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no. 75-86  
to 78-86



# IMPORT PROFILE

## Investment Opportunities

MOULDS, DIES, FIXTURES AND JIGS

Pub. Nos: 75-86 to 78-86 December 1986



Government  
of Canada

Regional Industrial  
Expansion

Gouvernement  
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MOULDS, DIES, FIXTURES AND JIGS

Pub. Nos: 75-86 to 78-86 December 1986

Including:

Foundry Moulds and Dies	75-86
Fixtures and Jigs	76-86
Dies for Metalworking Machinery	77-86
Moulds and Dies for Plastics Industry Machinery	78-86

**FOR MORE INFORMATION PLEASE CONTACT:**

Market Information and Analysis Division  
Market Development Branch  
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Ottawa, Ontario  
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Tel: (613) 954-4970

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Secondary and Service Industries Division  
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Department of Regional Industrial Expansion  
235 Queen Street  
Ottawa, Ontario  
K1A 0H5  
Tel: (613) 954-3244

OR

The nearest DRIE Regional Office.  
These offices are listed on the last  
page of this publication.

**REFERENCE SOURCES**

Department of Regional Industrial Expansion  
Statistics Canada  
Revenue Canada  
Supply and Services Canada

**EXPLANATORY NOTES**

**Valuation**

Imports are generally recorded at the values established for customs duty purposes according to the provisions of the Customs Act. Customs values are identical to selling prices for most transactions between non-affiliated companies, but customs values exceed selling prices for many transactions between affiliated companies. All values are reported in Canadian dollars and do not include duty.

**Average Growth Rate**

Growth rates are calculated on the basis of annual compounding.

**Rounding**

Figures may not add due to rounding.

SUMMARY TABLE OF CONTENTS

<u>PUBLICATION NUMBER</u>	<u>IMPORT PRODUCT GROUP</u>	<u>PAGE</u>
75-86	PART A - FOUNDRY MOULDS AND DIES	9
76-86	PART B - FIXTURES AND JIGS	21
77-86	PART C - DIES FOR METALWORKING MACHINERY	37
78-86	PART D - MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY	61

	<u>PAGE</u>
INTRODUCTION AND SCOPE	6
MARKET SUMMARY	7
<u>PART A: FOUNDRY MOULDS AND DIES (75-86)</u>	
- SCOPE	11
- IMPORT TRENDS: OVERVIEW	12
- IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT	13
- VALUE OF IMPORTS BY PROVINCE OF CLEARANCE (1985)	14
- IMPORT TRENDS BY TYPE	15
- IMPORT MARKET CONCENTRATION	16
- TYPE AND LOCATION OF TOP IMPORTERS	16
- APPENDIX A - CANADIAN TARIFFS	17
- APPENDIX B - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE (1985)	18
- APPENDIX C - LIST OF CANADIAN IMPORTERS	19
<u>PART B: FIXTURES AND JIGS (76-86)</u>	
- SCOPE	23
- IMPORT TRENDS: OVERVIEW	24
- IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT	25
- VALUE OF IMPORTS BY PROVINCE OF CLEARANCE (1985)	26
- IMPORT TRENDS BY TYPE	27
- IMPORT MARKET CONCENTRATION	29
- TYPE AND LOCATION OF TOP IMPORTERS	29
- APPENDIX A - CANADIAN TARIFFS	30
- APPENDIX B - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE (1985)	32
- APPENDIX C - LIST OF CANADIAN IMPORTERS	33

DETAILED TABLE OF CONTENTS (CONTINUED)

PAGE

PART C: DIES FOR METALWORKING MACHINERY (77-86)

- SCOPE	39
- IMPORT TRENDS: OVERVIEW	40
- IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT	41
- VALUE OF IMPORTS BY PROVINCE OF CLEARANCE (1985)	42
- IMPORT TRENDS BY TYPE	43
- IMPORT MARKET CONCENTRATION	46
- TYPE AND LOCATION OF TOP IMPORTERS	46
- APPENDIX A - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT: PARTS OF METALWORKING DIES NOT ELSEWHERE SPECIFIED	47
- APPENDIX B - CANADIAN TARIFFS	48
- APPENDIX C - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE (1985)	49
- APPENDIX D - LIST OF CANADIAN IMPORTERS	50

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY (78-86)

- SCOPE	63
- IMPORT TRENDS: OVERVIEW	64
- IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT	65
- VALUE OF IMPORTS BY PROVINCE OF CLEARANCE (1985)	66
- IMPORT TRENDS BY TYPE	67
- IMPORT MARKET CONCENTRATION	69
- TYPE AND LOCATION OF TOP IMPORTERS	69
- APPENDIX A - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT: PARTS OF INJECTION MOULDING MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY	70
- APPENDIX B - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT: PLASTIC INJECTION MOULDING MOULDS AND DIES, NOT ELSEWHERE SPECIFIED	71
- APPENDIX C - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT: PARTS OF MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY	72
- APPENDIX D - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY, NOT ELSEWHERE SPECIFIED	73
- APPENDIX E - CANADIAN TARIFFS	74
- APPENDIX F - IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE (1985)	75
- APPENDIX G - LIST OF CANADIAN IMPORTERS	76

DRIE REGIONAL OFFICES	80
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CANADIAN MARKET OPPORTUNITIES - IMPORT PROFILE

MOULDS, DIES, FIXTURES AND JIGS

INTRODUCTION AND SCOPE

This report is one of a continuing series designed to increase business awareness of the potential existing for domestic production and to stimulate Canadian business to further explore potential opportunities in both the Canadian and export markets. It is important to emphasize that this report does not attempt any assessment as to the feasibility of manufacturing or competing in a particular market and should be treated as an indicator or starting point for the manufacturer or entrepreneur.

The report comprises the following four sections:

<u>PUBLICATION NUMBER</u>	<u>IMPORT PRODUCT GROUP</u>
75-86	PART A - FOUNDRY MOULDS AND DIES
76-86	PART B - FIXTURES AND JIGS
77-86	PART C - DIES FOR METALWORKING MACHINERY
78-86	PART D - MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

MARKET SUMMARY

The machine tools and tooling sector encompasses two distinct sub-sectors, the machines themselves known as "machine tools", and the tooling which goes on the machines. The tooling is comprised of moulds, dies, fixtures, and jigs. Although the profile has four distinct sections, this market summary deals, in the aggregate, with foundry moulds and dies, fixtures and jigs, dies for metalworking machinery, and moulds and dies for plastics industry machinery.

In 1985, the apparent Canadian market\* for moulds, dies, and jigs was estimated at \$669 million. Imports\* supplied approximately 25 per cent of the market. This market, which is mature, is influenced by the growth trend of the North American automotive industry. In addition, future growth of the mould, die, fixture, and jig industry will be affected positively by the trend to replace formed metal parts with parts made of plastics and composite materials.

During the 10-year period ended in 1985, the Canadian industry experienced significant growth. Its annual shipments\* increased from about \$250 million in the mid-seventies to approximately \$767 million in 1985. During the period, its exports\* grew from 10 per cent of shipments to 35 per cent in 1985. Domestic shipments were primarily to the automotive industry, and, to a lesser extent, to the aerospace, defence, and related industries. Canadian exports were principally to the United States automotive industry.

The Canadian mould, die, and jig industry comprises about 425 firms, which employ approximately 5 600 people. Most of the firms are small and Canadian-owned. A number of companies use computer numerical control (C.N.C.) machine tools to manufacture custom-made products. The industry competes effectively in the North American market. It is concentrated in Southern Ontario.

The industry employs highly skilled craftsmen capable of operating modern machines to manufacture products with relatively small tolerances. These skills are acquired only after long apprenticeships and many years of experience. Canadians with the required skills are in short supply.

In summary, the Canadian import market presents opportunities for new Canadian production. In addition, excellent opportunities exist for an increase of Canadian exports to foreign markets, especially to the U.S.

\* The statistical information on shipments, exports, and imports does not include data on moulds, dies and jigs produced by manufacturers for their own use, or foundry moulds and dies.

