



Industry, Science and  
Technology Canada

Industrie, Sciences et  
Technologie Canada

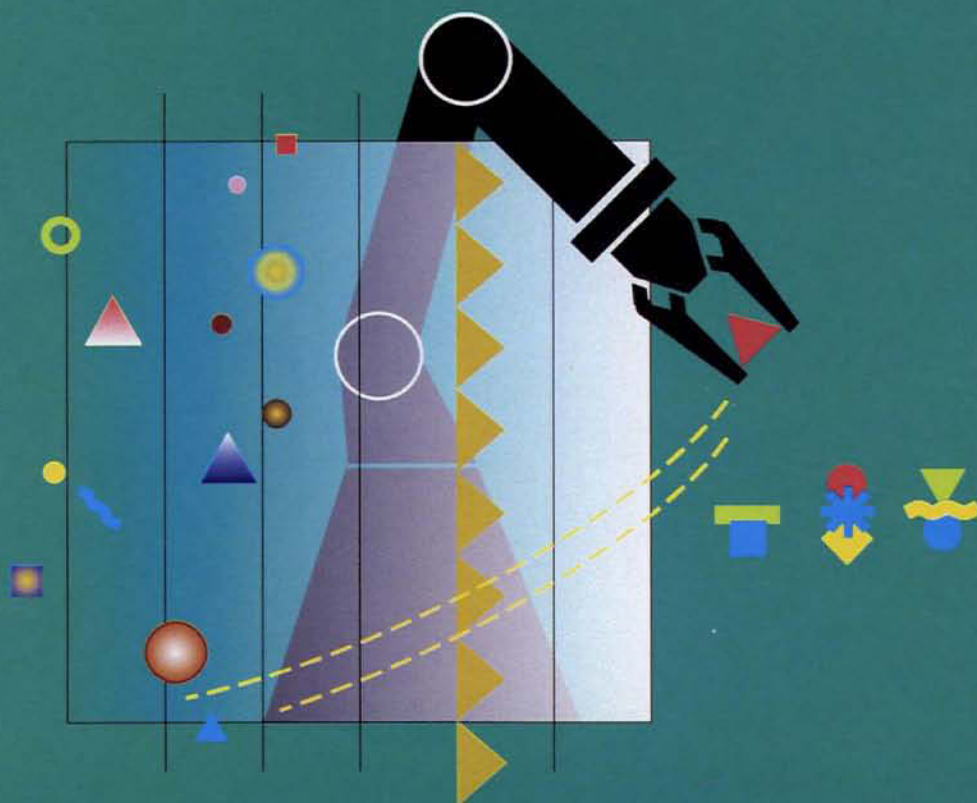
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Advanced  
Manufacturing  
Technologies



Canada



Aussi disponible en français



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 at any of the ISTC Business Services Centres, which are listed beginning on page 82.

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## Preface

This directory is one of three developed by Industry, Science and Technology Canada (ISTC) to identify for potential users the Canadian hardware producers that are engaged in the area of Advanced Manufacturing Technologies (AMT). One criterion used for selecting Canadian AMT hardware producers for inclusion in this directory is use of a minimum of 75 percent Canadian content in at least one product manufactured by the company. The other directories in this series are:

- *Software Suppliers*
- *Systems Integrators*

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 hardware producer 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 type of AMT product the company has the capabilities to manufacture; 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 office and branch offices are located in Canada.

## **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 hardware producers 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 ii. Suggestions for future editions will be most appreciated.

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









**Products Sold:**

	% Mfg in Canada	% Import
Automated Material Handling Systems	80	20
Automated Storage and Retrieval Systems	100	0

**Market Served:**

- Electrical and Electronic Products

A. Comeau & Associates Ltd. supplies a complete line of electronic control products for the oil and gas industries. Examples include controllers for submersible pumps, controllers for beam pumps, supervisory control and automation systems, lighting and surge protection equipment, as well as industrial control software. The control products assist end users by automating their industrial facilities. All the items manufactured by A. Comeau & Associates are hand-crafted and individually tested. The company is active in North America, Europe, Asia, the Middle East, Africa and Pacific Rim countries.

**Products Sold:**

	% Mfg in Canada	% Import
Programmable Controllers	100	
Automated Material Handling Systems	100	
Automated Storage and Retrieval Systems	100	
Automatic Identification Systems	100	
Automated Assembly Systems	100	
Automated Packaging Systems	100	
Automated Inspection Systems	100	
Sensing Systems for Manufacturing Applications	100	

**Markets Served:**

- Pulp and Paper
- Primary Metals
- Insulation

Advanced Dynamics Corporation Ltd. designs and builds custom-designed heavy-duty material handling systems, including controls. It also provides start-up and service support. Its unique packing and production equipment is provided to a wide variety of industries.

**A. Comeau & Associates Ltd.**

4718 - 90th Avenue  
EDMONTON, Alta.  
T6B 2P9  
Tel.: (403) 465-9961  
Fax: (403) 465-4990

CONTACT:  
N.M. McNell  
Director  
Marketing

**Advanced Dynamics Corporation Ltd.**

1700 Marie-Victorin  
Boulevard  
SAINT-BRUNO, Que.  
J3V 4P6  
Tel.: (514) 653-7220  
Fax: (514) 653-8460

CONTACT:  
F.M. Groundwater  
President

## AECL-CANDU

Sheridan Park Research  
Commission  
2251 Speakman Drive  
MISSISSAUGA, Ont.  
L5K 1B2  
Tel.: (416) 823-9040  
Fax: (416) 823-6120

CONTACT:  
Advanced Systems  
Department

### Products Sold:

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	0
Automatic Identification Systems	50	50
Automated Packaging Systems	50	50
Machine Vision Equipment	50	50
Automated Inspection Systems	50	50
Sensing Systems for Manufacturing Applications	50	50

AECL-CANDU provides innovative solutions to manufacturing problems requiring automated handling, identification, inspection or packaging.

## AIR TRAC CORP.

430 Belgraden Avenue  
STONE CREEK, Ont.  
L8E 3H3  
Tel.: (416) 664-5517  
Fax: (416) 664-5519

CONTACT:  
Marcel Van Doorslaer  
President

### Product Sold:

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	

### Markets Served:

- Rubber and Plastic Products including Auto Parts
- Steel Foundry
- Abrasives
- Food Processing

AIR TRAC CORP. is a supplier of mill-duty fresh air supply systems, both stationary and travelling, air quality control systems, exhaust and filtration systems, as well as pneumatic conveying systems.

**Products Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	
Automated Assembly Systems	100	

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment

AISCO System Inc. specializes in the design and fabrication of computerized control systems, foundry machinery and vibratory conveyors for the primary aluminum industry, as well as for iron foundries, non-ferrous refiners and hard rock mines. AISCO also manufactures cranes to customer specifications.

**AISCO Systems  
Inc.**

P.O. Box 655N  
BURLINGTON, Ont.  
L7R 3Y5  
Tel.: (416) 335-0002  
Fax: (416) 335-9643

CONTACT:  
Will Berends  
Marketing Manager

**Products Sold:**

	% Mfg In Canada	% Import
Industrial Robots	100	0
Automated Material Handling Systems	100	0
Machine Vision Equipment	100	0
Automated Inspection Systems	100	0
Sensing Systems for Manufacturing Applications	100	0
CAD/CAM/CAE Hardware	80	20
Advanced Tooling for Manufacturing Applications	80	20

**Markets Served:**

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

Andec Manufacturing Ltd. manufactures sensors and inspection systems to find defects in parts and materials. These systems use ultrasonic waves, eddy currents, X-rays, magnetic particles and liquid penetrants to detect cracks and voids and to measure porosity thickness and hardness.

**Andec  
Manufacturing  
Ltd.**

18 Canso Road  
REXDALE, Ont.  
M9W 4L8  
Tel.: (416) 243-3456  
Fax: (416) 243-1354

CONTACT:  
Richard Dewalle  
Manager

## **Arvid Machine Tools Ltd.**

2679 Howard Avenue  
WINDSOR, Ont.  
N8X 3X2  
Tel.: (519) 969-5540  
Fax: (519) 250-0423

**CONTACT:**  
J.W. Gray  
Sales Manager

### ***Products Sold:***

	% Mfg In Canada	% Import
NC/CNC Machines	75	25
Automatic/Advanced Machine Tools	100	0

### ***Markets Served:***

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment

Arvid Machine Tools Ltd., a subsidiary of Ex-Cell-O Holding AG, designs and manufactures special-purpose metal-cutting machines and systems such as transfer lines, work cells and flexible manufacturing systems. It has in-house capabilities in design, machining and assembly, using electrical, electronic and hydraulic controls, and also has a heavy involvement in research and development.

**Products Sold:**

	% Mfg in Canada	% Import
Automatic/Advanced Machine Tools	20	80
Programmable Controllers	0	100
Automatic Welding Equipment	0	100
Industrial Robots	20	80
Automated Material Handling Systems	50	50
Shop Floor PCs/Industrial Computer	30	70
Automated Assembly Systems	75	25
Automated Packaging Systems	50	50
Machine Vision Equipment	25	75
Automated Inspection Systems	50	50
Sensing Systems for Manufacturing Applications	25	75
Advanced Tooling for Manufacturing Applications	75	25

**Markets Served:**

- Wooden Furniture and Other Millwork
- Fabricated Metal Products Including Auto Parts
- Defence

ASA Automation Systems Assoc. Ltd. is an integrator/engineering firm producing a variety of motion control systems. It can provide off-the-shelf or custom-manufactured hardware and software, and specializes in robotics and hard automation applications. The company can also provide engineering services in the mechanical, electrical and software fields.

**ASA  
Automation  
Systems Assoc.  
Ltd.**

10114 McDonald Park Road  
SIDNEY, B.C.  
V8L 3X9  
Tel.: (604) 656-2002  
Fax: (604) 656-2060

CONTACT:  
Garry Sedun  
President

## A.T.S. Inc.

80 Alpine Road  
KITCHENER, Ont.  
N2E 1A1  
Tel.: (519) 744-4400  
Fax: (519) 744-7885

CONTACT:  
Roger Awad  
Manager  
Sales and Marketing

### *Products Sold:*

	% Mfg In Canada	% Import
Automatic Marking Equipment	80	20
Water Jet Cutting Equipment	80	20
Industrial Robots	0	100
Automated Material Handling Systems	100	0
Automatic Identification Systems	100	0
Automated Assembly Systems	100	0
Automated Packaging Systems	100	0
Machine Vision Equipment	80	20
Automated Inspection Systems	100	0

### *Markets Served:*

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Aerospace
- Defence
- Telecommunications
- Pharmaceuticals
- Food Processing

A.T.S. Inc. specializes in the manufacture of automated assembly systems for small parts and printed circuit board (PCB) assembly. Its services include feasibility studies with simultaneous engineering capabilities; flexible robotic and dedicated assembly systems for small electro-mechanical products; "board centre" through-hole PCB assembly systems; "micro centre" fine pitch surface-mount PCB component placement and hot bar soldering systems; leaded and leadless component tinning and forming systems; coil winding and bobbin finishing systems; relay assembly, test, gauge and calibration systems; robotic PCB tester load and unload systems; as well as standard modular automation and material handling building blocks. A.T.S. also provides high-speed packaging systems for food and pharmaceutical products.



**Product Sold:**

	% Mfg in Canada	% Import
Automated Assembly Systems	75	

**Markets Served:**

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

Automated Systems Inc. specializes in automated assembly systems combining linear and rotary transfer concepts, state-of-the-art robotics, and advanced tooling systems. It supplies expertise in robotics and turnkey systems for the automotive industries in particular.

**Automated  
Systems Inc.**

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

CONTACT:  
Ted Jones  
Vice-President  
Engineering

**Products Sold:**

	% Mfg in Canada	% Import
Automated Material Handling Systems	95	5
Automated Assembly Systems	95	5
Automated Packaging Systems	95	5

**Markets Served:**

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

Automation Devices (Canada) Ltd. has conceptualized, designed, built and installed automated parts handling devices since 1968 for companies processing small parts in the automotive, packaging and general manufacturing industries. The firm's sales have nearly tripled during the past five years, with a significant portion of the increase coming from the packaging as well as from the automotive-related industries in both Canada and the United States.

**Automation  
Devices  
(Canada) Ltd.  
Automation  
Devices Inc.**

4700 Montrose Road  
NIAGARA FALLS, Ont.  
L2H 1K3  
Tel.: (416) 354-3881  
Fax: (416) 354-4072

CONTACT:  
Bill Silledrecht  
General Manager



## Automation Specialties

970 Syscon Road  
BURLINGTON, Ont.  
L7L 5S2  
Tel.: (416) 681-8575

CONTACT:  
David Bunker  
President

### Products Sold:

	% Mfg In Canada	% Import
NC/CNC Machines	60	40
Automatic/Advanced Machine Tools	50	50
Programmable Controllers	100	0
Automatic Welding Equipment	50	50
Automatic Marking Equipment	50	50
Water Jet Cutting Equipment	100	0
Industrial Robots	20	80
Automated Material Handling Systems	50	50
Automatic Identification Systems	80	20
Shop Floor PCs/Industrial Computer	20	80
Automated Assembly Systems	100	0
Machine Vision Equipment	50	50
Sensing Systems for Manufacturing Applications	60	40
CAD/CAM/CAE Hardware	50	50
Advanced Tooling for Manufacturing Applications	100	0

### Markets Served:

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

Automation Specialties sells a broad range of automation products produced in Canada and elsewhere. It is a leader in designing manufacturing systems, together with associated equipment and parts, and specializes in feeders and water jet cutting systems. Its client base is varied.

