

**CAPABILITY:** C.P.S. Industries is primarily engaged in the manufacture of aircraft and commercial parts to customer supplied drawings and specifications.

**AVERAGE WORK FORCE:** Production – 43  
Engineers – 2  
Admin – 5

**GROSS SALES:** 1986 – \$3.07M  
1987 – \$3.38M

**PLANT SIZE:** 19,000 Sq Ft

**EQUIPMENT:** Equipment includes CNC lathes and milling centers; surface cylindrical and centerless grinders; computerized machine programming equipment; computerized coordinate measuring machine; plus a full range of conventional machinery and equipment including chemical finishing and painting facilities.

**EXPERIENCE:** Present customers include – Dowty Canada Ltd, Menasco Aerospace Ltd, Lucas Industries, Pratt & Whitney Canada Inc, Canadian Arsenals Ltd, Allied-Bendix (US), and Simmonds Precision (US).

**KEYWORDS:** Aircraft Parts; Airframe Components; Ammunition (Parts); Fuel Control (Parts); Landing Gear Components; Machining.

**REVISED:** February 88

## CROVEN CRYSTALS Ltd

**ADDRESS:** 500 Beech Street  
P. O. Box 420  
Whitby, Ontario, Canada  
L1N 5S5

**CONTACT:** Mr Bob McCormick, Sales Manager – (416) 668-3324

**HISTORY:** Croven started as a subsidiary of a US company set up in Whitby in 1954 to manufacture crystals for a NATO contract held by Collins Radio of Toronto. In 1958, the US parent sold the company to the management. In 1967, the company was purchased by a US conglomerate. It is presently owned by Oak Industries, but has been managed since 1970 solely by Canadians.

**CAPABILITY:** Croven manufactures quartz crystals and only quartz crystals. Within this product line, Croven has carved out a niche as one of the premier suppliers of high quality, high reliability quartz crystals to the telecommunications, avionics and aerospace industries, as well as directly to the military.

Their crystals are used by companies making telephone equipment, microwave radios, radar for ground and airborne applications, and missile and satellite systems. Some of the better known programs are the fire control radar in the F-16 and F-18 fighter planes, the Navy's Phalanx Weapon System and shipboard radar, the Standard Missile and many of RCA Astro's satellites.

Their ongoing research and development programs combined with their state-of-the-art testing and screening facilities, make them second to none in the industry.

**AVERAGE WORK FORCE:** Engineers – 5  
Technicians – 10  
Others – 185

**GROSS SALES:** 1986 – \$10.0M  
1987 – \$ 9.5M

**PLANT SIZE:** 30,000 Sq Ft

**EQUIPMENT:** Equipment includes all necessary equipment to manufacture and test high quality, high reliability quartz crystals. IBM System 34 is used for production control.

**EXPERIENCE:** Present customers include: AvanteK, Bendix, California Microwave, DESC, E-Systems, Equatorial Communications,

Frequency West, Frequency Sources, Garrett, General Dynamics, GTE, GE, Harris, Hewlett Packard, Honeywell, Hamilton Standard, Hughes, ITT, JPL, Lockheed, McDonnell Douglas Elect, Magnavox, MCI, M/A Com, Motorola, Martin Marietta, Northern Telecom, Omni Spectra, Plessey, Rockwell, Raytheon, RCA, Spar, Sperry, Scientific Atlanta, Sanders, Texas Instruments, TRW, Varian, Westinghouse, Wilcox, Watkins-Johnson, plus many divisions of the US and Canadian military and Government.

**KEYWORDS:** Crystals; High Q Crystals; Quartz Crystals.

**REVISED:** April 88

## DECADE INDUSTRIES (An Avcorp Company)

**ADDRESS:** 7860 River Road  
Richmond, British Columbia, Canada  
V6X 1X7

**CONTACT:** Mr Jimmy L Cook, President – (604) 278-3561

**HISTORY:** Decade Industries Ltd was founded in 1970 primarily as a manufacturing service company supporting the aero engine maintenance shops of locally based airlines.

In 1975, Decade moved to their present facilities and have since expanded their markets to include principle airframe/engine manufacturers, airlines of the US, the Pacific Rim, and the Far Eastern markets, as well as becoming a major tooling supplier directly to the aero engine manufacturers themselves.

**CAPABILITY:** Decade Industries' manufacturing facilities include conventional milling and turning equipment, and a well-equipped welding and fabrication shop.

A comprehensive quality assurance program in line with AQAPS-4 and MIL-I-45208A, the Canadian Standards Association, and the specifications of their major customers in the US, ensures a reliable production of high quality, conforming products.

Non-destructive testing and proof load testing is carried out at Decade with certificates furnished for all inspections. Proof loading capability is to 25 tons in their universal tensile loading facility.

Decade Industries is the leading manufacturer of aircraft maintenance tooling in Canada. The Boeing Company has awarded Decade a license to manufacture all the maintenance tooling for their aircraft. Decade has a similar agreement with Douglas Aircraft. Decade Industries has designed, tested and manufactured two new shipping stands for commercial transport engines in the last year. Quantities of these stands have been delivered and are in use by customer airlines in North America.

**AVERAGE WORK FORCE:** Consultant Engineers – 2  
Resident Engineers – 1  
Machine Shop Personnel – 20  
Administrative – 5

**GROSS SALES:** 1986 – \$2.0M  
1987 – \$2.0M

**PLANT SIZE:** 10,000 Sq Ft

**EXPERIENCE:** Decade Industries customers include:

- Airlines – Air Canada, Canadian Airlines International, United, Northwest Orient, Philippines, Singapore, WardAir, American West, Continental, Delta Airlines, and TAA.

- Aero Engine Companies – General Electric, Pratt & Whitney, SNECMA/CFMI, and Rolls Royce.

- Aircraft Manufacturing Companies – Boeing, and McDonnell Douglas.