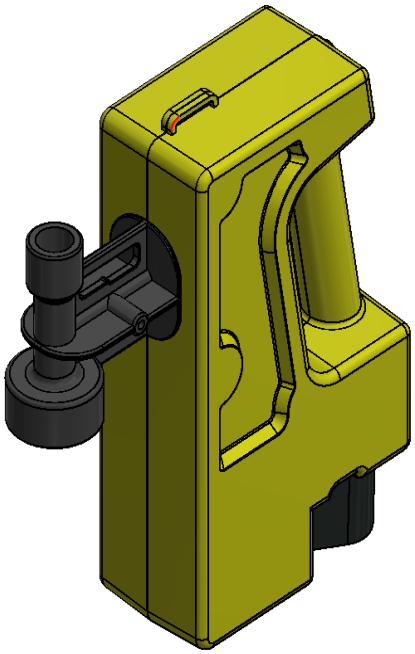
Easy-SAM

Motorized Oil Sampling Hand Pump



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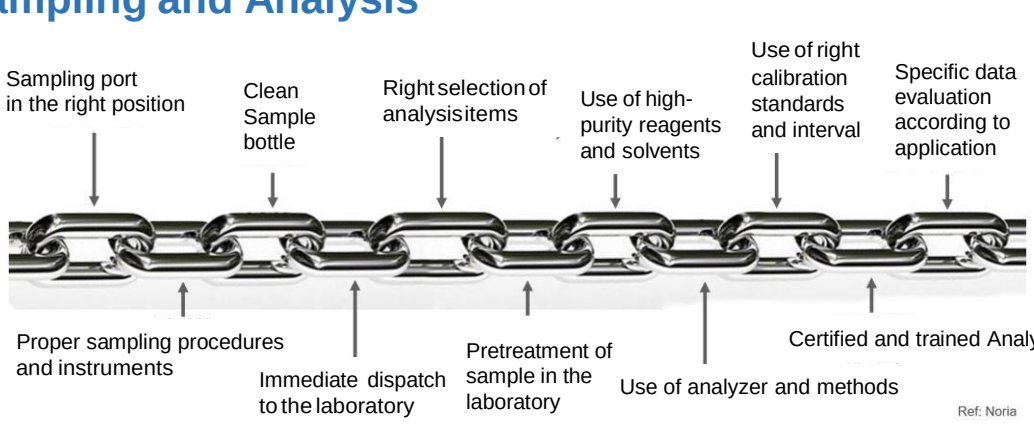
Oil Sampling and Analysis



For successful oil analysis and diagnosis, above mentioned 11 processes must secure reliability.
Correct Oil sampling is **one of** the **most important** step in **an effective used** oil analysis pro**gram**.

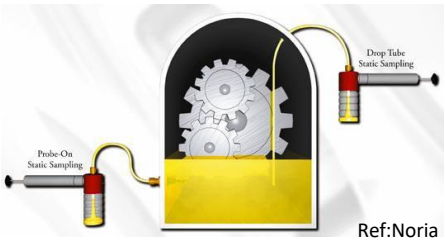
For right sampling, user must pay attention to the followings.

- Sampling Location : Location, Quantity (representativeness, uniformity)
- Sampling Procedure : Make standardization so that all team members do the same sampling work at any time
- Sampling Device : It should not disturb the quality of the sample, and it should be easy to use, safe, clean and economical.
- ◌Sampling Bottle : Shape and cleanliness are very important.
- ◌Sampling must be done during operation or if unsafe, within 10 to 15 minutes after equipment shutdown to achieve representative sample.

Sampling must be done quickly and safely according to the prescribed procedure at proper location on site. The sampling method can be classified into two categories, i.e., vacuum suction method and a method of collecting from a valve or port as shown in the photos below.

1. Vacuum Suction Method

Collecting oil sample by using vacuum pump. This method prevents contamination of oil sample if hose is sufficiently flushed before sampling.



2. Valve / Port Sampling Method

Collecting oil sample from valves (general valves and minimess, etc.) or ports by touching the sample bottle to the valve (port) or attaching a tube to the minimess if there is a certain pressure. Disadvantage of this method is that contaminants on the valve or port may flow into the oil sample and it reduces the reliability of analysis results. In case of collecting from minimess, contamination can be prevented to some extent.