**Products Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	75	25
Automated Warehousing Systems	100	0
Advanced Tooling for Manufacturing Applications	60	40

**Markets Served:**

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

Ball Service Group Inc. custom-designs and fabricates material handling systems for a variety of industries. Depending upon customers' components and/or products, this could include quick die change equipment, engine flow racks, and first-in/first-out systems.

**Products Sold:**

	% Mfg In Canada	% Import
NC/CNC Machines	100	
Automatic/Advanced Machine Tools	100	
Programmable Controllers	100	
Automated Material Handling Systems	100	
Shop Floor PCs/Industrial Computer	100	
Machine Vision Equipment	100	
Sensing Systems for Manufacturing Applications	100	
CAD/CAM/CAE Hardware	100	

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Food Processing
- Aircraft

Beck Technologies Inc. has an advanced product line for machine shop and factory automation with control systems for milling, burning tables, laser cutters, plasma cutters, lathes and process controls. It also manufactures a three-dimensional optical coordinate measuring system.

**Ball Service  
Group Inc.**

250 Woolwich Street South  
BRESLAU, Ont.  
N0B 1M0  
Tel.: (519) 648-2076  
Fax: (519) 648-2873

CONTACT:  
Michael J. Ball  
President

**Beck  
Technologies  
Ltd.**

1324 Wallace Street  
REGINA, Sask.  
S4N 3Z4  
Tel.: (306) 975-1080  
Fax: (306) 975-3993

CONTACT:  
Tom Beck  
President

## Beta-Tech Inc.

73 Patterson Road  
BARRIE, Ont.  
L4N 3V9  
Tel.: (705) 722-0800  
Fax: (705) 722-3412

CONTACT:  
Kelth Cook  
President

### Product Sold:

	% Mfg In Canada	% Import
Automated Assembly Systems	90	10

### Market Served:

- Fabricated Metal Products Including Auto Parts

Beta-Tech Inc. designs and manufactures automated equipment, specialized assembly equipment and test equipment. It also offers technical consulting for automating assembly lines; product recommendations and design improvements for existing equipment; introduction of automation to existing equipment; and fabrication of fixtures and gauges.

## Brandt Manufacturing Inc.

1040 Hargreave Road  
LONDON, Ont.  
N6E 1P5  
Tel.: (519) 681-6083  
Fax: (519) 681-6097

CONTACT:  
Gunnar Brandt  
President

### Products Sold:

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	
Automated Assembly Systems	100	
Automated Inspection Systems	100	

### Market Served:

- Fabricated Metal Products Including Auto Parts

A family run company in business for 12 years, Brandt Manufacturing Inc. designs and supplies specialized automated equipment for major companies, primarily in the automotive industries.

**Products Sold:**

	% Mfg In Canada	% Import
NC/CNC Machines	100	
Automated Material Handling Systems	100	

**Market Served:**

- Fabricated Metal Products Including Auto Parts

Brattan Tool Industries Ltd. designs and manufactures tools, dies, jigs, fixtures and prototype parts. It designs and manufactures programmable roll feeds, programmable air feeds, stock straighteners, combination cradle and straighteners, reels, and complete automatic press-feeding systems. Its clients are in Ontario, Quebec and the United States.

**Brattan Tool  
Industries Ltd.**

965 Wilson Avenue  
KITCHENER, Ont.  
N2C 1J1  
Tel.: (519) 893-6880  
Fax: (519) 893-4824

CONTACT:  
John Wiff, Sr.  
Vice-President

**Products Sold:**

	% Mfg In Canada	% Import
Industrial Robots	100	
Automated Material Handling Systems	100	
Automated Assembly Systems	100	
Sensing Systems for Manufacturing Applications	100	

**Markets Served:**

- Printing
- Clothing and Textiles
- Rubber and Plastic Products including Auto Parts
- Health Care

Browdyne Ltd. specializes in computer-assisted robotic indexers with related materials handling modules. Currently its sales are restricted to Canada and the United States; however, it plans to enter the European and Asian markets. Capabilities include metal and electrical fabrication, component interface modules, and central processing unit programming.

**Browdyne  
Ltd.**

3195 East Bayshore Road  
R.R. 1  
OWEN SOUND, Ont.  
Tel.: (519) 371-1000  
Fax: (519) 371-1311

CONTACT:  
Ron Jackson  
Administrative  
Co-ordinator

## Byronix Computer Controls Inc.

849 Fairweather Place  
VERNON, B.C.  
V1T 8T8  
Tel.: (604) 549-3085  
Fax: (604) 549-1495

CONTACT:  
Byron Lee  
President

### Products Sold:

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	
Automated Warehousing Systems	100	
Automated Assembly Systems	100	
Sensing Systems for Manufacturing Applications	100	

### Markets Served:

- Wood Industry
- Feed and Flour Mills

Byronix Computer Controls Inc. manufactures computer control systems for sawmills and for feed and flour mills, as well as drying controllers for wood products. It also supplies machine control software and industrial control computer boards to its customers.

## Cassco Machines (Canada) Stamp & Stencil Company Ltd.)

4 William Morgan Drive  
TORONTO, Ont.  
M4H 1E6  
Tel.: (416) 425-4140  
Fax: (416) 425-6196

CONTACT:  
Ken Thuro  
Vice-President

### Products Sold:

	% Mfg In Canada	% Import
Automatic Marking Equipment	90	10
Automatic Identification Systems	90	10
Automated Assembly Systems	100	0
Advanced Tooling for Manufacturing Applications	100	0

### 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

Cassco Machines manufactures a full range of marking, decorating and printing equipment, including hot stamping, pad printing, metal indenting, electrochemical etching and dry offset printing. Cassco also carries a full range of supplies and has manufacturing capabilities for a wide assortment of pads, rollers and dies.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic Welding Equipment	100	
Automated Material Handling Systems	100	
Automated Assembly Systems	100	
Advanced Tooling for Manufacturing Applications	100	

**Markets Served:**

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

Centerline Windsor Ltd. supplies special manual and automated spot and seam-welding equipment; metal forming, assembly and testing equipment; and special automated arc-welding systems. Also provided are modular machine components, including indexing tables, slide and pivot assemblies, and Voltza Integral transformer weld gun packages for the automotive, transportation, appliance and metal-working industries.

**Product Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	

**Market Served:**

- Food Processing

Charlottetown Metal Products Ltd. manufactures equipment for the food processing industry, including on-line handling and unloading systems; pneumatic unloading systems; and grading, selection, storage, cutting, trimming and packing systems. For the vegetable processor, it supplies shakers, blanchers, fryers, and conveyors. Liquid handling is supplied with tanks for brewery, distillery, winery or chemical handling and storage.

**Centerline  
Windsor Ltd.**

415 Morton Drive  
P.O. Box 5160  
WINDSOR, Ont.  
N9J 2L3  
Tel.: (519) 734-8464  
Fax: (519) 734-7408

CONTACT:  
Preston Harris  
Sales Manager

**Charlottetown  
Metal Products  
Ltd.**

P.O. Box 323  
CHARLOTTETOWN, P.E.I.  
C1A 7K7  
Tel.: (902) 566-3000  
Fax: (902) 566-1856

CONTACT:  
W.A. Rix  
President

## Civic Tool & Die Works Ltd.

Unit 113  
20120 - 64th Avenue  
LANGLEY, B.C.  
V3A 4P7  
Tel.: (604) 533-0723  
Fax: (604) 533-2619

CONTACT:  
Brian Brocklesby  
President

### Product Sold:

Advanced Tooling for Manufacturing Applications 90+

% Mfg In  
Canada

% Import

### Market Served:

- Manufacturers of soft and hard contact lenses

Civic Tool & Die Works Ltd. manufactures radius-cutting lathes; concave and convex, size and facing lathes; one to six-spindle polishing machines, blocking machines and bevelling equipment; and related tooling of all types. It also conducts development work, as well as research and development. Markets are in the United States, Mexico, Central and South America and Europe.

## Coates Industrial Automation Ltd.

701 Trinity Road  
R.R. 2  
ANCASTER, Ont.  
L9G 3L1  
Tel.: (416) 648-4447  
Fax: (416) 648-8911

CONTACT:  
Susan Coates  
General Manager

### Products Sold:

Automated Material Handling Systems  
Automated Assembly Systems

% Mfg In  
Canada

% Import

90  
80

10  
20

### Markets Served:

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products Including Auto Parts
- Pharmaceuticals
- Food Processing
- Health Care
- Personal Hygiene
- Cosmetics

Coates Industrial Automation Ltd. has clients based in the food processing, pharmaceuticals, cosmetics, automation and packaging industries. It automates production assembly lines and, over the past year, has broadened its marketplace to include France, Venezuela, the United Kingdom, Mexico, Saudi Arabia, Indonesia and the United States.

**Products Sold:**

	% Mfg In Canada	% Import
NC/CNC Machines	75	25
Automatic/Advanced Machine Tools	75	25

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment

Compustep Products Corp. manufactures a rugged, wide-area, easy-to-use computer numerical controlled (CNC) drilling-tapping machine (Quickdrill) that can be used independently or with computer-aided design (CAD) or host-computer software. Heat exchange (tube sheets) and structural steel plates offer large potential benefits to target industries.

**Compustep  
Products Corp.**

Unit 11  
774 Rye Street  
PETERBOROUGH, Ont.  
K9J 6W9  
Tel.: (705) 745-2961  
Fax: (705) 745-8130

CONTACT:  
Donald C. Wright  
Vice-President,  
Sales and Marketing

**Product Sold:**

	% Mfg In Canada	% Import
Programmable Controllers	100	

**Market Served:**

- Printing

Computerized Cutters Ltd. offers programmable computer controls for all makes and sizes of paper cutters to reduce large printed or unprinted sheets to smaller finished sizes. Sold to printers, blinderies, paper mills, converters of roll stock to flat sheets, paper sales houses, etc., this equipment offers advantages in greater production with a high degree of accuracy and is marketed through dealers and to manufacturers of paper cutters. Distribution is worldwide.

**Computerized  
Cutters Ltd.**

1234 Reid Street  
RICHMOND HILL, Ont.  
L4B 1C1  
Tel.: (416) 764-1500  
Fax: (416) 229-4214

CONTACT:  
G.D. Tullis  
General Manager



## Control Microsystems Inc.

2049 Cohen  
SAINT-LAURENT, Que.  
H4R 9Z7  
Tel.: (514) 745-1270  
Fax: (514) 745-1610

CONTACT:  
James Holtom  
President

Division Address:

Suite 6  
4620 Manilla Road  
Southeast  
CALGARY, Alta.  
T2G 4B7  
Tel.: (403) 243-8955  
Fax: (403) 287-0550

### Products Sold:

	% Mfg In Canada	% Import
Shop Floor PCs/Industrial Computer	100	
Sensing Systems for Manufacturing Applications	100	

### Markets Served:

- Food Processing
- Mining
- Oil and Gas
- Water and Waste Water Treatment/Distribution
- Environmental Monitoring

Control Microsystems Inc. manufactures hardware and software products (trademarks: SAFE 8000, TeleSAFE, TeleSAFE VS/2, MiniSAFE, MicroSAFE and the TP/1 Programmer) for use in industry and by public utilities. Customers throughout the world are using Control Microsystems equipment in process control, telemetry, supervisory control and data acquisition (SCADA) applications, and for environmental monitoring. The company also manufactures remote terminal units and remote control units.

**Products Sold:**

	% Mfg In Canada	% Import
Industrial Robots	100	0
Automated Material Handling Systems	100	0
Automatic Identification Systems	100	0
Machine Vision Equipment	80	20
Automated Inspection Systems	100	0
Sensing Systems for Manufacturing Applications	100	0

**Markets Served:**

- Fabricated Metal Products including Auto Parts
- Educational
- Medical
- Security

Coreco Inc. is a designer and manufacturer of board-level frame grabbers and digitizers that are compatible with the IBM personal computer communications architecture; and they take any video input. Applications are all vision-related and include machine vision systems; robotics; factory automation; scientific, medical and security uses; as well as desk-top publishing.

**Coreco Inc.**

Suite 113  
6969 Trans-Canada Highway  
SAINT-LAURENT, Que.  
H4T 1V8  
Tel.: (514) 333-1301  
Fax: (514) 333-1388

CONTACT:  
Faraj M. Nakhleh  
President

## **Corman Technologies Inc.**

75 Bathurst Drive  
WATERLOO, Ont.  
N2V 1N2  
Tel.: (519) 884-4430

**CONTACT:**  
General Manager

### **Products Sold:**

Programmable Controllers  
Shop Floor PCs/Industrial Computer

### **Markets Served:**

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

Corman Technologies Inc. custom-designs and manufactures industrial electronic controls, process controls and automatic test systems.

## **CRS Plus Inc.**

830 Harrington Court  
P.O. Box 183, Station A  
BURLINGTON, Ont.  
L7N 3N4  
Tel.: (416) 639-0086  
Fax: (416) 639-4248

**CONTACT:**  
Raymond Simmons  
General Manager

### **Product Sold:**

Industrial Robots

% Mfg In Canada	% Import
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100	
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### **Markets Served:**

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

CRS Plus Inc. manufactures industrial robots for light assembly, machine loading, dispensing, spraying and sample preparation as well as for medical and educational use.

**Products Sold:**

	% Mfg In Canada	% Import
Automated Packaging Systems	80	20
Advanced Tooling for Manufacturing Applications	100	0

**Markets Served:**

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment
- Aerospace
- Defence
- Nuclear

Diemaster Tool Inc. manufactures precision components for the aerospace, defence, electronic and general industrial markets. It designs and builds custom-designed tools, dies, jigs and fixtures as well as a variety of special-purpose machines. Diemaster also provides metal-stamping services and assembly work. A major product line is high-speed label-cutting presses for the packaging industry.

