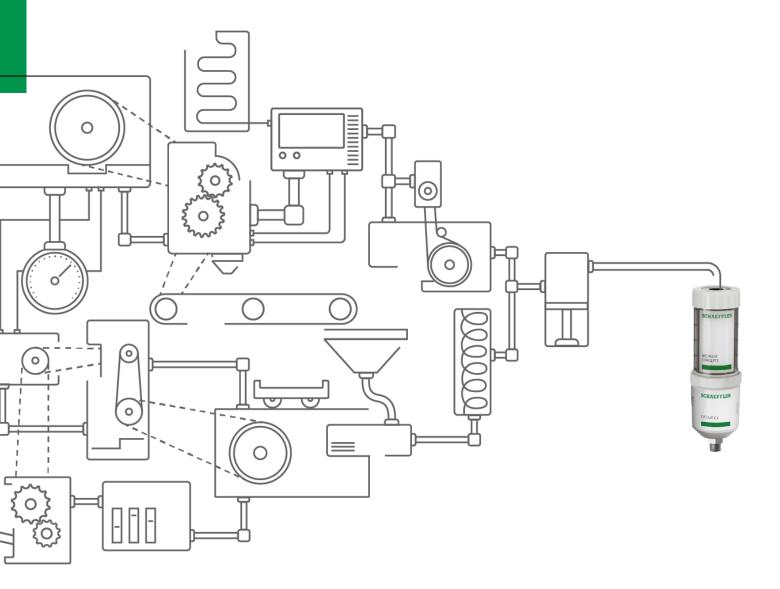
SCHAEFFLER

OPTIME C1 The world's first smart lubricator







Manually managing lubrication across a production line, factory hall or plant can involve extensive busywork and take employees away from other important tasks.

But this work has been necessary, as downtime induced by a lack of machine lubrication is both common and expensive, putting valuable machines at risk of damage.

With so many components needing to be checked, and so many different cartridge replacements for automatic lubricators required, this job necessitated almost full-time monitoring – until now!



We are proud to present the world's first smart lubricator, that works to streamline lubrication management via alerts from a mobile app or web-based dashboard. Our OPTIME philosophy revolves around three key pillars:



Transparency

Allowing your maintenance team to monitor the condition of all lubrication points, whether on-site, in the office, at home, or even on the other side of the world.



Simplicity

Plug-and-play functionality means that all the guesswork is taken out of installation and operation. You pick it up, you bolt it on, and when you get an alert, you replace the lubrication cartridge. Simple and scalable!



Uptime

Lubrication avoids dreaded production line downtime and helps you fulfil orders and keep things moving with as little manual work as possible. Work smart, not hard!



Customer Success Story: Westerwälder Elektro Osmose

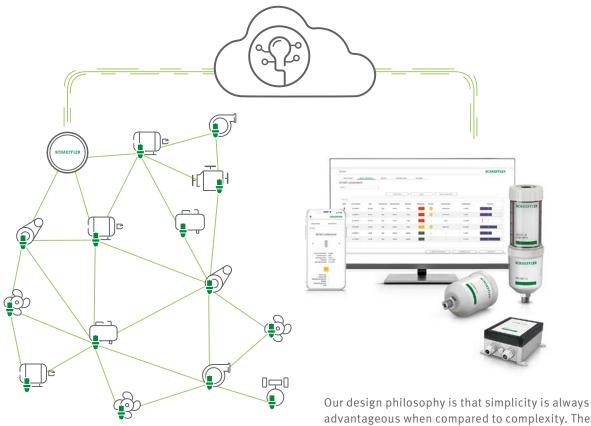
Founded in 1916, Westerwälder Elektro Osmose is a manufacturer of highquality ceramic products for buildings as well as vitrified clay pipes for the water and wastewater industry.

Our work with this customer enabled them to avoid mill failures, which have a cost of 47,000 EUR, all in a factory environment where components operate up to 1,200°C.

The smart functionality in the device will simply warn you of any impending lubrication shortage, saving you time and money. "When I open the app and see that everything is running smoothly, it gives me peace of mind."

