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v. 2

**QUEBEC
AEROSPACE
1985**

VOLUME 2

**SYSTEMS
AND
SUBSYSTEMS**



Canada

**QUEBEC
AEROSPACE
1985**

VOLUME 2

**SYSTEMS
AND
SUBSYSTEMS**

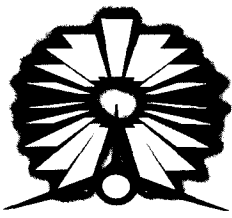


Regional Industrial
Expansion

Expansion industrielle
régionale

ISBN 0-662-13839-2 (Set)
Cat. No. C29-3/1-1985





QUEBEC : WORLD-CLASS AEROSPACE CAPABILITIES

The Quebec aerospace manufacturing industry has an outstanding range of capabilities, from research, design and development to testing and production of sophisticated hardware and systems. It also excels in after-sales support, field service and in-plant repair and overhaul of aircraft, engines and components. From manipulator arms used in orbital operations to air and ground-based avionic systems, there is little that the Quebec aerospace industry cannot do.

It is a dynamic and technologically advanced industry which, through specialization, has developed products that fly on hundreds of different aircraft worldwide.

Quebec is home to over 100 manufacturers of aircraft components, systems, sub-assemblies and accessories. They supply items such as electronic sub-systems, fuel control systems, wiring, structural elements, landing gear, communications systems, safety systems, navigation equipment, temperature control systems, aircraft interior finishing, hydraulic systems and control systems.

What these companies have in common is their ability to meet on time the exacting quality standards associated with aerospace products.

They employ over 27,000 people and in just four years, from 1979 to 1983, their sales more than doubled. Actual sales of more than \$ 1.9 billion in 1983 are forecast to climb to over \$ 3.0 billion (1982 dollars) in four years. The industry is an important Canadian exporter of advanced technology products and services : fully 70 percent of its total sales in 1983 were exported.

A golden opportunity for procurement specialists

Nowhere is the old slogan "Purchasing Makes Money" more appropriate than in the aerospace sector.

The successful buyer is always looking for new qualified sources capable of delivering quality products on time and at the best possible price.

Quebec Aerospace 1985 will introduce you to a remarkable group of such suppliers, about one hundred in fact, who offer the complete spectrum of aerospace products and services. Several of them will be familiar to you ; others may not. Therein lies an opportunity for the astute buyer to build up his or her pool of qualified sources.

For ease of reference, this book is divided into five separate sections tailor-made for specialty procurement.

Volume 1 is an alphabetical listing of companies with a short description of each.

Volumes 2 to 5 group companies by specialization and contain more specific data, such as capabilities, equipment and quality standards as well as a list of major customers. The specializations are :

Vol. 2 **Systems and Subsystems**

Vol. 3 **Precision Machining and Finishing**

Vol. 4 **Precision Investment Castings**

Vol. 5 **Specialty Products and Repair and Overhaul Services**

Some companies appear more than once ; the table on page 4 shows which company is found in which volume. Finally, at the back of Volume 1 is a reply coupon for ordering extra copies of **Quebec Aerospace 1985**.

Quebec Aerospace 1985 will be periodically updated. To ensure that you receive the amendments as well as to order additional copies just fill in the reply coupon or write to :

Government of Canada
Department of Regional Industrial Expansion
800 Victoria Square
P.O. Box 247
Montreal, Quebec
H4Z 1E8
Attn. : Director, Transportation Industries Branch



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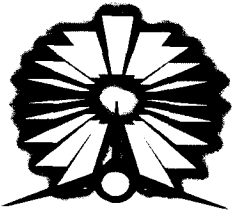
Company	Vol. 2	Vol. 3	Vol. 4	Vol. 5
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Lego Plating Industries		•		•
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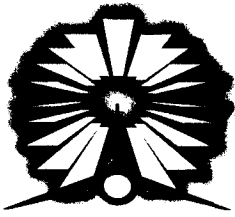
Company	Vol. 2	Vol. 3	Vol. 4	Vol. 5
Preci-Tech		•		•
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Rolls-Royce (Canada)	•	•		•
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UDT Industries		•		
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19	Innotech Aviation
20	Lucas Industries Canada
21	Noorduyn Norseman
22	Plastal
23	Pratt & Whitney Canada
24	Rolls-Royce (Canada)
25	Spar Aerospace
26	Ultravia Aero





AIRCOM ELECTRONICS LTD.