This report was prepared by:

the Market Development Branch  
in collaboration with the  
Secondary and Service Industries Division,  
Machinery and Electrical Equipment Branch;  
and the  
Machinery Division,  
Ontario Regional Office

DEPARTMENT OF REGIONAL INDUSTRIAL EXPANSION





PART A

FOUNDRY MOULDS AND DIES (75-86)



PART A: FOUNDRY MOULDS AND DIES (75-86)

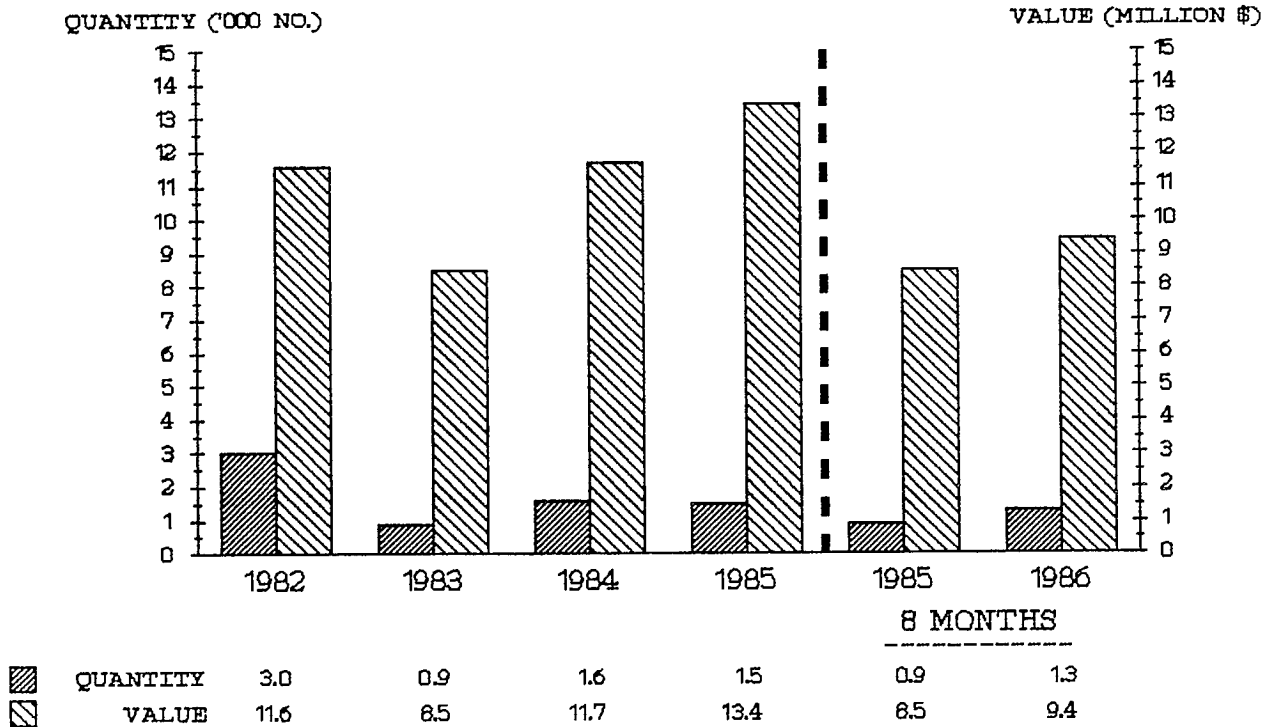
SCOPE

This section of the report analyses imports of products classified to the following five commodity codes of the Canadian International Trade Classification (C.I.T.C.). All tables in this section aggregate data for the five classes of products, unless otherwise specified.

<u>CODE</u>	<u>DESCRIPTION</u>
509 69 61	MOULDS, METAL DIE CASTING TYPE, FOUNDRY
509 69 63	MOULDS, CYLINDRICAL TYPE, CENTRIFUGAL CASTING, FOUNDRY
509 69 64	MOULDS, SINTERING OF METALLIC POWDERS, FOUNDRY
509 69 65	DIES, METAL DIE CASTING TYPE, FOUNDRY
509 69 69	MOULDS AND DIES FOR METAL CASTING, FOUNDRY, NOT ELSEWHERE SPECIFIED

PART A: FOUNDRY MOULDS AND DIES

IMPORT TRENDS: OVERVIEW



Between 1982 and 1985, the value of imports of foundry moulds and dies grew significantly. The value of imports decreased from \$11.6 million in 1982 to \$8.5 million in 1983. However, it increased to \$11.7 million in 1984, and to \$13.4 million in 1985.

Due to the lack of homogeneity of the products, a conclusion cannot be derived from the trend in the volume of imports of foundry moulds and dies for the four-year period.

During the first eight months of 1986, the value of imports increased by 11 per cent, when compared to the corresponding period of 1985. For that period of 1986, imports totalled \$9.4 million.

PART A: FOUNDRY MOULDS AND DIES

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

Foreign Country of Export	1982	1983	1984	1985	Unit Price 1985 \$	Average	Per cent Change 1984-1985 %	8 Month Imports Jan. to Aug.	
						Annual Growth Rate 1982-1985 %		1985	1986
<b>UNITED STATES</b>									
Quantity (No.)	2 679	772	1 293	1 177		-24	-9	774	1 030
Value (\$000)	10 380	7 755	9 985	11 965	10 166	5	20	7 721	6 943
<b>FEDERAL REPUBLIC OF GERMANY</b>									
Quantity (No.)	243	18	152	147		-15	-3	88	121
Value (\$000)	309	37	352	772	5 252	36	119	513	839
<b>JAPAN</b>									
Quantity (No.)	4	0	8	4		0	-50	0	16
Value (\$000)	270	0	454	280	70 000	1	-38	0	368
<b>ITALY</b>									
Quantity (No.)	3	24	81	21		91	-74	14	54
Value (\$000)	51	417	156	99	4 714	25	-37	83	127
<b>SPAIN</b>									
Quantity (No.)	14	3	10	0		N/A	-100	0	10
Value (\$000)	362	206	631	0	N/A	N/A	-10	0	935
<b>OTHER</b>									
Quantity (No.)	46	113	58	125		40	116	58	45
Value (\$000)	217	96	126	264	2 112	7	110	180	168
<hr/>									
<b>TOTAL</b>									
Quantity (No.)	2 989	930	1 602	1 474		-21	-8	934	1 276
Value (\$000)	11 589	8 511	11 704	13 380		5	14	8 497	9 380
Unit Price (\$)	3 877	9 152	7 306	9 077					

N/A - Not applicable

Between 1982 and 1985, the United States was the leading exporter to Canada of foundry moulds and dies. Throughout the period, it had at least 85 per cent of the value of Canadian imports. In 1985, its exports amounted to \$12.0 million. The Federal Republic of Germany was a distant second exporter to Canada with only six per cent of these imports.

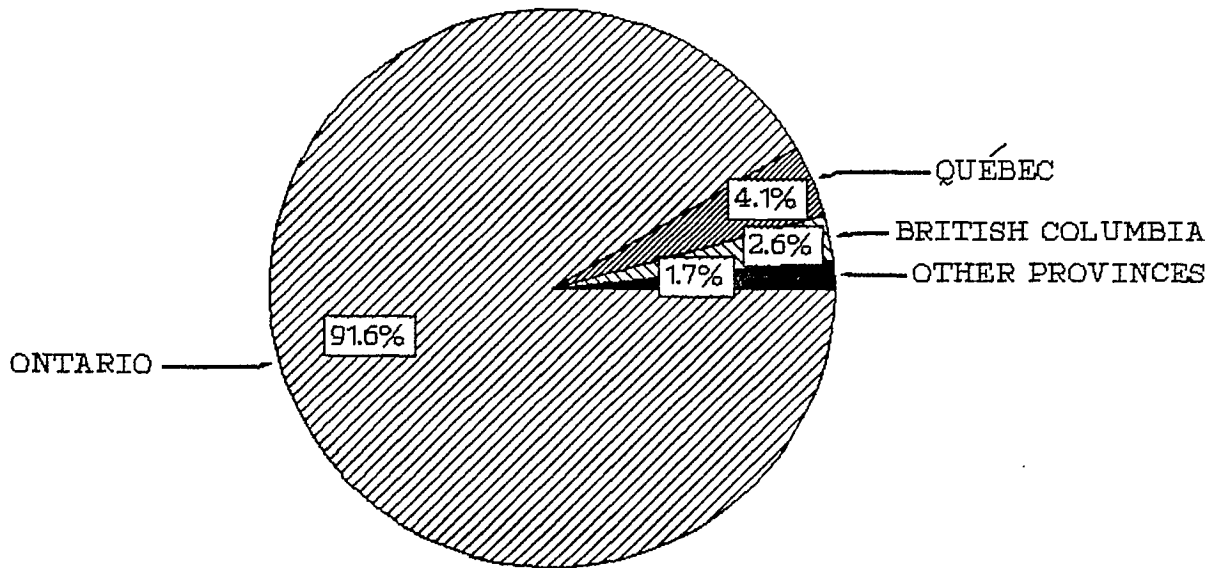
During the first eight months of 1986, the bulk of imports originated in the U.S.A., and most of the remainder came from Spain and the Federal Republic of Germany.