**Diemaster Tool  
Inc.**

160 Watline Avenue East  
MISSISSAUGA, Ont.  
L4Z 1R1  
Tel.: (416) 890-1144  
Fax: (416) 890-1950

CONTACT:  
Tary Lozowski  
Sales Manager

## **Diffracto Ltd.**

2835 Kew Drive  
WINDSOR, Ont.  
N8T 3B7  
Tel.: (519) 944-6641  
Fax: (519) 945-1467

CONTACT:  
Omer Hageniers

### **Products Sold:**

	% Mfg In Canada	% Import
Automated Inspection Systems	95	
Sensing Systems for Manufacturing Applications	90	

### **Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment

Established in 1973, Diffracto Ltd. sells sheet-metal gauging and inspection systems worldwide. The majority of its customers are in the automotive manufacturing sector.

## **Doucet Machineries Inc.**

340 - 6th Street  
DAVELUYVILLE, Que.  
G0Z 1C0  
Tel.: (819) 367-2633  
Fax: (819) 367-2100

CONTACT:  
Eileude Pelletier  
General Manager

### **Products Sold:**

	% Mfg In Canada	% Import
Automatic/Advanced Machine Tools	100	
Automated Material Handling Systems	100	

### **Market Served:**

- Wooden Furniture and Other Millwork

Doucet Machineries Ltd. manufactures mainly woodworking machines used in furniture plants. These machines range from clamp carriers and drilling equipment to material handling systems, and they are sold throughout North America.

**Product Sold:**% Mfg In  
Canada

% Import

Shop Floor PCs/Industrial Computer

100

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products Including Auto Parts
- Transportation Equipment
- Food Processing
- Materials Handling

Dynapro Systems Inc. designs and manufactures computer hardware and software for the industrial control market. Products include colour graphics display software, shop-floor work stations and communications devices such as Advisor PC, PanelView, and ControlView. Its products complement Allen-Bradley programmable controllers and related factory automation products. Sales and distribution are handled throughout the world by Allen-Bradley.

**Dynapro  
Systems Inc.**

Suite 1000  
1200 West 73rd Avenue  
VANCOUVER, B.C.  
V6P 6G5  
Tel.: (604) 263-2638  
Fax: (604) 263-1407

CONTACT:  
Tom Dodd  
Marketing Manager

# Eagle Precision Technologies Inc.

565 West Street  
BRANTFORD, Ont.  
N3T 5R7  
Tel.: (519) 756-5223  
Fax: (519) 756-9062

CONTACT:  
Vince Harold  
Vice-President and  
General Manager

Division Address:

Eagle UK  
Birkenhead  
MERSEYSIDE, United  
Kingdom

## Products Sold:

	% Mfg In Canada	% Import
NC/CNC Machines	90	10
Automatic/Advanced Machine Tools	95	5
Automated Material Handling Systems	90	10
Automated Assembly Systems	90	10
Advanced Tooling for Manufacturing Applications	95	5

## Markets Served:

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment
- Hydraulic component manufacturers
- Heating/air conditioning manufacturers

A significant part of the business of Eagle Precision Technologies Inc. is manufacturing machinery for tube bending (computer numerical controlled), tube-end forming and tube cutting. More than 2000 Eagle tube-end-forming machines are in use in more than 30 countries. In addition to tube forming, Eagle produces a large range of motor vehicle muffler manufacturing machines. Using standard designs of proven efficiency and reliability, these machines are available for low-, medium- or high-production requirements. Eagle's other related business is designing and building special-purpose machinery and automated muffler manufacturing lines.

**Products Sold:**% Mfg In  
Canada

% Import

Injection Moulding Machines  
Automated Material Handling Systems

**Markets Served:**

- Electrical and Electronic Products
- Rubber and Plastic Products Including Auto Parts
- Medical Consumer Goods
- Toys
- Optical and Video Products Manufacturers
- Agriculture
- Forestry
- Petroleum
- Aerospace
- General Consumer Goods

Engel Canada Inc. manufactures machines and related automated equipment for the injection moulding of thermoplastic, thermoset, liquid injection moulding (LIM), bulk moulding compound (BMC) and other plastic materials. The machines produced by Engel Canada Inc. have a clamping pressure range of 30 to 450 U.S. tons. Custom-designed injection moulding equipment is also available. The company provides application-specific equipment for the target industries listed above.

**Engel Canada  
Inc.**

545 Elmira Road  
GUELPH, Ont.  
N1K 1C2  
Tel.: (519) 836-0220  
Fax: (519) 836-3714

CONTACT:  
Kurt H. Fenske  
Vice-President,  
Sales and Marketing



**Epic Data Inc.**

**Ebco Industries**

7280 River Road  
RICHMOND, B.C.  
V6X 1X5  
Tel.: (604) 273-9146  
Fax: (604) 270-3412

CONTACT:  
Neil McDonnell  
Vice-President  
Marketing

**Product Sold:**

	% Mfg In Canada	% Import
Automatic Identification Systems	75	25

**Markets Served:**

- Printing
- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment
- Defence
- Government
- Aerospace

Epic Data Inc. designs, manufactures and integrates high-performance data collection and security management systems comprised of fixed and portable terminals, controllers and software that collect and process data. Epic's primary markets are North America, western Europe, Australia and the Far East.

**Product Sold:**

	% Mfg In Canada	% Import
CAD/CAM/CAE Hardware	85	15

**Markets Served:**

- Printing
- Electrical and Electronic Products

Escher-Grad Inc. produces high-resolution, high-quality laser film imaging products. Its products accept data from computer-aided design programs and the output of desk-top publishing software, and create images on film at 2000 dots per inch with 0.0005 accuracy. The imaged films are then used as masters to manufacture printed circuit boards or for printing. Products are sold to electronic equipment designers and manufacturers and to the graphic arts industry.

**Escher-Grad  
Inc.****Eicon  
Technology  
Corporation**

2312 - 32nd Avenue  
MONTREAL (Lachine), Que.  
H8T 3H4  
Tel.: (514) 636-3195  
Fax: (514) 636-5664

CONTACT:  
Najeeb Khalid  
President

**Products Sold:**

	% Mfg In Canada	% Import
NC/CNC Machines	100	0
Automatic/Advanced Machine Tools	100	0
Programmable Controllers	100	0
Water Jet Cutting Equipment	85	15
Shop Floor PCs/Industrial Computers	85	15
Advanced Tooling for Manufacturing Applications	85	15

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment
- Office Furniture
- Kitchen Equipment Manufacturers

Ferro Products Co. Ltd. manufactures press brakes, plate shears, and hydraulic presses with conventional and computer numerical controllers (CNCs), along with accessories. Its equipment is used by a wide variety of metal-forming and fabricating industries.

**Ferro Products  
Co. Ltd.**

9405 Pascal Gagnon  
MONTREAL, Que.  
H1P 1Z4  
Tel.: (514) 321-4610  
Fax: (514) 329-1239

CONTACT:  
Rudy Pnitsch  
Vice-President

## F.H. Welding Machines Ltd.

7225 Tranmere Drive  
MISSISSAUGA, Ont.  
L5S 1N4  
Tel.: (416) 672-2766  
Fax: (416) 672-3955

CONTACT:  
J. Hartshorn  
President

### Product Sold:

	% Mfg In Canada	% Import
Automatic Welding Equipment	100	

### Markets Served:

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Transportation Equipment

F.H. Welding Machines Ltd. is a manufacturer of robotic arc-welding and resistance-welding cells. It has a 3 700 - m<sup>2</sup> plant, with complete engineering and machine shop facilities on site.

## FLV Automation Systems Inc.

1581 Matheson Boulevard  
MISSISSAUGA, Ont.  
L4W 1H9  
Tel.: (416) 238-9290  
Fax: (416) 238-5075

CONTACT:  
Vinod Ramnallith  
Vice-President

### Products Sold:

	% Mfg In Canada	% Import
NC/CNC Machines	100	
Automatic/Advanced Machine Tools	100	
Automated Material Handling Systems	100	
Automated Assembly Systems	100	
Automated Inspection Systems	100	

### Markets Served:

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Building Products

FLV Automation Systems Inc. manufactures specialized equipment for parts assembly and material handling. It is also active in product design and development, system design and development, design and manufacturing of metal-cutting machines and computer numerical controlled (CNC) lathes.

**Product Sold:**

	% Mfg In Canada	% Import
Programmable Controllers	100	

**Markets Served:**

- Electrical and Electronic Products
- Electro-Optic Products

Incorporated in 1959, Gentec Inc. manufactures programmable controllers and customized equipment for private industry and for Hydro-Québec. The company also manufactures electro-optic products, joulemeters and wattmeters. Gentec participates in Eurolaser 226, a European Eureka project.

**Gentec Inc.**

2625 Dalton Street  
SAINTÉ-FOY, Que.  
G1P 3S9  
Tel.: (418) 651-8000  
Fax: (418) 651-6695

**CONTACT:**  
Jean-Luc Groux, Eng.  
President

**Products Sold:**

	% Mfg In Canada	% Import
Automated Inspection Systems	100	
Sensing Systems for Manufacturing Applications	100	

**Market Served:**

- Primary Metals

George Kelk Ltd. supplies instrumentation for measurement and control in metal-rolling mills. Applications for its products include force measurement, width of hot or cold strip, dimensional measurement of steel plates, gauging of X-ray thickness, radiation detection and voltage regulation.

**George Kelk Ltd.**

48 Lesmill Road  
DON MILLS, Ont.  
M3B 2T5  
Tel.: (416) 445-5850  
Fax: (416) 445-5972

**CONTACT:**  
R. Ricciati  
Sales Manager

## Global Laser Systems Inc.

9650 - 20th Avenue  
EDMONTON, Alta.  
T6N 1G1  
Tel.: (403) 448-0277  
Fax: (403) 428-5376

CONTACT:  
Vern Palombi  
President and CEO

### Products Sold:

	% Mfg in Canada	% Import
Programmable Controllers	80	20
Shop Floor PCs/Industrial Computers	30	70

### Markets Served:

- Fabricated Metal Products Including Auto Parts
- Collision repair
- Aerospace
- Structural verification
- Surveying

Global Laser Systems Inc. produces two-dimensional and three-dimensional measuring systems using laser, computer electronic and photoelectric technology. The system is portable, remote, fast and easy. It can be custom-built to specification for different applications, and provides accuracy and resolution as required of up to one-tenth of a millimetre.

## Gray Instruments Inc.

Unit 5  
4452 - 64th Avenue  
Southeast  
CALGARY, Alta.  
T2C 2B3  
Tel.: (403) 236-0388

CONTACT:  
Daniel Gray  
President

### Product Sold:

	% Mfg in Canada	% Import
Automated Inspection Systems	100	

### Market Served:

- Fabricated Metal Products Including Auto Parts

Gray Instruments Inc. designs and manufactures customized microcontroller-based instrumentation for a broad range of industries. Its services include non-destructive testing instrumentation, lighting controls for dimming lights in theatres and industrial settings, and manufacture of ultrasonic thickness gauges, light-dimming protocol converters and relay drivers.

**Products Sold:**

	% Mfg In Canada	% Import
Automated Assembly Systems	100	
Advanced Tooling for Manufacturing Applications	100	

**Markets Served:**

- Electrical and Electronic Products
- Transportation Equipment

Gryphon Automation Inc. designs and manufactures special-purpose machine tools, assembly systems, and custom-designed tooling systems. Contract design and/or project management is available.

**Gryphon  
Automation  
Inc.**

Unit 11  
55 Torbay Road  
MARKHAM, Ont.  
L3R 1G7  
Tel.: (416) 475-2244  
Fax: (416) 475-7697

CONTACT:  
U.H. Klee  
President

**Products Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	95	5
Automated Warehousing Systems	95	5
Automated Storage and Retrieval Systems	95	5

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Rubber and Plastic Products Including Auto Parts
- Transportation Equipment
- Food/Beverage

Heathrow Industrial Technologies Inc. offers equipment related to material handling and warehousing, including "Stripper" rapid load/unload systems, which can load and unload standard highway trailers with unitized loads in four minutes. This eliminates forklift-truck handling, reduces areas required for opening dock doors and moving machinery by 75 percent, and transforms loading/unloading into a fully automated operation capable of interfacing with conveyers powered by automated guided vehicles (AGVs), automated monorails or automated storage and retrieval systems (AS/RSs), etc.

**Heathrow  
Industrial  
Technologies  
Inc.**

1524 Matthew Brady  
Boulevard  
WINDSOR, Ont.  
N8S 3K6  
Tel.: (519) 944-0707  
Fax: (519) 944-5207

CONTACT:  
George Thornton  
President and CEO

# Henri Liné Machine Tools Ltd.

1000 André Liné Street  
GRANBY, Que.  
J2J 1E2  
Tel.: (514) 372-6480  
Fax: (514) 372-6557

CONTACT:  
Brian Kilpatrick  
Marketing Manager

## Products Sold:

	% Mfg In Canada	% Import
NC/CNC Machines	100	
Automatic/Advanced Machine Tools	100	

## Markets Served:

- Wooden Furniture and Other Millwork
- Printing
- Fabricated Metal Products including Auto Parts
- Transportation Equipment
- Nuclear
- Die/mould Industry
- Aerospace

Henri Liné Machine Tools Ltd. produces three computer numerical controlled (CNC) vertical milling machine product lines: gantry, bridge type and open-sided. The company also manufactures aerospace and composite material profilers as well as two-rotary-axis universal milling heads. Its engineering group specializes in customized solutions for specific customer problems, using the latest state-of-the-art technology. Its machines are used in the following industries: aircraft and aerospace, automotive, railway, ship building, defence, energy (nuclear, thermal and hydroelectric), machine tool, mould and die, printing, off-road equipment and power transmission. Retrofitting, rebuilding and remanufacturing capabilities for conventional and CNC machines are also among the company's range of services.