9325 Ryan Street
P.O. Box 515
Dorval International Airport
Dorval, Que.
H4Y 1B3

Contact: Robert Lessard, President
Telephone: (514) 636-3878
Telex: 05-822663

PRODUCTS, SERVICES, SPECIALITIES

Manufacture high frequency radio products (HF single side band radio, universal headset tester, portable Navaid test sets and portable communication centres). Provides sales and service for various avionic equipment manufacturers.

QUALITY STANDARDS

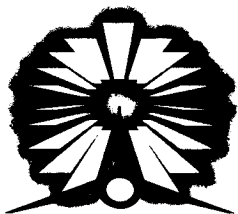
OTHERS : M.O.T.

MAJOR CLIENTS

Canadair
Canadian Pratt & Whitney
Air Canada
Eastern Provincial Airways
Quebecair
Department of National Defence (Canada)
Nordair
Ceda

EMPLOYEES (1983) 9

SALES (1983) From \$1.0 to \$1.5 million



AVIATECH INC.

2400 Guenette Street
Ville St-Laurent, Que.
H4R 2H2

Contact: Maurice Jagucki, President
Telephone: (514) 335-0166
Telex: 05-824946

PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of aircraft seats, crew and passengers seats, bar and meals trolleys, galley inserts. Vacuum forming and some composite lay-ups in carbon, boron and kevlar epoxies.

QUALITY STANDARDS

COMMERCIAL: M.O.T., FAA, DHC, Canadair

PRECISION MACHINERY

CONVENTIONAL MACHINE TOOLS

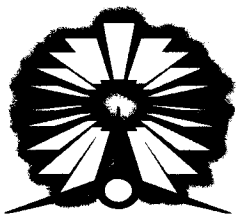
Turning (Lathe)	1	Sheet Metal	18
Milling	6	Surface Grinding	1
Drilling	3		

MAJOR CLIENTS

Canadair	Air Canada
De Havilland Aircraft	Dornier
Canadian Pacific (CP Air)	Dassault
Pacific Western Airlines	Lockheed
Wardair	Nordair
Innotech	EPA
Quebecair	

EMPLOYEES (1983) 50

SALES (1983) From \$1.5 to \$5.0 million



AVIONS PIERRE ROBIN INC.

430 Aero Parc
P.O. Box 430
Lachute, Que.
G8H 3X9

Contact: J. Lecrivain, President
Telephone: (514) 562-2235
Telex: 05-839626

PRODUCTS, SERVICES, SPECIALITIES

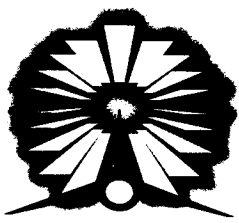
Manufacturer of single engine sport aircraft and fabricator of aircraft assemblies.

MAJOR CLIENTS

Has own dealer network.

EMPLOYEES (1983) 13

SALES (1983) Under \$0.5 million



A.W.S.M. ENTERPRISES LTD.

3905 Lemay Blvd.
St-Vincent-De-Paul, Laval, Que.
H7E 4V7

Contact: Raymond B. Dery, President
Normand Alarie, Vice-President
Telephone: (514) 661-9140

PRODUCTS, SERVICES, SPECIALITIES

Machine shop for aircraft components, ground equipment and sheet metal. Also does aircraft seats, metal stamping, tools, dies, welding, mooring equipment for ships.

QUALITY STANDARDS

DND: 1015
MIL: 45208A
OTHERS: CSA-Z299-3

PRECISION MACHINERY

NUMERICAL CONTROL MACHINE TOOLS

OKK-500 CNC 4 Axes
Hardinge Auto. Chucker Electronic Programming
TOS Chucker Electronic Programming

CONVENTIONAL MACHINE TOOLS

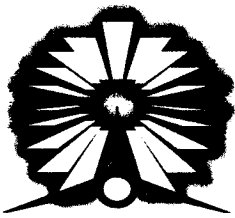
Turning (Lathe)	5	Profiling	1
Milling	8	Drilling	4
Honing	1	Surface Grinding	1

MAJOR CLIENTS

Boeing of Canada	Canadair
Garrett	Canadian Pratt & Whitney
Rolls-Royce Canada	GE (Pittsfield)
McDonnell Douglas Canada (McAir)	Teleflex Morse
Menasco	

EMPLOYEES (1983) 60

SALES (1983) From \$1.5 to \$5.0 million



BELL HELICOPTER TEXTRON LTD.

