experience in fabricating critical components and sub-assemblies. A new technology center has added a unique engineering capability to the corporation's sophisticated, high precision manufacturing activities, including a CAD/CAM system. One of the Devtek companies has assembled extensive engineering and manufacturing skills for the design, development, testing and production of components and systems for military hardware. Another Devtek company holds a leading position in the development, design and manufacture of hydroacoustic sensors and data analysis and transfer systems as well as HF communication equipment to meet exacting military specifications. To complement the technical staffs of the companies in the corporation, Devtek provides the support of a special Corporate Engineering Group which conducts research and development and assists with problems of a highly sophisticated, technical, technological, process or production nature. Devtek's divisions and companies operate to the following Quality Specifications as appropriate DND-1015, MIL-Q-9858A, DND-1016, and MIL-I-45208. The divisions are recognized by the Department of National Defense for having quality programs within their facilities meeting the requirements of DND-1015 (MIL-Q-9858A).

Average Work Force: 15 (All Divisions – 780)

Gross Sales: 1982 – $32.2M (All Divisions)
1983 – $34.2M (All Divisions)

Plant Size: 300,500 sq ft (All Divisions)

Experience: Devtek's varied clientele includes – Bell Aerospace Co, Buffalo, NY; Boeing of Canada; Bristol Aerospace Ltd; CAE Electronics Ltd; Canadair Ltd, US Army, Ft Monmouth, NJ; US Navy, Indianapolis, IN; French Navy, Paris, France; Swiss Army Signal Corps, Australian Navy; Canadian General Electric Co; Computing Devices of Canada Ltd; The deHavilland Aircraft of Canada Ltd, Dowty Equipment Ltd, Emerson Electric, St Louis, MO; Fleet Industries; General Electric Co, Winooski, VT; B F Goodrich, Troy, OH; Hughes Aircraft, Los Angeles, CA; Honeywell Inc, St Petersburg, FL; Leigh Instruments; Ernst Leitz Canada Ltd, Litton Guidance & Control Systems, Woodland Hills, CA; Litton Systems (Canada) Ltd; Lumonics Research Ltd; Martin Marietta, Orlando, FL; McDonnell Douglas Corp, St Louis, MO; Motorola Inc, Tempe, AZ; Northern Telecom; Philips Electronics; Raytheon Co, Portsmouth, RI; Sanders Associates, Nashua, NH; Spar Aerospace; Sperry Univac, Salt Lake City, UT; Department of National Defense; and others.

Keywords: 1 = Aircraft; 2 = Armament; 5 = Communications; 7 = Electronics; 9 = Environment; 12 = Machining; 19 = Testing/Test Equipment; 20 = Miscellaneous; Landing Gear Components = 1, 12; Alum Dip Brazed Heat Exchangers = 12, 20; Machining = 12; HF Communications = 5; HF Antennas = 5; Sonobuoys = 20; ASW = 20; Beacons = 5; Environmental Laboratory = 19; PC Boards = 7; Weather Stations = 9; Small Arms Components = 2, 12; Repair & Overhaul = 2; Electronic Cabinets = 20; Weldments = 20.

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DIEMASTER TOOL Inc

Code: DIE

Address: 160 Watline Avenue East
Mississauga, Ontario, Canada L4Z 1R1

Contact: Mr. F Hibbins, Manager, Special Projects – (416) 273-7111

History: Diemaster is a Canadian owned company that has been in business for 10 years.

Capability: Diemaster is a precision engineering/machining firm specializing in machining to aerospace, military and nuclear standards, jig boring, CNC machining, EDM machining, turning, and milling. They perform stamping operations from 16 to 500 metric tons. Diemaster also designs and fabricates production tooling, special purpose machines, jigs, fixtures, gauges, and dies. Their quality control meets CSA-Z-299.2, DND 1016 and MIL-I-45208A.

Average Work Force: Total – 120

Gross Sales: $5-$6M

Plant Size: 66,000 sq ft

Equipment: NC & CNC machines, CNC machining centers, and computing centers. Other typical equipment includes mills, grinders, borers, milling machines, drills, lathes, pantograph, presses, cutting, finishing and inspection equipment.

Experience: Diemaster customers include SPAR, AECL, TRW, Avco Lycoming, Sanders' Associates, Dupont, Orenda Engines, Bombardier, IBM, McDonnell Douglas, Pratt & Whitney, Xerox, Rockwell International, RCA and many more well known companies. Products to these companies have included aircraft engine parts, fuel tanks, critical components for aircraft navigation systems, components for nuclear industry, dies, gauges, test and production centers, and stampings.

Keywords: 12 = Machining; Precision Machining = 12; CNC Machining = 12; Boring = 12; Turning = 12; Milling = 12; Stamping = 12; Fabrication = 12; Design = 12; Die Fabrication = 12; Gauges = 12.

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DIFFRACTO Ltd

Code: DIF

Address: 6360 Hawthorne Drive
Windsor, Ontario, Canada N8T 1J9

Contact: Mr. T R Pryor, President – (519) 945-6373

History: Diffracto Ltd was incorporated in 1973 as an offshoot of work done at the University of Windsor. The company is Canadian controlled with a 20% interest owned by Otto Wolff AG of Cologne, Germany. An Otto Wolff subsidiary, Hommelwerke, is also the distributor of Diffracto products in Europe. They also have a US subsidiary, Diffracto Ltd, located at 19640 Harper, Grosse Point Woods, Michigan 48236. Most of the business of the company is conducted in the US through the US subsidiary which largely acts as a sales and service operation.

Capability: Diffracto has been a pioneer in the application of electro-optical inspection equipment to the manufacturing industry, primarily automotive, but also including nuclear, turbine engine, bearings, ordnance, and the like. These electro-optical units were orginally developed on a custom basis, but are increasingly becoming more and more standardized. Many are finding their way into robotic applications and a separate subsidiary is being formed to handle these applications, including both inspection and robot guidance with visual sensing capabilities.

Diffracto currently produces a variety of standard sensor products. In addition are certain special machines, the most predominant example is the Programmable Airfoil Contouring System (PACS) for turbine blade inspection. The PACS was originally developed as a joint Canadian/US Defense Development Sharing project with the USAF (AFWAL/MLTM), General Electric, and Diffracto. This particular project has led to the sales of several such machines to manufacturers of blades in the US and is subject of intense current interest relative to both the inspection of new and rework blades (where additional Diffracto flaw detection equipment can be