



LCS
Aggregates

**Life Cycle
Services**

3

Maintenance and
Optimization



1

**Equipment Support
Service**

2

**Maintenance
Service**

3

**Maintenance and
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 programs, ranging from the basics to more complete solutions, depending on the scale of your needs. Our programs are designed to cover everything from scheduled inspections to complex process optimization efforts spanning multiple years and measured against strict performance indicators.

The challenge: It's all about sustainable performance.

Wear components never stop undergoing changes as they endure the rigours of daily production. With feed quality and required production volumes often varying, consistently producing quality aggregate can feel like a constant battle. The only way to win is by properly determining how your equipment configuration, wear parts condition, changing feed material characteristics and controls setup interact with your process.

The solution: Maintenance and Optimization

Helping you achieve a consistent supply of aggregate.

An LCS Maintenance and Optimization solution combines your operations knowledge with equipment and process expertise from a trustworthy partner, maximizing your high-quality end product and minimizing the resources needed to reach your goals.

Even small changes to your process can significantly impact your entire production—volumes, quality and sustainability among others. Access to our simulation tools, crusher profiling services and liner wear rate optimization, however, allows you to achieve continuous improvement. As well, you'll receive Metso's expertise in flowsheet design and equipment selection, helping you find the right equipment for every application. Our goals are twofold: optimize your crushing and improve your process workflow without compromising safety.

Backed by commercial terms and payment plans that work for you, this program gives you:

- 1. Scheduled equipment inspections and extended warranty coverage on applicable equipment**
- 2. Metso Metrics, a remote monitoring and reporting tool**
- 3. Preventive maintenance, corrective maintenance and maintenance planning**
- 4. Wear and spare parts supply and guaranteed lead times**
- 5. Metso Maintenance Solution, a customized Computerized Maintenance Management System (CMMS)**
- 6. Wear and spare component replacement labour and consignment inventory**
- 7. Liner wear rate and crusher optimization**
- 8. Key performance indicator monitoring**

What we do: Improve your process, leaving no stone unturned

- Analyze equipment on-site over several days and provide data benchmarked with work from thousands of global sites
- Examine production flow from crushers, screens and conveyors for improvement areas
- Provide recommendations for optimizing wear parts, feed rates, conveyor setup and screen performance to ensure major production and quality gains
- Implement chamber optimization with our specialists to take your crusher to the next level
- Control parameter optimization, ensuring that your crusher process is optimized for your goals



Extra features:

- Metso and its partners offer customized rental and leasing programs to help you manage your capital assets, as well as payment plans built to follow your production revenues.
- Manage your cash flow better with either fixed monthly payments or Cost Per Ton payments, which charge solely based on your production levels, to ensure both your goals and ours are aligned for maximum production.

Benefits

Core benefit: Optimized production and end product quality

Higher quality aggregates mean higher profitability for your operations. The key to getting there is by optimizing your crushing and process workflows to ensure quality aggregate is being produced. Metso's experts, along with its network partners, can help you optimize the size and shape of your end product to ensure the success of your production plan.

• **Improved resource efficiency:** Our approach is three-fold. We optimize your process to reduce unwanted product produced through excessive crushing, configure your crusher to minimize power spikes and save on energy consumption, and—with the

world facing a global shortage of trained equipment operators—use our trainers and experts to bridge the gap with customized training programs, maximizing your crew's effectiveness.

• **Lowest sustainable cost:** Our customized maintenance management solution, combined with effective inventory planning, can help you decrease capital costs and avoid downtime caused by unexpected equipment failure.

• **Optimized cash flow:** Working with our partners, we help spread out the cost of your equipment and help you align costs with your revenues, so you can count on positive cash flows and a quick payback on your asset investments.

Aggregates LCS Programs	EPS	Program 1	Program 2	Program 3
LCS Service Offerings	Equipment Protection Services	Equipment Support Service	Maintenance Service	Maintenance & Optimization
Supply Chain Management and Maintenance				
· Scheduled inspections	X	X	X	X
· Extended warranty coverage	X	X	X	X
· Metso Metrics (monitoring & reporting)	X	X	X	X
· Wear and spare parts supply		X	X	X
· Delivery plan for wear and spare parts		X	X	X
· Wears & spares consignment inventory			X	X
· Maintenance planning			X	X
· Preventive maintenance labour			X	X
· Wear component replacement labour			X	X
· Spare component replacement labour				X
· Metso Maintenance Solution (customized CMMS)				X
· Corrective maintenance				X
Process Optimization				
· Liner wear rate optimization				X
· Crusher performance optimization				X
· Plant optimization				X
· Key Performance Indicators (KPI) monitoring				X
Financial and Costing Programs				
· One time payment	X			
· Fixed monthly fee	X	X	X	X
· Equipment financing		X	X	X
· Cost per ton payment plan			X	X

Select any combination of above listed LCS Service Offerings and build a custom program that better fits your needs.

LCS Purposes and Benefits	Equipment Protection Services	Equipment Support Service	Maintenance Service	Maintenance & Optimization
Purpose	Extended warranty	Proactive care of assets	Managing assets maintenance	Optimizing process/operation performance
Main Benefits	<ul style="list-style-type: none"> Reduced cost of major component failure Enhanced resale value of equipment 	<ul style="list-style-type: none"> Lower spare & wear parts costs Guaranteed delivery times 	<ul style="list-style-type: none"> Reliability Reduced inventory costs Lower maintenance costs + all mentioned in Program 1 	<ul style="list-style-type: none"> Sustainable high-performance + all mentioned in Program 1 & 2
With Financing Options	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Optimized cash flow Financial flexibility 	<ul style="list-style-type: none"> Optimized cash flow Financial flexibility 	<ul style="list-style-type: none"> Optimized cash flow Financial flexibility



Why Metso?

As a manufacturer of crushing and screening equipment, replacement and wear parts, and—most importantly—as a provider of services, only Metso offers you a single program covering the build, operation and maintenance of aggregates equipment. Each LCS program is backed by commercial terms and performance indicators aligned to your needs. Our people, knowledge and solutions, coupled with experience gained through thousands of plants and quarries worldwide, ensure you only the best results. **This is our guarantee to you.**