**Products Sold:**

	% Mfg In Canada	% Import
Programmable Controllers	80	20
Sensing Systems for Manufacturing Applications	80	20

**Markets Served:**

- Electrical and Electronic Products
- Process Industries

Honeywell Limited is Canada's leading control company, and is the largest supplier in Canada of precision sensors and person/machine interfaces for manufacturers. It manufactures and markets advanced technology products, systems and service solutions for homes and commercial buildings, as well as for the manufacturing and aerospace industries.

**Honeywell  
Limited**

155 Gordon Baker Road  
NORTH YORK, Ont.  
M2H 3N7  
Tel.: (416) 499-6111  
Fax: (416) 490-3017

**Products Sold:**

	% Mfg In Canada	% Import
Injection Moulding Machines	100	
Industrial Robots	100	
Automated Assembly Systems	100	
Advanced Tooling for Manufacturing Applications	100	

**Market Served:**

- Rubber and Plastic Products Including Auto Parts

Husky Injection Molding Systems Ltd. is a single-source supplier of injection moulding machines (150 to 3650 tonnes), hot runner systems and components, moulds, robotics and other product handling equipment for the injection moulding industry. Typical markets include the automotive and packaging industries, medical uses, as well as manufacturers of housewares and polyethylene terephthalate (PET) preforms and bottles.

**Husky Injection  
Molding  
Systems Ltd.**

530 Queen Street South  
P.O. Box 1000  
BOLTON, Ont.  
L7E 5S5  
Tel.: (416) 857-3240  
Fax: (416) 857-6074

CONTACT:  
Greg Hall  
Marketing Engineer



## Hymarc Ltd.

38 Auriga Drive  
OTTAWA, Ont.  
K2E 8A5  
Tel.: (613) 727-1584  
Fax: (613) 727-0441

CONTACT:  
F.R. Livingstone  
President

### Products Sold:

	% Mfg in Canada	% Import
Machine Vision Equipment	100	
Automated Inspection Systems	100	

### 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

Hymarc Ltd. is a manufacturer of machine vision systems, including the HYSCAN three-dimensional laser digitizer. It can design complete turnkey systems for automated inspection, which may include robotics, translation stages, electronic and mechanical design, and customized software.

## Intergraph Canada

## Intergraph Corporation

2580 Matheson  
Boulevard East  
MISSISSAUGA, Ont.  
L4W 4J1  
Tel.: (416) 625-2081  
(416) 625-6445

CONTACT:  
Sharon Conley  
Market Manager

### Product Sold:

CAD/CAM/CAE Hardware

### Markets Served:

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

Intergraph Canada designs, sells and supports a range of integrated products for computer-aided design, drafting, analysis and manufacturing. These products include computer hardware in the form of work stations and servers as well as application software specific to the various needs of manufacturers.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic Welding Equipment	85	15
Industrial Robots	30	70
Machine Vision Equipment	30	70

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment

Irco Automation Inc. manufactures robotic welding systems, including welding positioners, manipulators, turning rolls, beam weldment positioners, robotic positioners, welding chucks, head and tailstocks, and automatic welding equipment.

**Irco  
Automation  
Inc.**

10 Plant Farm Boulevard  
P.O. Box 1270  
BRANTFORD, Ont.  
N3T 5T3  
Tel.: (519) 759-5730  
Fax: (519) 759-5733

CONTACT:  
A. Maiste  
President

**Products Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	80	20
Automated Storage and Retrieval Systems	80	20

**Market Served:**

- Other

John T. Hepburn Ltd. designs and manufactures machinery and equipment, including cranes, computer numerical controlled (CNC) hydraulic presses, mine hoists, marine equipment and steel mill equipment.

**John T.  
Hepburn Ltd.**

7450 Torbram Road  
MISSISSAUGA, Ont.  
L4T 1G9  
Tel.: (416) 671-2200  
Fax: (416) 671-0499

CONTACT:  
Ray Pilon  
Vice-President  
Sales and Marketing

## Lambda Technology Ltd.

21 Cadillac Avenue  
VICTORIA, B.C.  
V8Z 1T3  
Tel.: (604) 380-1444  
Fax: (604) 380-6884

CONTACT:  
Roger Soar  
Project Manager

### Products Sold:

	% Mfg In Canada	% Import
Automated Inspection Systems	75	25
Sensing Systems for Manufacturing Applications	75	5

### Markets Served:

- Marine
- Utilities

Lambda Technology Ltd. produces ultrasonic boiler inspection systems used to inspect generator and superheater boiler tubes for wastage. It utilizes ultrasonic non-destructive testing, computer-driven probes and displays. Its system is compatible with the IBM-PC/AT.

## Les Systèmes Montréal Robotique Ltée

823-A McCaffrey Street  
SAINT-LAURENT, Que.  
H4T 1N3  
Tel.: (514) 344-4480  
Fax: (514) 342-9399

CONTACT:  
Martin Latour  
Engineer

### Products Sold:

	% Mfg In Canada	% Import
Shop Floor PCs/Industrial Computer	70	5
Automated Inspection Systems	70	
Advanced Tooling for Manufacturing Applications	90	

### Markets Served:

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

Les Systèmes Montréal Robotique Ltée builds machines for automated assembly applications with or without the use of articulated robots.

**Products Sold:**

	% Mfg In Canada	% Import
Machine Vision Equipment	70	30
Automated Inspection Systems	100	0
Sensing Systems for Manufacturing Applications	100	0

**Markets Served:**

- Rubber and Plastic Products including Auto Parts
- Glass
- Pulp and Paper
- Pharmaceuticals

Mayan Automation Inc. manufactures optical measurement systems for tire manufacturing, glass manufacturing inspection systems and density measurement systems for pulp and paper manufacturers. It also produces machine vision systems for the pharmaceutical industry.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic/Advanced Machine Tools	75	25
Programmable Controllers	75	25
Water Jet Cutting Equipment	100	0
Industrial Robots	50	50
Automated Material Handling Systems	100	0
Shop Floor PCs/Industrial Computer	50	50
Machine Vision Equipment	50	50
Sensing Systems for Manufacturing Applications	75	25

**Markets Served:**

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

Microtrol specializes in the design and installation of turnkey industrial control systems. From a simple control by programmable logic controller to a multi-axis motion system, its products allow industry to modernize at competitive cost.

**Mayan  
Automation  
Inc.**

2364 - 46th Avenue  
LACHINE, Que.  
H8T 2P3  
Tel.: (514) 636-5418  
Fax: (514) 636-3749

CONTACT:  
André Sokalski  
Technical Director

**Microtrol**

7576 Côte-de-Liesse Road  
SAINT-LAURENT, Que.  
H4T 1E7  
Tel.: (514) 342-1501  
Fax: (514) 342-9915

CONTACT:  
André Beaudoin  
President

## Mimik Industries Inc.

Units 10 to 13  
131 Sheldon Drive  
P.O. Box 670  
CAMBRIDGE, Ont.  
N1R 5W6  
Tel.: (519) 621-8010  
Fax: (519) 621-8018

CONTACT:  
Drew Magor  
Sales Manager

### Products Sold:

	% Mfg in Canada	% Import
NC/CNC Machines	80	20
Industrial Robots	90	10
Automated Material Handling Systems	80	20
Automated Inspection Systems	80	20
Sensing Systems for Manufacturing Applications	90	10
Advanced Tooling for Manufacturing Applications	90	10

### Markets Served:

- Wooden Furniture and Other Millwork
- Fabricated Metal Products Including Auto Parts

Mimik Industries Inc. provides services related to the upgrading of production machinery. Mimik hydraulic tracers provide tool path control for most machine tools. Sold worldwide, they are its traditional product line. Datadrive computer numerical controlled (CNC) conversion systems, sold primarily in North America, are retrofitted to manual machine tools, thus upgrading them to full CNC capability. More recently, systems controls incorporating hydraulics, pneumatics and electronics have been successfully designed for a variety of applications that have been sold in southern Ontario.

**Product Sold:**% Mfg in  
Canada

% Import

Advanced Tooling for Manufacturing Applications 100

**Markets Served:**

- Printing
- Fabricated Metal Products Including Auto Parts

Montreal Precision Crafting Company Ltd., established in 1969, is 100 percent Canadian-owned and manufactures aircraft tooling and custom-built machinery. It supplies drawing facilities, and assists in the conception and development of any type of automation.

**Montreal  
Precision  
Crafting  
Company Ltd.**

795 Lajoie Street

DORVAL, Que.

H9P 1G7

Tel.: (514) 636-0825

Fax: (514) 631-0996

**Products Sold:**% Mfg in  
Canada

% Import

Automatic Welding Equipment	100
Machine Vision Equipment	100
Automated Inspection Systems	100
Sensing Systems for Manufacturing Applications	100

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment
- Aerospace

MVS Modular Vision Systems Inc. produces LaserVision, an advanced laser-based adaptive vision system for inspection or seam tracking (arc welding or gluing). LaserVision can be used to automate or robotize any inspection, welding or gluing operation for gains in productivity and/or quality. The system features high speed and high accuracy with up to three-axis control.

**MVS Modular  
Vision Systems  
Inc.**

3195 De Milnac Street

MONTREAL, Que.

H4S 1S9

Tel.: (514) 333-0140

Fax: (514) 333-8636

**CONTACT:**

Peter J. Walker

Vice-President

and General Manager

# NAFO Welding Technology Ltd.

3502 - 1st Street  
SAINT-HUBERT, Que.  
J3Y 5K2  
Tel.: (514) 443-5335  
Fax: (514) 443-4880

CONTACT:  
François Nadeau  
President

Division Address:

NAFO Western Canada  
Suite 1500  
250 - 6th Avenue  
Southwest  
CALGARY, Alta.  
T2P 3H7

CONTACT:  
Doug Arkison

## Product Sold:

Automatic Welding Equipment

% Mfg In  
Canada

% Import

80

20

## Market Served:

- Fabricated Metal Products including Auto Parts

NAFO Welding Technology Ltd. produces the ROTOWELD 2000, an entirely new concept in adaptive gas metal arc welding. This totally automated pipe-on-positioner welding system performs full-penetration root and filler passes on an open-butt joint. The machine uses computer vision and adaptive feedback on welding parameters to control the penetration during the root pass and to ensure a defect-free weld. For industrial pipe prefabrication, small pressure vessel manufacturing or any other similar application, ROTOWELD 2000 produces high-girth welds four to five times faster than manual shielded metal arc welding.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic Welding Equipment	75	25
Automatic Marking Equipment	100	0
Industrial Robots	50	50
Automated Material Handling Systems	80	20
Automated Assembly Systems	100	0
Automated Packaging Systems	100	0
Machine Vision Equipment	80	20
Automated Inspection Systems	80	20
Sensing Systems for Manufacturing Applications	80	20

**Markets Served:**

- Fabricated Metal Products including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products including Auto Parts
- Defence
- Pharmaceuticals
- Utilities
- Nuclear

Numet Engineering Ltd. is a systems consultant and integrator providing services pertaining to surveys of potential production improvements, manufacturing operations analysis, cycle-time analysis and payback analysis. As a systems integrator, it designs, builds and installs automation systems, assembly cells, walking beam assembly systems, automated tube-handling and processing systems, automated-press parts handling systems, conveyor assembly systems, automated marking and packaging systems, automated welding systems, machine vision systems and robotic assembly systems.

**Numet  
Engineering  
Ltd.**

677 Neal Drive  
P.O. Box 1776  
PETERBOROUGH, Ont.  
K9J 7X6  
Tel.: (705) 743-2708  
Fax: (705) 743-3216

CONTACT:  
C. Adamson  
President



**Olofstrom  
Automation  
Ltd.**

*5 Brydon Drive  
REXDALE, Ont.  
M9W 4M7*

*Tel.: (416) 743-7100  
Fax: (416) 743-7693*

***Products Sold:***

Automatic Welding Equipment  
Automated Assembly Systems  
Advanced Tooling for Manufacturing Applications

***Markets Served:***

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment

Olofstrom Automation Ltd. is a manufacturer of custom-designed tooling, machines and equipment for automatic and semi-automatic welding systems. It also manufactures assembly systems, and offers services in application engineering and tooling for robotics.

**Products Sold:**

	% Mfg In Canada	% Import
Industrial Robots	100	
Automated Material Handling Systems	100	
Automated Guided Vehicles	100	
Automated Warehousing Systems	100	
Automated Storage and Retrieval Systems	100	
Automated Assembly Systems	100	
Advanced Tooling for Manufacturing Applications	100	

**Markets Served:**

- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products Including Auto Parts
- Transportation Equipment
- Aerospace
- Appliance

Orchid Automation Group Inc. supplies turnkey automation for advanced manufacturing, quick die change systems, automated die storage and retrieval systems, die openers and separators, die washing centres, automated parts transfer, press automation, injection moulding machines and automated assembly as well as automated material handling systems, and also provides custom-designed industrial automation. Its markets are in Canada, the United States and Europe.

