

With the acquisition of Armtrrol Ltd in 1970, Pylon entered into the manufacture of electronic switching equipment. A line of trunk concentrators of CAMA application and ROTS apparatus were introduced.

Manufacture of digital equipment began in 1965 with systems involving photoelectric badge readers. The first system formed the basis of data gathering systems for the Post Office. Pylon has supplied a vast range of specialized data equipment to customers in North America and overseas. Pylon offers a complete engineering support team from system concept through to the end product.

In 1977, the company expanded by opening a division in Ottawa which specialized in the manufacture and development of instrumentation. The Toronto division was opened in the fall of 1979.

Due to the growth of the Pylon market, it was decided to build a new development plant in Ottawa and to relocate the Pylon Head Office on completion of this facility. A year later, this was accomplished.

The company holds 21 Canadian patents, 13 US patents, and 5 trade marks. Approximately 25% of all telecommunication equipment, and over 90% of the nuclear equipment is exported.

CAPABILITY: Both Montreal and Ottawa maintain an R&D and engineering group capable of developing new equipment. These facilities will undertake contract work in the area of their competence.

- Montreal Branch – Telco Products, Ringing Generators, Ringing Talk Signal Supplies, UPS Systems, CO Power Plants, Wide Area Alarm Systems, Electronic Switching Equipment, and Custom Transit Cases.

- Toronto Branch – Cables, Harnesses, and Custom Test Equipment.

- Ottawa Branch – Manufactures a line of Time Code Generators, Distribution Amplifiers, Satellite Ground Station Equipment, specialized equipment for DND, and nuclear monitoring equipment.

AVERAGE WORK FORCE: Scientists/Engineers – 30
Others – 100

GROSS SALES: 1987 – \$5.8M
1988 – \$6.5M (Est'd)

PLANT SIZE: Montreal – 18,000 Sq Ft
Toronto – 5,000 Sq Ft
Ottawa – 16,000 Sq Ft

EXPERIENCE: Canada – Department of National Defense, RCMP, National Research Council, Bell Canada, Telesat, Trans Canada Telephone System, Atomic Energy of Canada, CNCP Telecom, Northern Telecom Ltd; and in the US – Danray Inc, Northern Telecom Inc, Bell South Advanced Systems, Digital Communications Corp, Shell Oil Co Inc, Siecor Optical Cable, Tellabs Inc, ABC, NBC, CBS, and various bodies involved with Health Physics investigations. Other areas include Nuclear Instrumentation worldwide.

KEYWORDS: Battery Chargers; Code Converters & Displays; Converters; EMI Hardened Equipment; Electronic Telephone Switching Equip.; Instruments; Inverters; Loop Back Units; Monitoring (Microprocessors-Based); Nuclear Instrumentation; Radioactive Gas Generators; Ringing (Telephone Circuits); Satellite Ground Station; Alarm Equipment; Talk and Signal Supplies; Telephone Communications; Telephone Rectifiers; Time Code Generators; Uninterruptable Power Supplies; Wide Area Alarm Units.

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QUANTUM INSPECTION AND TESTING Ltd

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HISTORY: Established in 1968 as a firm of consulting engineers, Quantum has evolved into Canada's largest specialist independent professional quality services/surveillance and laboratory testing/inspection organization dedicated to the aerospace, defense and precision manufacturing sectors.

Quantum's Test Center and corporate headquarters are strategically located in a new facility in the hub of Canada's manufacturing/industrial heartland which also provides convenient access to the East and Midwest regions of the US market.

CAPABILITY: Quantum's product is Contract Quality Services and Expertise – people, facilities and related capabilities. The company's broadly-based resources, experience and capabilities are geared to integrate on either a complementary and supplementary basis with the client's organization in an efficient and cost effective manner to fulfill those requirements.

Quantum offers the following services:

- Vendor Surveillance – capability and pre-award surveys; performance monitoring; sampling inspection; test witnessing; expediting; and certification.

- Non-Destructive Testing – radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current, infrared thermography.

- Quality Management Consulting – quality systems development, training and problem solving/troubleshooting.

- Welding/Fabrication/Consulting – procedures development/evaluation, specialized fab/repair contract management and subcontracting, applications R&D, and failure investigation.

- Product Development and Research – Quantum participates in industry/government schemes for product development/improvement.

- Measurement Services – calibration laboratory; three coordinate measurement; laser theodolite dimensional coordinate analyzing capability (unlimited size and contour); casting layout; dimensional verification; and relapping and calibration of granite surface plates.

Housed in a total environmentally controlled laboratory facility, Quantum is Canada's largest independent contract and subcontract service source for dimensional verification inspection with major Aero/Defense/Precision buyer approval of facilities and capabilities with recognized accuracies to 3 millionths of an inch.

AVERAGE WORK FORCE: Engineers – 5
Scientists – 3
Technicians – 45
Others – 15

GROSS SALES: 1986 – \$2.5M
1987 – \$2.8M

PLANT SIZE: 29,000 Sq Ft

EQUIPMENT: Complete NDE Facility and Mechanical Metrology and Measurement Capability.

EXPERIENCE: All test center facilities are traceable to NRC Canada (equivalent of NBS Washington) and the operational capabilities operate under such validated governmental recognitions as the Department of National Defense, Canadian Standards Association, Department of Transportation and Communications, the Canadian Government Standards Board (US MIL and NATO Standards), and Standards Council of Canada.

Buyer approvals include such organizations as Pratt and Whitney, Boeing, McDonnell Douglas, Rockwell, General Electric, Bell Helicopter, Spar Aerospace and Sikorsky. Our status is typified by Quantum's recognition by NASA as being the sole Canadian source approved for the non-destructive testing of fracture critical components for the Space Program.