During the four-year period, the average unit price for foundry moulds and dies fluctuated significantly. The wide fluctuation was due in large part to the heterogeneity of the products in this group.

PART A: FOUNDRY MOULDS AND DIES

VALUE OF IMPORTS BY PROVINCE OF CLEARANCE

1985



In 1985, most of the imports of foundry moulds and dies entered Canada through Ontario. This province accounted for \$12.3 million, or 91.6 per cent of the value of imports. Imports cleared through Québec and British Columbia represented another 4.1 per cent and 2.6 per cent, respectively, of Canadian imports. The remaining imports entered Canada through the other provinces.

NOTE: For more detailed data on imports by major foreign countries of export and provinces of clearance, see Appendix B, page 18.

PART A: FOUNDRY MOULDS AND DIES

IMPORT TRENDS BY TYPE

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate 1982-1985 %	Major Country of Export		8 Month Imports	
							1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
509 69 61	Moulds, Metal, Die Casting Type, Foundry						United States			
	Quantity (No.)	984	365	559	508	-20			310	381
	Value (\$000)	6 423	4 252	3 880	6 036	-2	5 612	93	3 949	3 531
509 69 63	Moulds, Cylindrical Type, Centrifugal Casting, Foundry						United States			
	Quantity (No.)	233	42	67	78	-31			69	70
	Value (\$000)	1 536	204	136	249	-45	159	64	211	330
509 69 64	Moulds, Sintering of Metallic Powders, Foundry									
	Quantity (No.)	0	0	0	0	N/A			0	0
	Value (\$000)	0	0	0	0	N/A			0	0
509 69 65	Dies, Metal Die Casting Type, Foundry						United States			
	Quantity (No.)	51	89	193	120	33			73	247
	Value (\$000)	1 394	2 659	4 731	4 534	48	4 177	92	2 624	3 140
509 69 69	Moulds and Dies for Metal Casting, Foundry, Not Elsewhere Specified						United States			
	Quantity (No.)	1 721	434	783	768	-24			482	578
	Value (\$000)	2 235	1 396	2 957	2 561	5	2 017	79	1 713	2 379
TOTAL							United States			
	Quantity (No.)	2 989	930	1 602	1 474	-21			934	1 276
	Value (\$000)	11 589	8 511	11 704	13 380	5	11 965	89	8 497	9 380

N/A - Not Applicable

Between 1982 and 1985, the most important product category was metal die casting moulds (C.I.T.C. 509 69 61). In 1985, imports of these products represented 45 per cent, or \$6.0 million, of the value of imports of foundry moulds and dies. The next category, which was metal die casting dies (C.I.T.C. 509 69 65), accounted for 34 per cent of the imports.

During the four-year period, the United States was the major exporter to Canada in each category of imports of foundry moulds and dies. In 1985, it had at least 64 per cent of the value of Canadian imports of products in each category.



PART A: FOUNDRY MOULDS AND DIES

IMPORT MARKET CONCENTRATION  
(BY % OF TOTAL 1985 VALUE)

<u>Top 5</u> <u>Importers</u>	<u>Top 10</u> <u>Importers</u>	<u>Top 15</u> <u>Importers</u>	<u>Top 20</u> <u>Importers</u>
56	67	73	78

In 1985, the 10 major importers of foundry moulds and dies accounted for \$9.0 million, or 67 per cent, of imports. Nine of these importers were manufacturers. Nine of the top 10 importers were located in Ontario.

NOTE: "Top importers" are the known importers with the largest importers of value in 1985.

TYPE AND LOCATION OF THE TOP 20 KNOWN IMPORTERS - 1985  
(78% OF TOTAL IMPORT VALUE)

	<u>MANUFACTURERS</u>		<u>OTHER (1)</u>		<u>TOTAL</u>	
	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>
Ontario	15		3	766	18	
Québec	1	9 637*	-	-	1	10 403*
Western Provinces	1		-	-	1	
Atlantic Provinces	-	-	-	-	-	-
<b>TOTAL</b>	<b>17</b>	<b>9 637</b>	<b>3</b>	<b>766</b>	<b>20</b>	<b>10 403</b>
Per cent of 1985 total value		72 %		6 %		78 %

(1) Includes wholesalers

\* Ontario, Québec and Western Provinces aggregated to preserve confidentiality.

In 1985, there were at least 129 importers of foundry moulds and dies. The top 20 importers accounted for \$10.4 million, or 78 per cent of the value of imports. Seventeen of these 20 importers were manufacturers, which totalled \$9.6 million, or 72 per cent, of imports. Five of these manufacturers were primary metal producers. Another four companies were engaged in the manufacture of transportation equipment.

PART A: FOUNDRY MOULDS AND DIES

CANADIAN TARIFFS, 1985

Tariff Item	Description	% of Total Import Value (1985)	TARIFF TREATMENT				
			British Preferential Tariff %	Most Favoured Nation Tariff %	General Tariff %	General Preferential Tariff %	U.K. and Ireland %
42700-01	Machines, n.o.p. and accessories, attachments, control equipment and tools for use therewith; parts of the foregoing	52	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2
42700-04	Control equipment and tools for use with the goods enumerated in tariff item 42700-07, not included in the original complement of the parent machines when initially imported, including collets, tracing attachments, milling heads and single tool boring heads, live centers, machine spindles, dies, jigs, fixtures, moulds and tooling	33	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2

N.o.p. - Not otherwise provided for

Tariff Arrangements and Foreign Countries of Export:

COUNTRIES WHICH BENEFIT FROM THE MOST FAVOURED NATION TARIFF TREATMENT: UNITED STATES, FEDERAL REPUBLIC OF GERMANY, JAPAN, ITALY, SPAIN

ENQUIRIES CONCERNING TARIFFS SHOULD BE DIRECTED TO THE NEAREST CUSTOMS AND EXCISE OFFICE OR TO:

TARIFF PROGRAMS  
 REVENUE CANADA  
 CUSTOMS AND EXCISE  
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 TEL: (613) 995-2989

PART A: FOUNDRY MOULDS AND DIES

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE

1985

<u>FOREIGN COUNTRY OF EXPORT</u>	<u>CANADA</u>	<u>NFLD</u>	<u>P.E.I.</u>	<u>N.S.</u>	<u>N.B.</u>	<u>QUÉ</u>	<u>ONT</u>	<u>MAN</u>	<u>SASK</u>	<u>ALTA</u>	<u>B.C.</u>
<b>UNITED STATES</b>											
Quantity (No.)	1 177	0	0	1	14	59	1 065	12	6	7	13
Value (\$000)	11 965	0	0	1	45	369	11 368	39	71	20	52
<b>FEDERAL REPUBLIC OF GERMANY</b>											
Quantity (No.)	147	0	0	0	0	21	84	20	0	22	0
Value (\$000)	772	0	0	0	0	45	667	30	0	30	0
<b>JAPAN</b>											
Quantity (No.)	4	0	0	0	0	0	0	0	0	0	4
Value (\$000)	280	0	0	0	0	0	0	0	0	0	280
<b>ITALY</b>											
Quantity (No.)	21	0	0	0	0	11	10	0	0	0	0
Value (\$000)	99	0	0	0	0	22	77	0	0	0	0
<b>OTHER</b>											
Quantity (No.)	125	0	0	0	0	15	106	0	0	0	4
Value (\$000)	264	0	0	0	0	111	142	0	0	0	12
<b>TOTAL</b>											
Quantity (No.)	1 474	0	0	1	14	106	1 265	32	6	29	21
Value (\$000)	13 380	0	0	1	45	547	12 254	69	71	50	344

PART A: FOUNDRY MOULDS AND DIES

CANADIAN IMPORTERS

Importers of foundry moulds and dies during 1985, as indicated in this report, are listed below in alphabetical order. This list includes all importers except individuals and a minimal number of importers whose names were not available. The numbers in brackets following the names of the importers indicate the specific types of products imported: (1) metal die casting moulds; (2) cylindrical, centrifugal casting moulds; (3) metal die casting dies; and (4) metal casting moulds and dies, not elsewhere specified.