**Orchid  
Automation  
Group Inc.**

240 Shearson Crescent  
CAMBRIDGE, Ont.  
N1T 1T6  
Tel.: (519) 622-1014  
Fax: (519) 622-1031

CONTACT:  
Grant Bibby  
President

## **PAC Process Automation Controls Ltd.**

Unit 222  
4664 Lougheed Highway  
BURNABY, B.C.  
V5C 5T5  
Tel.: (604) 291-6841  
Fax: (604) 291-2269

**CONTACT:**  
J. Cerny  
President

Art Johnson  
Senior Systems Analyst

### **Product Sold:**

Programmable Controllers

% Mfg In  
Canada

% Import

100

### **Markets Served:**

- Oil and Gas
- Utilities

PAC Process Automation Controls Ltd. produces industrial control systems for oil and natural gas pipelines, compressor stations, compressors and turbines, as well as supervisory control and data acquisition (SCADA) systems.

## **Pathex International Ltd.**

74 Rollside Road  
DON MILLS, Ont.  
M3A 1A3  
Tel.: (416) 445-7400  
Fax: (416) 445-9008

**CONTACT:**  
Sean Gillett  
Sales Manager

### **Products Sold:**

Industrial Robots  
Automated Material Handling Systems  
Automated Guided Vehicles  
Automated Storage and Retrieval Systems

% Mfg In  
Canada

% Import

100  
100  
100  
100

### **Markets Served:**

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

Pathex International Ltd. manufactures hydraulic presses and allied handling equipment for the plastics, laminating, rubber, wood and composite panel industries. The firm also fabricates heavy mill equipment on a contract basis.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic Welding Equipment	50	50
Automatic Marking Equipment	50	50
Automated Assembly Systems	100	0
Automated Inspection Systems	50	50
Sensing Systems for Manufacturing Applications	50	50
Advanced Tooling for Manufacturing Applications	50	50

**Markets Served:**

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

Pavesi International designs and manufactures robotic and mechanized automation systems as well as automated electric motor and alternator winding equipment for cost-effective production in a wide variety of industries. Its equipment has been installed and is operating in such industries as appliance, automotive and aircraft manufacture, electronics assembly, food processing, and agriculture.

**Pavesi  
International**

*Hall Smith Company Ltd.  
5325 Fairview Street  
BURLINGTON, Ont.  
L7L 5K4  
Tel.: (416) 639-5005  
Fax: (416) 639-5944*

**CONTACT:**

*Norman P. Mizibrocky  
Vice-President  
Finance and Administration*

## PCL Industrial Systems Inc.

674 Kingston Road  
TORONTO, Ont.  
M4E 1R4  
Tel.: (416) 694-2020  
Fax: (416) 694-3372

CONTACT:  
W.R. Bentley  
President

### Products Sold:

	% Mfg in Canada	% Import
Shop Floor PCs/Industrial Computer	100	
Automated Inspection Systems	100	

### Markets Served:

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

PCL Industrial Systems Inc. designs and manufactures shop-floor data collection systems, including hardware and software. Hardware includes data terminals for production monitoring and quality control. Its software operates in real time. It also designs and manufactures customized hardware and software for third parties.

## Proto Manufacturing Ltd.

2175 Solar Crescent  
OLDCASTLE, Ont.  
NOR 1L0  
Tel.: (519) 737-6330  
Fax: (519) 737-1692

CONTACT:  
Erhard Brauss  
General Manager

### Products Sold:

	% Mfg in Canada	% Import
Automatic/Advanced Machine Tools	100	
Automatic Welding Equipment	100	
Automatic Marking Equipment	100	
Automated Assembly Systems	100	
Automated Inspection Systems	100	

### Markets Served:

- Fabricated Metal Products Including Auto Parts
- Transportation Equipment

Proto Manufacturing Ltd. is engaged in the instrumentation side of advanced manufacturing technologies, including special custom-designed machinery/instruments, with automated inspection systems as its primary product line. It manufactures the Canmet, Denver and Proto X-Ray Residual Stress Measurement systems and the Proto Electro Polisher. The company has sales representatives in the United States, Europe, India, Australia, Japan and Taiwan.



**Product Sold:**

	% Mfg In Canada	% Import
Automatic Identification Systems	75	25

**Markets Served:**

- Clothing and Textiles
- Electrical and Electronic Products
- Transportation Equipment
- Food Processing
- Retail

R. Moroz Ltd. supplies bar code printers, readers and software as well as hand-held computers. It provides complete system design, development and implementation of data and capture systems.

**R. Moroz Ltd.**

1031 McNicoll Avenue  
SCARBOROUGH, Ont.  
M1W 3W6  
Tel.: (416) 756-4211  
Fax: (416) 756-4766

CONTACT:  
Bob Moroz  
President

**Products Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	
Automated Assembly Systems	100	
Automated Inspection Systems	100	
Sensing Systems for Manufacturing Applications	100	

**Market Served:**

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

Ramsey Canada manufactures material handling and loading systems along with sensing systems for material level, flow and density. It also supplies X-ray fluorescent instrumentation for non-destructive material identification.

**Ramsey  
Canada****Baker Hughes  
Canada Inc.**

385 Enford Road  
RICHMOND HILL, Ont.  
L4C 3G2  
Tel.: (416) 883-1881  
Fax: (416) 883-1750

CONTACT:  
Douglas Young  
Sales Manager

## Relcon Inc.

80 Walker Drive  
BRAMPTON, Ont.  
L6T 4H6  
Tel.: (416) 458-1100  
Fax: (416) 458-1200

CONTACT:  
Peter Lo  
President and CEO

### Product Sold:

Automatic Welding Equipment

% Mfg In  
Canada

% Import

100

### Markets Served:

- Clothing and Textiles
- Fabricated Metal Products Including Auto Parts
- Electrical and Electronic Products
- Rubber and Plastic Products Including Auto Parts

Relcon Inc. manufactures advanced manufacturing products, including electrical variable-speed drives and motion control products, automatic welding equipment and robotic systems.

## Rockwell Modular Automation Inc.

725 Century Street  
WINNIPEG, Man.  
R3H 0M2  
Tel.: (204) 775-2584  
Fax: (204) 786-2510

CONTACT:  
Jim Manishen  
President

### Products Sold:

Automatic Marking Equipment  
Automated Material Handling Systems  
Automated Assembly Systems

% Mfg In  
Canada

% Import

100

0

50

50

100

0

### Market Served:

- Fabricated Metal Products Including Auto Parts

Rockwell Modular Automation Inc. supplies low-cost modular system design and fabrication of parts handling systems, primarily based on pneumatic pressure. Components are assembled according to application and are sequenced using programmable controllers.

**Products Sold:**

	% Mfg In Canada	% Import
Programmable Controllers	95	5
Water Jet Cutting Equipment	60	40
Automated Guided Vehicles	60	40
Machine Vision Equipment	75	25
Automated Inspection Systems	90	10

**Markets Served:**

- Resource Industries
- Defence
- Nuclear

RSI RESEARCH LTD. specializes in the development, manufacture and marketing of remote telerobotic work systems and advanced equipment controls for use in hazardous and unstructured environments. Its products and services are sold to the subsea (offshore oil, aquaculture, defence and oceanography), nuclear and forestry industries. RSI's products include remote underwater camera systems, remote manipulators, remotely operated tracked vehicles, and operator controls. The company also provides design and engineering services in the field of robotics and telerobotics.

**RSI RESEARCH  
LTD.**

Unit 10  
10114 McDonald Park Road  
SIDNEY, B.C.  
V8L 3X9  
Tel.: (604) 656-0101  
Fax: (604) 656-1161

CONTACT:  
Chris Roper  
Manager  
Subsea Operations



## Scale-Tron Inc.

P.O. Box 424  
LACHINE, Que.  
H8S 4C2  
Tel.: (514) 634-7083  
Fax: (514) 634-7867

CONTACT:  
R.J. Shepherdson  
President

### Products Sold:

	% Mfg In Canada	% Import
Automated Material Handling Systems	70	30
Shop Floor PCs/Industrial Computer	70	30
Sensing Systems for Manufacturing Applications	50	50

### Markets Served:

- Building Products
- Food/Beverage

Scale-Tron Inc. supplies weigh batching systems, mainly for concrete and automated systems, to control the manufacture and distribution of bulk materials. Load cell sensing/weighing systems, associated electronic modules and systems, and software for the above are also supplied.

## Sensor Adaptive Machines Inc.

2835 Kew Drive  
WINDSOR, Ont.  
N8T 3B7  
Tel.: (519) 945-6373  
Fax: (519) 945-1467

CONTACT:  
Tim Pryor  
President

### Products Sold:

	% Mfg In Canada	% Import
NC/CNC Machines	90	10
Automatic/Advanced Machine Tools	90	10
Machine Vision Equipment	90	10
Automated Inspection Systems	90	10
Sensing Systems for Manufacturing Applications	90	10

### Markets Served:

- Fabricated Metal Products including Auto Parts
- Transportation Equipment

Sensor Adaptive Machines Inc. (SAMI) is developing a "next generation" intelligent sensor-based machine tool controller in conjunction with General Motors and Hughes, to be available in 1991. The company also offers a range of machine vision and laser/optoelectronic sensor products for high-precision applications developed by Diffracto.

**Product Sold:**

	% Mfg In Canada	% Import
Machine Vision Equipment	90	10

**Markets Served:**

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Aerospace
- Nuclear
- Chemical
- Defence
- Building Products

Servo-Robot Inc. specializes in three-dimensional laser machine vision systems, particularly for weld seam tracking and adaptive process control, and for metrology applications dealing with weights and measures. Servo-Robot offers hardware, software and peripherals and provides training and maintenance services to suit a large variety of applications. Its products include modular three-dimensional laser range scanning cameras and software packages. Servo-Robot is active in Europe, Asia and North America.

**Servo-Robot  
Inc.**

1380 Graham Bell Street  
BOUCHERVILLE, Que.  
J4B 6H5  
Tel.: (514) 665-4223  
Fax: (514) 665-4963

CONTACT:  
Jean-Paul Boillot  
President

## **Sherrex Systems Ltd.**

4196 - 93rd Street  
EDMONTON, Alta.  
T6E 5P5  
Tel.: (403) 462-4085  
Fax: (403) 450-8369

CONTACT:  
Doug Mogg  
Sales Manager

### **Products Sold:**

	% Mfg In Canada	% Import
Programmable Controllers	80	20
Shop Floor PCs/Industrial Computer	80	20

### **Markets Served:**

- Fabricated Metal Products including Auto Parts
- Rubber and Plastic Products including Auto Parts
- Petroleum
- Petrochemical
- Building Products

Sherrex Systems Ltd. is a privately owned company with more than 10 years of practical experience in the design and manufacture of custom-designed industrial electronics. Its products include building/process controls, remote terminal units (RTUs), supervisory control and data acquisition (SCADA) systems hardware, specialized instrumentation, industrial fibre-optic communication systems, smart industrial keyboards, dual-computer switchover units, flow totalizers/computers, and erasable, programmable, read-only memory (EPROM) programmers.

**Products Sold:**

	% Mfg In Canada	% Import
Programmable Controllers	50	50
Automatic Marking Equipment	80	20
Automated Material Handling Systems	90	10
Machine Vision Equipment	90	10
Sensing Systems for Manufacturing Applications	90	10

**Markets Served:**

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

Softac Systems Ltd. is a systems engineering house specializing in forest products equipment. It manufactures complete carriage networks and sorters, as well as cant, edger or trimmer optimizer systems. Softac also designs and manufactures special electrical controls and variable-speed drives for bulk material handling systems, crushers, conveyors, compressors, pumps, winches, cranes and ski lifts, as well as specialized variable-speed motor controls (alternating and/or direct current), computerized process controls and programmable logic controllers.

**Softac Systems  
Ltd.**

3046 Westwood Street  
PORT COQUITLAM, B.C.  
V3C 3L7  
Tel.: (604) 464-8505  
Fax: (604) 464-2242

**CONTACT:**

Ian Bowman  
Manager  
Sales and Marketing

## **STROMAG (Niagara) Ltd.**

6969 Oakwood Drive  
NIAGARA FALLS, Ont.  
L2E 6S5  
Tel.: (416) 354-7407  
Fax: (416) 354-1404

**CONTACT:**  
Stan Flisk  
President

### *Division Addresses:*

*PAL Distributors*  
915 King Edward Street  
WINNIPEG, Man.  
R3H 0P8

*Ultra Packaging*  
Unit 13  
12331 Phoenix Drive  
RICHMOND, B.C.  
V7E 6C2

### **Products Sold:**

	% Mfg In Canada	% Import
Automated Material Handling Systems	100	
Automated Assembly Systems	100	

### **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

STROMAG (Niagara) Ltd. offers a total engineered approach for available or custom-designed vibratory parts feeders, horizontal in-line feeders, side delivery hoppers and elevator supply hoppers for the automatic handling of a wide variety of parts, including spring untanglers. It also supplies scales for accurate counting or weighing applications for wholesale and retail applications. In addition, it provides packaging equipment for bagging, offering both preprinted and plain bags for all types of packaging needs.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic Welding Equipment	50	50
Machine Vision Equipment	100	0
Automated Inspection Systems	100	0
Sensing Systems for Manufacturing Applications	100	0

**Markets Served:**

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

Techno Scientific Inc. performs research, development and manufacturing in the areas of automated non-destructive examination (NDE), robot welding and machine vision systems, transducers and sensors. A wide range of NDE products are manufactured, from single transducers and interface modules to automated scanning systems, as well as complete turnkey, inspection and robotic systems.