> **Peter Hannappel** Maintenance Manager at Westerwälder Elektro Osmose

So how does it work?



Our design philosophy is that simplicity is always advantageous when compared to complexity. The fewer components, the better the quality, the better the value proposition, and the better the final product.

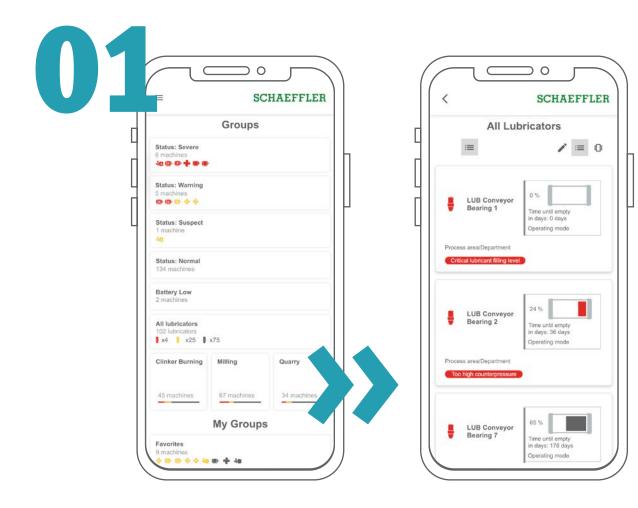
Challenge? Accepted.

It can sometimes be hard to imagine how a product like OPTIME C1 could fit into your workflow, so we've put together three common challenges that our award-winning solution can help with:



You have hundreds of lubrication points that need constant monitoring

Instead of directing your maintenance team to conduct daily or weekly checks on lubrication status, you can connect OPTIME to the IIoT and get component status and fill level information, automatic alarms in the event of malfunction, and more, all at the touch of a button.



Group View

Clear groups for all your machines and lubrication points. So you can make sure that you keep an eye on all your lubrication points.

List view of group "All lubricators"

Within the groups, all lubrication points are sorted by urgency. This ensures that you always know which lubricator needs your attention next. Easy to understand information such as critical lubricant filling level and high temperature or pressure. In this way, you immediately know what the problem is so you can take the right measures straight away.

Your maintenance team are unsure of which lubricant cartridge to use

Take manual errors out of your lubrication workflow. OPTIME C1, with its intuitive screw-on functionality, goes above and beyond, with its design preventing incorrect cartridges from both being installed and dispensing lubricant – stopping expensive damage.

<		SC	HAEFFLER
	Fit lubrican	t cartri	dge
Scan	the DMC/QR code of the le serial nu		tridge to obtain it
	60) 03) sc/	AN QR CODI	E
	GTIN-13/EAN-13 code	4054372563	3836
	Material designation	ARCALUB- LOAD220	C1-125-
	Material number	095248870	-0000-10
	Lubricant type	ARCANOL	hour(s)
	Cartridge volume	125 cc	inour(o)
	Outlet 0 s	settings	day(s)
Lubrica 125	nt quantity ccm • /	Time span 12	month(s)
-	3/10 Pump cycle interval: 1 da	v 10 hours 3	2/10 3 minutes
			in mater
	Gas releas	e setting	
12.0			×
Adjust accord	the gas release setting on lingly	the lubricar	nt cartridge
	Write new cartridge	o sotting	by NEC
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Replace lubricant cartridge

Assisted input of lubrication parameters, lubricant quantity and time period. So you make sure that you set up all your lubricators correctly.

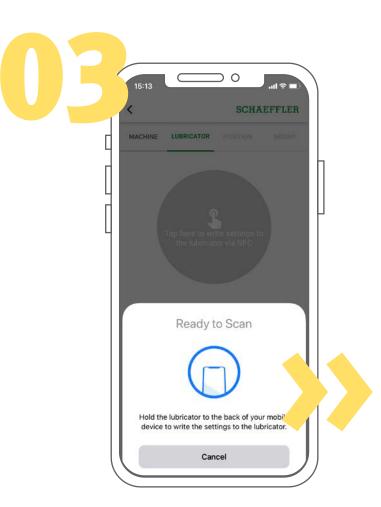


Scan QR code

Scan the QR code on the cartridge, ensuring that you use the right lubricant at the right lubrication point.