3100 Côte Vertu
Room 460
St-Laurent, Que.

Contact: Jim Schwalbe, President
Sam McQuerns, Vice-President,
Purchasing

Telephone: (514) 333-7040

PRODUCTS, SERVICES, SPECIALITIES

Manufacturing of the Bell 400 model, a state-of-the-art light-twin helicopter.

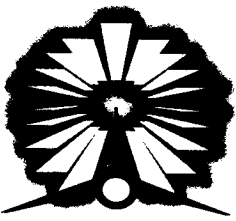
QUALITY STANDARDS

F.A.A.
M.O.T.

MAJOR CLIENTS

Major corporations, governments of the world.

EMPLOYEES/SALES (To be operational in 1985)



CANADAIR LTD.

1800 Laurentian Blvd.
P.O. Box 6087, Station A
St-Laurent, Que.
H3C 3G9

Contact: G.S. Bennett, President
Telephone: (514) 744-1511
Telex: 05-826747

PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of aircraft, airborne surveillance drones, proprietary design and subcontracting.

QUALITY STANDARDS

DND: 1015, 1016, 1017

MIL: 9858A, 45208A

COMMERCIAL: FAA, FAR, PART 21 and equivalent D.O.T. Ing. & Insp.

OTHERS: NATO, AQAP-1

PRECISION MACHINERY

CAD/CAM AND COMPUTER-ASSISTED PROGRAMMING CAPABILITY

IBM 3251 Cadam Work Stations (10)

IBM 3081 G Main Frame

NUMERICAL CONTROL MACHINE TOOLS

Tape-O-Matic Single-Spindle Drill, Model A (2) 2 Axes

Milwaukee-Matic Series EA Machining Centre 3 Axes

Milwaukee-Matic Series EB Machining Centre (2) 3 Axes

Warner & Swasey No. 2AB Single Spindle Bar Auto (3) 3 Axes

Cincinnati Profile & Contour Gantry-Type Mills (6) 5 Axes

Cincinnati CIM-X-220 (2) 2 Axes

Kearney & Trecker Model III Milwaukee-Matic (3) 5 Axes

Warner & Swasey SC-28 Turret Lathe M-4530 2 Axes

Kearney & Trecker 814-3S-3 Spindle Profiler (3) 3 Axes

Devlieg Jigmill SK-144 2 Axes

Cincinnati No. 3 Model D-E (2) 2 Axes

Eaton-Leonard Tube Bending System (2)

Warner & Swasey SC15 Turret Lathe 2 Axes

L&F Sheridan Gray Stretch Forming Machine 3 Axes

Ingersoll CNC 3-Spindle Gantry Type Profiler 3 Axes

Kearney & Trecker MM200 Machining Centre (5) 4 Axes

Gerber NIC Drafting Machine 3 Axes

Sheridan-Gray CNC Roll Forming CR. CNC-4 3 Axes

CONVENTIONAL MACHINE TOOLS

Turning (Lathe)	66	Thread Rolling	1
Milling	69	Thread Grinding	4
Boring	16	Internal Grinding	2
Honing	5	External Grinding	10
Profiling	13	Surface Grinding	17
Drilling	44	Tool Grinding	19

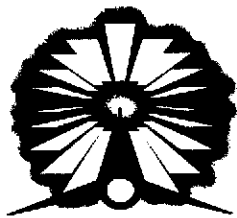
MAJOR CLIENTS

Department of National Defence (Canada)

Governments of the world, major corporations

EMPLOYEES (1983) 4,800

SALES (1983) From \$350 to \$400 million



CANADIAN MARCONI COMPANY

2442 Trenton Ave.
Montreal, Que.
H3P 1Y9

Contact: P.E. Wheatley, President
W. Baillie, Vice-President
and Dir. of Markets

Telephone: (514) 341-7630

Telex: 05-827822

PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of avionic systems, marine and land communication systems, telecommunication systems, injection molded parts. Also is a machine and sheet metal shop. Does printed wiring boards (double side and multilayer), microelectronics (hybrids), power systems, displays.

