

Automatic Sample Processor



Benefits

- ▶ Automatic/unattended sample analysis
- ▶ No sample preparation
- ▶ Automatic re-suspension of settled particles
- ▶ Negligible carryover
- ▶ Maximum sample throughput; processing time depends on sample characteristics
- ▶ Low solvent consumption
- ▶ Low operating cost per sample

Features

- ▶ Specifically designed for the LNF
- ▶ Automatic reversing stirrer
- ▶ Two-stage wash system uses focused spray jets
- ▶ Artificial intelligence monitors complete sample process routine
- ▶ Quick disconnect/shutoff for solvent supply and drainline
- ▶ Works with standard, readily available sample bottles
- ▶ Uses inexpensive solvents

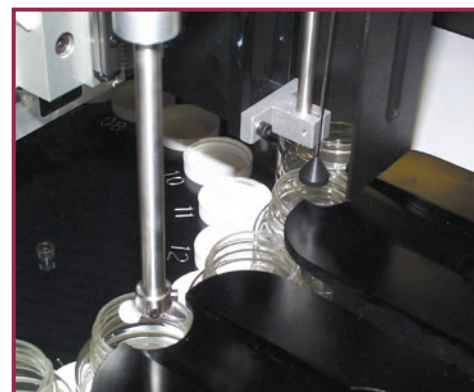
"Automatic Sample Processor designed for automatic and unattended sample analysis by LaserNet Fines Particle Shape Classifier and Particle Counter"

Application

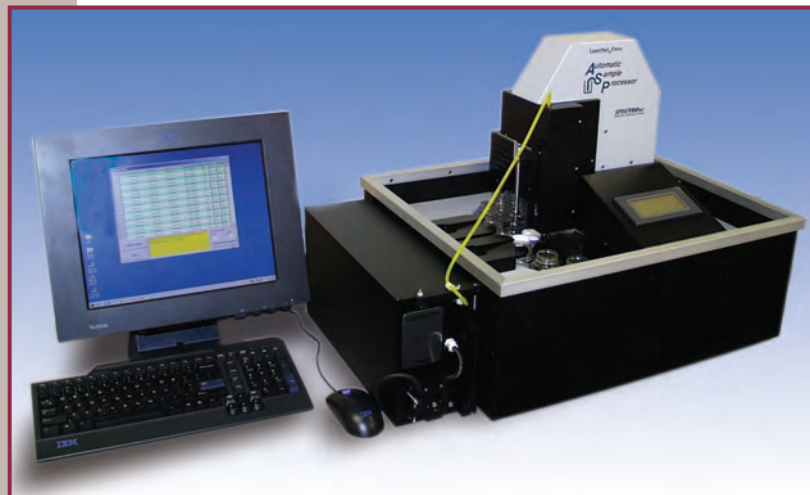
The ASP is a self-contained sample changer and processor designed specifically for use with the LaserNet Fines particle shape classifier and particle counter. It provides the user with automatic and unattended processing of 24 used oil or hydraulic fluid samples.

Operation of ASP

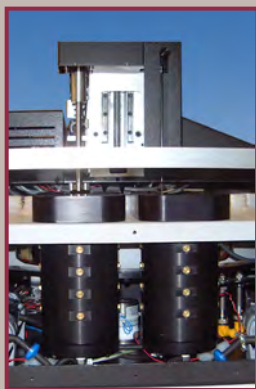
The ASP features a reversing paddle that stirs each sample to provide a homogeneous particle distribution. While the LNF analyzes a sample, the ASP stirs the next one. A peristaltic pump draws the sample through the sipper of the ASP to the LNF. After processing, a robot elevates the sample sipper and sample stirrer from their respective sample bottles and lowers them into spray chambers for cleaning. Rinse solvent, interspersed with air gaps, is also pumped through the sipper, LNF tubing and the LNF flow cell to wash away traces of the previous sample. The procedure is repeated until up to 24 samples are analyzed and processed. Sensors monitor the complete process, step by step, and shut down the system if an error occurs.



*ASP connected to
LaserNet Fines-C.*



Specifications



*Wash baths use 20 spray
jets to thoroughly clean
sample stirrer and sample
sipper.*

- ▶ Capability: Automatic analysis of 24 samples
- ▶ Sample Processing Time: 3 to 5 minutes per sample (depending on viscosity and contamination)
- ▶ Control Panel: Touch screen
- ▶ Cleaning Process: Dual 20-jet spray chambers for sample stirrer and probe
- ▶ Solvent:
 - Consumption: Less than 1 gallon per 24 samples
 - Type: Kerosene, PF™ Solvent or Electron®
 - Reservoir Capacity: 2.5 gallons with carry handle and shut-off
 - Drain Reservoir: 2.5 gallons with carry handle
- ▶ Physical Characteristics:
 - Dimensions: 62 cm wide x 52 cm deep x 55 cm high (24.5 in x 20.5 in x 21.5 in)
 - Weight: 35 kg (76 pounds)
- ▶ Electrical: 110/220 VAC, 50/60 Hertz

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