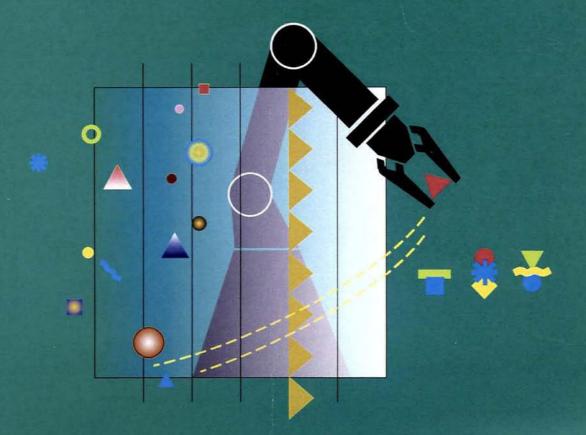


Industry, Science and Technology Canada Industrie, Sciences et Technologie Canada

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Advanced Manufacturing Technologies



Canadä



Copies of this directory are available, without charge, upon request from:

Manufacturing Equipment Division Surface Transportation and Machinery Branch Industry, Science and Technology Canada 235 Queen Street OTTAWA, Ont. K1A 0H5

Tel.: (613) 954-3264 Fax: (613) 954-3430

or any of the ISTC Business Service Centres, which are listed beginning on page 66.

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TECHNOLOGIE CANADA

© Minister of Supply and Services Canada 1991 Cat. No. C21-19/1-1991E ISBN 0-662-18758-X PU 0181-90-01 This directory is one of three developed by Industry, Science and Technology Canada (ISTC) to identify for potential users the Canadian systems integrators that are engaged in the area of Advanced Manufacturing Technologies (AMT). The other directories in this series are:

- Software Suppliers
- Hardware Producers

The AMT sector includes computer-integrated manufacturing systems, services and software used in discrete manufacturing applications. Some examples of such applications include wooden furniture and other millwork, clothing and textiles, fabricated metal products including auto parts, aerospace systems and parts, electrical and electronic products, rubber and plastic products including auto parts, as well as transportation equipment. This directory focuses on small and medium-sized Canadian AMT companies having sales of \$200 million or less annually.

The technologies/products/services/applications included in the directory (with some examples in parentheses) are the following groupings:

- design automation (computer-aided design/manufacturing/ engineering hardware and software);
- cutting and forming (direct numerical controlled and computer numerical controlled machine tools and controllers, new forming technologies such as laser and water jet cutting, engineering data management, flexible manufacturing systems, robot welding systems, plastic injection moulding, and new tooling technologies);
- automated materials and parts handling (robots, automated guided vehicle systems, and automated storage and retrieval systems);
- automated assembly and packaging systems;
- factory floor computers and communications links (industrial computers, programmable logic controllers, local area networks, manufacturing automation protocol, technical office protocol, software and systems integration);
- automated identification, test and inspection systems (vision systems, sensors, coordinate measuring machines, and bar coding); and
- production control (material requirements planning, manufacturing resources planning, flexible manufacturing systems, scheduling systems, and simulation).

There are three sections to this directory. The first section is a list for quick reference to show whether a particular systems integrator is profiled in the directory. The next section profiles companies in alphabetical order, giving company name, address, telephone and facsimile numbers, contact name, a description of the company's expertise and experience in non-technical terms, its areas of specialization and the markets it serves. Finally, three indexes are provided at the end of the directory to further help identify potential suppliers. One is a cross-reference by manufacturing applications in which the systems integrator has experience in interfacing factory automation equipment and software; the second is a cross-reference listing the prime markets served by the companies; and the third gives a cross-reference of companies according to the province in which their head offices and branch offices are located in Canada.

Preface

Preface

The directory is not intended to be a definitive listing, although every effort has been made to include most Canadian companies involved in the AMT sector. The company and product information contained in this guide was provided in response to a questionnaire sent early in 1990 for ISTC by Kerrwil Publications Limited of Mississauga, Ont., to all companies known to be active in the AMT sector. These companies were identified from a variety of existing industry and government sources. In developing this directory, ISTC allowed the companies to provide their own descriptions of their products and/or services, which were then edited to conform with departmental writing standards and to provide some consistency in presentation. No confidential information is included, since it is the intention in publishing this directory to promote its distribution and use as widely as possible.

The publication of company names in this directory does not imply any government endorsement of a firm's capabilities, and while every effort has been made to ensure the accuracy of the information provided, this is not guaranteed. ISTC accepts no liability for consequences of any actions taken upon the information provided. Interested readers are invited to contact the firms directly, since a guide of this nature cannot fully cover all the details about a company.

This is the first edition of this directory, and it is possible that it has not captured all companies in Canada involved in the AMT systems integrators industry. The intention is to update it periodically. Companies wishing to be included in future publications are urged to contact ISTC at the address given on page il. Suggestions for future editions will be most appreciated.

We wish to thank the companies that provided the information contained in this directory.

Automore Electronic Programma Production Proprint Month or Control Assembly Systems in the Control of Control

Adrian Programmable Controller Systems Ltd.

Alnsworth Automation inc.

Andersen Consulting

Aseco Automation Systems Ltd.

A.T. Kearney

Automated Systems Inc.

Automation Components Ltd.

B.J.T. Cieland Ltd. Automation Specialists

Black & McDonaid Ltd.

B.R.i.C. Systems integrators

B.V.L. Industriai Design Ltd.

Canadian Manufacturing Systems Inc.

Caulfield Engineering

Centre Spécialisé de Technologie Physique

CIMTEK Automation Systems Inc.

Coit Engineering Corp.

Cominco Engineering Services Ltd.

Computech Micro Design

Continental Controls Ltd.

Control Digital Inc.

Cortex Englneering Inc.

Cowley Technologies Inc.

Dalon Controlled Productivity Inc.

DATEM Ltd.

Delta Engineering

Duke Electric (1977) Ltd.

Dundas Engineering Services Ltd.

Dycor Industrial Research Ltd.

Dynamic Control Systems

EPCM Services Ltd.

Epic Data Inc.

Giffels Associates Ltd.

GMF Robotics Canada Ltd.

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H.A. Simons Ltd.

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JK Industrial Services Ltd.

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Medar Canada Ltd.

Mektronix Systems Corp.

Numet Engineering Ltd.

Optimex Engineering Ltd.

Peter Brown Manufacturing Ltd.

Plehl Engineering Services Inc.

Powerlasers Ltd.

Prodomax Ltd.

Rhonec Informatics inc.

Robert G. McEwen & Associates

Robert I. Robotics inc.

Robotic Integration Systems Ltd.

Rumble Equipment Ltd.

Satt Control

Scantech Electronics Inc.

SEA Ltd.

Serdek Automated Systems Inc.

Simpson Engineering

SNS Automation Products Ltd.

Spectrum Engineering Corporation Ltd.

Square D Technical Services Operation

Stegor Consultants (1988) Ltd.

Sutherland-Schultz Ltd.

Technoplan Inc.

Teledyne Precision Canada

TOR Computerized Systems Inc.

Tron Industrial Automation Systems Inc.

Walsh Automation Inc.

Wardrop Engineering Inc.

Weiss Systems Inc.

Weistead Automation Ltd.

Westhead Systems Ltd.

Zensoi Automation inc.

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- Fabrication and Assembly
- Automated Material Handling
- Factory Floor Computers
- CAD/CAM Systems
- Programmable Control
- Material and Inventory Control

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Food Processing

Adrian Systems is involved in the application of microprocessor technology in industrial automation and has been in business for 10 years.

Manufacturing Applications:

- Local Area Networks
- Programmable Control
- Factory Floor Computers
- Information Engineering
- SCADA (Supervisory Control and Data Acquisition)

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Mining
- Food Processing

Ainsworth Automation Inc. provides systems integration services in the area of factory floor automation and its links to office automation. Services are provided for the application of programmable controllers, local area networks and supervisory control systems.

Adrian Programmable Controller Systems Ltd.

130 Meadowbank Road ISLINGTON, Ont. M9B 5E4

Tel.: (416) 621-3802 Fax: (416) 621-2703

CONTACT: Bata Kostic President

Ainsworth Automation Inc.

Ainsworth Electric Company Ltd.

120 Bermondsey Road TORONTO, Ont. M4A 1X6

Tel.: (416) 751-4420 Fax: (416) 751-9402

CONTACT: Fouad Barakat

Andersen Consulting

Toronto Dominion Centre 79 Wellington Street West TORONTO, Ont. M5K 1B9 Tel.: (416) 863-1530 Fax: (416) 947-7950

> CONTACT: N.F. Kidwell Partner

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Aerospace
- Defence

The range of services provided by Andersen Consulting includes strategic services, productivity improvement, manufacturing systems development and installation, computer-integrated manufacturing, facilities management, and change management.

Aseco Automation Systems Ltd.

Unit C-7 1 193 North Service Road OAKVILLE, Ont. L6M 2V8 Tel.: (416) 847-1470 Fax: (416) 847-1479

> CONTACT: Robert Peters President

Manufacturing Applications:

- Local Area Networks
- Factory Floor Computers
- Programmable Control
- Material and Inventory Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Food Processing

Aseco Automation Systems Ltd. offers general consulting, process control and computer-integrated manufacturing expertise to a varied client base. Its resources and experience provide clients with assistance in all project phases from conceptual and feasibility studies through final engineering and commissioning.

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Material and Inventory Control
- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Production Planning
- Process Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Consumer Goods

A.T. Kearney's manufacturing consultants are experienced with projects that range from developing overall strategic directions to improving specific aspects of current operations. Its services include assessing the overall effectiveness of manufacturing systems and operations, and developing the most appropriate manufacturing strategies, including facility, equipment and technology rationalization. It seeks improved productivity through more effective deployment and control of resources and through the application of such technologies as robotics, computer-aided design/manufacturing (CAD/CAM), computer-integrated manufacturing (CIM), automated guided vehicle systems (AGVS) and material requirements planning (MRP) systems.

