

- UTDC – Heavy Rail Mass Transit (\$58M US), Massachusetts; Articulated Light Rail Vehicles (\$52.2M US), Santa Clara, CA; Bi-Level Locomotive Hauled Commuter Coaches (\$24M US), State of Florida; Downtown People Mover Turnkey Contract (\$167M US), Detroit, MI.

KEYWORDS: Process Control; Network Management; Computer-Aided Design; Microcomputers; Digital Graphics; Computer-Aided Teaching; Office Automation; Remote Sensing; Military Trucks; All Terrain Crash Recovery Vehicles; System Integration; Quality Assurance.

REVISED: February 88

LEAVENS AVIATION Inc

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CONTACT: Mr E Baumgartner, Production Manager – (416) 678-1234

HISTORY: Leavens Aviation Inc is a Canadian-owned company founded in 1927. In its early days, it was primarily engaged in air transportation and flight training. During the second World War, in addition to operating a flight training school for Commonwealth pilots, it enlarged its engine, propeller and accessories overhaul capabilities, and engaged in manufacturing parts and assemblies for aircraft.

In 1972, the operation was relocated to its present facility, concentrating on manufacturing of aircraft parts and assemblies, distribution of aircraft supplies, as well as the overhaul of engines, propellers and accessories for small-to-medium sized aircraft.

CAPABILITY: Leavens Aviation Inc specializes in the manufacturing of parts, sub-assemblies and assemblies for military and civilian aircraft, and the overhaul of piston engines, propellers and accessories.

AVERAGE WORK FORCE: 60

GROSS SALES: 1986 – \$5.3M
1987 – \$5.5M

PLANT SIZE: 30,000 Sq Ft

EQUIPMENT: Equipment includes CNC milling and turning, full machining capabilities, and assembly and test facilities.

EXPERIENCE: Leavens Aviation Inc has manufactured parts and assemblies for Canadian and US manufacturers. They provide their customers with hydraulic hose and aircraft control cable assembly and test facilities, and overhaul of aircraft engines, propellers and accessories. They are interested in doing business for the USAF.

KEYWORDS: Aircraft Parts; CNC Machining; Control Cables (Aircraft); Hydraulic Hose; Machining; R&O (Accessories); R&O (Engines); R&O (Propellers).

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LEIGH INSTRUMENTS Ltd

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HISTORY: Leigh Instruments is a high technology electronics company engaged in the systems engineering, development and manufacture of equipment, products and systems principally for the aerospace, government and military markets. Leigh was founded in 1961 and is a publicly held, Canadian owned company. Approximately

50% of sales are for the export market. Leigh's engineering and aerospace operations, described further under capabilities, has engineering facilities in Ottawa, marketing and executive offices in Kanata, and has a production facility in Carleton Place thirty miles west of Ottawa. Other facilities include the Frequency Control Division in Toronto, which manufactures crystals, crystal filters, and high environment glass-to-metal seals; and a plant in the UK near Heathrow Airport which supplies some products as well as support and repair and overhaul services to Leigh's European customers. In addition, Leigh has just acquired Micronav Limited of Sydney, Nova Scotia, a manufacturer of microwave landing systems.

CAPABILITY: Leigh's aerospace and engineering systems operations supplies a range of products, systems and services to the aerospace, military and government sector. The company is organized into three product groups: Aerospace, Navigation Aids and Naval Communications.

The company developed initially as a flight recorder/crash locator systems company, building on a patent for a unique deployable crash position indicator. New generation systems of both these products are now offered – a solid-state crash survivable memory unit for flight data recording, and advanced helicopter beacon for crash location.

The aerospace product group has developed its business base to include products and expertise in other areas such as helicopter CPLs, mechanical strain recorder systems and helicopter icing detection systems. In the latter instance, for example, Leigh won a US Army AISLIS (Advanced Icing Severity Level Indicating System) R&D contract on a competitive basis, as a result of its experience.

The company has, over 28 years, developed its capability also in the areas of data processing and display systems applications, communication switching systems, and radar-based surveillance and display systems as both a prime contractor and system integrator.

AVERAGE WORK FORCE: Total – 800

GROSS SALES: 1986 – \$34.5M
1987 – \$52.7M

PLANT SIZE: 122,000 Sq Ft (Ottawa & Carleton Place, Ontario)

EQUIPMENT: Leigh's production facility is qualified to DND 1015, which incorporates MIL-Q-9858B, and has a resident DND inspection detachment. The plant has a fully integrated production facility including machine shop with both NC and CNC equipment; mechanical and electrical inspection facilities; electrical and electromechanical assembly; and specialized foam/fiberglass production facilities. Electrical assembly facilities include component preparation, semiautomatic insertion, PCB flow soldering, conformal coating, semiautomatic wirewrap and harness shop. Test facilities include production ATE, cable and harness test facilities, various production test stations, test equipment calibration facilities, and a large RF anechoic chamber.

The plant also has a well equipped environmental test lab and a number of different types of AGREE production environmental test chambers. Engineering facilities include well equipped laboratories including a number of microprocessor development stations and a VAX 11-750 engineering computer facility.

EXPERIENCE: Leigh Instruments Ltd's major customers include the US Navy, US Army, US Air Force, US Coast Guard, Canadian Forces, Canadian Coast Guard, Transport Canada, McDonnell Douglas, Lockheed, Boeing, RAF, RNOAF, FRG DOD, and Panavia. Leigh is source qualified by all of the foregoing.

Leigh's major projects in the aerospace government and defense areas have included:

- System Prime Contractor – Vessel Traffic Management Systems (radar surveillance, display, data processing, microwave backhaul) for Transport Canada for Vancouver, Tofino and Les Escoumins (1976-1982).
- System Integrator – TRACS, Terminal Radar and Control System, for Department of National Defense. System engi-