QUALITY STANDARDS

DND: 1015, 1016, 1017, NATO AQAP-1

MIL: 9858A, 45208A

COMMERCIAL: FAA, FAR 21

PRECISION MACHINERY

ROBOTICS:

GCA DK P-300V Robot with Cimroc Control, drills holes and inserts alignment pins

CAD/CAM AND COMPUTER-ASSISTED PROGRAMMING CAPABILITY

Ditmco-Model 8212 Bare Printed Wiring Board Tester

PC-800 Gerber Digit. HP 1000 Comput. Art Work (4)

Redac Syst. PDP 11Z4 Comput. Art Work Generat. (2)

Gerber Plotters Art Work Generation (2)

NUMERICAL CONTROL MACHINE TOOLS

Edlund-Matic 2NL Machining Centre 2 Axes

K&T Milwaukee-Matic Series EB 3 Axes

Warner & Swasey Wiedematic Punch S-2540

Bridgeport NC Milling Machine 2 Axes

Bridgeport CNC Series 1 (2) 3 Axes

Kearney & Trecker MM 180 3 Axes

OKK-CNC Matic 11 MCV-500 Centre 4 Axes

Mori Seiki SL-4 CNC Lathe 2 Axes

Hardinge CHNC-16 Lathe 2 Axes

CONVENTIONAL MACHINE TOOLS

Turning (Lathe)

Milling

Boring

Honing

Profiling

Drilling

Sheet Metal

Internal Grinding

External Grinding

Surface Grinding

MAJOR CLIENTS

Sperry Vickers

Litton Systems Canada

Nordair

Raytheon Canada

Canadair

Hughes Aircraft Co.

Sikorsky Aircraft Corp.

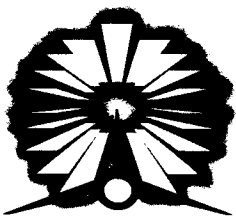
Lockheed

Magnavox

G.E.C.

EMPLOYEES (1983) 2,700

SALES (1983) From \$250 to \$300 million



CASEY COPTER ACCESSORIES LTD.

511 Lepine Street
P.O. Box 121
Montreal, AMF, Dorval, Que.
H4Y 1A5

Contact: A.J. Casey, President
M.J. Casey, Vice-President
Telephone: (514) 636-6155
Telex: 05-821574

PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of aircraft heating and air conditioning systems.

QUALITY STANDARDS

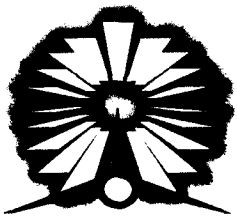
OTHERS: AQAP-1

MAJOR CLIENTS

Department of National Defence (Canada)

EMPLOYEES (1983) 13

SALES (1983) From \$1.0 to \$1.5 million



CIRCO CRAFT CO. INC.

17600 Trans Canada Hwy.
Kirkland, Que.
H9J 3A3

Contact: H. Muhlegg, President
R. Cervini, Vice-President

Telephone: (514) 694-8000

Telex: 05-823523

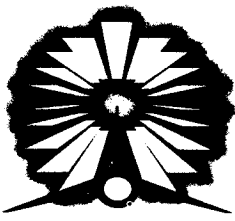
PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of single-sided, double-sided, multilayer boards and printed circuit boards for the electronic industry serving the aerospace industry.

MAJOR CLIENTS

Sperry Vickers
IBM
Canadair
Leigh (Instruments)

EMPLOYEES (1983) 160



HEROUX INC.

755 Thurber Street
Longueuil, Que.
J4H 3N1

Contact: Sarto Richer,
President and Gen. Mgr.
Emile Desnoyer,
Marketing Director

Telephone: (514) 679-5450

Telex: 055-60630

PRODUCTS, SERVICES, SPECIALITIES

Aircraft engineering, design and overhaul of landing gear, actuators, valves, cylinders, general precision machining, metal finishing and electroplating.

