changes in component availability are factors that may influence parts management requirements.

Parts Fingerprint audits are recommended for the following ABB equipment types

- Process control systems
- Quality control systems
- Analytics
- Drives
- Instrumentation
- Other critical ABB systems

Parts Fingerprint highlights

Spare inventory risk assessment

- Parts audit and inventory
- Historical usage review
- Part/serial numbers log

Spares inventory gap analysis

- Optimum spares level analysis
- Sustainability analysis
 - Lifecycle status
 - Supportability
 - Criticality

Inventory management process

- Procurement pattern
 - Vendor selection
 - Purchase Price Variance (PPV)
 - Supply management cost optimization
- Warranty/version/obsolescence management
- Inventory storage environmental parameters
 - ESD protection
 - Warehousing/storage
 - Security/inventory shrinkage

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