

ToolScan RCM

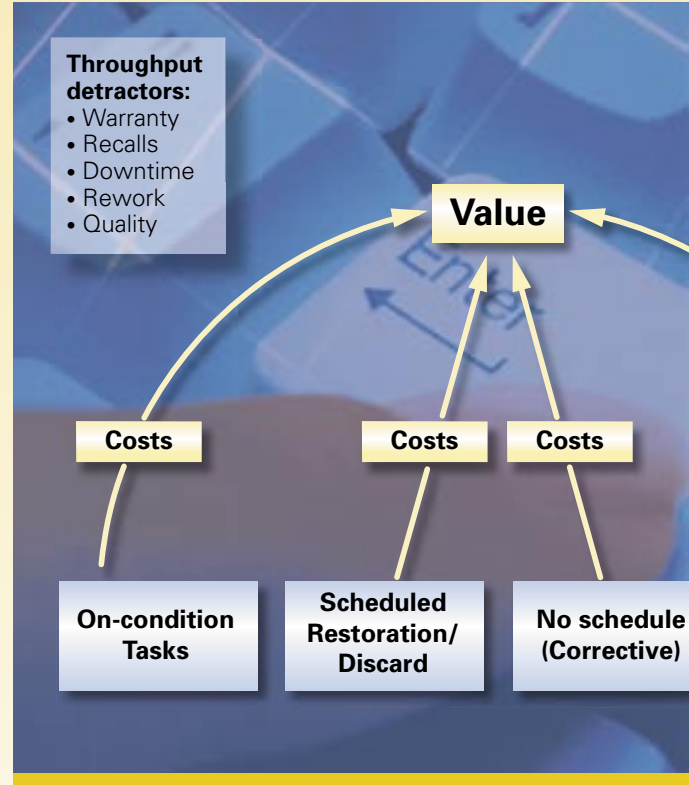
A tool for optimizing assembly system maintenance



Atlas Copco

Tuned to p

ToolScan RCM Is your operation suffering from downtime and quality problems? If so there is a risk that your tool maintenance level is incorrect. While too little maintenance means frequent tool breakdowns, too much maintenance is an unnecessary drain on your budget. Either way, it's your bottom line that suffers. For maximum profitability, the relationship between tool maintenance and system failure must be optimized. It's a fine balance which Atlas Copco can help you achieve. Using ToolScan RCM our RCM specialists identify your precise maintenance needs. We then help you optimize your existing maintenance program, or develop a new one.



An effective method of minimizing downtime and assuring quality

Reliability-centered Maintenance (RCM) is widely used in the aerospace, defense, and machine tool industries where considerable savings in overall operating costs have been achieved.

Atlas Copco's ToolScan RCM adapts the basic principles of RCM and applies it to assembly systems.

The theory behind RCM

Maintenance is the act of ensuring that assembly systems continue to do what their users want them to do. Failures come with consequences: Downtime, rejects, recalls and warranty claims. The consequences are economic in nature: Lost production, reworking, downtime, and tool repair costs. ToolScan RCM is a process used to

determine what must be done to ensure that any assembly system continues to do what its users want it to do in its present operating context.

Seven basic questions

1. What are the functions and associated performance standards of the assembly system in its present operating context?
2. In what ways does it fail to fulfill its functions?
3. What causes each functional failure?
4. What happens when each failure occurs?
5. In what ways does each failure matter?
6. What can be done to predict or prevent each failure?

7. What should be done if a suitable proactive task cannot be found?

Balancing maintenance against assembly system failure

The ToolScan RCM process is used to balance the selected form of maintenance against the operational consequences of a failure.

Based on their analyses, your Atlas Copco RCM specialist will recommend one or a combination of the following maintenance options:

- On-condition Maintenance (Inspection): Is a task to detect whether the failure is occurring or about to occur technically feasible and worth doing?
- Scheduled Restoration/Discard (Preventive): Is a schedule restoration or discard task to reduce the failure rate technically feasible and worth doing?

Perfection



Profit

Solve
Operational
Consequences

For the motor vehicle industry and other manufacturing operations where downtime can cost huge sums per minute, ToolScan RCM is a valuable tool that can reduce operating costs and raise productivity.

- No-schedule Maintenance (Corrective): If On-condition Maintenance, Scheduled Restoration, and Scheduled Discard are not technically or economically feasible then we provide No-schedule Maintenance.

Applying ToolScan RCM

When applying ToolScan RCM at your assembly plant, an Atlas Copco RCM specialist, working closely with you, decides which systems are most likely to benefit from the process.

We review the maintenance requirements of each system with a small team which includes at least one person from maintenance and one person from operations.

Identifying costs

Using failure data and probability analysis we build a block diagram for each system in the plant.

A simulation of each system is

run, taking into account the present operating context. We can then identify costs generated by functional failures, maintenance crew, parts, logistics, etc.

Starting with corrective maintenance only, we progress to inspection and preventive maintenance to optimize the value of the service program.

Continuous improvements

A continuous improvement program starts immediately after implemen-

tation and continues throughout the life of a service contract.

The bottom line

ToolScan RCM is a proven method of rationalizing and optimizing maintenance costs. It assures quality in your assembly operations, reducing downtime, reworking, and warranty costs.

Did you know that...

- Atlas Copco has Customer Centers throughout the world to handle your service and calibration needs.
- Atlas Copco offers consultancy in RCM (Reliability-Centered Maintenance) to help you optimize your service needs.
- Atlas Copco has accredited laboratories throughout the world.
- Atlas Copco has more than 350 service engineers globally.
- Atlas Copco has more than 200 on-site service agreements.
- Atlas Copco offers professional customer training programs.

Tuned to perfection

Fully orchestrated service from Atlas Copco



To maintain the highest standard of quality in your assembly operation, you need reliable tools that perform efficiently at all times. We offer tailor-made and standard solutions depending on the size and type of your operation.

Full Coverage Service Agreements

Our full coverage option covers all your needs. It even includes corrective maintenance. You delegate all service of your new tools to Atlas Copco at a fixed cost. Repairs required during the contracted period will be free of charge, unless the tool has been misused.

Preventive Maintenance Agreements

Our standard preventive maintenance program. Atlas Copco will maintain your equipment in peak condition for a specified number of years at a fixed cost, with full documentation.

Fixed Price Repairs

A fixed price repair program that ensures faster turn-arounds and cuts administration costs at every level. Combined with our Service Box concept, it results in further reductions in administration and handling costs.

ToolScan™

Identify problems before they occur. Ask for Tool-Scan™ and an experienced Atlas Copco service engineer will check the status of your tools on-site for a fixed price. A full report of the findings on each tool is provided after every ToolScan™.

Calibration Services

Let us handle your tool and equipment calibration. We have experienced personnel, state-of-the-art equipment, and accredited calibration laboratories operating in compliance with ISO 17025 standards.

ToolStart

We offer tool installation and start-up by qualified Atlas Copco engineers at a fixed price. The service also includes: Programming, test running, and operator training.

Training

Atlas Copco offers a wide range of training and seminar programs relating to tools, systems and software. Courses start with a theoretical platform, and lead to instruction on practical implementation in your business.

For more information about these services, please contact your Atlas Copco Service sales representative.

Our Service Box concept cuts administration and handling costs.

