

**EXPERIENCE:** Ebco's clients include: Boeing Co (MX transporter trailer for USAF & CNC – machined components for jetfoil vessel for USN); Hooker Chemical Co (Electrolytic cathode cells for Chlorine plants); deHavilland Aircraft (CNC – machines aluminum components for Dash 7 and Dash 8 aircraft); Bristol Aerospace (CNC – machined components for CF fighter refurbishment program); University of British Columbia (56 ft vacuum tank and resonators for the Meson Facility – TRIUMF Project); Robbins Co (underground tunnel boring machines to 32 ft dia); Lockheed Petroleum Services Ltd (well head cellars for sub-sea oil well drilling and exploration); plus many other companies and a variety of manufactured items.

**KEYWORDS:** Coatings; Die Fabrication; Extended Length Machining; Heat Treating; Hydraulics; Machining; Mechanical Assembly; Metal-working; Precision Machining; Repair Capability Machining; Stamping; Titanium; Tooling.

**REVISED:** February 88

## ENHEAT Inc (Aircraft Division)

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**HISTORY:** Enheat Inc is a high-technology aircraft component manufacturing, repair and overhaul facility founded in 1952 by Enamel & Heating Products Ltd of Sackville, New Brunswick, Canada. It was originally owned by Rhodes & Curry Ltd, an Amherst based company, who sold it to Canadian Car & Foundry Ltd of Montreal, Quebec. These companies manufactured railway wheels and cars for over 60 years prior to the Second World War.

Canadian Car & Foundry started an aircraft plant in 1940. Until the end of the war in 1945, the Canadian Anson was manufactured as well as many other types and makes of aircraft. Enamel & Heating Products Ltd changed its name to Enheat Ltd in 1972 and Enheat Inc in 1980.

**CAPABILITY:** Enheat Inc, Aircraft Division, is a high technology aircraft component manufacturing and repair & overhaul facility.

**AVERAGE WORK FORCE:** Engineers – 2  
Quality Control – 11  
Others – 219

**GROSS SALES:** 1986 – \$15M  
1987 – \$17M

**PLANT SIZE:** 120,000 Sq Ft (Manufacturing)

**EQUIPMENT:** Enheat Inc employs the following equipment: auto-clave, drying ovens, temperature controlled layup room, process room, paint shop, brakes, presses, routers, rolls, shears, drop-hammers, stretch forming machines, lathes, millers, planers, jig borers and grinders, dimplers, miscellaneous small hand tools and processing tanks for phosphoric acid anodizing.

**EXPERIENCE:** Enheat has 36 years of experience with major aircraft companies of North America. Present customers include: Canadian Department of National Defense, Boeing Airplane Co, Lockheed California Co, McDonnell Douglas Aircraft Co, Grumman Aerospace Co, Fleet Industries Ltd, The deHavilland Aircraft of Canada Ltd, and Canadair Ltd.

**KEYWORDS:** Airframe Components; Bonded Components (Composite); Bonded Components (Metal); Components (Aircraft); Machining; R&O (Aircraft Components).

**REVISED:** May 88

## EPIC DATA Inc

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**HISTORY:** Epic Data Sales Ltd is a member of the Canadian owned Ebco group of companies. Ebco's wide range of products and capabilities caused numerous difficulties in labor and material tracking. Identifying a need for an automated data collection system, they looked at the marketplace and could not find a fully capable system at a reasonable price. Consequently, Ebco developed its own system and incorporated Epic Data in 1974 to manufacture and market it.

**CAPABILITY:** Epic Data designs and manufactures microprocessor-based data collection systems. Terminals and controllers incorporated in modular hardware and software design ensure both reliability and flexibility. Terminal users on the factory floor, in the office, and in other environments find the terminals easy and straight forward to operate. Cost savings are realized immediately by users of Epic Data Systems in terms of reduced time to input and process valuable time and labor data.

Epic Data offers a wide range of data collection terminals. The Low Cost Terminal (LCT) is a small, inexpensive data collection terminal that accepts barcode and keyboard input. The LCT allows an exceptionally high density of terminals at a low cost and is therefore ideally suited to applications that require large concentrations of terminals within easy reach of individual employees. The 200 series Portable Terminals accept barcode wand, keyboard and laser scanner input. The Portable Terminals are suitable for applications where mobility is a factor, e.g., inventory control, meter reading, order entry and stock taking. The 300 series Dual-Function Terminals are powerful, microprocessor-based terminals for barcode and magnetic stripe data collection. These on-line terminals with user-definable operating characteristics are suitable for all data collection applications, especially those in harsh environments. The 500 series Independent Terminals provide on-line data collection via terminals that guarantee continuous data collection by gathering and storing data if the control unit is busy or unavailable. Terminals in this series range from the one-line display, Independent Transaction Terminal to the 1920 character display of the Full Screen Terminal and the graphic display of the Independent Graphics Terminal. In addition to requirements for large screen and graphics, these terminals are suitable for applications where data security and quick response time to the operator are essential. Finally, the Telephone Data Terminal (TDT) is a microprocessor based terminal capable of collecting and transmitting data to a host computer via a standard telephone network. Specifically designed for use by office personnel, the TDT's compact size allows it to become an effective platform for a standard desk telephone thereby reducing the need to sacrifice valuable desk space. The TDT is ideally suited or professional and office environment applications including time management, time and expense control, billings, documentation control and inventory control.

Epic also manufactures the 1648 Series of system controllers. Controllers are an intermediary device between the data collection terminals and the system's host computer. The controller's primary functions are polling terminals for collected data; transmitting prompts to the terminals for user guidance; sequencing, editing, and assembling collected data; time of day generation; and data output to host or off-line storage. More sophisticated Epic controllers offer such capabilities as user programmability of controller operating parameters, and data validation (in conjunction with an Epic Winchester disk storage unit). The primary advantages of Epic controllers are maximization of system throughput and redundancy (dual controllers, each with their own communications line, monitor each other and take over in a case of failure of either the other controller or the other line). Redundancy can be built into every level of Epic systems thereby ensuring not only maximum throughput but also continuous data collection, even if the host goes down.

Epic Data's line of controllers range from the Host Programmable Control Unit-Minimum configuration capable of managing a network