**Techno  
Scientific Inc.**

60 Caster Avenue  
WOODBIDGE, Ont.  
L4L 4X2  
Tel.: (416) 851-9958  
Fax: (416) 851-6314

CONTACT:  
David Johnston  
Marketing

## Techware Systems Corporation

Unit 100  
12051 Horseshoe Way  
RICHMOND, B.C.  
V7A 4V4  
Tel.: (604) 271-2000  
Fax: (604) 275-8572

CONTACT:  
Martin Hansmann  
International Sales  
Manager

Division Address:

Precision Research  
Instruments, Inc.  
P.O. Box 724  
CAMBRIDGE, Ont.  
N1R 5W6

CONTACT:  
Lynda Campbell

### Products Sold:

	% Mfg In Canada	% Import
Programmable Controllers	80	20
Shop Floor PCs/Industrial Computers	80	20

### Market Served:

- Semiconductor manufacturing equipment

Techware Systems Corporation produces process equipment controllers for thin film deposition and etching equipment. These technologies are used primarily in the fabrication of microelectronic (semiconductor) devices, optoelectronic devices, magnetic media, optical storage devices, architectural glass treatments, and machine tool hardness coating processes. Techware Systems provides a complete range of services, consisting of hardware, software and support services.

## Trans Automated Equipment Magna International Inc.

300 Edgeley Boulevard  
CONCORD, Ont.  
L4K 3Y3  
Tel.: (416) 738-1236  
Fax: (416) 738-2139

CONTACT:  
Bo Lindgren  
General Manager

### Products Sold:

	% Mfg In Canada	% Import
Automatic Welding Equipment	100	
Automated Material Handling Systems	100	
Automated Assembly Systems	100	

### Markets Served:

- Machinery to Produce Metal Products and Automotive Parts
- Electrical and Electronic Products
- Materials Handling

Trans Automated Equipment (TAE) specializes in machine building in the welding, automation and automated assembly fields. TAE offers a complete service incorporating custom-designed systems, mechanical engineering, electrical engineering, machine shop service, and quality control. With these specialties in-house, it has much to offer to the customer, including individual assistance in problem solving, cost-reduction techniques, maintenance, spare parts, technical support and custom design.

**Products Sold:**

	% Mfg in Canada	% Import
Industrial Robots	100	
Automated Material Handling Systems	100	
Automated Assembly Systems	100	

**Markets Served:**

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

Traypack Machine Ltd. designs and manufactures industrial robots and automation systems for the assembly and production of components. Emphasis is on custom-designed engineering and integration equipment, utilizing pick-and-place industrial robots and unique parts handling systems developed in Canada by Traypack to automate parts handling processes.

**Products Sold:**

	% Mfg in Canada	% Import
Automated Material Handling Systems	100	
Automated Baggage Transfer System	100	

**Markets Served:**

- Airport Transportation Equipment—Automated Baggage Transfer System
- Packaging—Material Handling System

The success of UTDC Inc.'s automated transit systems has led directly to the development of computer-controlled materials handling systems and baggage transfer systems. The materials handling system powered by in-track linear induction motors (LIMs) uses passive vehicles to automatically load and unload 10-foot-high (3-m high) pallets of cans into a warehouse 247 m away. Also employing LIM technology, the Changi Airport Baggage Transfer System transports baggage quickly between the airport's two terminals located about 1.25 km apart. Extremely reliable, both of these systems offer high-speed service at low operating costs.

Designed to fulfil a broad range of industrial applications, UTDC's LIM technology is extremely flexible. The system adjusts and expands quickly to satisfy changing demands and production schedules.

**Traypack  
Machine Ltd.**

16 George Street North  
CAMBRIDGE, Ont.  
N1S 2M8  
Tel.: (519) 623-5515

CONTACT:  
Alan Quelch  
President

**UTDC Inc.  
Subsidiary of  
Lavalin  
Industries Inc.**

P.O. Box 70, Station A  
KINGSTON, Ont.  
K7M 6P9  
Tel.: (613) 384-3100  
Fax: (613) 389-6382

CONTACT:  
Keith G. Chapman  
Director  
Proposals



## Vadeco International Inc.

2600 Argentea Road  
MISSISSAUGA, Ont.  
L5N 5V4  
Tel.: (416) 821-3222  
Fax: (416) 821-2232

CONTACT:  
Ann Whitehead  
Manager  
Corporate Development

### Products Sold:

	% Mfg In Canada	% Import
Industrial Robots	100	
Automated Inspection Systems	100	

### Markets Served:

- Transportation Equipment
- Aerospace

Vadeco International Inc. designs, manufactures and integrates large-scale robotics and inspection systems for cleaning and coating, as well as handling explosive materials in a variety of environments.

## Valiant Machine & Tool Inc.

7171 Tecumseh Road East  
WINDSOR, Ont.  
N8T 1E7  
Tel.: (519) 972-6554  
Fax: (519) 944-4233

CONTACT:  
Guy Di Porro  
Vice-President  
Sales and Marketing

### Products Sold:

	% Mfg In Canada	% Import
Automatic Welding Equipment	100	
Automated Material Handling Systems	100	
Automated Assembly Systems	100	
Advanced Tooling for Manufacturing Applications	100	

### Markets Served:

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

Valiant Machine & Tool Inc. supplies equipment (turnkey/design and build) for processing and assembly tooling for the automotive, aerospace and off-road industries. It offers a complete range of services for designing and building systems using computer-aided design/manufacturing (CAD/CAM) and conventional methods. Valiant's products include industrial parts washers (i.e., cleaning equipment), hydraulic presses, tooling and fixtures, plastic injection and compression moulds, tooling for automotive parts and fabricated metal produces such as weldments, bases, etc.

**Products Sold:**

	% Mfg In Canada	% Import
Industrial Robots	100	
Automated Assembly Systems	100	

**Market Served:**

- Rubber and Plastic Products Including Auto Parts

Ventax Robot Inc. designs, manufactures and services parts removal robots for injection moulding machines. It also manufactures custom-designed tooling and automation equipment for the plastic moulder. In addition, Ventax manufactures a line of modular pick-and-place robots that can easily be adapted to a variety of applications, both within and outside the plastics industry. Recently, Ventax became a sales representative for various automation auxiliary components, including belt and chain conveyors, structural aluminum profiles and pipe clamping systems.

**Ventax Robot  
Inc.**

73 Northumberland Street  
AYR, Ont.  
N0B 1E0  
Tel.: (519) 632-7834  
Fax: (519) 632-7702

**CONTACT:**  
B. Drysdale  
Vice-President  
Operations

**Venture Tool  
Company  
(Windsor) Ltd.**

5130 Walker Road  
WINDSOR, Ont.  
N9A 6J3  
Tel.: (519) 737-6943  
Fax: (519) 737-1225

CONTACT:  
R. Chalut  
Manager  
Sales and Marketing

**Products Sold:**

	% Mfg In Canada	% Import
Automatic/Advanced Machine Tools	100	
Automatic Welding Equipment	100	
Automatic Marking Equipment	100	
Electric Discharge Machines	100	
Industrial Robots	100	
Automated Material Handling Systems	100	
Automated Storage and Retrieval Systems	100	
Automated Assembly Systems	100	
Automated Packaging Systems	100	
Sensing Systems for Manufacturing Applications	100	

**Market Served:**

- Fabricated Metal Products Including Auto Parts

Venture Tool Company (Windsor) Ltd. manufactures custom-designed machinery, including industrial robots. The company's current product line consists of: dies, fixtures and tooling of all varieties; metal stampings and small tonnage parts; a wide range of computer numerical controlled (CNC) machining centres and other production machines; rework and machine repair, machine tools, etc.; welding fixtures, body fixtures and miscellaneous carts; automatic handling equipment, engine component shuttles, walking beams, accumulators, etc.; loaders and unloaders, elevators, gravity roller conveyors, turntables, miscellaneous handling systems and conveyor systems; industrial parts washers, phosphate systems and miscellaneous parts washers; functional, air/underwater leak-testing equipment; hydraulic presses of up to 2000 tonnes of pressure; pick-and-place units; and gantry robots.

**Products Sold:**

	% Mfg In Canada	% Import
Automatic Identification Systems	100	
Shop Floor PCs/Industrial Computer	100	
Machine Vision Equipment	100	

**Markets Served:**

- Printing
- Fabricated Metal Products Including Auto Parts
- Rubber and Plastic Products Including Auto Parts
- Lumber Mills
- Steel Mills
- Plastic Film Mills

VisionSmart Inc. produces an industrial supercomputer capable of operating at three billion instructions per second, which is being used in lumber mills for visual quality assurance and process control. Its primary application is for visual quality inspection and any process involving the visual or X-ray inspection of product moving on a high-lineal-speed/high-volume production line.

**VisionSmart  
Inc.**

5807 - 104th Street  
EDMONTON, Alta.  
T6H 2K4  
Tel.: (403) 435-7082  
Fax: (403) 436-0963

**CONTACT:**  
Bruce Ramage  
Finance

## Well Products Ltd.

105 Riviera Drive  
MARKHAM, Ont.  
L3R 5J6  
Tel.: (416) 475-7717  
Fax: (416) 475-7709

CONTACT:  
Gilbert Strassguertl  
Vice President

### Products Sold:

	% Mfg in Canada	% Import
Automatic/Advanced Machine Tools	100	
Programmable Controllers	100	
Automatic Welding Equipment	100	
Automated Material Handling Systems	100	
Automated Storage and Retrieval Systems	100	

### Markets Served:

- Clothing and Textiles
- Fabricated Metal Products Including Auto Parts

Well Products Ltd. manufactures material handling equipment, including garment conveyors, carousels, industrial overhead conveyor systems and monorail systems.

## Western Industrial Programming

P.O. Box 2044  
SALMON ARM, B.C.  
V1E 4R1  
Tel.: (604) 832-9322  
Fax: (604) 832-1885

CONTACT:  
Terry Marriott  
General Manager

### Products Sold:

	% Mfg in Canada	% Import
Programmable Controllers	50	50
Automated Material Handling Systems	100	0
Automated Packaging Systems	100	0
Machine Vision Equipment	50	50
Automated Inspection Systems	50	50
Sensing Systems for Manufacturing Applications	50	50

### Markets Served:

- Wooden Furniture and Other Millwork
- Lumber

Western Industrial Programming supplies industrial electrical control and machine vision-based systems to a wide variety of manufacturers. At present, its primary market is the lumber manufacturing industry.

**Products Sold:**

	% Mfg In Canada	% Import
NC/CNC Machines	100	0
Programmable Controllers	100	0
Shop Floor PCs/Industrial Computer	80	20

**Markets Served:**

- Fabricated Metal Products Including Auto Parts

Zakron Industries Inc. manufactures computer numerical controlled (CNC) back gauging and shear gauging systems for press brakes and shears. It also provides customized electronic design for industrial and engineering applications.

**Zakron  
Industries Inc.**

Unit 2  
1035 Toy Avenue  
PICKERING, Ont.  
L1W 3N9  
Tel.: (416) 683-0462  
Fax: (416) 427-0202

CONTACT:  
W.A. Zakrajsek  
Administrator

**Products Sold:**

	% Mfg In Canada	% Import
NC/CNC Machines	50	50
Automated Material Handling Systems	100	0
Automated Packaging Systems	100	0
Automated Inspection Systems	50	50

**Market Served:**

- Packaging Equipment

Zepf Technologies Inc. (ZTI) designs, manufactures and installs material handling and transfer systems and automated processing lines. It has expertise in the high-speed, exact positioning of objects. ZTI has computer-aided design equipment and has developed specialized software for post-processing designs. The company's major markets are in the packaging industry in Canada, the United States, Mexico and the European Community.

**Zepf  
Technologies  
Inc.**

70 Rankin Street  
WATERLOO, Ont.  
N2V 1V9  
Tel.: (519) 884-6470  
Fax: (519) 884-7456

CONTACT:  
Larry M. Zepf  
CEO

**Cross-  
Reference  
by  
Products  
Sold**

• **NC/CNC Machines**

Arvid Machine Tools Ltd.....	4
Automation Specialties .....	8
Beck Technologies Ltd. ....	9
Brattan Tool Industries Ltd. ....	11
Compustep Products Corp. ....	15
Eagle Precision Technologies Inc.....	22
Ferro Products Co. Ltd. ....	25
FLV Automation Systems Inc.....	26
Henri Liné Machine Tools Ltd. ....	30
Mimik Industries Inc.....	36
Sensor Adaptive Machines Inc. ....	48
Zakron Industries Inc. ....	61
Zepf Technologies Inc. ....	61

• **Automatic/Advanced Machine Tools**

Arvid Machine Tools Ltd.....	4
ASA Automation Systems Assoc. Ltd. ....	5
Automation Specialties .....	8
Beck Technologies Ltd. ....	9
Compustep Products Corp. ....	15
Doucet Machineries Inc. ....	20
Eagle Precision Technologies Inc.....	22
Ferro Products Co. Ltd. ....	25
FLV Automation Systems Inc.....	26
Henri Liné Machine Tools Ltd. ....	30
Microtrol.....	35
Proto Manufacturing Ltd. ....	44
Sensor Adaptive Machines Inc. ....	48
Venture Tool Company (Windsor) Ltd. ....	58
Well Products Ltd. ....	60

• **Programmable Controllers**

Advanced Dynamics Corporation Ltd. ....	1
ASA Automation Systems Assoc. Ltd. ....	5
Automation Specialties .....	8
Beck Technologies Ltd. ....	9
Computerized Cutters Ltd. ....	15
Corman Technologies Inc. ....	18
Ferro Products Co. Ltd. ....	25
Gentec Inc. ....	27
Global Laser Systems Inc. ....	28