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Accurcast Die Casting Limited (1)(2)(3)(4)	Wallaceburg, Ont.	Courtney Iron & Brass Foundry Co. Ltd.(4)	Saint John, N.B.
Actif de Supreca Inc.(1)(4)	Montréal, Qué.	Davidson Rubber Co. Limited(4)	Port Hope, Ont.
Aluminum Company of Canada Ltd.(4)	Montréal, Qué.	De Havilland Aircraft of Canada Ltd.(1)	Downsview, Ont.
Amerace Ltd.(1)	Markham, Ont.	Dofasco Inc.(1)(4)	Hamilton, Ont.
American Hoist of Canada Ltd.(4)	Brampton, Ont.	Dominion Automotive Industries Inc.(4)	Toronto, Ont.
American Standard, Div. of Wabco Standard Ltd.(2)	Toronto, Ont.	Dynacast, Div. of J P Coats (Canada) Inc.(3)(4)	Lachine, Qué.
Amerock Inc.(4)	Meaford, Ont.	EI-Met-Parts Division Toromont Industries Ltd.(3)	Dundas, Ont.
Anthes Equipment Ltd.(4)	Mississauga, Ont.	Eldorado Nuclear Ltd.(4)	Port Hope, Ont.
Apex Metals Kitchener Ltd.(3)	Kitchener, Ont.	Electrolux Canada, Div. of Sara Lee Ltd. of Canada(4)	Montréal, Qué.
B C Instruments Inc.(4)	Schamberg, Ont.	Elkem Metal Canada Inc.(1)	Beauharnois, Qué.
Banite Inc.(4)	Buffalo, NY, USA*	Essex International Canada Ltd.(4)	St-Thomas, Ont.
Baron Rubber Ltd.(4)	St-Jérôme, Qué.	Exide Canada Corp.(4)	Mississauga, Ont.
Batronics Inc.(4)	Maple, Ont.	Fahramet Limited(4)	Orillia, Ont.
Beckers Lay-Tech Inc.(1)	Kitchener, Ont.	Federated Genco Ltd.(2)	Burlington, Ont.
Bendix Heavy Vehicle Systems Limited(4)	London, Ont.	Fleet Industries, Div. of Ronyx Corporation Limited(1)(4)	Fort Erie, Ont.
Bibby Foundry Ltd.(1)(2)(4)	Galt, Ont.	Ford Motor Company of Canada Ltd (1)	Oakville, Ont.
Burlington Die Castings Co. Ltd(4)	Burlington, Ont.	General Motors of Canada Ltd.(1)(4)	Oshawa, Ont.
C & D Batteries of Canada Ltd.(4)	Montréal, Qué.	General Tire Canada Ltd.(1)(4)	Welland, Ont.
CAE Montupet Die Cast Ltd.(3)	St-Catharines, Ont.	Gladwin Machinery of Canada Limited(1)	Ayr, Ont.
CAE Webster Ltd.(4)	London, Ont.	Grenville Castings Ltd.(1)	Merrickville, Ont.
Can-Am Containers Limited(1)	Springhill, N.S.	H E Vannatter Limited(3)(4)	Wallaceburg, Ont.
Canadian Autoparts Toyota Inc.(3)	Delta, B.C.	Haley Industries Ltd.(1)	Haley, Ont.
Canadian Ferro Hot Metal Specialties Limited(4)	Stoney Creek, Ont.	Hanson Inc.(4)	Toronto, Ont.
Canadian Klockner Ltd.(1)	Willowdale, Ont.	I B M Canada Ltd.(4)	Markham, Ont.
Canron Inc.(2)	Rexdale, Ont.	ITT Canada Limited(1)	Guelph, Ont.
Center Tool & Mold Company Ltd.(1)	Windsor, Ont.	Imperial Clevite Canada Inc.(3)	Toronto, Ont.
Cercast Incorporé(4)	Montréal, Qué.		
Cercor Inc.(4)	Georgetown, Ont.		
Chrysler Canada Limited(1)(4)	Windsor, Ont.		
Columbia Plastics Ltd.(1)	Vancouver, B.C.		

PART A: FOUNDRY MOULDS AND DIES

CANADIAN IMPORTERS (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Inventronics Limited(3)	Moose Jaw, Sask.	Skega Canada Limited(1)	North Bay, Ont.
Johnson Matthey Limited(4)	Toronto, Ont.	Skil Canada Ltd., Div. of Emerson Electric Canada Ltd.(4)	Markham, Ont.
Karhu Titan Canada Ltée(4)	Cowansville, Qué.	Société Canadienne Métaux Reynolds(4)	Baie Comeau, Qué.
Kenner Products (Canada) Ltd.(1)	Toronto, Ont.	Spar Aerospace Products Ltd.(4)	Toronto, Ont.
Lamko Tool & Mold Inc.(1)	London, Ont.	Sparrow Electric Co. Ltd.(1)	Nisku, Alta.
Lawton Die Cast Canada Ltd.(3)	Strathroy, Ont.	Speedex Mfg., Div. of Magna Int'l (Canada) Inc.(1)	Concord, Ont.
Lear Siegler Industries Ltd.(3)	Kitchener, Ont.	St-Clair Tool & Die Ltd.(1)(4)	Wallaceburg, Ont.
Lecuyer & Fils Ltée(4)	St-Rémi, Qué.	Standard Industries Ltd.(1)(4)	Toronto, Ont.
Les Fonderies Shellcast Inc.(1)	Montréal, Qué.	Standard Tube Canada Limited(3)	Woodstock, Ont.
Les Industries de Métaux Noranda Ltée(4)	Montréal, Qué.	Stanton Pipes Holdings Ltd.(1) (2)(4)	Hamilton, Ont.
Lido Industrial Products Ltd.(1)	Mississauga, Ont.	Star Slipper Company Ltd.(1)	Toronto, Ont.
Linkdor Jewellery Mfg. Limited(4)	Toronto, Ont.	Stelco Inc.(2)(4)	Hamilton, Ont.
Manitoba Rolling Mills, Div. of Dominion Bridge Ltd. (4)	Selkirk, Man.	Supreme Casting & Tooling Ltd.(4)	Rexdale, Ont.
Maple Leaf Plastics Ltd.(4)	Scarborough, Ont.	Technathane Inc.(4)	Brampton, Ont.
Master Machine & Duplicating (Windsor) Inc.(3)(4)	Oldcastle, Ont.	Technical Industries Ltd.(1)	Brantford, Ont.
Matériaux Électrique Commander Inc.(1)	St-Jean-sur- Richelieu, Qué.	Teleglobe Canada(2)	Montréal, Qué.
Milrod Metal, Div. of ITT Industries of Canada Ltd.(4)	Mississauga, Ont.	The Canadian Coleman Company Ltd.(2)	Etobicoke, Ont.
Morval-Durofoam Ltd.(4)	Kitchener, Ont.	The Nash Engineering Co. (1)	Norwalk, CT, USA*
Motor Wheel Corporation of Canada Limited(3)	Chatham, Ont.	Titan Foundry Ltd.(1)(2)	Surrey, B.C.
Noranda Metal Industries Ltd.(4)	Fergus, Ont.	Triangle Die & Tool Company Ltd.(4)	St-Catharines, Ont.
Northern Telecom Canada Limited(4)	Islington, Ont.	Turbon Plastics Inc.(4)	Port Dover, Ont.
Norton Christensen Canada Ltd.(4)	Edmonton, Alta.	Tycos Tool & Die, Div. of Magna International Inc.(1)(4)	Concord, Ont.
Ontario Research Foundation(1)	Mississauga, Ont.	Unicor Industries Inc.(1)	Montréal, Qué.
Patco Sales Ltd.(4)	Vancouver, B.C.	Varta Batteries Ltd.(4)	Willowdale, Ont.
Patrick Plastics Inc.(4)	Weston, Ont.	Victaulic Company of Canada Ltd.(1)(4)	Toronto, Ont.
Press-Shop Automation & Equipment Ltd.(4)	Cambridge, Ont.	Vittforge Canada Inc.(1)(2)(4)	St-Hyacinthe, Qué.
Prestolite Electronics, Div. of Allied Canada Inc.(1)(3)(4)	Toledo, OH, USA*	Volkswagen Canada Inc.(1)	Scarborough, Ont.
Pyroil Canada Limited(1)	Mississauga, Ont.	W R Grace & Co. of Canada Ltd., Cryovac Div.(1)	Cooksville, Ont.
Quincaillerie Almet Ltée(4)	St-Léonard, Qué.	Weber Tool & Mold, Div. of Weber Mfg. Ltd.(1)	Midland, Ont.
Redlaw Industries Inc.(3)	Orillia, Ont.	Westinghouse Canada Limited(3)	Hamilton, Ont.
Samuel Bingham Co. (Canada)(4)	Toronto, Ont.	Windsor Match Plate Ltd.(4)	Windsor, Ont.
Scepter Manufacturing Company Limited(1)(4)	Don Mills, Ont.	Wolverine Division UOP Ltd.(1)	London, Ont.
		Zollner Canada Limited(4) c/o Zollner Corporation	Fort Wayne, IN, USA*