It features successful management concepts such as cellular technology and just-in-time production, and installation of incentive and gainsharing systems. The company can assess the economic feasibility of offshore sourcing or manufacturing, help implement a facilities management strategy from issues of site selection to plant layout and project management, improve the plant maintenance function to maximize equipment utilization levels and minimize production costs, and implement statistical process control (SPC) concepts and approaches for achieving high-quality products at minimum cost.

A.T. Kearney

Suite 2314
20 Queen Street West
P.O. Box 10
TORONTO, Ont.
M5H 3R3
Tel.: (416) 977-6886
Fax: (416) 977-1315

CONTACT: Brian Harrison

Automated Systems Inc.

155 Shields Court MARKHAM, Ont. L3R 9T5 Tel.: (416) 479-8080 Fax: (416) 479-8082

> CONTACT: Ted Jones Vice-President Engineering

• Fabrication

• Fabrication and Assembly

Manufacturing Applications:

• Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts

Automated Systems Inc. specializes in robotic assembly systems, supplying expertise in robotics and turnkey systems for the automotive Industries in particular.

Automation Components Ltd.

Unit 14 50 Galaxy Boulevard REXDALE, Ont. M9W 4Y5 Tel.: (416) 674-1022 Fax: (416) 674-8345

> CONTACT: John Hulford President

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Programmable Control
- Inspection Systems
- Electronic Data Interchange

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Automation Components Ltd. does not build systems but offers technical expertise for either original equipment manufacturers (OEMs) or in-house automation.

- Fabrication and Assembly
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control
- Inspection Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

Markets Served:

- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Aerosol
- Paper Laminating

The Cleland group of companies have been in business for 22 years and offer systems integration solutions based on equipment from a wide range of manufacturers.

Manufacturing Applications:

- Fabrication and Assembly
- Programmable Control
- Production Planning
- Automated Material Handling
- Factory Floor Computers
- Process Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Process Control and Manufacturing

The systems integration division of Black & McDonald Ltd. specializes in full turnkey automation systems for industry; it develops and implements programmable logic controller (PLC) applications of all sizes. The company's capabilities include conceptual development design, manufacturing, programming, installation, commissioning, in-house training and ongoing service and maintenance. Black & McDonald PLC Systems Division is supported by a national network of service and maintenance facilities.

B.J.T. Cleland Ltd. Automation Specialists

P.O. Box 547 HOLLAND LANDING, Ont. 10G 1M0

Tel.: (416) 773-1716 Fax: (416) 836-4217

CONTACT: Tom Cleland Vice-President

Black & McDonald Ltd.

101 Parliament Street TORONTO, Ont. M5A 2Y7

Tel.: (416) 366-2541 Fax: (416) 361-3170

CONTACT: John Rood PLC Systems

B.R.I.C. Systems Integrators

P.O. Box 114 ORONO, Ont. LOB 1MO Tel.: (416) 623-4847 Fax: (416) 623-4847

> CONTACT: B. Ralph Roberts President

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Factory Floor Computers
- Process Planning

- Inspection Systems
- Automated Material Handling
- Programmable Control
- Material and Inventory Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts

B.R.I.C. Systems Integrators specializes in the integration of head end (supervisory or cell) computers with programmable controllers, variable-speed drives, analyzers, and other microprocessor-based equipment with which communication from a central system is desired.

B.V.L. Industrial Design Ltd.

11 Princess Street AMHERST, N.S. B4H 1W5 Tel.: (902) 667-3464 Fax: (902) 667-6008

CONTACT: Bert van Leeuwen President

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Production Planning
- CAD/CAM Systems
- Programmable Control

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

B.V.L. Industrial Design Ltd. provides product/machine/industrial design services linking manufacturing expertise with the "package." Its associate, Van Leeuwen Engineering in Stittsville, Ontario, provides computer-aided design/manufacturing (CAD/CAM) and "electronic packaging" expertise.

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Factory Floor Computers
- Material and inventory Control
- Inspection Systems
- Automated Material Handling
- Programmable Control
- Production Planning
- Process Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Canadian Manufacturing Systems Inc. specializes in the development of IBM-compatible manufacturing software, and also can provide integration services for interfacing factory automation equipment and software.

Manufacturing Applications:

- Fabrication and Assembly
- Programmable Control
- Inspection Systems
- Process Planning

Markets Served:

• Electrical and Electronic Products

Caulfield Engineering develops custom-designed signal processing equipment and software for the security and process control industries. These products are developed either through customized orders or through engineering services provided by Caulfield Engineering.

Canadian Manufacturing Systems Inc.

Unit 101 9011 Leslie Street RICHMOND HILL, Ont. L4C 7B5

Tel.: (416) 886-4916 Fax: (416) 886-9428

CONTACT: Rudy Joss Partner

Caulfield Engineering

Caulfield Creative Arts Ltd.

R.R. 1 OYAMA, B.C. VOH 1WO

Tel.: (604) 548-3244 Fax: (604) 548-3288

CONTACT: D. Caulfield President

Centre Spécialisé de Technologie Physique

140 - 4th Avenue LA POCATIÈRE, Que. GOR 1ZO Tel.: (418) 856-1525 Fax: (418) 856-3458

> CONTACT: Fernand Landry Director

CIMTEK Automation Systems Inc.

Units 4-9 2526 Speers Road OAKVILLE, Ont. L6L 5M2 Tel.: (416) 847-8811 Fax: (416) 847-8822

CONTACT: James Egan General Manager

Manufacturing Applications:

- CAD/CAM Systems
- Factory Floor Computers
- Programmable Control
- Production Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment

Centre Spécialisé de Technologie Physique is a non-profit organization established to aid Quebec's manufacturing industry in the improvement of applied technology, particularly industrial automation. As such, it is not a systems integrator, but may be of help to companies seeking to understand integration services.

Manufacturing Applications:

- Inspection Systems
- Electronic Data Interchange
- Material and Inventory Control
- Local Area Networks
- Factory Floor Computers

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Integrating its proprietary software with industry standard instrumentation and computer hardware components, CIMTEK, which was founded in 1986, provides a turnkey system solution to automation requirements. CIMTEK's expertise includes automatic functional test and calibration systems for electronic devices and circuits, process data acquisition, and machine vision systems for display and package inspection. The company also offers custom-designed software solutions for statistical process control (SPC) and other data reporting applications.

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Fabricated Metal Products Including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Breweries
- Steel Miiis
- Oil, Gas and Petroleum Processing
- Coal
- Forestry
- Food Processing

Colt provides electrical/instrument/control engineering as part of its multidisciplinary engineering capabilities, which also include process, mechanical and civil/structural disciplines. The electrical/instrument/control department specializes in power distribution, field instrumentation and computer-based process control using the most modern means available.

Colt Engineering Corp.

The Colt Companies

Suite 400 10201 Southport Road Southwest CALGARY, Alta. T2P 4X9 Tel.: (403) 258-8000 Fax: (403) 252-2291

CONTACT: Wayne Egan Marketing Manager

Division Address:

Suite 60 201 Centurian Drive MARKHAM, Ont. L3R 8T5

5008 - 86th Street EDMONTON, Alta.

Cominco Engineering Services Ltd.

Suite 100 1200 West 73rd Avenue VANCOUVER, B.C. V6P 6G5 Tel.: (604) 264-5515 Fax: (604) 264-5555

> CONTACT: J. Turnbull Director Technology Sales

Division Address:

Sulte 300 10333 Southport Road Southwest CALGARY, Alta. T2W 3X6

> CONTACT: Tom Smith

Computech Micro Design

Unit 8 7370 Bramalea Road MISSISSAUGA, Ont. L5S 1N6 Tel.: (416) 673-3300 Fax: (416) 673-3300

> CONTACT: Rory Jan Owner

Manufacturing Applications:

- Fabrication and Assembly
- Programmable Control
- Electronic Data Interchange
- Process Planning

Markets Served:

- Mining
- Metallurgy
- Chemical Process
- Fertilizer Production and Storage

Cominco Engineering Services Ltd. provides engineering services and technology primarily to the mining, metallurgical and process industries. Software has been written to interface with IBM mainframes and programmable controllers. The company has experience in the design and operation of robotic systems for mass production of welded aluminum items.

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products

Computech Micro Design can provide complete automation systems including order processing, custom-designed manufacturing equipment controllers and computerized warehousing/inventory systems. For general computerization, it uses personal computers and local/wide area networks. General and data-base software is created using computer-aided software engineering tools and program generators. For control, interfacing and monitoring applications, the company uses either off-the-shelf or custom-designed microprocessor-based controllers and custom-designed software.

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Continental Controls Ltd. (CCL), established in 1975, provides complete turnkey projects from concept/feasibility stages to on-site commissioning. CCL specializes in material handling, high-speed and precision manufacturing, robotics, plant automation, data acquisition, color graphics and microcomputer systems, as well as power engineering and control panel shop applications. A few of its in-house facilities include: computer-aided design (CAD) systems, documentation systems, and both computer and programmable logic controller (PLC) hardware and software development tools. The geographic areas currently served by Continental Controls Ltd. are Canada and the United States.

Manufacturing Applications:

- Fabrication and Assembly
- Programmable Control
- Inspection Systems

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Food Processing

Control Digital Inc. has experience with vision inspection, measurement and control, and robotics systems in the food industry as well as with data collection and programmable logic controller (PLC) systems. It provides turnkey systems, start-up assistance and maintenance functions including field models, upgrades and debug services with equipment varying by age and by manufacturer.

Continental Controls Ltd.

