

Coatings; R&O (Coatings); Salt Spray (Fog) Testing; Stress Relieving; Surface Finishing; Taber Abrasion Testing; Teflon™ Coatings; Thickness Testing; Vacuum Coatings.

REVISED: April 88

## CAMPAGNA ENGINEERING Inc

ADDRESS: 2783 Fenton Road  
Gloucester, Ontario, Canada  
K1G 3N3

CONTACT: Mr Orlando Campagna, Marketing Director -  
(613) 822-1921

HISTORY: Campagna Engineering Inc was established in 1966 as a wholly-owned family operation. Campagna presently employs two shifts of production related people on numerically controlled equipment.

CAPABILITY: Dedication and commitment has established a steady growth pattern and a wealth of experience which has encouraged an expansion to include supplying the aerospace, defense and communication industries with close tolerance, high precision components and sub-assemblies.

AVERAGE WORK FORCE: Manufacturing Engineers - 1  
QC Inspectors - 3  
Computer Programmers - 2  
Others - 45

GROSS SALES: 1986 - \$1.6M  
1987 - \$2.5M

PLANT SIZE: 15,000 Sq Ft

EQUIPMENT: Campagna Engineering's equipment list includes: complete list of CNC machinery, computerized equipment for inspection and various machinery involved in the production of high precision components. For example the CNC Machine Center includes: 4th axis contouring attachment; 4th axis indexing attachment; CNC lathes; CNC lathe with milling/contouring capabilities; milling machines with 3 digital readout; lathes; chucking machine; cylindrical grinder; honing machine; surface grinder; coordinating measure machine/computer for quality control; and profile projector for quality control; and various precision drilling and curving machines and accessories used in high precision production. Future plans include acquiring sophisticated machinery with advanced capabilities, such as 5 axis contouring.

EXPERIENCE: Campagna Engineering's customers include: Government of Canada (various departments), Atomic Energy of Canada, Boeing of Canada Ltd, Bata Engineering, Bell Northern Research, Canada Bank Note, Canadian Marconi Co, Canadian Astronautics Ltd, C-Tech Inc (USA), Canadian General Electric, Digital Equipment of Canada, ElectroSpace Systems Inc (USA), Lumonics Inc, Northern Telecom (Canada & the US), Leigh Instruments Ltd, Pratt & Whitney, Raytheon Co (USA), SED Systems Inc, Spar Aerospace Ltd, and Schweizer Aircraft (USA).

KEYWORDS: CAM; CNC Machining; Components (Aerospace); Electronics (Precision Parts); Machining; Nuclear Industry (Machining); Precision Assembly; Precision Machining; Product Development; Structural Fittings (Helicopters); Turbine Engine Components.

REVISED: February 88

## CANAC TELECOM

ADDRESS: 151 Front Street, Suite #514  
Toronto, Ontario, Canada  
M5A 2N1

CONTACT: Mr Andrew V Bransok, General Manager, Marketing -  
(416) 860-2801

HISTORY: CANAC Telecom was formed in 1984 as a partnership between Canadian National Communications, the telecommunica-

tions division of Canadian National (CN), and CANAC International Inc, the international consulting subsidiary of CN. The marriage of CN Communications' vast telecommunications systems integration experience and CANAC's international expertise has shown strong results. CN Communications has been installing turnkey telecommunication systems since 1946. Since establishment in 1971, CANAC International has a record of success in over 50 countries throughout the world.

CAPABILITY: CANAC Telecom is a telecommunications systems integrator. CANAC Telecom provides customers with a single point of responsibility for the provision of complex turnkey telecommunication systems which require specialized engineering expertise to ensure successful integration. CANAC Telecom has experience in providing analogue and digital telecommunication transmission and switching systems. The transmission systems encompass cable (standard copper, coaxial, and fiber optic), satellite, microwave, troposcatter, and other radio-based systems. Along with these systems, CANAC Telecom offers a broad range of services required for the smooth integration, installation, and implementation of a system. These services include timely, cost effective feasibility studies, engineering design, procurement, installation, training, and operation and maintenance expertise.

AVERAGE WORK FORCE: Engineers - 21  
Technicians - 543  
Operations & Mgmt Specialists - 80  
Training & Education Specialists - 5  
Financial Specialists - 14  
Others - 292

GROSS SALES: 1986 - \$303.4M

PLANT SIZE: Not Listed

EQUIPMENT: Not Listed

EXPERIENCE: Customers include or have included in the past, the *Canadian Armed Forces* for whom CANAC Telecom is currently integrating, installing, operating and maintaining the communication segment for the North Warning System, *USAF* for operation and maintenance of the troposcatter system for the DEW line, Thailand Ministry of Communications, Asian Development Bank, and Chinese Ministry of Railways.

KEYWORDS: Telecommunications; Microwave Telecommunications; Satellite Telecommunications; UHF Radio Telecommunications; VHF Radio Telecommunications; Fiber Optic Cable Systems; Copper Cable Systems; Coaxial Cable Systems; Systems Integration; O&M (Telecommunications).

REVISED: March 88

## CANADA FORGINGS Inc

ADDRESS: P. O. Box 308  
130 Hagar Street  
Welland, Ontario, Canada  
L3B 5P8

CONTACT: Mr N F Carpentier, President - (416) 735-1220

HISTORY: Canada Forgings Inc is a Canadian-owned custom forging producer founded in 1912. It is now a subsidiary of Toromont Industries Ltd. The company operates two plants on 8 1/2 acres of land in Welland - one for closed die forgings and the other for open die forgings.

CAPABILITY: The closed die plant occupies 60,000 sq ft of production space and is equipped with air hammers to 10,000 lbs supported by appropriate heat treating, cleaning and quality assurance facilities. There is capability for forging products up to 200 lbs in weight along with a machine shop equipped with die sinking equipment.

The open die plant occupies 117,000 sq ft under roof and it houses Canada's only seamless ring rolling facilities. This plant operates Ontario's largest open die hydraulic forging press (3300 tons), two other open die presses of 1200 and 600 ton capacity respectively.