\*Non-resident importer

PART B

FIXTURES AND JIGS (76-86)



PART B: FIXTURES AND JIGS (76-86)

SCOPE

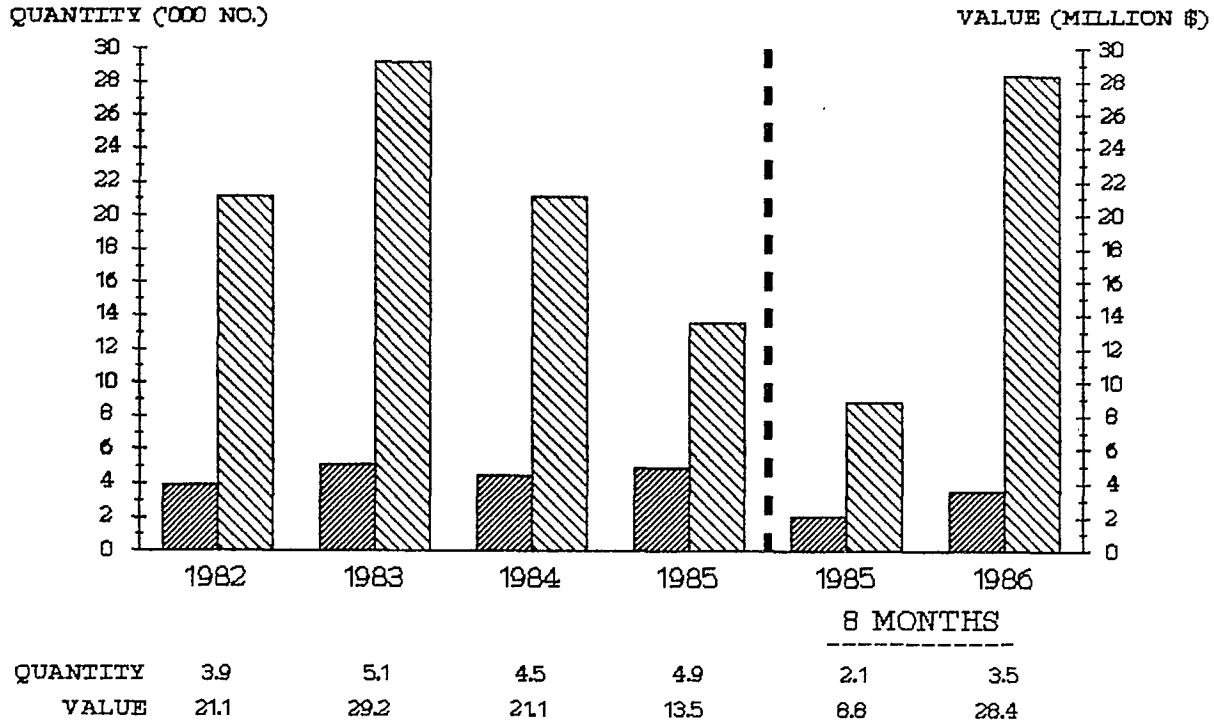
This section of the report analyses imports of products classified to the following 11 commodity codes of the Canadian International Trade Classification (C.I.T.C.). All tables in this section aggregate data for the eleven classes of products, unless otherwise indicated.

<u>CODE</u>	<u>DESCRIPTION</u>
523 77 19	FIXTURES, METALWORKING, WELDING TYPE, NOT ELSEWHERE SPECIFIED
523 77 23	FIXTURES, METALWORKING, TURNING TYPE
523 77 24	FIXTURES, METALWORKING, BORING TYPE
523 77 25	FIXTURES, METALWORKING, INSPECTION, EXCLUDING AUTOMOTIVE BODY ASSEMBLY
523 77 26	FIXTURES, METALWORKING, ASSEMBLY TYPE, EXCLUDING AUTOMOTIVE BODY ASSEMBLY
523 77 27	FIXTURES, ALL TYPES, FOR AUTOMOTIVE BODY ASSEMBLY LINES
523 77 29	FIXTURES, METALWORKING, NOT ELSEWHERE SPECIFIED
523 77 41	JIGS, METALWORKING, DRILLING TYPE, EXCLUDING AUTOMOTIVE BODY ASSEMBLY
523 77 42	JIGS, METALWORKING, WELDING TYPE, EXCLUDING AUTOMOTIVE BODY ASSEMBLY
523 77 43	JIGS, ALL TYPES, FOR AUTOMOTIVE BODY ASSEMBLY LINES
523 77 49	JIGS, METALWORKING, NOT ELSEWHERE SPECIFIED



PART B: FIXTURES AND JIGS

IMPORT TRENDS: OVERVIEW



Between 1982 and 1985, the value of imports of fixtures and jigs decreased considerably. The value of imports increased from \$21.1 million in 1982 to \$29.2 million in 1983. However, it declined to \$21.1 million in 1984, and to \$13.5 million in 1985.

Due to the lack of homogeneity of the products, a conclusion cannot be derived from the trend in the volume of imports of fixtures and jigs for the four-year period.

During the first eight months of 1986, the value of imports of fixtures and jigs increased by 223 per cent, when compared to the corresponding period of 1985. For the first eight months of 1986, imports amounted to \$28.4 million.

PART B: FIXTURES AND JIGS

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

Foreign Country of Export	1982	1983	1984	1985	Unit Price 1985 \$	Average	Per cent Change 1984-1985 %	8 Month Imports Jan. to Aug.	
						Annual Growth Rate 1982-1985 %		1985	1986
<b>UNITED STATES</b>									
Quantity (No.)	3 819	4 924	4 362	4 694		7	8	2 046	3 374
Value (\$000)	21 038	27 292	19 948	12 701	2 706	-15	-36	8 579	27 412
<b>JAPAN</b>									
Quantity (No.)	36	6	7	17		-22	143	8	23
Value (\$000)	33	7	16	406	23 882	131	2 438	9	744
<b>UNITED KINGDOM</b>									
Quantity (No.)	2	5	14	81		243	479	24	2
Value (\$000)	2	250	16	214	2 642	375	1 238	52	25
<b>MEXICO</b>									
Quantity (No.)	17	2	20	51		44	155	51	0
Value (\$000)	17	100	727	144	2 824	104	-80	144	0
<b>FEDERAL REPUBLIC OF GERMANY</b>									
Quantity (No.)	5	103	33	10		26	-70	6	32
Value (\$000)	7	1 502	373	37	3 700	74	-90	12	97
<b>OTHER</b>									
Quantity (No.)	27	46	33	5		-43	-85	4	23
Value (\$000)	41	39	61	8	1 600	-42	-87	5	140
<b>TOTAL</b>									
Quantity (No.)	3 906	5 086	4 469	4 858		8	9	2 139	3 454
Value (\$000)	21 138	29 190	21 141	13 510		-14	-36	8 801	28 418
Unit Price (\$)	5 412	5 739	4 731	2 781					

Between 1982 and 1985, the United States dominated Canadian imports of fixtures and jigs. It supplied at least 93 per cent of the import market for those products. In 1985, it exported \$12.7 million worth of fixtures and jigs. Japan was a distant second exporter to Canada with approximately three per cent of the value of Canadian imports.

