Laser diffraction particle size analyzer SALD-2201 can select three types of sample suction mechanisms in the case of dry measurement using SALD-DS21 dry measurement unit. Image of dry measurement of SALD-2201 is shown in Fig.1.

Sample particles can be dispersed in air by injection using injection nozzle, and they can generate scattered light by irradiation of laser beam. After the detection of scattered light and measurement of particle size distribution, sample particles can be sucked by tube which is connected to the vacuum cleaner.

In the case of the one shot sample suction mechanism shown in Fig.2, the small hopper is connected to the injection nozzle directly. By only putting the sample particles to be measured into the hopper, the measurement can be completed. This one shot suction mechanism is suitable for the measurement when the sample amount is small.
Fig. 3 shows the measurement results of silica sample particles by dry measurement using the one shot sample suction mechanism. In this graph, three times measurement results can be shown using overlay graph, and their good reproducibility can be seen.

![Fig. 3 Measurement results of silica sample particles by dry measurement using the one shot sample suction mechanism](image-url)