Continental Engineering Group

Unit 6 6650 Finch Avenue West REXDALE, Ont. M9W 5Y6 Tel.: (416) 675-6413 Fax: (416) 675-6964

CONTACT: Ken Hansen

Control Digital Inc.

7 Mentor Boulevard WILLOWDALE, Ont. M2H 2M9 Tel.: (416) 756-2012 Fax: (416) 493-3526

CONTACT: Brian Henson President

Cortex Engineering Inc.

2135 Bridge Road OAKVILLE, Ont. L6L 2E8 Tel.: (416) 827-5918 Fax: (416) 560-6705

CONTACT: R.W. Hills General Manager

Cowley Technologies Inc.

Unit 5 4480 Chesswood Drive DOWNSVIEW, Ont. M3J 2B9 Tel.: (416) 635-1678 Fax: (416) 635-1678

> CONTACT: J. Cowley President

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Factory Floor Computers
- Inspection Systems
- Programmable Control

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Other

Cortex Engineering Inc. is an Industrial control systems integrator providing a full range of services, including system and circuit design as well as control panel manufacturing. Its market includes the entire spectrum of primary and secondary manufacturing industries. A significant customer group comprises small and medium-sized machine builders with requirements for Intelligent motion control.

Manufacturing Applications:

Fabrication and Assembly

CAD/CAM Systems

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products

Cowley Technologies Inc. is a specialist in the design and development of electro-mechanical assembly systems and the Integration of these systems into existing fabrication lines.

- Fabrication and Assembly
- Automated Material Handling
- Programmable Control
- CAD/CAM Systems
- Local Area Networks
- Factory Floor Computers

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Petrochemical
- Steel
- Energy Management

Dalon provides engineering, software and commissioning services for several makes of programmable logic controllers (PLCs) and a wide variety of operator interfaces. It writes custom-designed software for IBM-PC compatibles where off-the-shelf solutions are not available. Its data acquisition software package, "The Data Master," automatically logs PLC data into Lotus 1-2-3 spreadsheet files.

Manufacturing Applications:

- Fabrication and Assembly
- Local Area Networks
- Factory Floor Computers
- Inspection Systems
- Programmable Control

Markets Served:

- Fabricated Metal Products Including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

DATEM Ltd. specializes in systems integration for material handling, energy management, supervisory control and data acquisition (SCADA), test stands and computer-integrated manufacturing (CIM).

Dalon Controlled Productivity Inc.

Basic Holdings Inc., Welland

Suite 202 3600 Billings Court BURLINGTON, Ont. L7N 3N6 Tel.: (416) 632-7411 Fax: (416) 632-4414

CONTACT: Peter Woodhouse Vice-President Sales and Marketing

DATEM Ltd.

Suite 200 16 Concourse Gate NEPEAN, Ont. K2E 7S8 Tel.: (613) 225-5919 Fax: (613) 225-5593

CONTACT: Peter Childs Director of Sales and Marketing

Delta Engineering

2301 St. Laurent Boulevard OTTAWA, Ont. K1G 4J7

Tel.: (613) 521-0348 Fax: (613) 521-8533

> CONTACT: J.A. White President

Manufacturing Applications:

- CAD/CAM Systems
- Electronic Data Interchange
- Process Planning

- Local Area Networks
- Programmable Control

Markets Served:

• Electrical and Electronic Products

Delta Engineering has experience in process control hardware and software. Its Process Control Group provides software and control systems services. The company has a presence in the United States.

Duke Electric (1977) Ltd.

986 Barton Street East HAMILTON, Ont. L8L 3C7 Tel.: (416) 547-9171 Fax: (416) 544-1522

> CONTACT: Eric Raab Vice-President

Manufacturing Applications:

- Automated Material Handling
- Material and Inventory Control
- Programmable Control

Markets Served:

- Wooden Furniture and Other Millwork
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts

Duke Electric designs and supplies automation control systems on an as-required basis.

- Fabrication and Assembly
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Dundas Engineering Services Ltd. designs and custom-builds control panels for motor and process control systems as well as fully automatic pneumatic conveyors to convey bulk materials through pipes.

Manufacturing Applications:

- Inspection Systems
- Factory Floor Computers

Markets Served:

- Wooden Furniture and Other Millwork
- Eiectrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

The systems integration areas of Dycor Industrial Research Ltd. include robotics, vision systems and manufacturing systems. Equipment and software can be provided by the original equipment manufacturer (OEM) or sometimes produced in-house.

Dundas Engineering Services Ltd.

P.O. Box 8132 DUNDAS, Ont. L9H 5E7 Tel.: (416) 648-4872

Fax: (416) 648-8855

CONTACT: John Leising Manager

Dycor Industrial Research Ltd.

Suite 130 17303 - 102nd Avenue EDMONTON, Alta. T5S 1J8

Tel.: (403) 486-0091 Fax: (403) 486-3535

CONTACT: H.M. (Hank) Mottl President

Dynamic Control Systems

Unit 204 13662 - 104th A Avenue SURREY, B.C. V3T 1Y8 Tel.: (604) 585-0655 Fax: (604) 585-0769

> CONTACT: Barry Dashner General Manager

EPCM Services Ltd.

Suite 19 2404 Haines Road MISSISSAUGA, Ont. L4Y 4B8 Tel.: (416) 273-3388 Fax: (416) 273-5121

> CONTACT: Robert S. Jickling President

Manufacturing Applications:

- Fabrication and Assembly
- Programmable Control
- Process Planning/Monitoring
- Automated Material Handling
- Factory Floor Computers
- Quality Assurance Systems

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Process Control
- Vision Systems

Dynamic Control Systems' expertise is in the design, manufacture and integration of vision systems into industrial processing applications, specifically those involving machine controls in the paper, wood products, and steel and aluminum industries. Dynamic Control Systems has designed laser-based three-dimensional vision systems available as sensors or integrated into its process control systems.

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Factory Floor Computers
- Material and Inventory Control
- CAD/CAM Systems
- Programmable Control
- Production Planning
- Process Planning

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Piastic Products including Auto Parts
- Transportation Equipment

EPCM Services Ltd. is a diversified engineering, procurement and construction management contractor. Its expertise covers both the production process and the instrumentation for automation required for efficient operation.

- Inspection Systems
- Programmable Control
- Production Planning
- Local Area Networks
- Factory Floor Computers

Markets Served:

- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment

Founded in 1974, Epic Data Inc. designs, manufactures and markets microprocessor-based data collection systems. Its fully integrated solutions include controllers; terminals; operating, communication and application software; consultation; and full-service systems. The product line includes terminals for the office or shop floor utilizing on-line portable radio-frequency or telephone-system networking. Controllers range from a host programmable control unit able to manage up to 24 terminals to a network control unit capable of managing a network of 1536 terminals. The company's expertise lies in adapting microprocessor technology to data collection applications, including support of both standard and custom-designed hardware and software.

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Factory Floor Computers
- Material and Inventory Control
- CAD/CAM Systems
- Programmable Control
- Production Planning
- Process Planning

Markets Served:

- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Giffels Associates Ltd. has an industrial engineering department experienced in integrating factory systems and programmable logic controllers (PLCs); a group experienced in integrating computer-aided design/manufacturing (CAD/CAM) and factory automation systems, the Ontario Centre for Advanced Manufacturing (OCAM); and a computer group experienced in integrating higher-level data systems.

Epic Data Inc.

EBCO Industries Ltd.

7280 River Road RICHMOND, B.C. V6X 1X5

Tel.: (604) 273-9146 Fax: (604) 270-3412

CONTACT: Vern Totten Vice-President Operations

Giffels Associates Ltd.

30 International Boulevard REXDALE, Ont. M9W 5P3

Tel.: (416) 675-5950 Fax: (416) 675-4620

CONTACT: Bernard Novak

GMF Robotics Canada Ltd.

6395 Kestrel Road MISSISSAUGA, Ont. L5T 1Z5 Tel.: (416) 670-5755 Fax: (416) 670-4046

> CONTACT: Tim Dolan National Sales Manager

Gross Machinery

Group

18 Lower Jarvis Street TORONTO, Ont. M5E 1N1 Tel.: (416) 364-7161 Fax: (416) 367-3464

CONTACT: Michael J. Lishnak Executive Vice-President

Manufacturing Applications:

- Fabrication and Assembly
- Local Area Networks
- Automated Material Handling
- Programmable Control

Markets Served:

- Wooden Furniture and Other Millwork
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

GMF Robotics Canada Ltd. supplies robots, industrial vision systems and off-line programming systems, and can design and deliver a complete turnkey system. Robot applications include assembly, material handling, welding and printing.

Manufacturing Applications:

• Automated Material Handling

Markets Served:

• Fabricated Metal Products including Auto Parts

Gross Machinery Group has progressed from being a supplier of stand-alone computer numerical controlled (CNC) machine tools to being the only Canadian importer/distributer of CNC systems (flexible machining cells and systems or FMC/FMS) using machine tools, material handling equipment, hardware/software, etc., that is not manufactured by the same supplier. The company's goal is to use the proper machine or equipment for the application, regardless of the integration responsibilities (which are accepted by Gross Machinery Group).

- Automated Material Handling
- Programmable Control
- Production Planning`
- Process Planning

- Local Area Networks
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

• Pulp and Paper

Simons's system engineering services encompass corporate and plant-wide systems planning, systems specification and development, network design, systems implementation, and training.

H.A. Simons Ltd.

425 Carrall Street VANCOUVER, B.C. V6B 2J6 Tel.: (604) 664-5985 Fax: (604) 664-4399

CONTACT: William D. Thomas Director, Systems Englneering

Division Addresses:

Simons Systems Inc. 13208 Northup Way BELLEVUE, Washington United States 98005

Tel.: (206) 643-2400 Fax: (206) 643 2009

H.A. Simons Ltée 2001 University Street MONTREAL, Que. H3A 2A6

Simons-Eastern Consultants Inc, One West Court Square DECATUR, Georgia United States 30030

Honey Electric Ltd.