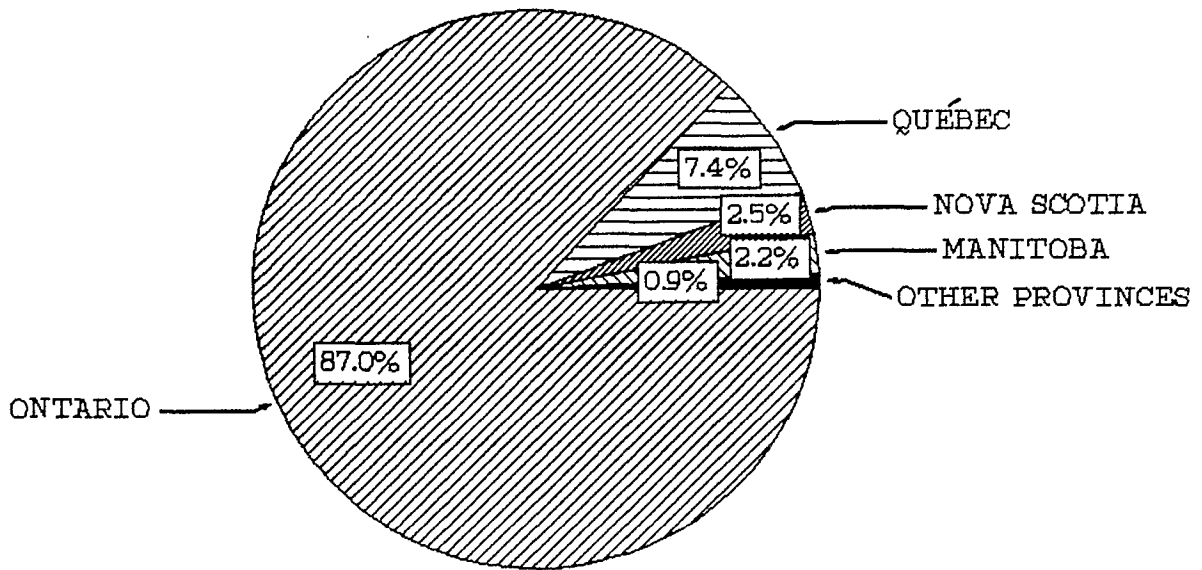
During the first eight months of 1986, most of the imports of fixtures and jigs came from the U.S.A. The balance of imports originated principally in Japan.

During the four-year period, the average unit price for fixtures and jigs decreased considerably. However, due to the heterogeneity of the products, a conclusion cannot be derived from the trend in the average unit price.

PART B: FIXTURES AND JIGS

VALUE OF IMPORTS BY PROVINCE OF CLEARANCE

1985



In 1985, Ontario and Québec were the major provinces of entry into Canada of imports of fixtures and jigs. They represented \$11.8 million and \$1.0 million, or 87.0 per cent and 7.4 per cent, respectively, of Canadian imports. Imports cleared through Nova Scotia and Manitoba collectively accounted for another 4.7 per cent of imports. The remaining imports entered Canada through the other provinces.

NOTE: For more detailed data on imports by major foreign countries of export and provinces of clearance, see Appendix B, page 32.

PART B: FIXTURES AND JIGS

IMPORT TRENDS BY TYPE

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate	Major Country of Export		8 Month Imports	
						1982-1985 %	1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
523 77 19	Fixtures, Metalworking, Welding Type, Not Elsewhere Specified							United States		
	Quantity (No.)	129	336	167	142	3			138	41
	Value (\$000)	399	1 458	122	188	-22	188	100	184	931
523 77 23	Fixtures, Metalworking, Turning Type							United States		
	Quantity (No.)	1	11	6	5	71			2	0
	Value (\$000)	4	204	10	9	31	9	100	4	0
523 77 24	Fixtures, Metalworking, Boring Type							United States		
	Quantity (No.)	6	5	21	2	-31			2	1
	Value (\$000)	5	8	216	5	0	5	100	5	7
523 77 25	Fixtures, Metalworking, Inspection, Excluding Automotive Body Assembly							United States		
	Quantity (No.)	119	281	159	157	10			79	118
	Value (\$000)	894	1 200	1 070	916	1	853	93	524	1 878
523 77 26	Fixtures, Metalworking, Assembly Type, Excluding Automotive Body Assembly							United States		
	Quantity (No.)	40	231	934	1 809	256			32	19
	Value (\$000)	744	2 569	2 395	1 531	27	1 139	74	250	33
523 77 27	Fixtures, All Types, for Automotive Body Assembly Lines							United States		
	Quantity (No.)	2 271	3 472	1 570	1 442	-14			1 133	2 400
	Value (\$000)	15 449	21 370	10 074	7 793	-20	7 647	98	5 818	22 474
523 77 29	Fixtures, Metalworking, Not Elsewhere Specified							United States		
	Quantity (No.)	448	378	672	967	29			564	601
	Value (\$000)	2 100	1 569	2 952	2 406	5	2 399	100	1 641	1 820
523 77 41	Jigs, Metalworking, Drilling Type, Excluding Automotive Body Assembly							United States		
	Quantity (No.)	106	41	690	200	24			104	133
	Value (\$000)	920	65	3 350	411	-24	247	60	218	169

PART B: FIXTURES AND JIGS

IMPORT TRENDS BY TYPE (Continued)

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate 1982-1985 %	Major Country of Export		8 Month Imports Jan. to Aug.	
							1985 Value (\$000)	Per Cent of Total %	1985	1986
523 77 42	Jigs, Metalworking, Welding Type, Excluding Automotive Body Assembly						United States			
	Quantity (No.)	63	9	70	4	-60			1	12
	Value (\$000)	59	13	47	5	-57	5	100	1	12
523 77 43	Jigs, All Types, for Automotive Body Assembly Lines						United States			
	Quantity (No.)	111	188	6	16	-48			14	22
	Value (\$000)	77	442	24	41	-19	36	88	24	738
523 77 49	Jigs, Metalworking, Not Elsewhere Specified						United States			
	Quantity (No.)	612	134	174	114	-43			70	107
	Value (\$000)	487	292	881	205	-25	173	84	132	356
TOTAL							United States			
	Quantity (No.)	3 906	5 086	4 469	4 858	8			2 139	3 454
	Value (\$000)	21 138	29 190	21 141	13 510	-14	12 701	94	8 801	28 418

Between 1982 and 1985, the largest product category was fixtures for automotive body assembly lines (C.I.T.C. 523 77 27). In 1985, imports of these products amounted to \$7.8 million, or 58 per cent of the value of imports of fixtures and jigs.

During the four-year period, the United States was the leading exporter to Canada in each category of imports. In 1985, it supplied at least 60 per cent of the Canadian imports of products in each category.

PART B: FIXTURES AND JIGS

IMPORT MARKET CONCENTRATION  
(BY % OF TOTAL 1985 VALUE)

<u>Top 5</u> <u>Importers</u>	<u>Top 10</u> <u>Importers</u>	<u>Top 15</u> <u>Importers</u>
40	54	64

In 1985, the 10 major importers accounted for \$ 7.3 million, or 54 per cent, of the imports of fixtures and jigs. All of them were manufacturers. Nine of the companies were located in Ontario.

NOTE: "Top importers" are the known importers with the largest imports by value in 1985.

TYPE AND LOCATION OF THE TOP 21 KNOWN IMPORTERS - 1985  
(73% OF TOTAL IMPORT VALUE)

	<u>MANUFACTURERS</u>	<u>OTHER(1)</u>	<u>TOTAL</u>	
	<u>No. of</u> <u>Importers</u>	<u>No. of</u> <u>Importers</u>	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>
Ontario	16	1	17	8 657
Québec	2	-	2	
Atlantic Provinces	1	-	1	1 217*
Western Provinces	-	1	1	
<hr/>				
TOTAL	19	2	21	9 874

Per cent of 1985 total value 73%

\* Québec, Atlantic Provinces and Western Provinces aggregated to preserve confidentiality.

(1) Includes one wholesaler and one unidentified importer.

In 1985, there were at least 191 importers of fixtures and jigs. The top 21 importers accounted for \$9.9 million, or 73 per cent, of the imports. Nineteen of these 21 importers were manufacturers. Nine of the 19 manufacturers, which were engaged in the production of transportation equipment, imported \$6 million worth of fixtures and jigs. Another four companies, which were engaged in the manufacture of rubber and miscellaneous plastic products, had imports of \$1 million.