QUALITY STANDARDS

DND: 1015, 1016, AQAP-1-2

PRECISION MACHINERY

NUMERICAL CONTROL MACHINE TOOLS

Milwaukee-Matic Series EA Machining Centre 3 Axes

Milwaukee-Matic Series EB Machining Centre 3 Axes

Rambaudi Universal Mill 3 Axes

Leblond Lathe (2) 2 Axes

TUS FQH50A-P4 Machining Centre (2) 3 Axes

VDF Turning Centre PNE 480L 2 Axes

Profile Mill 3 Axes

Dainichi M-95 2 Axes

Milwaukee-Matic Series E Machining Centre 3 Axes

Milwaukee VB-4 Machining Centre CNC 3 Axes

Milwaukee-Matic 180 Machining Centre Horizontal 3 Axes

Warner & Swasey CNC Model 2SC 15 (2) 2 Axes

CONVENTIONAL MACHINE TOOLS

Turning (Lathe)	23	Drilling	16
Milling	20	Internal Grinding	5
Boring	4	External Grinding	10
Honing	10	Surface Grinding	6
Profiling	8	Grinders (Cutter)	14

MAJOR CLIENTS

Canadair

De Havilland Aircraft

McDonnell Douglas Canada (McAir)

Boeing of Canada

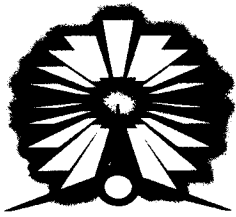
Grumman Aerospace

US Air Force

US Navy

EMPLOYEES (1983) 300

SALES (1983) From \$10 to \$50 million



INNOTECH AVIATION LTD.

455 Michel Jasmin Ave.
International Airport Dorval, Que.
H9P 1C2

Contact: Victor R. Bennett, President
W.R. Price, Vice-President
Telephone: (514) 636-8484
Telex: 05-822879

PRODUCTS, SERVICES, SPECIALITIES

General aviation sales, modifications, maintenance, repair and overhaul of aircraft.
Interior completion, etc.

QUALITY STANDARDS

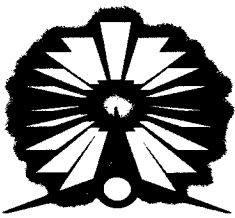
DND: 1015, 1016
COMMERCIAL: DOT 3-60

MAJOR CLIENTS

Major corporate customers

EMPLOYEES (1983) 510

SALES (1983) From \$50 to \$100 million



LUCAS INDUSTRIES CANADA LTD. (AEROSPACE DIV.)

5595 Royalmount Ave.
Town of Mount-Royal, Que.
H4P 1J9

Contact: R.J. Moore, Gen. Mgr.
P.J. Van Roon,
Eng. and Tech. Sales Mgr.

Telephone: (514) 735-1536

Telex: 055-61115

PRODUCTS, SERVICES, SPECIALITIES

Design and manufacture gas turbine fuel pumps and controls, hydraulic controls, actuators and overhaul service for engine fuel pumps and accessories, DC starters, starter generators, DC and AC generators and regulators, air valves, LP air starters, alternators, ignition units, relays and industrial engine accessories.

QUALITY STANDARDS

DND: 1015

MIL: 9858A

COMMERCIAL: D.O.T. (FAA Rep. in Canada)

PRECISION MACHINERY

CAD/CAM AND COMPUTER-ASSISTED PROGRAMMING CAPABILITY

Fanuc 61 Control

NUMERICAL CONTROL MACHINE TOOLS

Monarch VMC-75 Machining Centre 4 Axes

Nakamura Tome Model TMC-3B (Lathe) 2 Axes

Edlund 2 NL 15 Spindle

CONVENTIONAL MACHINE TOOLS

Turning (Lathe)	13	External Grinding	8
Milling	6	Surface Grinding	2
Honing	3	Lapping	4
Drilling	7		

MAJOR CLIENTS

Canadian Pratt & Whitney

Boeing of Canada

McDonnell Douglas Canada (McAir)

Avco-Lycoming

GE (Pittsfield)

Lockheed

Canadair

De Havilland Aircraft

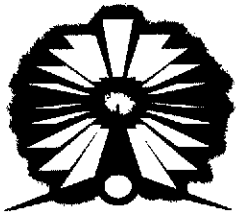
Rolls-Royce Canada

Department of National Defence (Canada)

US Military

EMPLOYEES (1983) 104

SALES (1983) From \$5.0 to \$10.0 million



NOORDUYN NORSEMAN INC.

