



LCS | Life Cycle Services

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Scheduled
Inspections

1**Scheduled Inspections****2****Shutdown and Wear Parts Optimization****3****Shutdown and Process Optimization****4****Maintenance and Process Optimization**

Life Cycle Services Contracts

Life Cycle Services (LCS) take the entire range of services Metso provides and conveniently bundles them into customizable, easily manageable packages, ranging from the basics to more complete solutions, depending on the scale of your needs. Our packages are equipped to cover a single-event shutdown or span multiple years, measured against strict key performance indicators (KPI).

The challenge: It's all about peace of mind.

Your profitability and cash flow depend on minimal downtime, predictable costs and production running smoothly. As equipment develops wear and tear, disruptions and significant unplanned repair costs can begin to add up.

With many types of equipment in your comminution circuit, the challenges are plenty. It's important to continuously refine your maintenance plans based on the actual condition of all your key assets, identify issues early, plan future interventions and make sure spare parts are ready when you need them.

The solution: Scheduled Inspections

Helping you map out a preventive maintenance plan that works.

LCS Scheduled Inspections solutions give you an optimized maintenance plan, in order to minimize costs and ensure that reliability isn't compromised. You'll work together with one supplier to determine which of your equipment will benefit from inspections for preventive maintenance on a regular basis. Each inspection allows for early identification of issues and helps you prevent major equipment failure, significant production outages, critical parts damage and unplanned costs.

With us, you get a partner with specialized equipment expertise. Our trained service technicians help you spot and solve problems early, reducing their chances of coming up again in the future, and assist with parts planning. All this is backed by commercial terms and payment plans that work for you. Our package gives you:

- 1. Scheduled equipment inspections, plus parts and maintenance recommendations**
- 2. Our Equipment Protection Plan (EPP) on applicable new equipment**

What we do: Catch issues early and prevent downtime.

- Schedule inspections with our trained and certified technicians
- Provide detailed reports identifying equipment condition following inspection

- Plan and assist on future interventions
- Make recommendations outlining maintenance actions and strategies that need to be taken, including extending or reducing maintenance intervals
- Make required repairs using spares designed for your machine or identify problems
- Give guidance on planned inventory levels for key spare parts

Extra features:

- Our Equipment Protection Plan, which extends the warranty on the main components of newly purchased capital equipment. (Please note: EPP is only available when you have Scheduled Inspections in place, and our maintenance and parts recommendations have been implemented.)



Benefits

Core benefit: Support from a supplier with specialized equipment expertise

Our job is to help you rest easy knowing that, together, we've put a plan in place to find and correct maintenance problems before they become major issues, and minimize surprises. That way, you'll know your machines are running at optimal levels. With our comminution equipment expertise complementing your operational knowledge, you can be assured that you'll have an equipment inspection plan that works for you. You'll also get:

- **Zero compromise on safety:** Our utmost priority, plain and simple. Better preparation and planning, as well as access to the correct tools reduces safety risks when equipment is being inspected and serviced. Our philosophy is that planned work is safe work.

- **Lowest sustainable cost:** No matter how you slice it, unexpected equipment failures hit hard, resulting in higher maintenance costs and lost production. Scheduled Inspections with EPPs help limit costs if things go wrong by spotting service issues early and covering the repair or replacement costs of critical spare parts. All in all, you can better plan and control your costs.

- **Improved reliability:** Metso certified inspectors use standardized global procedures, checklists and tools, ensuring you get the same level of quality at your mine sites and plants across the world. The use of Metso genuine parts in our equipment also ensures your machines run at the highest efficiency and reliability levels.

LCS Packages	Package 1	Package 2	Package 3	Package 4	Customized Package
LCS Service Offerings	Scheduled Inspections (and EPP)	Shutdown and Wear Parts Optimization	Shutdown and Process Optimization	Maintenance and Process Optimization	Custom Selections (Mix and Match)
Wears and Spares					
· Preliminary Diagnostics and Baseline Studies	X	X	X	X	Yes
· Inspections and Equipment Protection Plan (EPP)	X	X	X	X	Yes
· Inventory Optimization	Recommended	X	X	X	Yes
· Wears Consignment Inventory	Recommended	X	X	X	Yes
· Spares Consignment Inventory	Recommended	X	X	X	Yes
· Liner Profile Optimization		X	X	X	Yes
· Wear Component Analysis		X	X	X	Yes
· Wear Component Replacement Labour		X	X	X	Yes
· Spare Component Replacement Labour		X	X	X	Yes
· Health, Safety and Environment (HSE) Planning		X	X	X	Yes
Shutdown Improvements					
· Shutdown Planning		X	X	X	Yes
· Shutdown Optimization by SMED Analysis		X	X	X	Yes
· Shutdown Guarantee		X	X	X	Yes
· Metso Special Tooling		X	X	X	Yes
Process Optimization					
· Commintution Optimization		Recommended	X	X	Yes
· Condition Analysis (Acoustic Mill Condition Monitoring)			X	X	Yes
· Process Integration and Optimization (PIO)			X	X	Yes
· Control Performance using Plant Triage Software			X	X	Yes
· Ore Characterization (Using SmartTag)			X	X	Yes
· Geometallurgical Modelling (Using GeoMetso)			X	X	Yes
Maintenance and Training Offers					
· Metso Maintenance Solution (customized CMMS)			Recommended	X	Yes
· CMMS FRACAS Reliability Studies				X	Yes
· Maintenance Planning				X	Yes
· Equipment Documentation Library				X	Yes
· Equipment Performance Report				X	Yes
· Overall Equipment Effectiveness Reporting				X	Yes
· Plant Maintainability (Plant Design) Review				X	Yes
· Root Cause Analysis (RCA)				X	Yes
· Criticality Analysis Report (CA)				X	Yes
· Reliability Event Model Analysis				X	Yes
· Vibration Analysis				X	Yes
· Lubricant Condition Monitoring				X	Yes
· Lubrication Labour				X	Yes
· LCS Training Plans					Yes
Financial and Costing Programs					
· Fixed Monthly Fee Payments	Recommended	Recommended	Recommended		Yes
· Cost Per Ton Payment Plan				Recommended	Yes
· Key Performance Indicators (KPI) Reporting				Recommended	Yes
· Total Cost of Ownership Reporting				Recommended	Yes
· Payment Deferral Plan					Yes



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Why Metso?

As a manufacturer of comminution equipment, replacement parts and wear parts, and—most importantly—as a provider of services, only Metso offers you a single package covering the build, operation and maintenance of mining equipment. Each LCS package is backed by commercial terms and services aligned to your needs. Our people, knowledge and solutions, coupled with experience gained through thousands of global shutdowns, ensure you only the best results. **This is our guarantee to you.**