PART B: FIXTURES AND JIGS

CANADIAN TARIFFS, 1985

Tariff Item	Description	% of Total Import Value (1985)	TARIFF TREATMENT				
			British Prefer- ential Tariff	Most Favoured Nation Tariff	General Tariff	General Prefer- ential Tariff	U.K. and Ireland
			%	%	%	%	%
44603-01	Manufactures, articles or wares, of iron or steel or of which iron or steel or both are the component materials of chief value, n.o.p.	34	10.1	12.1	35	8.0	10.2
	January 1, 1986		10.0	11.1	35	7.0	10.2
	January 1, 1987		10.0	10.2	35	6.5	10.2
42700-01	Machines, n.o.p., and accessories, attachments, control equipment and tools for use therewith; parts of the foregoing	30	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2
43125-01	Toolmakers', machinists' or metalworkers' precision tools and measuring instruments, namely: bevels, buttons, calipers, clamps (including key seat clamps and rule clamps), dividers, gauges (including thickness gauges in roll form), micrometers, parallels, plumb bobs (mercury), protractors, punches (automatic centre), scribes, speed indicators (hand), squares; straight edges, trammels, verniers, vises. Toolmakers', machinists' or metalworkers' precision tools and measuring instruments, n.o.p.; parts of all the foregoing	11	Free	7.0	20	Free	6.3
	January 1, 1986		Free	6.6	20	Free	6.3
	January 1, 1987		Free	6.3	20	Free	6.3

PART B: FIXTURES AND JIGS

CANADIAN TARIFFS, 1985 (Continued)

Tariff Item	Description	% of Total Import Value (1985)	TARIFF TREATMENT				
			British Prefer- ential Tariff %	Most Favoured Nation Tariff %	General Tariff %	General Prefer- ential Tariff %	U.K. and Ireland %
44063-01	Goods, other than seat covers of textile fabric and goods entitled to entry under tariff items 42700-01, 42701-01, 44049-01, 44053-01, 44057-01, 44059-01, 44060-01 and 44062-01, for the manufacture or repair of aircraft, aircraft engines and parts thereof	6	Free	Free	30	Free	Free

N.o.p. - Not otherwise provided for

Tariff Arrangements and Foreign Countries of Export:

COUNTRIES WHICH BENEFIT FROM THE MOST FAVOURED NATION TARIFF TREATMENT: UNITED STATES, JAPAN, FEDERAL REPUBLIC OF GERMANY

COUNTRY WHICH BENEFITS FROM THE MOST FAVOURED NATION TARIFF TREATMENT OR GENERAL SYSTEM OF PREFERENCE\*: MEXICO

COUNTRY WHICH BENEFITS FROM THE MOST FAVOURED NATION TARIFF TREATMENT OR U.K. AND IRELAND: UNITED KINGDOM

\*NOTE: In order to qualify for the General System of Preference, a special certificate of origin is required.

ENQUIRIES CONCERNING TARIFFS SHOULD BE DIRECTED TO THE NEAREST CUSTOMS AND EXCISE OFFICE OR TO:

TARIFF PROGRAMS  
REVENUE CANADA  
CUSTOMS AND EXCISE  
OTTAWA, ONTARIO  
K1A 0L5  
TEL: (613) 995-2989



PART B: FIXTURES AND JIGS

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE

1985

<u>FOREIGN COUNTRY OF EXPORT</u>	<u>CANADA</u>	<u>NFLD</u>	<u>P.E.I.</u>	<u>N.S.</u>	<u>N.B.</u>	<u>QUÉ</u>	<u>ONT</u>	<u>MAN</u>	<u>SASK</u>	<u>ALTA</u>	<u>B.C.</u>
<b>UNITED STATES</b>											
Quantity (No.)	4 694	0	0	1 835	0	96	2 699	33	9	5	17
Value (\$000)	12 701	0	0	345	0	915	11 026	301	35	11	63
<b>JAPAN</b>											
Quantity (No.)	17	0	0	0	0	0	17	0	0	0	0
Value (\$000)	406	0	0	0	0	0	406	0	0	0	0
<b>UNITED KINGDOM</b>											
Quantity (No.)	81	0	0	0	0	18	62	0	0	0	1
Value (\$000)	214	0	0	0	0	39	174	0	0	0	1
<b>MEXICO</b>											
Quantity (No.)	51	0	0	0	0	0	51	0	0	0	0
Value (\$000)	144	0	0	0	0	0	144	0	0	0	0
<b>FEDERAL REPUBLIC OF GERMANY</b>											
Quantity (No.)	10	0	0	0	0	9	1	0	0	0	0
Value (\$000)	37	0	0	0	0	35	2	0	0	0	0
<b>OTHER</b>											
Quantity (No.)	5	0	0	0	0	5	0	0	0	0	0
Value (\$000)	8	0	0	0	0	8	0	0	0	0	0
<b>TOTAL</b>											
Quantity (No.)	4 858	0	0	1 835	0	128	2 830	33	9	5	18
Value (\$000)	13 510	0	0	345	0	998	11 752	301	35	11	64

PART B: FIXTURES AND JIGS

CANADIAN IMPORTERS

Importers of fixtures and jigs during 1985, as indicated in this report, are listed below in alphabetical order. This list includes all importers except individuals and a minimal number of importers whose names were not available.

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
A G Simpson Company Ltd.	Scarborough, Ont.	Cope & Gurr Machinery Company Ltd.	Windsor, Ont.
Acklands Limited	Winnipeg, Man.	Crothers Ltd.	Concord, Ont.
Actif de Supreca Inc.	Montréal, Qué.	Davidson Rubber Co. Limited	Port Hope, Ont.
Alexander Tools Limited	Brantford, Ont.	Daymond, Division of Redpath Industries	Clarkson, Ont.
Allen-Bradley Canada Ltd.	Cambridge-Galt, Ont.	De Havilland Aircraft of Can. Ltd.	Downsview, Ont.
Alliance Ro-Na Home Inc.	Boucherville, Qué.	Deco Automotive Industries Ltd.	Weston, Ont.
Aradco Management Ltd.	Windsor, Ont.	Department of National Defence	Ottawa, Ont.
Armstrong World Industries Canada Ltd.	Montréal, Ont.	DiffRACTO Ltd.	Windsor, Ont.
Automatic Metal Stamping Company Inc.	Concord, Ont.	Dow Chemical Canada Inc.	Sarnia, Ont.
Automotive Sunroof-Customcraft (ADC) Inc.	Mississauga, Ont.	Dura-Chrome Ltd.	Wallaceburg, Ont.
Autotube Limited	Strathroy, Ont.	Eagle Precision Tool Ltd.	Brantford, Ont.
B-A Construction Ltd.	Regina, Sask.	Eaton Yale Ltd.	Chatham, Ont.
Bell Helicopter Ltée	St-Laurent, Qué.	Ebco Industries Ltd.	Richmond, B.C.
Bendix Heavy Vehicle Systems Limited	London, Ont.	Edgewind Sales and Manufacturing Ltd.	Windsor, Ont.
Boeing of Canada Ltd.	Winnipeg, Man.	Egar Tool & Die Ltd.	Cambridge, Ont.
Boeing of Canada Ltd. Arnprior Division	Arnprior, Ont.	Emrick Plastics Ltd.	Toronto, Ont.
Brazeway Canada Inc.	Tillsonburg, Ont.	Enheat Inc.	Sackville, N.B.
Bristol Aerospace Ltd.	Winnipeg, Man.	Euclid Canada Limited	Guelph, Ont.
Budd Canada Inc.	Kitchener, Ont.	Excel Metalcraft Ltd.	Aurora, Ont.
C-Tech Ltd.	Cornwall, Ont.	Fabricated Steel Products, Division of Indal Limited	Windsor, Ont.
CAE Montupet Die Cast Ltd.	St-Catharines, Ont.	Falcon Tool & Die (1979) Limited	Windsor, Ont.
CAE Webster Ltd.	London, Ont.	Ford Motor Company of Canada Ltd.	Oakville, Ont.
Canadair Ltd.	St-Laurent, Qué.	Franklin Electric of Canada Ltd.	Strathroy, Ont.
Canadian A S E Ltd.	Downsview, Ont.	General Motors of Canada Ltd.	Oshawa, Ont.
Cando - Machine and Tool Ltd.	Thamesford, Ont.	Gir Del Hydraulic Services Ltd.	Edmonton, Alta.
Canrep Inc.	New Glasgow, N.S.	Glenn S Woolley & Company Ltd.	Toronto, Ont.
Central Stampings Limited	Windsor, Ont.	Guelph Tool & Die Ltd.	Guelph, Ont.
Cercast Incorporé	Montréal, Qué.	Hamilton Porcelains Ltd.	Brantford, Ont.
Cercor Inc.	Georgetown, Ont.	Harjohn Industries Op. by Lightolier Canada Inc.	St-Catharines, Ont.
Chandelier Fashion Inc.	Montréal, Qué.	Hasbro Industries (Canada) Ltd.	Longueuil, Qué.
Chrysler Canada Limited	Windsor, Ont.	Hawker Siddeley Canada Ltd.	Toronto, Ont.
Coleco (Canada) Ltée	Montréal, Qué.	Hayes-Dana Inc.	St-Thomas, Ont.
Composite Technology (Canada) Ltd.	Winnipeg, Man.	Herman Miller Canada Inc.	Mississauga, Ont.
Construction Products Inc.	Georgetown, Ont.		
Control Data Canada Ltd.	Mississauga, Ont.		
Cooper Energy Services Ltd.	Stratford, Ont.		