P.O. Box 5, Station O
6200 Henri-Bourassa Blvd. W.
St-Laurent, Que.
H4R 1C3

Contact: Austin Latremouille, President
Earle Latremouille,
Vice-President & Gen. Mgr.
Telephone: (514) 334-3210

PRODUCTS, SERVICES, SPECIALITIES

Aircraft sheet metal work, cables, repair and overhaul work. Specialize in galleys, galley equipment, cargo handling equipments.

QUALITY STANDARDS

DND: 1016
OTHERS: D.O.T.

PRECISION MACHINERY

CONVENTIONAL MACHINE TOOLS

Turning (Lathe).....	5	Drilling	3
Milling	3	Sheet Metal	19
Honing	1	Surface Grinding	5

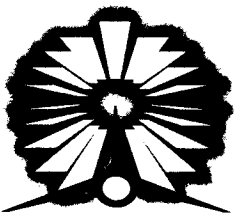
MAJOR CLIENTS

Canadair
Air Canada
Air Jamaica

Eastern Provincial Airways
Quebecair

EMPLOYEES (1983) 35

SALES (1983) From \$0.5 to \$1.0 million



PLASTAL INC.

476 Edouard Street
Granby, Que.
J2G 3Z3

Contact: Mike E. Artus, President
Telephone: (514) 866-3223
Telex: 05-832579

PRODUCTS, SERVICES, SPECIALITIES

Design and manufacturing of composite parts, thermo-formed plastic for aircraft parts, plastic anti-corrosion equipment, sky domes, tanks, piping and tooling, aircraft windows, canopies and other transparencies.

QUALITY STANDARDS

DND: 1016
MIL: NATO AQAP-4
COMMERCIAL: CGSB
OTHERS: D.O.T. QC Manual for specific products

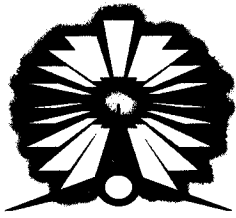
MAJOR CLIENTS

Canadair
Canadian Pratt & Whitney
CAE

McDonnell Douglas Canada (McAir)
De Havilland Aircraft
Innotech

EMPLOYEES (1983) 25

SALES (1983) From \$1.0 to \$1.5 million



PRATT & WHITNEY CANADA INC.

1000 Marie-Victorin Blvd. E.
P.O. Box 10
Longueuil, Que.
J4K 4X9

Contact: Elvie L. Smith, Chairman & Chief
Executive Officer
L. David Caplan, President &
Chief Operating Officer

Telephone: (514) 677-9411

Telex: 05-267509

PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of aerospace and industrial gas turbine engines and parts for aircraft and helicopters.

PRECISION MACHINERY

CAD/CAM COMPUTER-ASSISTED PROGRAMMING CAPABILITY

IBM Cadam Computer Graphics System
IBM Catia Computer Graphics System
MDSI Compact II N.C. Processors