Honeywell Limited .....	31
Microtrol.....	35
PAC Process Automation Controls Ltd. ....	42
RSI RESEARCH LTD. ....	47
Sherrex Systems Ltd. ....	50
Softac Systems Ltd.....	51
Techware Systems Corporation.....	54
Well Products Ltd. ....	60
Western Industrial Programming.....	60
Zakron Industries Inc. ....	61

## Cross- Reference by Products Sold

### • *Automatic Welding Equipment*

ASA Automation Systems Assoc. Ltd. ....	5
Automation Specialties .....	8
Centerline Windsor Ltd.....	13
F.H. Welding Machines Ltd. ....	26
Irco Automation Inc. ....	33
MVS Modular Vision Systems Inc.....	37
NAFO Welding Technology Ltd.....	38
Numet Engineering Ltd. ....	39
Olofstrom Automation Ltd.....	40
Pavesi International.....	43
Proto Manufacturing Ltd. ....	44
Relcon Inc. ....	46
Techno Scientific Inc. ....	53
Trans Automated Equipment .....	54
Vallant Machine & Tool Inc. ....	56
Venture Tool Company (Windsor) Ltd.....	58
Well Products Ltd. ....	60

### • *Automatic Marking Equipment*

A.T.S. Inc.....	6
Automation Specialties .....	8
Cassco Machines .....	12
Numet Engineering Ltd. ....	39
Pavesi International.....	43
Proto Manufacturing Ltd. ....	44
Rockwell Modular Automation Inc.....	46
Softac Systems Ltd.....	51
Venture Tool Company (Windsor) Ltd.....	58



**Cross-  
Reference  
by  
Products  
Sold**

◦ ***Electric Discharge Machines***

Venture Tool Company (Windsor) Ltd. ....58

◦ ***Injection Moulding Machines***

Engel Canada Inc. ....23

Husky Injection Molding Systems Ltd. ....31

◦ ***Water Jet Cutting Equipment***

A.T.S. Inc. ....6

Automation Specialties .....8

Ferro Products Co. Ltd. ....25

Microtrol.....35

RSI RESEARCH INC.....47

◦ ***Industrial Robots***

Andec Manufacturing Ltd. ....3

ASA Automation Systems Assoc. Ltd. ....5

A.T.S. Inc. ....6

Automation Specialties .....8

Browdyne Ltd. ....11

Coreco Inc. ....17

CRS Plus Inc. ....18

Husky Injection Molding Systems Ltd. ....31

Irco Automation Inc. ....33

Microtrol.....35

Mlmik Industries Inc. ....36

Numet Engineering Ltd. ....39

Orchid Automation Group Inc. ....41

Pathex International Ltd. ....42

Traypack Machine Ltd. ....55

Vadeko International Inc. ....56

Ventax Robot Inc. ....57

Venture Tool Company (Windsor) Ltd. ....58

◦ ***Automated Material Handling Systems***

A. Comeau & Associates Ltd. ....1

Advanced Dynamics Corporation Ltd. ....1

AECL-CANDU .....2

AIR TRAC CORP. ....2

AISCO Systems Inc. ....3

Andec Manufacturing Ltd. ....	3
ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc. ....	6
Automation Devices (Canada) Ltd. ....	7
Automation Specialties ....	8
Ball Service Group Inc. ....	9
Beck Technologies Ltd. ....	9
Brandt Manufacturing Inc. ....	10
Brattan Tool Industries Ltd. ....	11
Browdyne Ltd. ....	11
Byronix Computer Controls Inc. ....	12
Centerline Windsor Ltd. ....	13
Charlottetown Metal Products Ltd. ....	13
Coates Industrial Automation Ltd. ....	14
Coreco Inc. ....	17
Doucet Machineries Inc. ....	20
Eagle Precision Technologies Inc. ....	22
Engel Canada Inc. ....	23
FLV Automation Systems Inc. ....	26
Heathrow Industrial Technologies Inc. ....	29
John T. Hepburn Ltd. ....	33
Microtrol. ....	35
Mimik Industries Inc. ....	36
Numet Engineering Ltd. ....	39
Orchid Automation Group Inc. ....	41
Pathex International Ltd. ....	42
Ramsey Canada ....	45
Rockwell Modular Automation Inc. ....	46
Scale-Tron Inc. ....	48
Softac Systems Ltd. ....	51
STROMAG (Niagara) Ltd. ....	52
Trans Automated Equipment ....	54
Traypack Machine Ltd. ....	55
UTDC Inc. ....	55
Vallant Machine & Tool Inc. ....	56
Venture Tool Company (Windsor) Ltd. ....	58
Well Products Ltd. ....	60
Western Industrial Programming ....	60
Zepf Technologies Inc. ....	61

• ***Automated Guided Vehicles***

Orchid Automation Group Inc. ....	41
Pathex International Ltd. ....	42
RSI RESEARCH LTD. ....	47

**Cross-  
Reference  
by  
Products  
Sold**

◦ ***Automated Warehousing Systems***

Ball Service Group Inc.....	9
Byronix Computer Controls Inc. ....	12
Heathrow Industrial Technologies Inc. ....	29
Orchid Automation Group Inc.....	41

◦ ***Automated Storage and Retrieval Systems***

A. Comeau & Associates Ltd. ....	1
Advanced Dynamics Corporation Ltd. ....	1
Heathrow Industrial Technologies Inc. ....	29
John T. Hepburn Ltd. ....	33
Orchid Automation Group Inc.....	41
Pathex International Ltd. ....	42
Venture Tool Company (Windsor) Ltd. ....	58
Well Products Ltd. ....	60

◦ ***Automatic Identification Systems***

AECL-CANDU .....	2
Advanced Dynamics Corporation Ltd. ....	1
A.T.S. Inc.....	6
Automation Specialties .....	8
Cassco Machines .....	12
Coreco Inc. ....	17
Epic Data Inc. ....	24
R. Moroz Ltd.....	45
VisionSmart Inc.....	59

◦ ***Shop Floor PCs/Industrial Computers***

ASA Automation Systems Assoc. Ltd. ....	5
Automation Specialties .....	8
Beck Technologies Ltd. ....	9
Control Microsystems Inc.....	16
Corman Technologies Inc. ....	18
Dynapro Systems Inc.....	21
Ferro Products Co. Ltd. ....	25
Global Laser Systems Inc. ....	28
Les Systèmes Montréal Robotique Ltée.....	34
Microtrol.....	35
PCL Industrial Systems Inc. ....	44
Scale-Tron Inc.....	48
Sherrex Systems Ltd. ....	50

Techware Systems Corporation .....	54
VisionSmart Inc.....	59
Zakron Industries Inc. ....	61

• ***Automated Assembly Systems***

Advanced Dynamics Corporation Ltd. ....	1
ALSCO Systems Inc.....	3
ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc.....	6
Automated Systems Inc.....	7
Automation Devices (Canada) Ltd. ....	7
Automation Specialties .....	8
Beta-Tech Inc. ....	10
Brandt Manufacturing Inc. ....	10
Browdyne Ltd. ....	11
Byronix Computer Controls Inc. ....	12
Cassco Machines .....	12
Centerline Windsor Ltd.....	13
Coates Industrial Automation Ltd.....	14
Eagle Precision Technologies Inc.....	22
FLV Automation Systems Inc.....	26
Gryphon Automation Inc. ....	29
Husky Injection Molding Systems Ltd. ....	31
Numet Engineering Ltd. ....	39
Olofstrom Automation Ltd. ....	40
Orchid Automation Group Inc.....	41
Pavesi International.....	43
Proto Manufacturing Ltd. ....	44
Ramsey Canada .....	45
Rockwell Modular Automation Inc.....	46
STROMAG (Niagara) Ltd.....	52
Trans Automated Equipment .....	54
Traypack Machine Ltd. ....	55
Vallant Machine & Tool Inc. ....	56
Ventax Robot Inc. ....	57
Venture Tool Company (Windsor) Ltd. ....	58

• ***Automated Packaging Systems***

Advanced Dynamics Corporation Ltd. ....	1
AECL-CANDU .....	2
ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc.....	6
Automation Devices (Canada) Ltd. ....	7

**Cross-  
Reference  
by  
Products  
Sold**

**Cross-  
Reference  
by  
Products  
Sold**

Diemaster Tool Inc. ....	19
Numet Engineering Ltd. ....	39
UTDC Inc. ....	55
Venture Tool Company (Windsor) Ltd. ....	58
Western Industrial Programming ....	60
Zepf Technologies Inc. ....	61

◦ ***Machine Vision Equipment***

AECL-CANDU ....	2
Andec Manufacturing Ltd. ....	3
ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc. ....	6
Automation Specialties ....	8
Beck Technologies Ltd. ....	9
Coreco Inc. ....	17
Hymarc Ltd. ....	32
Ico Automation Inc. ....	33
Mayan Automation Inc. ....	35
Microtrol ....	35
MVS Modular Vision Systems Inc. ....	37
Numet Engineering Ltd. ....	39
RSI RESEARCH LTD. ....	47
Sensor Adaptive Machines Inc. ....	48
Servo-Robot Inc. ....	49
Softac Systems Ltd. ....	51
Techno Scientific Inc. ....	53
VisionSmart Inc. ....	59
Western Industrial Programming ....	60

◦ ***Automated Inspection Systems***

Advanced Dynamics Corporation Ltd. ....	1
AECL-CANDU ....	2
Andec Manufacturing Ltd. ....	3
ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc. ....	6
Brandt Manufacturing Inc. ....	10
Coreco Inc. ....	17
Diffraeto Ltd. ....	20
FLV Automation Systems Inc. ....	26
George Kelk Ltd. ....	27
Gray Instruments Inc. ....	28
Hymarc Ltd. ....	32
Lambda Technology Ltd. ....	34

Les Systèmes Montréal Robotie Ltée.....	34
Mayan Automation Inc. ....	35
Mimik Industries Inc. ....	36
MVS Modular Vision Systems Inc. ....	37
Numet Engineering Ltd. ....	39
Pavesi International.....	43
PCL Industrial Systems Inc. ....	44
Proto Manufacturing Ltd. ....	44
Ramsey Canada.....	45
RSI RESEARCH LTD. ....	47
Sensor Adaptive Machines Inc. ....	48
Techno Scientific Inc. ....	53
Vadeko International Inc.....	56
Western Industrial Programming .....	60
Zepf Technologies Inc. ....	61

• ***Sensing Systems for Manufacturing Applications***

Advanced Dynamics Corporation Ltd. ....	1
AECL-CANDU .....	2
Andec Manufacturing Ltd. ....	3
ASA Automation Systems Assoc. Ltd. ....	5
Automation Specialties .....	8
Beck Technologies Ltd. ....	9
Browdyne Ltd. ....	11
Byronix Computer Controls Inc. ....	12
Control Microsystems Inc.....	16
Coreco Inc. ....	17
Diffrauto Ltd. ....	20
George Kelk Ltd.....	27
Honeywell Limited .....	31
Lambda Technology Ltd. ....	34
Mayan Automation Inc. ....	35
Microtrol.....	35
Mimik Industries Inc.....	36
MVS Modular Vision Systems Inc.....	37
Numet Engineering Ltd. ....	39
Pavesi International.....	43
Ramsey Canada .....	45
Scale-Tron Inc.....	48
Sensor Adaptive Machines Inc. ....	48
Softac Systems Ltd.....	51
Techno Scientific Inc. ....	53
Venture Tool Company (Windsor) Ltd. ....	58
Western Industrial Programming .....	60

**Cross-  
Reference  
by  
Products  
Sold**

**Cross-  
Reference  
by  
Products  
Sold**

• **CAD/CAM/CAE Hardware**

Andec Manufacturing Ltd. ....	3
Automation Specialties .....	8
Beck Technologies Ltd. ....	9
Escher-Grad Inc. ....	25
Intergraph Canada.....	32

• **Advanced Tooling for Manufacturing Applications**

Andec Manufacturing Ltd. ....	3
ASA Automation Systems Assoc. Ltd. ....	5
Automation Specialties .....	8
Bail Service Group Inc.....	9
Cassco Machines .....	12
Centerline Windsor Ltd.....	13
Civic Tool & Die Works Ltd.....	14
Diemaster Tool Inc. ....	19
Eagle Precision Technologies Inc.....	22
Ferro Products Co. Ltd. ....	25
Gryphon Automation Inc. ....	29
Husky Injection Molding Systems Ltd. ....	31
Les Systèmes Montréal Robotique Ltée.....	34
Mimik Industries Inc.....	36
Montreal Precision Crafting Company Ltd.....	37
Olofstrom Automation Ltd. ....	40
Orchid Automation Group Inc.....	41
Pavesi International.....	43
Vallant Machine & Tool Inc. ....	56

• **Other**

**Automated Baggage Transfer Systems**

UTDC Inc. ....	55
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• **Wooden Furniture and Other Millwork**

ASA Automation Systems Assoc. Ltd. ....	5
Cassco Machines .....	12
Doucet Machinerles Inc. ....	20
Henri Liné Machine Tools Ltd. ....	30
Hymarc Ltd. ....	32
Microtrol.....	35
Mimik Industries Inc. ....	36
STROMAG (Niagara) Ltd. ....	52
Western Industrial Programming .....	60

• **Printing**

Automation Specialties .....	8
Browdyne Ltd. ....	11
Cassco Machines .....	12
Computerized Cutters Ltd. ....	15
Epic Data Inc. ....	24
Escher-Grad Inc. ....	25
Henri Liné Machine Tools Ltd. ....	30
Montreal Precision Crafting Company Ltd.....	37
PCL Industrial Systems Inc. ....	44
STROMAG (Niagara) Ltd. ....	52
VisionSmart Inc. ....	59