400 Park Avenue West P.O. Box 148 CHATHAM, Ont. N7M 1W9 Tel.: (519) 351-0484 Fax: (519) 351-8710

> CONTACT: Gerry Duchene

Industrial Control Software Inc.

777 Shetland Court OSHAWA, Ont. L1J 7R3 Tel.: (416) 434-7977 Fax: (416) 571-0021

> CONTACT: Terry Ruddell President

Division Address:

4657 West 7th Avenue VANCOUVER, B.C. V6R 1X4

Manufacturing Applications:

- Fabrication and Assembly
- Factory Floor Computers
- Programmable Control
- Process Planning

Markets Served:

Electrical and Electronic Products

Honey Electric Ltd. provides control systems software design consulting, computer-aided design (CAD) services, industrial electrical contracting, small process control systems, retrofits for programmable logic controllers (PLCs) and data acquisition systems.

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Food and Beverage

Industrial Control Software Inc. is a consulting firm that assists factories in the development of software for automated processes. The company has extensive knowledge in working with most makes of programable controllers, computer numerical controlled (CNC) machinery, IBM 286/386-based data gathering systems, machine control monitoring systems and many robot controllers.

- CAD/CAM Systems
- Electronic Data Interchange
- Printed Circuit Boards
- Local Area Networks
- Satellite Beacons
- Ice Sensors

Markets Served:

• Electrical and Electronic Products

INSTRUMAR Ltd. provides research, design and development for sensors and special instrumentation for its subsidiary and contract clients. The company has capability in electronic circuit analysis and analytical behavioral solutions for electromagnetic-based sensors; the company also is involved in simulation technology, particularly mathematical modelling. Principal in-house products are ice sensors for all applications.

INSTRUMAR Ltd.

25 Pippy Place P.O. Box 13246 ST. JOHN'S, Nfld. A1B 4A5

Tel.: (709) 726-8460 Fax: (709) 726-8613

CONTACT: G. Lee Shinkle President and CEO

Division Address:

P.O. Box 7176, Station J OTTAWA, Ont. K2A 4C5

Isumatag Inc.

Unit 2A 291 Woodlawn Road West GUELPH, Ont. N1H 7L6 Tel.: (519) 763-9667 Fax: (519) 763-9280

> CONTACT: Stan Walker President

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Local Area Networks
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Isumataq was founded in 1981 and provides software and systems integration services up to complete turnkey solutions for customers. Primarily, the company provides automatic test systems, plant production and machinery monitoring, statistical quality/process control (SQC/SPC) systems and supervisory control and data acquisition (SCADA) systems to Canadian industry. The systems are used either on the plant floor or in research or quality control labs. The test systems can involve programmable logic controllers (PLCs) or can be computer-based and are usually built to customer specifications, with testing performed in process or on the final product. Many of the monitoring systems are plant-wide and involve interfacing many types of equipment with the system so that data can be provided in a standard usable format.

While the bulk of the data collected are used locally to improve the process, summarized data are sent on to the plant computer for long-term analysis and storage. In carrying out its work, the firm trains employees, assists in reorganizing processes and works at changing attitudes where necessary. The systems the company develops include PLCs, industrial and scientific computers, data acquisition and measurement instruments, terminals, bar code readers and remote data capture terminals. The company interfaces with all types of laboratory equipment, coordinate measuring machines (CMMs) and quality control (QC) measurement instruments. Isumataq designs and builds specialized interfaces as required.

- Fabrication and Assembly
- Electronic Data Interchange
- Automated Material Handling
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

JK Industrial Services Ltd. is an independent design and consulting engineering firm. It specializes in mechanical design and product development, having additional strengths in processes, material handling equipment and value analysis, as well as in castings and foundry engineering.

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Factory Floor Computers
- CAD/CAM Systems
- Programmable Control
- Process Planning

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Food Processing

Manufacturers Automation Engineering Inc. is a professional engineering group involved in the systems integration and process automation fields. The group has the ability to design, build, install and commission fully automated production lines as well as to provide programmable logic controller (PLC) programming and documentation.

JK Industrial Services Ltd.

10848 - 214th Street P.O. Box 598 WINTERBURN, Alta. TOE 2NO Tel.: (403) 447-3042

Fax: (403) 447-4913

CONTACT: J. Friedrich Manager

Manufacturers Automation Engineering Inc.

Suite 6 608 Weber Street North WATERLOO, Ont. N2V 1K4 Tel.: (519) 746-0233 Fax: (519) 746-3047

CONTACT: John Raynor President

Medar Canada Ltd.

320 Marwood Drive OSHAWA, Ont. L1H 7N1 Tel.: (416) 433-1230 Fax: (416) 433-1257

CONTACT: Lawrence Alexander

Manufacturing Applications:

- Inspection Systems
- Electronic Data Interchange
- Factory Floor Computers
- Local Area Networks
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products

Medar Canada Ltd. designs and manufactures computer-controlled automation equipment, including vision gauging and inspection systems, resistance welding controls, computer communications systems and automation machinery. The acquisition of Industrial Development Systems Inc. In Howell, Michigan, allows Medar to provide factory-proven, fully integrated turnkey systems.

Mektronix Systems Corp.

Unit 22 21 Kenview Boulevard BRAMPTON, Ont. L6T 5G7 Tel.: (416) 791-9977 Fax: (416) 791-9737

> CONTACT: Claudio Miniaci Vice-President Technical Services

Manufacturing Applications:

- Fabrication and Assembly
- Factory Floor Computers
- Material and Inventory Control
- Automated Material Handling
- Production Planning
- Process Planning

Markets Served:

Electricai and Electronic Products

Mektronix Systems Corp. provides systems integration and process development of surface-mounted electronic assembly systems.

- Fabrication and Assembly
- CAD/CAM Systems
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Factory Floor Computers
- Material and Inventory Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Numet Engineering Ltd. provides integration services for a variety of automation applications such as assembly (indexing cells and walking beam systems), handling (automated tube systems, automated press parts handling systems), robotics, marking and packaging, welding, and machine vision equipment.

Manufacturing Applications:

- Fabrication and Assembly
- Programmable Control
- Automated Material Handling

Markets Served:

- Fabricated Metal Products including Auto Parts
- Food Processing

Optimex Engineering Ltd. has been in business for 13 years. Its experience comprises engineering and manufacturing custom-designed machinery, material handling equipment, custom-designed and custom-built robots, electrical controls, elevating equipment, etc.

Numet Engineering Ltd.

678 Neal Drive P.O. Box 1776 PETERBOROUGH, Ont. K9J 7X6 Tel.: (705) 743-2708

Fax: (705) 743-3216

CONTACT: Roger Twomey

Optimex Engineering Ltd.

1180 Stone Church Road East HAMILTON, Ont. L8W 2C7 Tel.: (416) 387-1611 Fax: (416) 387-1611

CONTACT: Mr. Poppa

Peter Brown Manufacturing Ltd.

51 Wedgewood Drive CAMBRIDGE, Ont. N1S 2A8 Tel.: (519) 621-9430 Fax: (519) 740-0041

> CONTACT: Peter Brown President

Piehl Engineering Services Inc.

1415 California Avenue P.O. Box 1721 BROCKVILLE, Ont. K6V 6K8 Tel.: (613) 345-6633 Fax: (613) 345-5680

> CONTACT: Carl Piehl CEO

Manufacturing Applications:

Fabrication and Assembly

Automated Material Handling

Markets Served:

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Peter Brown Manufacturing Ltd. is experienced in detailing, fabricating and installing cost-reduction projects, product component supply on a regular basis or in an overload situation, and custom-fabricated equipment (sheet/plate, carbon steel and stainless steel materials).

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Programmable Control
- Production Planning

- Inspection Systems
- Automated Material Handling
- Factory Floor Computers

Markets Served:

Electrical and Electronic Products

Piehl Engineering Services Inc. has staff experienced in product design and automation design. The company currently runs four "autoCAD" and "Intergraph" stations that are active full time.

- Fabrication and Assembly
- Local Area Networks
- Factory Floor Computers
- CAD/CAM Systems
- Programmable Control

Markets Served:

- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Powerlasers Ltd. specializes in the design, development and integration of advanced manufacturing systems and holds many patents on industrial applications of lasers. Powerlasers has developed specialized laser processing techniques; as well, it has designed, prototyped and constructed the necessary equipment and has integrated it into existing manufacturing environments. Powerlasers can develop and integrate advanced manufacturing systems for cutting, machining, marking, engraving, scanning, welding and heat-treating processes, and positioning, as well as systems for remote control devices and communications.

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Inspection Systems
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Prodomax Ltd. is a manufacturing system designer and integrator. It has built all phases of manufacturing systems from single-operator stations to multi-cell robotic assembly and welding systems, including special processing, material handling, inspection and testing equipment, as well as special-purpose equipment such as computer numerical controlled (CNC) grinding, machining, micro-drilling and laser-welding systems.

Powerlasers Ltd.

Suite 204 2700 Steeles Avenue West CONCORD, Ont. L4K 3C8

Tel.: (416) 660-7599 Fax: (416) 660-5160

CONTACT:
Dr. M. Ogmen
Manager
Industrial Applications

Prodomax Ltd.

95 Welham Road BARRIE, Ont. L4M 6E7

Tel.: (705) 726-5841 Fax: (705) 722-8475

CONTACT: Robert Burk President

Rhonec Informatics Inc.