NUMERICAL CONTROL MACHINE TOOLS

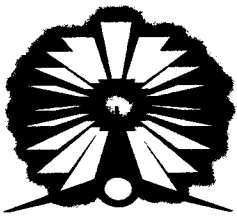
Devlieg 'Jigmill' 3H48 (2) 2 Axes	Maho MHC-900-K/P Milling & Boring Machine 3 Axes
Devlieg 'Jigmill' 4K60 2 Axes	Maho MH-800-P Milling & Boring Machine 3 Axes
Sundstrand OM2 Omnimill (9) 4 Axes	Maho MH1000C 3 Axes
Sundstrand OM1 Omnimill (4) 5 Axes	Sciaky Tig Welder 4 Axes
Sundstrand VLO9 Vertical Lathe 2 Axes	Bosto-Matic Machining Centre 5 Axes
Pratt & Whitney Tape-O-Matic C (3) 2 Axes	Sundstrand OM1 Omnimill 4 Axes
Pratt & Whitney Tape-O-Matic B 2 Axes	Leybolo-Heraeus E.3.Welder 2 Axes
Brown & Sharpe Model A Turr-E-Tape 2 Axes	
Onsrud AF 36 Profile Mill 3 Axes	
Max Mueller MDW10 Lathe (3) 2 Axes	
V.D.F. V-800 Turning Machine (3) 2 Axes	
V.D.F. V-800 Turret Lathe (5) 2 Axes	
V.D.F. PNE-480 Turret Lathe (6) 2 Axes	
V.D.F. PNE-710F Turret Lathe (7)	
V.D.F. DN570 Lathe 2 Axes	
Leblond Tape Regal Lathe 2 Axes	
Leblond 12/12 Lathe (9) 2 Axes	
Leblond Tape Turn IV Lathe (2) 2 Axes	
Leblond 12/12 Mark II Lathes (7) 2 Axes	
Strippet Fabriccenter 40/30 Punch Press	
Kearney & Trecker Milwaukee Matic 180 (2) 3 Axes	
HS4 Huffman Cutter Grinder 8 Axes	
Blohm Grinder (2) 2 Axes	
Cincinnati Milacron 10VC-1250 VMC 3 Axes	
Brown & Sharpe VC 1000 4 Axes	
Brown & Sharpe 1500 VC 3 Axes	
Warner & Swasey 2SC/15 Chucker 2 Axes	
VDF 480 Turret Lathe (3) 2 Axes	
VDF DN820 CNC Lathe	
Weldon Model APG 1632 Profile Grinder	
SIP 8000-65 CNC 3 Axes	

MAJOR CLIENTS

World aerospace market

EMPLOYEES (1983) 6,500

SALES (1983) From \$500 to \$550 million



ROLLS-ROYCE (CANADA) LTD.

9500 Cote de Liesse
Lachine, Que.
H4Y 1B7

P.O. Box 1000
Montreal AMF
Montreal, Que.

Contact: H.R. Beattie,
President & Gen. Mgr.
R. Clappinson,
Director Sales & Services

Telephone: (514) 631-3541

Telex: 05-821882

PRODUCTS, SERVICES, SPECIALITIES

Manufacturer of light-weight industrial gas-turbines and overhaul and repair and spares support of aero engines. Also repairs engine parts and manufactures precision machined components.

QUALITY STANDARDS

DND: 1015, 1016, 1017, 1019

MIL: 9858A, 45208A, C 45662

COMMERCIAL: D.O.T. No. 1/58

OTHERS: U.K.-CAA Certificate LAA A1/2423/47

PRECISION MACHINERY

CAD/CAM AND COMPUTER-ASSISTED PROGRAMMING CAPABILITY

IBM (Lockheed System)

IBM 4381 Computer

NUMERICAL CONTROL MACHINE TOOLS

Cincinnati Drill (5) 2 Axes

Webster & Bennett 72 ERNC Vertical Boring Mill

Devlieg 3H72 2 Axes

Devlieg 43J40 Horizontal Boring Machine 2 Axes

Sundstrand OM2A Omnimill (2) 4 Axes

SMT-Pullmax Swedturn 20 Lathe 2 Axes

Sundstrand Series 80 Omnimill (2) 5 Axes

Devlieg 43J60 Horizontal Boring Machine 4 Axes

CONVENTIONAL MACHINE TOOLS

Turning (Lathe)	11	Sheet Metal	1
Milling	3	Internal Grinding	1
Boring	1	External Grinding	1
Honing	1	Surface Grinding	1
Profiling	1	Electro Discharge	1
Drilling	2		

MAJOR CLIENTS

Department of National Defence
(Canada)

Air Canada

De Havilland Aircraft

Nordair

Quebecair

Gulfstream Aerospace

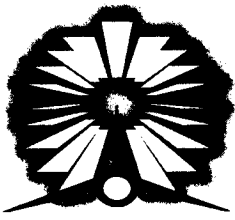
IBM

Avco-Lycoming

Governments of the world

EMPLOYEES (1983) 850

SALES (1983) From \$50 to \$100 million



SPAR AEROSPACE LTD. (SATELLITE & AEROSPACE SYSTEMS DIV.)