• **Clothing and Textiles**

Browdyne Ltd. ....	11
Microtrol.....	35
R. Moroz Ltd. ....	45
Relcon Inc. ....	46
Well Products Ltd. ....	60

• **Fabricated Metal Products including Auto Parts**

AISCO Systems Inc. ....	3
Andec Manufacturing Ltd. ....	3
Arvid Machine Tools Ltd. ....	4
ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc. ....	6
Automated Systems Inc. ....	7
Automation Devices (Canada) Ltd. ....	7
Automation Specialties .....	8
Ball Service Group Inc. ....	9

**Cross-  
Reference  
by  
Markets  
Served**



**Cross-  
Reference  
by  
Markets  
Served**

Beck Technologies Ltd. ....	9
Beta-Tech Inc. ....	10
Brandt Manufacturing Inc. ....	10
Brattan Tool Industries Ltd. ....	11
Cassco Machines ....	12
Centerline Windsor Ltd. ....	13
Coates Industrial Automation Ltd. ....	14
Compustep Products Corp. ....	15
Coreco Inc. ....	17
Corman Technologies Inc. ....	18
Diemaster Tool Inc. ....	19
Diffraeto Ltd. ....	20
Dynapro Systems Inc. ....	21
Eagle Precision Technologies Inc. ....	22
Epic Data Inc. ....	24
Ferro Products Co. Ltd. ....	25
F.H. Welding Machines Ltd. ....	26
FLV Automation Systems Inc. ....	26
Global Laser Systems Inc. ....	28
Gray Instruments Inc. ....	28
Heathrow Industrial Technologies Inc. ....	29
Henri Liné Machine Tools Ltd. ....	30
Hymarc Ltd. ....	32
Intergraph Canada ....	32
Irco Automation Inc. ....	33
Les Systèmes Montréal Robotie Ltée ....	34
Microtrol ....	35
Mimik Industries Inc. ....	36
Montreal Precision Crafting Company Ltd. ....	37
MVS Modular Vision Systems Inc. ....	37
NAFO Welding Technology Ltd. ....	38
Numet Engineering Ltd. ....	39
Olofstrom Automation Ltd. ....	40
Orchid Automation Group Inc. ....	41
Pathex International Ltd. ....	42
Pavesi International ....	43
PCL Industrial Systems Inc. ....	44
Proto Manufacturing Ltd. ....	44
Ramsey Canada ....	45
Relcon Inc. ....	46
Rockwell Modular Automation Inc. ....	46
Sensor Adaptive Machines Inc. ....	48
Servo-Robot Inc. ....	49
Sherrex Systems Ltd. ....	50
Softac Systems Ltd. ....	51

STROMAG (Niagara) Ltd.....	52
Techno Scientific Inc. ....	53
Traypack Machine Ltd. ....	55
Vallant Machine & Tool Inc. ....	56
Venture Tool Company (Windsor) Ltd. ....	58
VisionSmart Inc.....	59
Well Products Ltd. ....	60
Zakron Industries Inc. ....	61

## Cross- Reference by Markets Served

### • *Electrical and Electronic Products*

A. Comeau & Associates Ltd. ....	1
Andec Manufacturing Ltd. ....	3
Arvid Machine Tools Ltd.....	4
A.T.S. Inc.....	6
Automation Devices (Canada) Ltd. ....	7
Automation Specialties .....	8
Cassco Machines .....	12
Coates Industrial Automation Ltd.....	14
Corman Technologies Inc. ....	18
CRS Plus Inc. ....	18
Diemaster Tool Inc. ....	19
Dynapro Systems Inc. ....	21
Engel Canada Inc.....	23
Epic Data Inc. ....	24
Escher-Grad Inc.....	25
Ferro Products Co. Ltd. ....	25
F.H. Welding Machines Ltd. ....	26
FLV Automation Systems Inc.....	26
Gentec Inc.....	27
Gryphon Automation Inc. ....	29
Honeywell Limited .....	31
Hymarc Ltd.....	32
Intergraph Canada.....	32
Les Systèmes Montréal Robotique Ltée.....	34
Microtrol.....	35
Numet Engineering Ltd. ....	39
Orchid Automation Group Inc.....	41
Pathex International Ltd. ....	42
Pavesi International.....	43
PCL Industrial Systems Inc. ....	44
R. Moroz Ltd.....	45
Relcon Inc. ....	46
Softac Systems Ltd.....	51
STROMAG (Niagara) Ltd.....	52

**Cross-  
Reference  
by  
Markets  
Served**

Techno Scientific Inc. ....	53
Trans Automated Equipment .....	54
Traypack Machine Ltd. ....	55

◦ *Rubber and Plastic Products including Auto Parts*

AIR TRAC CORP. ....	2
Andec Manufacturing Ltd. ....	3
Automated Systems Inc. ....	7
Automation Devices (Canada) Ltd. ....	7
Automation Specialties .....	8
Ball Service Group Inc. ....	9
Browdyne Ltd. ....	11
Cassco Machines .....	12
Centerline Windsor Ltd. ....	13
Coates Industrial Automation Ltd. ....	14
CRS Plus Inc. ....	18
Dynapro Systems Inc. ....	21
Engel Canada Inc. ....	23
Heathrow Industrial Technologies Inc. ....	29
Husky Injection Molding Systems Ltd. ....	31
Hymarc Ltd. ....	32
Intergraph Canada. ....	32
Mayan Automation Inc. ....	35
Numet Engineering Ltd. ....	39
Orchid Automation Group Inc. ....	41
Pathex International Ltd. ....	42
Pavesi International. ....	43
PCL Industrial Systems Inc. ....	44
Ramsey Canada .....	45
Relcon Inc. ....	46
Servo-Robot Inc. ....	49
Sherrex Systems Ltd. ....	50
STROMAG (Niagara) Ltd. ....	52
Techno Scientific Inc. ....	53
Traypack Machine Ltd. ....	55
Vallant Machine & Tool Inc. ....	56
Ventax Robot Inc. ....	57
VisionSmart Inc. ....	59

◦ *Transportation Equipment*

AISCO Systems Inc. ....	3
Andec Manufacturing Ltd. ....	3
Arvid Machine Tools Ltd. ....	4

## Cross-Reference by Markets Served

Automation Specialties .....	8
Ball Service Group Inc.....	9
Cassco Machines.....	12
Centerline Windsor Ltd.....	13
Compustep Products Corp.....	15
Corman Technologies Inc.....	18
Diemaster Tool Inc.....	19
Diffrauto Ltd.....	20
Dynapro Systems Inc.....	21
Eagle Precision Technologies Inc.....	22
Epic Data Inc.....	24
Ferro Products Co. Ltd.....	25
F.H. Welding Machines Ltd.....	26
Gryphon Automation Inc.....	29
Heathrow Industrial Technologies Inc.....	29
Henri Liné Machine Tools Ltd.....	30
Hymarc Ltd.....	32
Intergraph Canada.....	32
Irco Automation Inc.....	33
Microtrol.....	35
MVS Modular Vision Systems Inc.....	37
Olofstrom Automation Ltd.....	40
Orchid Automation Group Inc.....	41
PCL Industrial Systems Inc.....	44
Proto Manufacturing Ltd.....	44
R. Moroz Ltd.....	45
Sensor Adaptive Machines Inc.....	48
Techno Scientific Inc.....	53
Traypack Machine Ltd.....	55
UTDC Inc.....	55
Vadeko International Inc.....	56

### • Food Processing

AIR TRAC CORP.....	2
A.T.S. Inc.....	6
Ball Service Group Inc.....	9
Beck Technologies Ltd.....	9
Charlottetown Metal Products Ltd.....	13
Coates Industrial Automation Ltd.....	14
Control Microsystems Inc.....	16
Dynapro Systems Inc.....	21
R. Moroz Ltd.....	45

**Cross-  
Reference  
by  
Markets  
Served**

◦ *Other*

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

Advanced Dynamics Corporation Ltd. ....	1
AIR TRAC CORP. ....	2
AISCO Systems Inc. ....	3
A.T.S. Inc. ....	6
Automation Devices (Canada) Ltd. ....	7
Browdyne Ltd. ....	11
Byronix Computer Controls Inc. ....	12
Civic Tool & Die Works Ltd. ....	14
Coates Industrial Automation Ltd. ....	14
Control Microsystems Inc. ....	16
Coreco Inc. ....	17
Dlemaster Tool Inc. ....	19
Engel Canada Inc. ....	23
Gentec Inc. ....	27
George Kelk Ltd. ....	27
Henri Liné Machine Tools Ltd. ....	30
John T. Hepburn Ltd. ....	33
Lambda Technology Ltd. ....	34
Mayan Automation Inc. ....	35
Numet Engineering Ltd. ....	39
PAC Process Automation Controls Ltd. ....	42
RSI RESEARCH LTD. ....	47
Servo-Robot Inc. ....	49
Sherrex Systems Ltd. ....	50
UTDC Inc. ....	55
VisionSmart Inc. ....	59
Western Industrial Programming ....	60
Zepf Technologies Inc. ....	61

**Service Industries and Consumer Goods (services; furniture, leisure and grocery products)**

AIR TRAC CORP. ....	2
Ball Service Group Inc. ....	9
Beck Technologies Ltd. ....	9
Byronix Computer Controls Inc. ....	12
Charlottetown Metal Products Ltd. ....	13
Coates Industrial Automation Ltd. ....	14
Control Microsystems Inc. ....	16
Coreco Inc. ....	17

**Cross-  
Reference  
by  
Markets  
Served**

Engel Canada Inc. ....	23
Epic Data Inc. ....	24
Ferro Products Co. Ltd. ....	25
Global Laser Systems Inc. ....	28
Heathrow Industrial Technologies Inc. ....	29
Orchid Automation Group Inc. ....	41
R. Moroz Ltd. ....	45
Scale-Tron Inc. ....	48
UTDC Inc. ....	55

**Building Products**

Advanced Dynamics Corporation Ltd. ....	1
Eagle Precision Technologies Inc. ....	22
FLV Automation Systems Inc. ....	26
Scale-Tron Inc. ....	48
Servo-Robot Inc. ....	49
Sherrex Systems Ltd. ....	50

**Optical Products/Inspection Systems**

Civic Tool & Die Works Ltd. ....	14
Engel Canada Inc. ....	23
Gentec Inc. ....	27
Global Laser Systems Inc. ....	28
Lambda Technology Ltd. ....	34
Techware Systems Corporation ....	54

**Defence**

ASA Automation Systems Assoc. Ltd. ....	5
A.T.S. Inc. ....	6
Diemaster Tool Inc. ....	19
Epic Data Inc. ....	24
Numet Engineering Ltd. ....	39
RSI RESEARCH LTD. ....	47
Servo-Robot Inc. ....	49

**Telecommunications**

A.T.S. Inc. ....	6
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**Abrasives**

AIR TRAC CORP. ....	2
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**Hydraulic Components**

Eagle Precision Technologies Inc.....22

**Die mould Industry**

Henri Liné Machine Tools Ltd. ....30

**Process Industries**

Honeywell Limited .....31

**Semiconductor Manufacturing**

Techware Systems Corporation .....54

**Aerospace**

A.T.S. Inc. ....6

Engel Canada Inc. ....23

Epic Data Inc. ....24

Henri Liné Machine Tools Ltd. ....30

MVS Modular Vision Systems Inc. ....37

Orchid Automation Group Inc. ....41

Servo-Robot Inc. ....49

Vadeko International Inc. ....56

**Nuclear**

Henri Liné Machine Tools Ltd. ....30

RSI RESEARCH LTD. ....47

Servo-Robot Inc. ....49

**Materials Handling**

Dynapro Systems Inc. ....21

Trans Automated Equipment .....54

UTDC Inc. ....55

Zepf Technologies Inc. ....61

• **British Columbia**

ASA Automation Systems Assoc. Ltd. ....	5
Byronix Computer Controls Inc. ....	12
Civic Tool & Die Works Ltd. ....	14
Dynapro Systems Inc. ....	21
Epic Data Inc. ....	24
Lambda Technology Ltd. ....	34
PAC Process Automation Controls Ltd. ....	42
RSI RESEARCH LTD. ....	47
Softac Systems Ltd. ....	51
STROMAG (Niagara) Ltd. ....	52
Techware Systems Corporation ....	54
Western Industrial Programming ....	60

• **Alberta**

A. Comeau & Associates Ltd. ....	1
Control Microsystems Inc. ....	16
Global Laser Systems Inc. ....	28
Gray Instruments Inc. ....	28
NAFO Welding Technology Ltd. ....	38
Sherrex Systems Ltd. ....	50
VisionSmart Inc. ....	59

• **Saskatchewan**

Beck Technologies Ltd. ....	9
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• **Manitoba**

Rockwell Modular Automation Inc. ....	46
STROMAG (Niagara) Ltd. ....	52

• **Ontario**

AECL-CANDU ....	2
AIR TRAC CORP. ....	2
AISCO Systems Inc. ....	3
Andec Manufacturing Ltd. ....	3
Arvid Machine Tools Ltd. ....	4
A.T.S. Inc. ....	6
Automated Systems Inc. ....	7
Automation Devices (Canada) Ltd. ....	7
Automation Specialties ....	8

**Cross-  
Reference  
of  
Company  
Location  
by  
Province**



**Cross-  
Reference  
of  
Company  
Location  
by  
Province**

Ball Service Group Inc.....	9
Beta-Tech Inc. ....	10
Brandt Manufacturing Inc. ....	10
Brattan Tool Industries Ltd. ....	11
Browdyne Ltd. ....	11
Cassco Machines .....	12
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