

Technical specifications for Particle Size Analyser

Particle size analyser complete in all respects	
Measurement	Laser Diffraction using Mie and Franhoufer scattering theory
Samples	Dry powder, suspension, emulsion
Laser Power	2 mW or more
Accuracy	$\leq \pm 1 \%$
Size range	Wet mode : 100 nm to 500 μm (or a wider range) Dry mode : 100 nm to 500 μm (or a wider range)
Detector	Photo diode array
Sonication Power	40 W (or higher)
Mode of operation	Suitable for both wet and dry mode of operation
<u>Other requirements</u>	
<p>Suitable interface to connect to PC and LAN</p> <p>Suitable software for system operation, equipment control, data analysis, data interpretation and report generation</p> <p>Class I laser safety confirming to EN 60825-1:2001</p> <p>The system must be supplied with reference materials meeting the requirements of ISO 13320:2009 with test certificate having traceability to National/ International Standard</p> <p>The wet mode size analysis should have a wide range of chemical compatibility such as aqueous and organic dispersants</p> <p>All accessories required for cleaning and maintenance of the equipment such as vacuum cleaner, air compressor and dryer shall be supplied along with the equipment</p> <p>The other mandatory accessories, spares and tools for the efficient operation of the machine shall be supplied with the equipment</p> <p>Onsite service and warranty of minimum two years</p>	