

## CERCAST Inc

**ADDRESS:** 3905 Industrial Blvd  
Montreal North, Quebec, Canada  
H1H 2Z2

**CONTACT:** Mr Dieter Rupp, Sales Manager – (514) 322-2371

**HISTORY:** Cercast Inc was incorporated in Montreal in 1959. It has since expanded to 8 manufacturing plants – Cercor Inc (Georgetown, Ontario), Ceramet Inc (Bethlehem, PA), Cercon Casting Corp (Hillsboro, TX), Sigma Casting Corp (City of Industry, CA), Feinguss GmbH (West Germany), CIRAL SA (France), Microfusione De Aluminio, SA (Spain).

**CAPABILITY:** Cercast Inc is well known for its capabilities of producing large complex investment castings used primarily in the aerospace industry.

Their Quality Control systems are approved by all major Canadian, US and European aerospace manufacturers and their in-house special processes include: heat treating of aluminum alloys, radiographic inspections, penetrant inspections, chemical analysis, mechanical testing, metallurgical laboratory, and repair welding of aluminum castings. These special processes are all approved by their customers.

**AVERAGE WORK FORCE:** Production Workers – 145  
Quality Control – 15  
Engineering/Admin – 30

**GROSS SALES:** 1986 – \$21.7M  
1987 – \$24.8M

**PLANT SIZE:** 86,000 Sq Ft

**EQUIPMENT:** Cercast Inc is a very modernly equipped investment casting foundry, including the latest robotics for shell dipping, computerized chemistry, mechanical testing and a 3-dimensional measuring machine. Data is transferred to their main computer for further processing and certification.

**EXPERIENCE:** Cercast Inc's present customer list is extensive including all major aerospace and defense-related industries in Canada, the US, and Europe.

**KEYWORDS:** Castings; Investment Castings.

**REVISED:** January 88

## CHAMP-ARMSTRONG COMMUNICATIONS Inc

**ADDRESS:** #5, 2010 – 30th Avenue N E  
Calgary, Alberta, Canada  
T2E 7K9

**CONTACT:** Mr Gary E Gunthorpe, PEng, Vice President, Operations  
(403) 250-3202

**HISTORY:** Champ-Armstrong was formed in 1985 as a sole proprietorship to facilitate the need for the manufacturing and design of effective strobe lighting for the Avionics industry. The company was officially incorporated under the laws of Alberta (Canada) in November 1986 with a capitalization of \$400,000. In January 1987, a program was put together that would generate approximately \$1.4M of potential business over the next 18 months. This goal was reached in 12 months.

Champ-Armstrong is in the business of developing and manufacturing transpondable systems for the military and the OEM markets. The company is presently seeking AQAP 4 recognition with several military prime contractors. The objective is to become internationally recognized as an expert in RF communication, and to be a contributor to such programs as MSAT, Space Station, and new communications programs for the Department of Communications.

**CAPABILITY:** Champ-Armstrong is primarily involved in contract design and manufacturing of high quality electronic products and components. Their technical expertise is centered around three areas:

- Energy Systems (batteries, chargers, power supplies)
- Data Acquisition (small RTU's)
- Transpondable RF Systems

Champ-Armstrong's design team utilizes the latest versions of FutureNet, Dash PCB, CADAT, uCad and Autocad computer design tools, to speed design and insure complete documentation. The company has embarked on a long term program to develop a commercially available, low cost deployable ELT utilizing Civil Military an SARSAT frequencies (121.5, 243, 406 MHz).

**AVERAGE WORK FORCE:** Master Engineers – 1  
P Engineers – 5  
CET – 4  
Others – 14

**GROSS SALES:** 1987 – \$ .4M  
1988 – \$2.6M (Est'd)

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

**EQUIPMENT:** Champ-Armstrong's equipment includes: Daetron MC300 (cap meter), Iwatsu SS-5212 (dual trace 15 MHz Oscilloscope), Tektronix 2215 (dual trace 60 MHz Oscilloscope), HP 6271B (power supply), HP 3312A (function generator, 10 MHz), Fluke 1950A (digital counter, 100 KHz), Fluke 6060A (RF signal generator), Advantest TR4131 (10 KHz to 3.5 GHz spectrum analyzer), Boonton 4210 (RF microwatt meter), Boonton 4210-7E (power sensor), Yaesu YC-35SC (35 MHz frequency counter), Electrovert MK-6/94 (wave soldering machine), B&K 1470 (15 MHz scope), Tektronix 575 (transistor-curve tracer), Fluke 8050A (4 1/2 digit DVM), Filtron Fil Shield (shielded room), and futureNet CAD System.

**EXPERIENCE:** Champ-Armstrong's present customers include: various departments in the Canadian and Alberta Governments, and commercial industries in Canada. They are interested in doing business with the USAF, USN and US Coast Guard with regards to cover/transpondable ELT's and flash technologies.

**KEYWORDS:** Build-To-Print; Transponders; Emergency Locator Transponders; Energy Systems; Flash Technology; Data Acquisition; Batteries; Power Supplies.

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## CHICOPEE MANUFACTURING Ltd

**ADDRESS:** 975 Wilson Ave  
Kitchener, Ontario, Canada  
N2C 1J1

**CONTACT:** Mr David Belanger, VP Marketing & Operations –  
(519) 893-7575

**HISTORY:** Chicopee Manufacturing Limited is a private, wholly owned Canadian company incorporated under the laws of Ontario in 1967.

**CAPABILITY:** The company specializes in precision machining of medium to large complex components to close tolerances from high strength steels, titanium and aluminum alloys for the aerospace and other related industries. Technical knowledge combined with state-of-the-art equipment enables the company to deliver a wide range of such quality products including aircraft structural components, landing gear components, helicopter hubs, helicopter retentions, hydraulic actuators, precision parts for Canada's space arm, and machined components for other space vehicles and equipment.

Chicopee maintains strict quality control and has approvals from most of the major aerospace companies and in addition, complies with the requirements of AQAP-4, MIL-Q-9858, and CSA Z 299.3. Procedures call for first-off inspection of every manufacturing operation, as well as 100% final inspection of all critical dimensions. Reverse traceability of materials, parts and processes is guaranteed.