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Advantages of Electric Motor Driven Sampling Pump

[Electric Motor Driven Sampling Pump -MOAP]

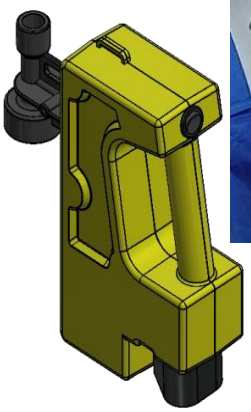
VS

[Manual Hand Sampling Pump]

Battery Electric Driven Vacuum Pump	Pump Drive	Manual Hand Piston Pump
Fast	Sampling Speed	Slow
Possible by using integrated speed control valve	Adjustment of Sampling Speed	Difficult
Sampling posture is stable.	Stability	Sampling posture is unstable with force in both hands.
Possible by using high-performance vibrating vacuum pump	Collection of High Viscosity Oil Sample	Difficulty with high viscosity oil due to the structure of the piston pump (Pump damage)
Low stamina consumption even when collecting for a long time	Usability	High stamina consumption when collecting for a long time

Features and Advantages

- Oil extraction into the sample bottle by integrated vacuum pump driven by electric motor
- Convenient and easy sampling compared to manual type
- Robust. One-handed grip
- Adopted clamping spec for clean vacuum standard sample bottles
- One-touch operating switch
- Sampling speed can be adjusted by integrated speed control valve
- Samples can be collected without external contamination
- Stable carriage and collection with shoulder strap (Optional)
- Replaceable / Rechargable battery



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Motorized Oil Sampling Hand Pump

Motor Driven Oil Sampling Pump for Laboratory Use

Example of Laboratory patch maker use

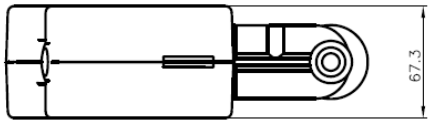
Item	Patch maker	Min
Patch maker	Standard Patch maker	18
	Patch maker with Easy-SAM	27

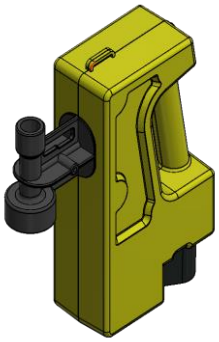
Ordering Part Number	E**asy**-SAM Including, Easy-SAM Body 1ea Battery 1ea Battery Charger 1ea Strap 1ea

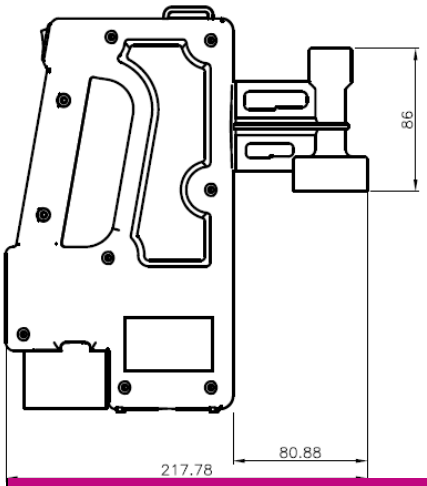
Easy-SAM

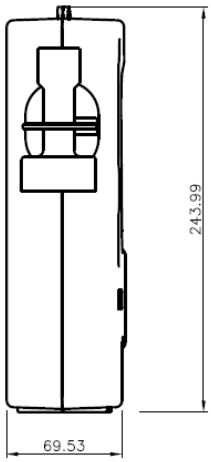
Motorized Oil Sampling Hand Pump

Specifications









Composition

■ Basic Components

- Pump Body 1 pc
- Rechargeable Battery (for initial installation) 1pc
- Transparent Hose Ø8(mm) 500mm 1 pc
- Battery Charger (100V~220V) 1 pc

■ Additional components (Optional)

- Super Clean Sample Bottle (150ml, 500ml)
- Rechargeable Battery
- Adaptor for Sample Bottle Neck
  (Standard Ø38(mm), and others)
- Shoulder Strap

Item	Specification
Size	(W) 216 mm x (D) 67.5 mm x (H) 243 mm
Weight	700g / 875g (including battery)
Power	Rechargeable Battery (Removable)
Charging input power	12.6 VDC 1A (Input Power : 100~240V)
Capacity	2500 mAh
Charging hours	Below 3.5 hours, in case that battery was fully discharged
Battery Life	3 hours (Continuous use under no load)
Operating Temperature (℃)	Ambient: 75℃ Fluid : Non-contact, variable depending on the sample bottle
Applicable Viscosity (cSt)	1 cSt ~ above 680cSt (However, it is variable depending on the oil temperature, etc.)
Pumping Capacity	100 ml / 2~4 sec at 32cSt @40℃ (Different depending on the viscosity and temperature of the fluid.)
Neck size of the bottle to be assembled	Ø38(mm) (Other sizes require a separate adapter)
Tube Mounting Specifications	OD Ø8 ~ Ø10 mm
Material	Body : ABS Bottle Joint : PA6

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