

EZ-SAM

Battery-operated oil sampling pump, 38 mm, belt clip, charger



Accurate oil analysis depends entirely on the quality of the sample. The EZ-SAM removes the guesswork from oil sampling by delivering a controlled, repeatable, and contamination-free result every single time, whether you are on the factory floor, in the field, or servicing remote assets. It is the professional tool that turns a routine task into a precision process.

The problem with traditional oil sampling

Manual oil sampling remains widespread in industry, yet it introduces avoidable inconsistencies that undermine the value of your entire oil analysis programme. Different operators, varying suction techniques, and exposure to airborne contamination all contribute to unreliable results. For organisations managing multiple sites or assets, these inconsistencies make meaningful trend analysis almost impossible.

<p>Inconsistent vacuum</p> <p>Manual pumps vary in suction force, leading to differing sample volumes and conditions between technicians.</p>	<p>Contamination risk</p> <p>Open sampling exposes the bottle and tube to airborne particles, moisture, and debris.</p>
<p>Poor repeatability</p> <p>Without a standardised method, comparing samples across time or locations is unreliable.</p>	<p>Wasted laboratory spend</p> <p>Contaminated or poorly drawn samples lead to incorrect diagnoses and unnecessary maintenance actions.</p>

Key features

<p>Motorised vacuum system</p> <p>Consistent, controlled suction every time, eliminating operator-dependent variation.</p>	<p>One-button operation</p> <p>Intuitive single-button control means minimal training and fast deployment across teams.</p>	<p>Adjustable flow control</p> <p>Handles low- and high-viscosity lubricants from 1 cSt to over 680 cSt with ease.</p>
<p>Closed sampling system</p> <p>Fully sealed process prevents airborne particles or moisture from entering the sample bottle.</p>	<p>Rechargeable battery</p> <p>Up to 3 hours of continuous use. No power cable, no compromise, field-ready from the moment you need it.</p>	<p>Ergonomic, portable build</p> <p>At just 700 g with a built-in belt clip, it travels with you through any inspection round.</p>

How it works

- 1. Connect to the sampling point**

Attach the sampling tube to the asset's sampling port and connect the other end to the EZ-SAM and a standard 38 mm sample bottle.
- 2. Press the button**

One press activates the motorised vacuum. The pump draws oil gently and consistently into the sample bottle without disturbing the lubrication environment.
- 3. Adjust the flow as needed**

The flow control valve lets you fine-tune the suction speed to suit the viscosity of the oil, from thin hydraulic fluids to heavy gear oils.
- 4. Seal and dispatch the sample**

Remove the sealed bottle and send it directly to your laboratory. The controlled process ensures the sample is a true representation of the oil inside the machine.

Benefits for your maintenance programme

<p>Consistent sample quality</p> <p>Removes operator variability and delivers the same conditions for every sample, every time.</p>	<p>More accurate oil analysis</p> <p>Cleaner, representative samples give laboratories the data they need for precise condition monitoring.</p>	<p>Faster inspection rounds</p> <p>Efficient sampling across large industrial sites with no dependency on external power sources.</p>
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<p>Reduced contamination risk</p> <p>The sealed vacuum system keeps dust, dirt, and airborne particles out of the sample at all times.</p>	<p>Reliable trend data</p> <p>Consistent sampling builds a dependable dataset for long-term lubricant health and wear monitoring.</p>	<p>Site-wide standardisation</p> <p>Use the same tool and process across multiple locations for comparable, centralised analysis data.</p>
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Technical specifications

Dimensions	216 mm x 67.5 mm x 243 mm (W x D x H)
Weight	700 g / 875 g (including battery)
Power supply	Rechargeable battery (removable)
Charging input	12.6 VDC 1A (input: 100 to 240 V)
Battery capacity	2500 mAh
Charging time	Under 3.5 hours from full discharge
Battery life	3 hours continuous use (no load)
Operating temperature	Ambient: max. 75°C
Applicable viscosity	1 cSt to over 680 cSt (oil temperature dependent)
Pumping capacity	100 ml in 2 to 4 seconds at 32 cSt @40°C
Bottle neck size	Ø 38 mm (other sizes via adapter)
Tube connection	Outer diameter Ø 8 to 10 mm
Body material	ABS
Bottle joint material	PA6
Operation	Single-button activation with adjustable flow control valve

Typical applications

The EZ-SAM is trusted across a wide range of industries where lubrication reliability and machine uptime directly affect safety, productivity, and profitability.

Industrial manufacturing plants	Mining and heavy industry	Hydraulic and lubrication systems
Gearboxes and rotating equipment	Power generation facilities	Marine and offshore operations
Steel and cement production	Paper and pulp mills	Transport + heavy equipment fleets

Compatible accessories

- Oil sampling bottle 100 ml
PP, 38 mm neck, box of 25. Standard laboratory-grade sample bottle.
- Oil sampling bottle 250 ml
PP, 38 mm neck, box of 25. For larger volume or extended analysis.
- Spare battery 12 V
- Replacement battery for the EZ-SAM. Extend runtime across long inspection rounds.

Frequently asked questions

Why does contamination-free sampling matter so much?

Even a small amount of external contamination can distort laboratory results, leading to misdiagnosis of machine wear, missed early warning signs of failure, and costly unnecessary maintenance. The sample must accurately reflect the real condition of the lubricant and the machine it protects.

How does the EZ-SAM improve my existing oil analysis programme?

By standardising the sampling process with consistent vacuum pressure and a sealed system, the EZ-SAM removes human error from the equation. Every sample is drawn under the same conditions, which makes trend monitoring across time and across sites far more reliable and meaningful.

Is the EZ-SAM suitable for high-viscosity oils?

Yes. The adjustable flow control valve allows the pump to handle lubricants from 1 cSt all the way to over 680 cSt, making it suitable for hydraulic oils, gear oils, and most industrial lubricants.

Can I use it in remote or hard-to-reach locations?

Absolutely. The rechargeable battery provides up to 3 hours of continuous use, and the lightweight ergonomic design with belt clip means your technician can carry it hands-free through any inspection route, with no need for a power outlet.

What bottle size does the EZ-SAM support?

The EZ-SAM is designed for standard 38 mm neck sample bottles. Both 100 ml and 250 ml PP bottles are available as compatible accessories. Other bottle sizes can be accommodated with a separate adapter.

Oil analysis is only as good as the sample collected. By removing the variables of manual technique, the EZ-SAM ensures that every sample sent to the laboratory is a true picture of the machine's health. That is the foundation of credible predictive maintenance.