



# Mono Research Laboratories Ltd.

MONO RESEARCH is a wholly Canadian-owned private company specializing in the research, development and marketing of a variety of high technology products. Since its formation in 1976, MONO RESEARCH has demonstrated its capability of bringing innovative designs from the idea stage successfully through design, development, manufacturing and to a successful commercial product. Their well equipped electronics laboratory is particularly suitable for development work and specialized applications which includes the repair, maintenance and calibration of sophisticated instrumentation. The calibration facilities standards are traceable to National Standards. Adequate space is available for electronic assembly and manufacturing, while the machine shop is geared to low volume precision machining and development activities. A dedicated laboratory is maintained for sample preparation and particle size analysis. The latest state-of-the-art automated instrumentation is utilized for this work.

## PRODUCTS AND SERVICES

In addition to its range of manufactured products, MONO RESEARCH also markets and services complementary products in order to provide a wider range of capabilities to meet most customer requirements.

**PARTICLE COUNTING AND SIZING:** The company is involved in the development and sale of particle counters to count and size particulate matter in air and liquids. Systems are available which can detect, count, and size airborne particles as small as 1/10 of a micrometer. These systems are widely used in monitoring the cleanliness of clean rooms commonly used in the manufacture and assembly of many high technology products where the presence of even small amounts of

airborne particulate matter can cause serious contamination problems.

MONO RESEARCH also supplies systems suitable for monitoring particulate matter in liquids. The applications include monitoring cleanliness levels, by measuring particulate matter contamination in any fluid. Particles ranging from 0.5 micrometers to 9 millimeters in diameter may be analyzed. As an example of the specialized applications which MONO RESEARCH undertakes, we have developed a detection system to count fish eggs in sea water.

Analyzing powders to determine the particle size distribution is also widely used. In pharmaceutical applications, the size of the powder particles and their size distribution may affect the drug uptake-rate in the body, or it may affect the ability to produce tablets from the powder. In food manufacturing, both the taste and cohesive properties of pastes also may be markedly affected by the particulate size and their size distribution.

**ADVISORY SERVICES:** Engineering and consulting services are available to assist customers in their system design and operational problems, to ensure the most effective use of their instrumentation.

**MEDICAL EQUIPMENT:** Much of MONO RESEARCH's expertise lies in the field of medical instrumentation. The most recent product to evolve from their laboratory and in conjunction with researchers at the University of Toronto, is a cryogenic device which is used to assist in removing a human eye that has a malignant tumor. This device will be marketed world-wide commencing late 1982.

**AIDS FOR THE HANDICAPPED:** Recently high technology has been introduced into the field of sophisticated aids for the handicapped. MONO RESEARCH have kept pace with these developments and have produced a number of devices. One of these, an Automated Eating Aid is shown in the accompanying photograph.

**IN-HOUSE ANALYSIS LABORATORY:** Since particle size analysis plays a major role in the company's over-all strategic thrust, MONO RESEARCH maintains a very active analysis service for its customers located throughout Canada. A sample for contamination testing, or particle size profile determination, is usually processed and the information returned to the customer within 48 hours.

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## MONO RESEARCH LABORATORIES LTD.

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### President

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We are actively interested in manufacturing under license products for distribution throughout North America.

## COMPANY STRATEGY

MONO RESEARCH maintains a small, highly qualified technical staff dedicated to innovative research development in the market segments in which it is actively engaged. The company's in-house capabilities are further extended by undertaking projects in collaboration with leading researchers at Canadian universities and hospitals and in collaboration with both the Federal and Provincial governments.