

through a moistening chamber which has at its lower end a narrow slit. The dust is deposited through this slit on to the circular specimen slide in the form of a ribbon. The slide can be rotated until the sample comes into proper position for viewing with the microscope, or a maximum of twelve samples can be collected on the slide and then viewed. The slides are quickly removable and replaceable. This dust counter is not designed for accurate dust determination but rather as an inexpensive device for roughly checking dust conditions. It has not been available long enough for a thorough test in actual practice.

The principal objection to instruments like the Bausch & Lomb Dust Counter and the Owens jet dust sampler for determining number concentration is that their dust collecting efficiency decreases with an increase in the atmospheric dust concentration and the fact that they take grab samples.

Since the major portion of dust present in industrial atmospheres is small enough to gain entrance to the lungs, very little attention need be given to determinations of the exact sizes of particles.