You want to get started, but don't know how

We have designed OPTIME C1 to be as easy to install as possible, with plug-and-play functionality that allows for seamless scalability and doesn't require excessive worker training. And remember, all this lubrication management saves on the need for excessive expenditure on expensive new bearings, helping your profit margins.



Provisioning lubricator

A simple NFC scan of the OPTIME C1 activates and configures it. This ensures that you can save your resources for more important tasks.

Feature rich, cost efficient

Product specifications

Description		Value	Unit	
Function OPTIM	E C1			
Drive system		Electro-mechanical	_	
Operating press	ure	<10	bar	
Metering volume	e per lubrication interval	0.5	cm³	
Metering volume (dependent on s	e per day ize and setting of CONCEPT1)	0.17 up to 8.3	cm³	
Commissioning		NFC	_	
Lubricator CONC	CEPT1			
Dispensing time (steplessly adjustable)		1 up to 12	months	
Lubricant volum	е	60 or 125	cm³	
	< NLGI 2	_		
	Oil	> 68	cSt	
Communication				
Wirepas Mesh (ISM band)		2.4	GHz	
Range with line of sight		100	m	
Electrical charad	cteristics			
Power supply (b	attery pack)	6	V	
		2.3	Ah	

Here is a summary of our key features at a glance:

- Status and fill level information available via the OPTIME app or desktop dashboard
- Automatic alarm notification in the case of an adverse event
- Simple installation and maintenance
- Ability to adjust each lubricator individually
- Optimized maintenance and routing
- Pressure allowance of up to 10 bar
- Rapid and easy screw-on cartridge replacement
- User guidance available in several languages

Description		Value	Unit	
Other characteristics				
Mounting position		As required	_	
Threaded connector		G1⁄4	_	
Housing material		PET	_	
Mass		= 0.25	kg	
Warranty and operating life	Duration	2	years	
	Number of emptying operations	10	_	
Packing unit		10	pieces	
Ambient conditions				
Protection class		IP68	_	
Operating temperature		– 10 up to + 55	٥C	
Storage (protect from direct sunlight, store in a dry place)	Temperature (recommended)	+20±5	°C	
	Humidity	<65	%	
Certificates				
CE Radio Equipment Directiv	ve 2014/53/EU	_	-	

Technical data gateway

Description		Value	Unit	
Communication				
Wirepas Mesh (ISM band)		2.4	GHz	
2G, LTE CAT M1 (additional options w	rith installed local LTE stick)	_	-	
WLAN		2.4	GHz	
Ethernet RJ45		_	_	
SIM card format		Micro SIM (3FF)	-	
Electrical characteris	stics			
Power consumption		30	VA	
Power supply AC		85 up to 264	V	
Frequency		47 up to 440	Hz	
Ambient conditions				
Protection class		IP66	_	
Operating temperature		-20 up to +50	°C	
Storage	Temperature	-40 up to +85	٥C	
	Humidity	20 up to 90	%	
Dimensions, mass				
		180	mm	
Length		180 130	mm	
Length Width				
Dimensions, mass Length Width Height Mass		130	mm	
Length Width Height		130 81	mm	

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1000	Hall 1 215 assets	Hall 2 120 assets	Hall 3 310 assets				
OPTIME 5	Motor 245 assets	Pumps 178 assets	+ ADD GROUP				
SCHAEFFI		•			 CHAF	FFLER	
SCHAEFFLER OPTIME 3							1
							1

A proud member of the OPTIME family

OPTIME C1 is a proud member of the wider award-winning OPTIME product range, which offers a variety of cost-effective condition monitoring solutions.

www.schaeffler.com/optime

Schaeffler Technologies AG & Co. KG

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