131 Park Avenue West WINDSOR, Ont. N9A 5T6 Tel.: (519) 971-0412 Fax: (519) 971-0414

> CONTACT: Serge Ecoiffier President

Manufacturing Applications:

- Inspection Systems
- Local Area Networks
- Factory Floor Computers
- Automated Material Handling
- Electronic Data Interchange
- Material and Inventory Control

Markets Served:

- Printing
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Rhonec's experience covers a wide variety of services from consulting, design, supply and installation to support of microcomputer-based plant environments. The applications in which Rhonec has been involved include bar coding, communications and management/administrative systems.

Robert G. McEwen Associates

Suite 200 1 North Front Street BELLEVILLE, Ont. K8P 5G9 Tel.: (613) 967-8530 Fax: (613) 966-7861

CONTACT: L. Robert McEwen President

Division Address:

Suite 1202 181 University Ave. TORONTO, Ont. M5H 3M7 Tel.: (416) 865-0591 Fax: (416) 283-2857

PETERBOROUGH, Ont. Tel.: (705) 741-1441

Manufacturing Applications:

- Automated Material HandlingMaterial and Inventory Control
- Programmable Control

Markets Served:

Electrical and Electronic Products

Robert G. McEwen & Associates has worked for various industries to set up production lines and to solve problems such as interruptions and downtime to enhance the efficient movement of materials.

- Fabrication and Assembly
- Automated Material Handling
- Programmable Control
- Process Planning

- Inspection Systems
- Electronic Data Interchange
- Factory Floor Computers

Markets Served:

- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Robert I. Robotics Inc. specializes in managing systems integration involving initial survey, reviewing present/proposed factory operation, qualification, prioritization and selection, developing a shopping list of potential applications, considering technical feasibility and justification, developing economic and other rationale to support implementation decisions, application engineering, system engineering, system supervision, training, and final implementation/start-up of the system.

Robert I. Robotics has been involved in systems integration projects that include material handling, machine loading/unloading, palletizing, assembly, spray painting, dispensing operations and automatic parts retrieval. These systems are produced primarily using proven off-the-shelf components such as our robotic line, which includes Toshiba ROlbot, Toshiba A/C Servo Robots, E-MAT Pneumatic Robots, AKR Hydraulic and Electric Painting Robots and GMF Electric Robots. In addition, Robert I. Robotics Inc. handles Deneb IGRIP automation/simulation software, which utilizes three-dimensional graphics technology for the design, evaluation and programming of robotic workcells off-line. Robert I. Robotics Inc. offers a selection from individual robots to complete system solutions, as well as from requirement evaluation through design and integration to installation and training.

Robert I. Robotics Inc.

Suite 5 958 Leathorne Street LONDON, Ont. N5Z 3M5 Tel.: (519) 686-1003 Fax: (519) 686-1004

CONTACT: Robert B. Isaac Manager

Robotic Integration Systems Ltd.

Site 12, R.R. 4 P.O. Box 49 CALGARY, Alta. T2M 4L4 Tel.: (403) 239-8591

> CONTACT: Gregg Taylor President

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Production Planning
- Inspection Systems
- Programmable Control
- Process Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Robotic Integration Systems Ltd. has the capability to take productivity improvement from the conceptual stage to a turnkey automation installation including training. The company also does consulting on automation technologies, productivity improvement and streamlining of production flow. Small-parts assembly and solder robotics are its main thrust.

Rumble Equipment Ltd.

Relcon Inc.

80 Walker Drive BRAMPTON, Ont. L6T 4M6 Tel.: (416) 458-3321 Fax: (416) 458-1200

> CONTACT: John McMillan

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Factory Floor Computers
- Inspection Systems
- Automated Material Handling
- Programmable Control

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Transportation Equipment

The systems integration areas of Rumble Equipment Ltd. include robotic welding, special-purpose assembly and material handling.

- Fabrication and Assembly
- Local Area Networks
- Factory Floor Computers
- Automated Material Handling
- Programmable Control

Market Served:

- Wooden Furniture and Other Millwork
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Food Processing
- Pharmaceuticals
- Light Chemicals
- Water Treatment and Sewage

Satt Control is the Canadian affiliate of Satt Control AB, a supplier of programmable logic controller (PLC) systems in Europe. In addition to a line of automation control products, Satt Control offers a full range of support services, including system design, software implementation, installation and commissioning to complement the customer's existing capabilities. The company is capable of furnishing turnkey solutions for a wide range of control and monitoring applications in most industrial environments.

Manufacturing Applications

- Inspection Systems
- Programmable Control
- Automated Material Handling

Markets Served:

- Printing
- Electrical and Electronic Products
- Packaging

Scantech Electronics Inc. has been in business for 12 years and specializes in the design, manufacture and servicing of new and/or improved machine control systems. The company designs and develops custom-designed control systems for new machines; it also designs and develops improved control systems for old machines by incorporating state-of-the-art control elements. Scantech provides a full range of electronics assembly and testing services, as well as installation and maintenance services.

Satt Control (a division of Alfa-Laval Ltd.)

101 Milner Avenue SCARBOROUGH, Ont. M1S 4S6

Tel.: (416) 291-7186 Fax: (416) 299-9002

CONTACT:
Per Arne Persson

Scantech Electronics Inc.

5265 Creekbank Road MISSISSAUGA, Ont. L4W 1N3

Tel.: (416) 625-1844 Fax: (416) 625-1858

CONTACT: John Blansche, P.Eng. Account Executive

SEA Ltd.

Mailing Address: P.O. Box 13606, Station A ST. JOHN'S, Nfld. A1B 4G1 Tel.: (709) 364-2075 Fax: (709) 364-8098

Plant Location: 2 Dundee Donovans Industrial Park MOUNT PEARL, Nfld.

> CONTACT: Art Garland Vice-President Marketing

Division Address: 2 Bluewater Road BEDFORD, N.S. B4B 1G7

Serdek Automated Systems Inc.

P.O. Box 322 CHATHAM, Ont. N7M 5K4 Tel.: (519) 351-4230 Fax: (519) 351-8235

> CONTACT: Ron Dekker President

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Material and Inventory Control

Markets Served:

Electrical and Electronic Products

SEA Ltd. specializes in electronics, electrical and electro-mechanical systems. The company's specialized divisions cover a wide range of instrumentation, control and microprocessor systems in the industrial, commercial, defence and marine/offshore sectors, from design through to commissioning and training.

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computer

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

Serdek Automated Systems Inc. is a systems integrator in electrical control systems, providing design and commissioning expertise. It has experience with many programmable logic controllers (PLCs), robotic applications, vision systems, and communications and automation applications, and has a varied background in using expert systems, artificial intelligence (AI), customized software drivers, and supervisory control and data acquisition (SCADA) systems. The company also provides commissioning and trouble-shooting services. In addition to the markets noted above, Serdek is active in the pulp and paper, chemical and metal finishing industries.

- Fabrication and Assembly
- Production Planning
- Automated Material Handling
- Process Planning

Markets Served:

• Fabricated Metal Products including Auto Parts

Simpson Engineering has the capability to identify and evaluate manufacturing and process needs, develop alternative strategies, specify and select component equipment, design customized equipment, integrate control and monitoring systems, and commission systems. The company has experience in the fabrication of automotive parts, material handling, automated assembly and production, as well as process planning for a variety of manufacturing areas.

Manufacturing Applications:

- Fabrication and Assembly
- Local Area Networks
- Factory Floor Computers
- Automated Material Handling
- Electronic Data Interchange

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts

SNS Automation is an engineering house specializing in motion control and systems integration. Some applications the company is involved in include custom-designed control panels for roll-forming feed mechanisms, process control, dust collectors, etc., as well as turnkey systems (e.g. pick-and-place robots, sealant applicators, die transfer units, and hinge-forming and other specialized machinery).

Simpson Engineering

Mech Eng Ltd.

Unit 17 16 Spinnaker Way CONCORD, Ont. L4K 2T8 Tel.: (416) 738-0891 Fax: (416) 738-5661

CONTACT: Dave Simpson Principal

SNS Automation Products Ltd.

SNS Industrial Products Ltd.

132 Sugar Maple Road ST. GEORGE, Ont. NOE 1NO Tel.: (519) 448-3055 Fax: (519) 448-3060

CONTACT: Don SanFilippo President

Spectrum Engineering Corporation Ltd.

544 McDonnel Street P.O. Box 687 PETERBOROUGH, Ont. K9J 6Z8 Tel.: (705) 743-7520 Fax: (705) 743-9878

> CONTACT: Nick Weyman Business Development

Square D Technical Services Operation

Square D Canada Electrical Equipment Inc.

Unit 5 608 Weber Street North WATERLOO, Ont. N2V 1K4 Tel.: (519) 886-9780 Fax: (519) 886-5129

> CONTACT: Dan Cashmore Specialist Service, Marketing and Sales

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Factory Floor Computers
- CAD/CAM Systems
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Transportation Equipment

Spectrum Engineering was founded in 1971 to provide engineering services to clients in the nuclear, defence, manufacturing and aerospace business sectors. Its expertise is offered in mechanism design, instrumentation and control, as well as electrical and structural design. A research and development facility, including an electronic laboratory, is available for the development of customized systems.

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products

Square D Technical Services Operation can provide systems integration using Square D's programmable logic controller (PLC) SYMAX for most processes in industry. Square D has completed projects using SYMAX on press coating, lighting (energy) management and other similar applications.

- Fabrication and Assembly
- CAD/CAM Systems
- Electronic Data Interchange
- Factory Floor Computers
- Material and inventory Control
- Inspection Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Stegor Consultants' assistance to companies can range from preliminary system specifications to full turnkey systems, depending on customer requirements. Its areas of expertise include programmable logic controllers (PLCs), full computer-controlled systems, integration of and/or interface with computer numerical controlled (CNC) machines, robotic cells, flexible manufacturing lines and painting and finishing systems. All required tool design and tooling can be provided by Stegor Consultants. Readlly available building blocks such as pick-and-place robots, transfer systems and pallets, and special-purpose equipment is utilized to meet customer needs.