21025 Trans Canada Hwy.
Ste-Anne de Bellevue, Que.
H9X 3R2

Contact: R.D. Pollock, President
J.R. McCullough,
Vice-President & Gen. Mgr.

Telephone: (514) 457-2150

Telex: 05-822792

PRODUCTS, SERVICES, SPECIALITIES

Development, design, manufacturing and assembly, integration and test of communications satellites and satellite communications sub-systems, units and components. Design and manufacturing of earth station antenna feed systems.

QUALITY STANDARDS

DND: 1015, 1016, 1017, AQAP-1, DMD 1019

MIL: 45208A, D9858

COMMERCIAL: NASA NHB 5300.4 (1B)

PRECISION MACHINERY

ROBOTICS

Automatic Network Analyser-2 18GHZ HP.8542-B

Automatic Network Analyser-2 18GHZ HP.8408-S

Automatic Network Analyser-05.1.3GHZ HP.8507-S

Automatic Spectrum Analyser-0.01-40GHZ HP.8580-B

Automatic Antenna Analyser-2 18GHZ SA 2080 (2)

Automatic Antenna Analyser-2 18GHZ SA 2020

Multi Purpose Automatic & Test System for Transponders Receivers & Amplifiers Spar Configuration (3)

Coordinate Measuring System Mitutoyo B 231

CAD/CAM AND COMPUTER-ASSISTED PROGRAMMING CAPABILITY

Data General Mini Computer

IBM-PC's (15)

HP 9920

NUMERICAL CONTROL MACHINE TOOLS

Cincinnati Cim-X Series 20 3 Axes

Moog 83-1000MC 2 Axes

Elox E Wire Feed EDM 2 Axes

Kearney & Trecker MM 180 Machining Centre 4 Axes

Jig Bore SIP 2 Axes

CONVENTIONAL MACHINE TOOLS

Turning (Lathe)	2	Sheet Metal	2
Milling	6	Tool Grinder	3

MAJOR CLIENTS

Hughes Aircraft Co.

TRW

RCA-Astro

Embratel

Selenia Spazio

Laben

Telesat Canada

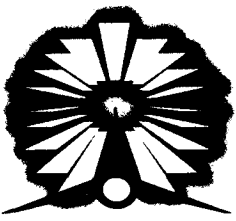
Department of National Defence (Canada)

European Space Agency (ESTEC)

British Aerospace

EMPLOYEES (1983) 489

SALES (1983) From \$50 to \$100 million



ULTRAVIA AERO LTD.

609 Iberville Street
Repentigny, Que.
J6A 6Y7

Contact: Jean-Rene Lepage, President
Lorraine Chauvin, Vice-President
Telephone: (514) 585-6132

PRODUCTS, SERVICES, SPECIALITIES

Manufactures ultra-light airplanes (Pelican, single-seater and two-seater ultralight or light airplanes) including homebuilt or experimental, A.T.L. or A.R.V.

QUALITY STANDARDS

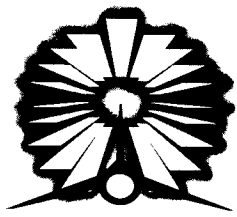
OTHERS: Certified by British CAA.

MAJOR CLIENTS

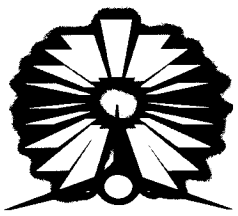
Ebemere

EMPLOYEES (1983) 15

SALES (1983) Under \$0.5 million



NOTES



NOTES

**QUEBEC
AEROSPACE
1985**

- VOLUME 1 COMPANIES, PRODUCTS AND SERVICES
- VOLUME 2 SYSTEMS AND SUBSYSTEMS
- VOLUME 3 PRECISION MACHINING AND FINISHING
- VOLUME 4 PRECISION INVESTMENT CASTINGS
- VOLUME 5 SPECIALTY PRODUCTS AND REPAIR
AND OVERHAUL SERVICES