

Liquid Borne Particle Counter



MSLE100SWISS Liquid Particle Counter – Precision & Compliance for Critical Liquid Testing

High-Precision Liquid Particle Detection for Pharmaceutical & Medical Applications

The **MSLE100SWISS Liquid Particle Counter** is an advanced, high-precision instrument designed for detecting **insoluble particles** in various liquid samples. Engineered to meet **pharmaceutical, medical, and laboratory** standards, it ensures **accurate, reliable, and compliant** particulate matter analysis.

Key Features & Benefits

- ? **USP-Compliant Testing:** Built-in **USP <788>, <789>, and ISO-21501 calibration** for industry-standard precision.
- ? **Precision Syringe Sampling:** Ensures **consistent and accurate volume control** with stable speed.
- ? **Automatic Calibration & Detection:** Intelligent system for **performance validation and calibration** without manual intervention.
- ? **Advanced Mixing Technology:** **Adjustable magnetic stirring** for **efficient sample homogenization** and precise results.
- ? **Seamless Data Export & Compliance:** **USB interface** for direct **paperless data export** and **built-in thermal printing**.
- ? **FDA 21 CFR Part 11 Compliance:** Secure **electronic records and signatures** with multi-user management.
- ? **LIMS Integration & Software Support:** Comes with **LE-Assistant software** for **PC control and professional data analysis**.

Applications: Versatile & Industry-Compliant

- ? **Pharmaceutical & Injection Testing** – Fully compliant with **USP, CP, EP, JP** standards for particulate matter in **injections, infusions, and sterile powders**.
- ? **Medical Equipment Cleanliness Assessment** – Detects **contaminants** in medical devices, surgical tools, and infusion equipment.

?? **Filtration Efficiency Testing** – Ensures **effective particle removal** in filtration systems.

? **Laboratory Water Quality Control** – Identifies insoluble particles in **laboratory-grade water samples**.

?? **Oil-Based Liquid Testing** – Suitable for testing **particle contamination in lubricants and specialty fluids**.

Technical Specifications: Cutting-Edge Performance

Parameter	Specification
Particle Size Range	2 - 100 µm
Size Channels	24
Max Detection Concentration	10,000 particles/ml
Accuracy	±10%
Repeatability	RSD <2% (for particles >1000/ml in 5ml sample)
Resolution	<10% (USP, ISO 21501)
Syringe Options	1ml, 5ml, 10ml*, 25ml
Sampling Speed	20 ml/min*
Min Sampling Volume	0.2ml** (1ml syringe), 0.4ml (standard config)
Sensor Materials	316 stainless steel, quartz glass, PTFE, NBR
Power Supply	AC 100-240V, 50/60Hz
Mixing Method	Magnetic stirrer (adjustable speed)
Data Output	RS232, USB, built-in thermal printer
Display	7-inch LCD color touchscreen
Dimensions	320(L) × 309(W) × 394(H) mm
Weight	11 kg
Operating Environment	10-40°C, RH 0-95% (non-condensing)
Software System	LE-Assistant for data management & reporting

Why Choose the MSLE100SWISS?

? **Unmatched Accuracy:** High-resolution sensors detect particles down to 2µm with precision.

? **Regulatory Compliance:** Fully compliant with **USP, ISO, and FDA 21 CFR Part 11** standards.

? **Smart Automation:** Reduces manual intervention with **self-calibrating** and **automated performance checks**.

? **User-Friendly Interface:** Intuitive **7-inch touchscreen** with real-time monitoring and data analysis.

? **Flexible Data Management:** Export data seamlessly to **PCs, printers, and lab management systems**.

The **MSLE100SWISS Liquid Particle Counter** is the **ultimate solution** for ensuring **purity, safety, and compliance** in pharmaceutical and medical liquid testing.