In addition to providing new designs and systems, Stegor can evaluate the performance of existing systems and can make recommendations and implement changes as required. The scope covered in this area includes rehabilitation of systems that do not meet intended requirements as well as revisions/additions needed for new products or new specifications.

Stegor Consultants (1988) Ltd.

225 Sheldon Drive CAMBRIDGE, Ont. N1T 1A1

Tel.: (519) 621-9743 Fax: (519) 621-5177

CONTACT: Don Stelliga Vice-President

Sutherland Schultz Ltd.

Derlan Industries

859 Courtland Avenue East KITCHENER, Ont. N2C 1B3 Tel.: (519) 743-4123 Fax: (519) 743-8612

> CONTACT: Michael P. Voll Corporate Representative

Technoplan Inc.

JLEC Consulting Inc.

Place Bonaventure 4 Farnham Place MONTREAL, Que. H5A 1C3 Tel.: (514) 861-7131 Fax: (514) 697-2485

> CONTACT: John Eaves Partner

Manufacturing Applications:

- Fabrication and Assembly
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Inspection Systems
- Local Area Networks
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Sutherland-Schultz Ltd. is an engineering and construction company specializing in factory automation through mechanical and electrical design and fabrication. The construction side is experienced in all major trades, including millwrighting, electrical, sheet metal, piping, insulation, and heating, ventilating and air conditioning (HVAC) trades. The engineering portion employs 80 people and specializes in controls automation, instrumentation and process control, real-time software programming and mechanical/electrical design.

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control
- Inspection Systems
- Automated Material Handling
- Programmable Control
- Production Planning
- Process Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

Technoplan Inc. assists clients who are light manufacturers in Canada and the United States. It upgrades operations management systems including computer-aided design/engineering/manufacturing (CAD/CAE/CAM), computer-integrated manufacturing (CIM), just-in-time (JIT) manufacturing, manufacturing resources planning (MRP II), statistical process control (SPC) and total quality control (TQC). The company also designs and builds manufacturing facilities on a turnkey basis, and undertakes mandates to transfer technologies primarily from Europe to Canada.

- Fabrication and Assembly
- CAD/CAM Systems
- Inspection Systems
- Automated Material Handling

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment

As manufacturers of customized machinery with complete designing, building and testing facilities, Teledyne Precision Canada provides total systems concepts for manufacturers with production problems. From welding to assembly of small and large components, Teledyne Precision Canada engineers provide the solutions to problems. Training for and start-up of Teledyne Precision Canada equipment are performed by service technicians both in the field and internally before the equipment is commissioned. The company is experienced in integrating new equipment with existing proven production methods or supplying a complete system to improve productivity. Areas of expertise include material handling, inspection, assembly, machining, robotics and vision systems, welding and packaging or any combination of the foregoing. Controls and software can be specified by the manufacturer or selected by Teledyne Precision Canada to suit the application.

Manufacturing Applications:

- Fabrication and Assembly
- Local Area Networks
- Factory Floor Computers
- CAD/CAM Systems
- Programmable Control

Markets Served:

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts

TOR Computerized Systems Inc. provides integration of computer-aided design/manufacturing (CAD/CAM), computer numerical controlled (CNC) and robotic systems.

Teledyne Precision Canada

72 Carnforth Road TORONTO, Ont. M4A 2L2 Tel.: (416) 759-1138 Fax; (416) 759-5538

CONTACT: John Gillies General Manager

TOR Computerized Systems Inc.

Units 14 and 15 160 Applewood Crescent CONCORD, Ont. L4K 4H2

Tel.: (416) 660-3262 Fax: (416) 660-1382

CONTACT: Frank Nanfara President

Tron Industrial Automation Systems Inc.

Suite 32 1002 Arlington Avenue SASKATOON, Sask. S7H 2X7 Tel.: (306) 955-9700 Fax: (306) 373-8115

> CONTACT: Clif Skrypnyk President

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Material and Inventory Control
- Quality Assurance Systems

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Equipment Manufacturers
- Oil and Gas

Tron Industrial Automation Systems Inc. was founded in 1984 to provide progressive manufacturing companies with expertise on a cost-effective contract basis. Tron employs an international network of professionals with experience in all aspects of marketing, production, management, finance and human resources. Consulting projects have spanned the spectrum from market studies, plant evaluations and quality assurance systems to new-product development, plant design and feasibility studies for automated equipment such as robotics.

- Fabrication and Assembly
- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Process Planning

- Inspection Systems
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers

Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Clothing and Textiles
- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Pulp and Paper
- Mining
- Power
- Chemical
- Oil and Gas
- Food Processing

Walsh Automation Inc. is an independent firm of consulting engineers dedicated to the development and implementation of comprehensive, engineered solutions for a wide range of clients in manufacturing, process and resource-based industries. The company has completed projects throughout North America as well as overseas.

Walsh Automation Inc.

Suite 670 3300 Cavendish Boulevard MONTREAL, Que. H4B 2M8 Tel.: (514) 485-6611 Fax: (514) 485-6617

CONTACT: Robert Walsh Senior Consultant

Wardrop Engineering Inc.

Suite 600 6725 Airport Road MISSISSAUGA, Ont. L4V 1V2 Tel.: (416) 673-3788 Fax: (416) 673-8007

> CONTACT: E.C. Card Vice-President

Division Addresses:

Suite 400 386 Broadway Avenue WINNIPEG, Man. R3C 4M8

> 595 Squier Street THUNDER BAY, Ont. P7B 4A7

Unit 202 17612 - 107th Avenue EDMONTON, Alta. T5\$ 1G8

Manufacturing Applications:

- CAD/CAM Systems
- Electronic Data Interchange
- Factory Floor Computers
- Process Planning

- Automated Material Handling
- Programmable Control
- Production Planning

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Resources
- Power

Wardrop is a multidisciplinary engineering company that has been actively engaged in projects across Canada and internationally since 1955. It is involved in the fields of nuclear engineering, computer modelling, robotics, aerospace and space systems engineering, and machine design, as well as in the more conventional consulting engineering fields. Wardrop offers professional design, assembly and installation services to industry in the application, selection and construction of high-technology systems. Its personnel have practical experience in machine automation, sequential and batch controls, communication networks, industrial computers and advanced human-machine interface. As well, the company is experienced in prototype development and has undertaken the design and supply of specialized prototype equipment for the aerospace, nuclear and automotive industries.

- CAD/CAM Systems
- Local Area Networks
- Programmable Control
- Production Planning
- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Process Planning

Markets Served:

- Clothing and Textiles
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Food
- Pulp and Paper
- Chemical and Petrochemical
- Breweries, Distilleries and Wineries

Weiss Systems Inc. has experience in designing and installing instrumentation, controls, systems and automation for a broad spectrum of industries as consultants, engineers and designers. It entered the field of systems integration in 1987, covering applications from pneumatic to distributed control systems, programmable logic controllers (PLCs), industrial computers and computer-integrated manufacturing (CIM). The company also develops and markets its own software.

Weiss Systems Inc.

505 Queensway East MISSISSAUGA, Ont. L5A 4B4

Tel.: (416) 279-2885 Fax: (416) 279-2279

CONTACT: V. S. Weiss Chief Engineer

Division Addresses:

5750 Parkhaven MONTREAL, Que. H4W 1X5

4515 Dalhart Road Northwest CALGARY, Alta. T3A 1B9

Welstead Automation Ltd.

Unit 4 117 Ringwood Drive STOUFFVILLE, Ont. L4A 8C 1 Tel.: (416) 640-8222 Fax: (416) 640-4484

> CONTACT: Pam Welstead

Manufacturing Applications:

- Fabrication and Assembly
- CAD/CAM Systems
- Programmable Control
- Material and Inventory Control
- Inspection Systems
- Automated Material Handling
- Production Planning
- Process Planning

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Transportation Equipment
- Power Utilities
- Equipment Manufacturers
- Food Processing
- Engineering Consultants

Welstead Automation Ltd. provides turnkey control system solutions from design to start-up. Its specialization is in industrial software and supporting hardware for computer-aided engineering (CAE), computer-based training, graphic operator interfaces and programmable controller support for Allen-Bradley, Modicon, Siemens, Idec, Texas Instruments and Mitsubishi. The company is the Canadian distributor for Roxborough electric computer consoles.

Westhead Systems Ltd.

358 Humberline Drive REXDALE, Ont. M9W 6B1 Tel.: (416) 675-1662 Fax: (416) 675-3061

> CONTACT: Eileen Page

Manufacturing Applications:

- Local Area Networks
- Factory Floor Computers
- Material and Inventory Control
- Programmable Control
- Production Planning

Markets Served:

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Food Processing

Westhead Systems Ltd. provides systems integration services to the manufacturing and food processing industries. The company has experience in network design, programmable logic controller (PLC) programming and configuration, plant floor computers and computer-integrated manufacturing (CIM) applications.

- Automated Material Handling
- Electronic Data Interchange
- Factory Floor Computers
- Local Area Networks
- Programmable Control
- Production Planning

Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Packaging
- Process Control

Zensol Automation Inc. specializes in automation and industrial software (computer-integrated manufacturing (CIM)), and is engaged in three areas of activity: sales of standard software for industry, sales of custom-designed software for industry, and technical assistance. Zensol recommends systems permitting instant acquisition of important information for manufacturing. This information can be made visible on a screen (monitoring and alarms), printed or conserved in a data base or treated by other programs. The operators can then detect problems in the functioning of the plant, including slow production sites.

Zensol Automation Inc.

5720 Chemin St.-François SAINT-LAURENT, Que. H4S 1B4

Tel.: (514) 334-5900 Fax: (514) 334-5373

CONTACT: Fouad Brikcl President

Fabrication and Assembly

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Andersen Consulting	
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Automation Components Ltd	4
B.J.T. Cleland Ltd. Automation Specialists	
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B.V.L. Industrial Design Ltd	
Canadian Manufacturing Systems Inc	
Caulfield Engineering	
Colt Engineering Corp	
Cominco Engineering Services Ltd	10
Computech Micro Design	10
Continental Controls Ltd	11
Control Digital Inc	11
Cortex Engineering Inc	12
Cowley Technologies Inc	12
Dalon Controlled Productivity Inc	13
DATEM Ltd	13
Dundas Engineering Services Ltd	15
Dynamic Control Systems	1
EPCM Services Ltd	1
Giffels Associates Ltd	17
GMF Robotics Canada Ltd	18
Honey Electric Ltd	20
Industrial Control Software Inc.	20
Isumataq Inc.	2
JK Industrial Services Ltd	23
Manufacturers Automation Engineering Inc.	23
Mektronix Systems Corp	24
Numet Engineering Ltd	
Optimex Engineering Ltd	2
Peter Brown Manufacturing Ltd	20
Piehl Engineering Services Inc.	20
Powerlasers Ltd	2
Prodomax Ltd	2
Robert I. Robotics Inc.	29
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Canadian Manufacturing Systems Inc.	
Caulfield Engineering	
CIMTEK Automation Systems Inc.	
Colt Engineering Corp.	
Computech Micro Design	
Continental Controls Ltd	
Control Digital Inc.	
Cortex Engineering Inc	
DATEM Ltd	
Dycor Industrial Research Ltd.	
Epic Data Inc	
Industrial Control Software Inc.	
Isumatag Inc.	
Medar Canada Ltd.	
Numet Engineering Ltd.	
Piehl Engineering Services Inc.	
Prodomax Ltd	
Rhonec Informatics Inc.	
Robert I. Robotics Inc.	
Robotic Integration Systems Ltd.	
Rumble Equipment Ltd	
Scantech Electronics Inc.	
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	B.V.L. Industrial Design Ltd	
	Canadian Manufacturing Systems Inc.	7
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	Continental Controls Ltd	11
	Cowley Technologies Inc	
	Dalon Controlled Productivity Inc	
	Delta Engineering	14
	EPCM Services Ltd.	
	Giffels Associates Ltd	17
	Industrial Control Software Inc.	20
	INSTRUMAR Ltd	21
	Manufacturers Automation Engineering Inc	23
	Numet Engineering Ltd	25
	Plehl Engineering Services Inc	
	Powerlasers Ltd.	
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Adrian Programmable Controller Systems Ltd	1
Andersen Consulting	
A.T. Kearney	
Automation Components Ltd	
B.J.T. Cleland Ltd. Automation Specialists	
Black & McDonald Ltd	
B.R.I.C. Systems Integrators	
B.V.L. Industrial Design Ltd.	
Canadian Manufacturing Systems Inc.	
Colt Engineering Corp.	
Computech Micro Design	
Continental Controls Ltd	
Cortex Engineering Inc	
Dalon Controlled Productivity Inc	
Duke Electric (1977) Ltd.	
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Peter Brown Manufacturing Ltd	26
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Rhonec Informatics Inc.	28
Robert G. McEwen & Associates	28
Robert I. Robotics Inc.	29
Robotic Integration Systems Ltd	30
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W	alsh Automation Inc3	9
W	ardrop Engineering Inc4	0
W	eiss Systems Inc4	1
W	elstead Automation Ltd4	2
Ze	nsol Automation Inc4	3
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	nsworth Automation Inc	
	ndersen Consulting	
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C	olt Engineering Corp	.9
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C	ontinental Controls Ltd	11
Do	alon Controlled Productivity Inc	13
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Н.	A. Simons Ltd	19
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lst	ımataq Inc	22
М	edar Canada Ltd	24
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Rł	onec Informatics Inc	28
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Sc	att Control	31
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Colf Engineering Corp	
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JK Industrial Services Ltd	23
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A.T. Kearney	
Automated Systems Inc.	
Automation Components Ltd	
B.J.T. Cleland Ltd. Automation Specialists	
Black & McDonald Ltd	_

B.R.I.C. Systems Integrators	
B.V.L. Industrial Design Ltd	6
Canadian Manufacturing Systems Inc.	7
Caulfield Engineering	7
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Colt Engineering Corp	
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Dalon Controlled Productivity Inc	.13
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Colt Engineering Corp	
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Giffels Associates Ltd	
H.A. Simons Ltd	
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	Industrial Control Software Inc2	
	Isumataq Inc2	
	Mektronix Systems Corp2	
	Numet Engineering Ltd2	
	Rhonec Informatics Inc2	
	Robert G. McEwen & Associates2	
	SEA Ltd3	
	Stegor Consultants (1988) Ltd3	
	Technoplan Inc3	
	Tron Industrial Automation Systems Inc3	
	Welstead Automation Ltd4	
	Westhead Systems Ltd4	2
•	Process Planning/Monitoring	
	Andersen Consulting	2
	A.T. Kearney	
	B.J.T. Cleland Ltd. Automation Specialists	
	Black & McDonald Ltd.	
	B.R.I.C. Systems Integrators	
	Canadian Manufacturing Systems Inc.	
	Caulfield Engineering	
	Colf Engineering Corp.	
	Cominco Engineering Services Ltd	
	Computech Micro Design	
	Continental Controls Ltd	
	NOTIFICATION NOTIFICALIZATION FOR THE PROPERTY OF THE PROPERTY	

Dynamic Control Systems
_ •
EPCM Services Ltd16
Giffels Associates Ltd17
H.A. Simons Ltd19
Honey Electric Ltd20
Industrial Control Software Inc20
Isumataq Inc22
Manufacturers Automation Engineering Inc23
Mektronix Systems Corp24
Numet Engineering Ltd25
Robert I. Robotics Inc29
Robotic Integration Systems Ltd30
Simpson Engineering33
Stegor Consultants (1988) Ltd35
Technoplan Inc36
Tron Industrial Automation Systems Inc38
Walsh Automation Inc39
Wardrop Engineering Inc40
Weiss Systems Inc41
Welstead Automation Ltd42
Information Engineering
Ainsworth Automation Inc
Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition)
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc
SCADA (Supervisory Control and Data Acquisition) Ainsworth Automation Inc

• Wooden Furniture and Other Millwork

Adrian Programmable Controller Systems Ltd1
Andersen Consulting2
A.T. Kearney3
Automation Components Ltd4
Black & McDonald Ltd5
B.V.L. industrial Design Ltd6
Canadian Manufacturing Systems Inc7
Centre Spécialisé de Technologie Physique8
Computech Micro Design10
Continental Controls Ltd11
Cortex Engineering Inc12
Cowley Technologies Inc12
Duke Electric (1977) Ltd14
Dycor Industrial Research Ltd15
GMF Robotics Canada Ltd18
Isumataq Inc22
Robotic Integration Systems Ltd30
Rumble Equipment Ltd30
Satt Control31
Stegor Consultants (1988) Ltd35
Technoplan Inc36
Tron industriai Automation Systems Inc38
Walsh Automation inc39
Zensol Automation inc43
Printing
Andersen Consulting2
A.T. Kearney3
Automation Components Ltd4
B.J.T. Cleiand Ltd. Automation Specialists5
Continental Controls Ltd11
Cortex Engineering Inc12
Epic Data Inc17
Giffels Associates Ltd17
Isumataq Inc22
Rhonec Informatics inc28
Scantech Electronics inc31
Tron industrial Automation Systems Inc38
Walsh Automation Inc39

• Clothing and Textiles

	Andersen Consulting	2
	Cortex Engineering Inc	
	Duke Electric (1977) Ltd	
	GMF Robotics Canada Ltd	
	Industrial Control Software Inc.	
	Isumataq Inc.	.22
	Powerlasers Ltd	
	Robert I. Robotics Inc.	,29
	Satt Control	
	Stegor Consultants (1988) Ltd	.,35
	Technoplan Inc	
	Tron Industrial Automation Systems Inc.	.38
	Walsh Automation Inc	
	Weiss Systems Inc.	.41
	Elitaria de la Brancia de la Carte de Andre Brancia	
0	Fabricated Metal Products including Auto Parts	
	Adrian Programmable Controller Systems Ltd.]
	Ainsworth Automation Inc.	,,,,
	Andersen Consulting	2
	Aseco Automation Systems Ltd	2
	A.T. Kearney	3
	Automated Systems Inc.	4
	Automation Components Ltd	4
	B.J.T. Cleland Ltd. Automation Specialists	
	Black & McDonald Ltd	ξ
	B.R.I.C. Systems Integrators	
	B.V.L. Industrial Design Ltd	
	Canadian Manufacturing Systems Inc.	
	Centre Spécialisé de Technologie Physique	
	CIMTEK Automation Systems Inc	
	Colt Engineering Corp	
	Computech Micro Design	
	Continental Controls Ltd	
	Control Digital Inc.	
	Cortex Engineering Inc	
	Cowley Technologies Inc	
	Dalon Controlled Productivity Inc	
	DATEM Ltd	
	Duke Electric (1977) Ltd	
	Dundas Engineering Services Ltd	
	Dynamic Control Systems	
	EPCM Services Ltd.	
	Epic Data Inc	1

CIMTEK Automation Systems Inc	
Computech Micro Design	10
Continental Controls Ltd	11
Control Digital Inc	11
Cortex Engineering Inc	
Cowley Technologies Inc	
Dalon Controlled Productivity Inc	13
Delta Engineering	
Dundas Engineering Services Ltd	15
Dycor Industrial Research Ltd	
Dynamic Control Systems	16
EPCM Services Ltd	16
Epic Data Inc	17
Giffels Associates Ltd	17
GMF Robotics Canada Ltd	.18
Honey Electric Ltd	
Industrial Control Software Inc	
INSTRUMAR Ltd	.21
Isumataq Inc	
JK Industrial Services Ltd	
Manufacturers Automation Engineering Inc	
Medar Canada Ltd	
Mektronix Systems Corp	
Numet Engineering Ltd	
Piehl Engineering Services Inc	
Powerlasers Ltd	
Prodomax Ltd	
Rhonec Informatics Inc	
Robert G. McEwen & Associates	
Robert I. Robotics Inc	
Robotic Integration Systems Ltd	
Scantech Electronics Inc	
SEA Ltd	
Serdek Automated Systems Inc	
SNS Automation Products Ltd	
Square D Technical Services Operation	
Stegor Consultants (1988) Ltd	
Sutherland-Schultz Ltd	
Teledyne Precision Canada	
Tron Industrial Automation Systems Inc	
Wardrop Engineering Inc	
Weiss Systems Inc.	
Welstead Automation Ltd	
Westhead Systems Ltd	
Zensol Automation Inc	43

• Rubber and Plastic Products including Auto Parts

Adrian Programmable Controller Systems Ltd	1
Ainsworth Automation Inc.	1
Andersen Consulting	
Aseco Automation Systems Ltd	2
A.T. Kearney	3
Automated Systems Inc.	4
Automation Components Ltd	4
B.J.T. Cleland Ltd. Automation Specialists	5
Black & McDonald Ltd	5
B.R.I.C. Systems Integrators	6
B.V.L. Industrial Design Ltd.	6
Canadian Manufacturing Systems Inc.	
CIMTEK Automation Systems Inc	8
Colt Engineering Corp.	9
Continental Controls Ltd	.11
DATEM Ltd	
Dundas Engineering Services Ltd	
Dycor Industrial Research Ltd	.15
EPCM Services Ltd	.16
Giffels Associates Ltd	.17
GMF Robotics Canada Ltd	
Industrial Control Software Inc.	.20
Isumataq Inc.	
JK Industrial Services Ltd	
Manufacturers Automation Engineering Inc	
Numet Engineering Ltd	
Peter Brown Manufacturing Ltd	26
Powerlasers Ltd	27
Prodomax Ltd	27
Rhonec Informatics Inc.	
Robert I. Robotics Inc.	
Robotic Integration Systems Ltd	
Satt Control	
Serdek Automated Systems Inc.	
SNS Automation Products Ltd	
Stegor Consultants (1988) Ltd	
Sutherland-Schultz Ltd	
Technoplan Inc.	36
Teledyne Precision Canada	
TOR Computerized Systems Inc.	
Tron Industrial Automation Systems Inc	
Walsh Automation Inc	
Wardrop Engineering Inc	40

	Weiss Systems Inc41	
	Welstead Automation Ltd42	
	Westhead Systems Ltd42	
	Zensol Automation Inc43	
_	Transportation Equipment	
U	Transportation Equipment	
	Andersen Consulting2	
	Aseco Automation Systems Ltd2	
	A.T. Kearney3	
	Black & McDonald Ltd5	
	B.V.L. Industrial Design Ltd6	
	Centre Spécialisé de Technologie Physique8	
	Continental Controls Ltd11	
	DATEM Ltd13	
	EPCM Services Ltd16	
	Epic Data Inc17	
	Industrial Control Software Inc20	
	Isumataq Inc22	
	Numet Engineering Ltd25	
	Peter Brown Manufacturing Ltd26	
	Powerlasers Ltd27	
	Robert I. Robotics Inc29	
	Rumble Equipment Ltd30	
	Satt Control31	
	Spectrum Engineering Corporation Ltd34	
	Stegor Consultants (1988) Ltd35	
	Sutherland-Schultz Ltd36	
	Technoplan Inc36	ı
	Teledyne Precision Canada37	
	Tron Industrial Automation Systems Inc38	
	Wardrop Engineering Inc40	
	Welstead Automation Ltd42	
_	Food Duo cooling	
•	Food Processing	
	Adrian Programmable Controller Systems Ltd1	
	Ainsworth Automation Inc	
	Aseco Automation Systems Ltd2	,
	Colt Engineering Corp9	ı
	Control Digital Inc11	
	Manufacturers Automation Engineering Inc23	,
	Optimex Engineering Ltd25	ŀ
	Satt Control31	
	Walsh Automation Inc39)
	Welstead Automation Ltd42	
	Westhead Systems Ltd	

Other

Resource Industries (oil, gas and petroleum; plastics, rubber and chemical products; forest products; mining, metals and minerals; marine; and energy/utilities), Biotechnology and Health Care Products

Ainsworth Automation Inc
B.J.T. Cleland Ltd. Automation Specialists
Colt Engineering Corp
Cominco Engineering Services Ltd
Dalon Controlled Productivity Inc
·
Gross Machinery Group
Satt Control31 Tron Industrial Automation Systems Inc
·
Walsh Automation Inc
Wardrop Engineering Inc40
Weiss Systems Inc
Welstead Automation Ltd42
Zensol Automation Inc43
Service Industries and Consumer Goods (services and furniture);
Appliances; and Leisure, Food, Grocery and Beverage Products
Adrian Programmable Controller Systems Ltd
Ainsworth Automation Inc
Aseco Automation Systems Ltd2
A.T. Kearney3
Colt Engineering Corp9
Control Digital Inc11
Industrial Control Software Inc20
Optimex Engineering Ltd25
Satt Control31
Walsh Automation Inc39
Weiss Systems Inc41
Welstead Automation Ltd42
Westhead Systems Ltd
Defence
Andersen Consulting2
Andersen Consuming2
Aerosols
B.J.T. Cleland Ltd. Automation Specialists5

Process Control and Manufacturing Black & McDonald Ltd5
Dynamic Control Systems
Zensol Automation Inc43
Equipment Manufacturers
Tron Industrial Automation Systems Inc38
Welstead Automation Ltd42
Water Treatment and Sewage
Satt Control31
Vision Systems
Dynamic Control Systems16
Fertilizer Production and Storage
Cominco Engineering Services Ltd10
Packaging
Scantech Electronics Inc31
Zensol Automation Inc

• British Columbia

	Caulfield Engineering7
	Cominco Engineering Services Ltd10
	Dynamic Control Systems16
	Epic Data Inc17
	H.A. Simons Ltd19
	Industrial Control Software Inc20
•	Alberta
	Colt Engineering Corp9
	Cominco Engineering Services Ltd
	Dycor Industrial Research Ltd
	JK Industrial Services Ltd23
	Robotic Integration Systems Ltd30
	Wardrop Engineering Inc40
	Weiss Systems Inc41
•	Saskatchewan
	Tron Industrial Automation Systems Inc
•	Manitoba
	Wardrop Engineering Inc40
•	Ontario
	Adrian Programmable Controller Systems Ltd
	Ainsworth Automation Inc.
	Andersen Consulting2
	Aseco Automation Systems Ltd2
	A.T. Kearney3
	Automated Systems Inc4
	Automation Components Ltd4
	B.J.T. Cleland Ltd. Automation Specialists5
	Black & McDonald Ltd5
	B.R.I.C. Systems Integrators6
	Canadian Manufacturing Systems Inc7
	CIMTEK Automation Systems Inc8
	Colt Engineering Corp9
	Computech Micro Design
	Continental Controls Ltd
	Control Digital Inc
	Cortex Engineering Inc
	Cowley Technologies Inc12

Cross-Reference of Company Location by Province

Cross-Reference of Company Location by Province

o (Ontario continued)

Dalon Controlled Productivity Inc	
DATEM Ltd	13
Delta Engineering	
Duke Electric (1977) Ltd	14
Dundas Engineering Services Ltd.	
EPCM Services Ltd	
Giffels Associates Ltd	16
GMF Robotics Canada Ltd	
Gross Machinery Group	
Honey Electric Ltd	
Industrial Control Software Inc.	20
INSTRUMAR Ltd	21
Isumataq Inc.	22
Manufacturers Automation Engineering Inc	23
Medar Canada Ltd	
Mektronix Systems Corp	24
Numet Engineering Ltd	25
Optimex Engineering Ltd	
Peter Brown Manufacturing Ltd	
Piehl Engineering Services Inc.	
Powerlasers Ltd.	27
Prodomax Ltd	
Rhonec Informatics Inc	28
Robert G. McEwen & Associates	28
Robert I. Robotics Inc.	29
Rumble Equipment Ltd	30
Satt Control	31
Scantech Electronics Inc.	31
Serdek Automated Systems Inc.	32
Simpson Engineering (Mech Eng Ltd.)	33
SNS Automation Products Ltd	33
Spectrum Engineering Corporation Ltd	34
Square D Technical Services Operation	34
Stegor Consultants (1988) Ltd	35
Sutherland-Schultz Ltd. (Derlan Industries)	36
Teledyne Precision Canada	37
TOR Computerized Systems Inc.	37
Wardrop Engineering Inc	40
Weiss Systems Inc.	4
Welstead Automation Ltd	42
Westhead Systems Ltd	42

• Quebec

Centre Spécialisé de Technologie Physique	.,8
H.A. Simons Ltd.	
Technoplan Inc	36
Walsh Automation Inc	39
Weiss Systems Inc.	41
Zensol Automation Inc.	43
Nova Scotia	
B.V.L. Industrial Design Ltd	6
SEA Ltd.	32
Newfoundland	
INSTRUMAR Ltd	21
SEA 11d	32

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Fax: (403) 495-4507

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Fax: (403) 292-4578

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Fax: (604) 666-0277

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Fax: (403) 668-5003

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X1A 2R3

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