PART B: FIXTURES AND JIGS

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Herro Machinery Limited	Oakville, Ont.	Noxzema Inc.	Toronto, Ont.
Hull-Thomson Ltd.	Windsor, Ont.	Ontario Bus Industries Inc.	Mississauga, Ont.
Humphrey Products of Winnipeg Ltd.	Winnipeg, Man.	Outboard Marine Corporation of Canada Ltd.	Peterborough, Ont.
Huron Steel Products (Windsor) Ltd.	Windsor, Ont.	Paragon Tools Co. Op. by North American Plastics Co. Ltd.	Windsor, Ont.
Hy-Prod, Div. of Magna International Inc.	Downsview, Ont.	Parker-Hannifin (Canada) Ltd.	Grimsby, Ont.
Hydro Electric Power Commission	Milverton, Ont.	Pebra Inc.	Kitchener, Ont.
I B M Canada Ltd.	Markham, Ont.	Peerless Cascade Plastics Ltd.	Windsor, Ont.
International Harvester Canada Limited	Hamilton, Ont.	Plastic C M P Ltd.	Bowmanville, Ont.
Jaloy Mfg. Co. Canada Inc.	Windsor, Ont.	Pratt and Whitney Canada Inc.	Longueuil, Qué.
Jax Mold & Machine Limited	Simcoe, Ont.	Presstran Industries, Div. of 559300 Ontario Inc.	St-Thomas, Ont.
Jay Vee Water Bed Heaters Ltd.	Niagara Falls, Ont.	Pro-More Industries Ltd.	Drinkwater, Sask.
Koppers Engineered Products Limited	Baltimore, MD, USA*	Progressive Anodizers Ltd.	Scarborough, Ont.
L O F Glass of Canada Ltd.	Collingwood, Ont.	Promac Industries Ltd.	Duncan, B.C.
L V Lomas Chemical Company Limited	Mississauga, Ont.	Pulsar Plastics Ltd.	London, Ont.
Lamko Tool & Mold Inc.	London, Ont.	R D C Electronics Inc.	Mount Royal, Qué.
Lear Siegler Industries Ltd., General Seating Division	Kitchener, Ont.	Raymond Industrial Equipment Limited	Brantford, Ont.
Les Fonderies Shellcast Inc.	Montréal, Qué.	Raytheon Canada Ltd.	Waterloo, Ont.
Lighting Unlimited, Op. by Sotheby Holdings Limited	Vancouver, B.C.	Record Marples Inc.	Lachine, Qué.
Linamar Machine Ltd.	Guelph, Ont.	Reflex, Division of I T L Industries Ltd.	Windsor, Ont.
M & R Industrial Services Ltd.	London, Ont.	Rollstamp Manufacturing Limited	Richmond Hill, Ont.
Magna International Inc.	Markham, Ont.	S Litton Systems (Canada) Ltd.	Rexdale, Ont.
Mallory Components Limited, Div. of Emhart Canada Limited	Woodstock, Ont.	SKD Technologies Inc.	Amherstburg, Ont.
Master Precision Tool & Die Co. Limited	Scarborough, Ont.	Salga Associates Ltd. & Co.	Rexdale, Ont.
McDonnell Douglas Canada Ltd.	Toronto, Ont.	Sandvik Canada Inc.	Mississauga, Ont.
McKerlie-Millen (Ontario), Div. of McKerlie-Millen Inc.	London, Ont.	Schlumberger Canada Limited	Mississauga, Ont.
Merit Manufacturing Limited	Windsor, Ont.	Sheller-Globe of Canada Ltd.	Windsor, Ont.
Multi Fittings Ltd.	London, Ont.	Silcofab, Division of Robco Inc.	Guelph, Ont.
Multi-Trim Inc.	Markham, Ont.	Sowa Tool & Machine Co. Ltd.	Kitchener, Ont.
National Auto Radiator Manufacturing Company Ltd.	Windsor, Ont.	Speedex Mfg., Division of Magna Int'l. (Canada) Inc.	Concord, Ont.
National Hardware Specialties (1982) Limited	Dresden, Ont.	Speedstamp Manufacturing Ltd.	Richmond Hill, Ont.
Nickleson Tool and Die Company Limited	Windsor, Ont.	Sperry Inc.	Rockland, Ont.
Noma Industries Ltd.	Scarborough, Ont.	Standard Products (Canada) Ltd.	Stratford, Ont.
Normark Mfg. Div. of Magna Internat Inc.	Concord, Ont.	Standard Tube Canada Limited	Woodstock, Ont.
		Superior Performance Products	Newmarket, Ont.
		Susan Shoe Industries Ltd.	Hamilton, Ont.
		Techform Products Limited	Penetanguishene, Ont.
		The Complax Corporation	Cobourg, Ont.
		The Prestolite Electronics Division of Allied Canada Inc.	Toledo, OH, USA*

PART B: FIXTURES AND JIGS

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>
The Valiant Machine & Tool Inc.	Windsor, Ont.
The Woodbridge Foam Corporation	Rexdale, Ont.
Thunder Tool & Mfg. Ltd.	Weston, Ont.
Tickins Industrial Products Ltd.	Toronto, Ont.
Titan Tool & Die Ltd.	Windsor, Ont.
Tool & Industrial Supply Co., Div. of Forward Prec. Tools Ltd.	Downsview, Ont.
Tooling Systems Ltd.	London, Ont.
Tools Division of I T L Industries Ltd.	Windsor, Ont.
Toro Canada Ltd.	Steinbach, Man.
Trico Products Corporation	Buffalo, NY, USA*
Trim Trends Canada Ltd.	Dundalk, Ont.
Tutco Heaters of Canada Limited	Cookeville, TN, USA*
Tycos Tool & Die, Division of Magna International Inc.	Concord, Ont.
Unimatic, Division of Magna International (Canada) Inc.	Weston, Ont.
Unit Rig & Equipment Co.	Natal, B.C.
Valenite Modco Ltd.	Windsor, Ont.
Van Oresser Ltd.	Waterloo, Ont.
Venture Industries Canada Ltd.	Wallaceburg, Ont.
Vestshell Inc.	Montréal, Qué.
Wabco Haulpac, Oivision of Oresser Canada Inc.	Paris, Ont.
Walbar of Canada Inc.	Mississauga, Ont.
Walker Exhaust, Oiv. of Tenneco Canada Inc.	Cambridge, Ont.
Waterville Cellular Products Ltd.	Waterville, Qué.
West Heights Mfg., Oiv. of Oevtec Corporation	Kitchener, Ont.
Westinghouse Canada Limited	Hamilton, Ont.
Westmet Stampings Ltd.	Oownsvievw, Ont.
Windsor Bumper Co., Oiv. of Gulf & Western (Canada) Ltd.	Windsor, Ont.
Windsor Match Plate Ltd.	Windsor, Ont.
Windsor Mold Inc.	Windsor, Ont.
Windsor Plastic Prod. Ltd.	Windsor, Ont.
Wirco Products Ltd.	London, Ont.
Wire Rope Industries of Canada Ltd.	Pointe-Claire, Qué.

\*Non-resident importer



PART C

DIES FOR METALWORKING MACHINERY (77-86)



PART C: DIES FOR METALWORKING MACHINERY (77-86)

SCOPE

This section of the report analyses imports of products classified to the following 19 commodity codes of the Canadian International Trade Classification (C.I.T.C.). All tables in this section aggregate data for the 19 classes of products, unless otherwise indicated.

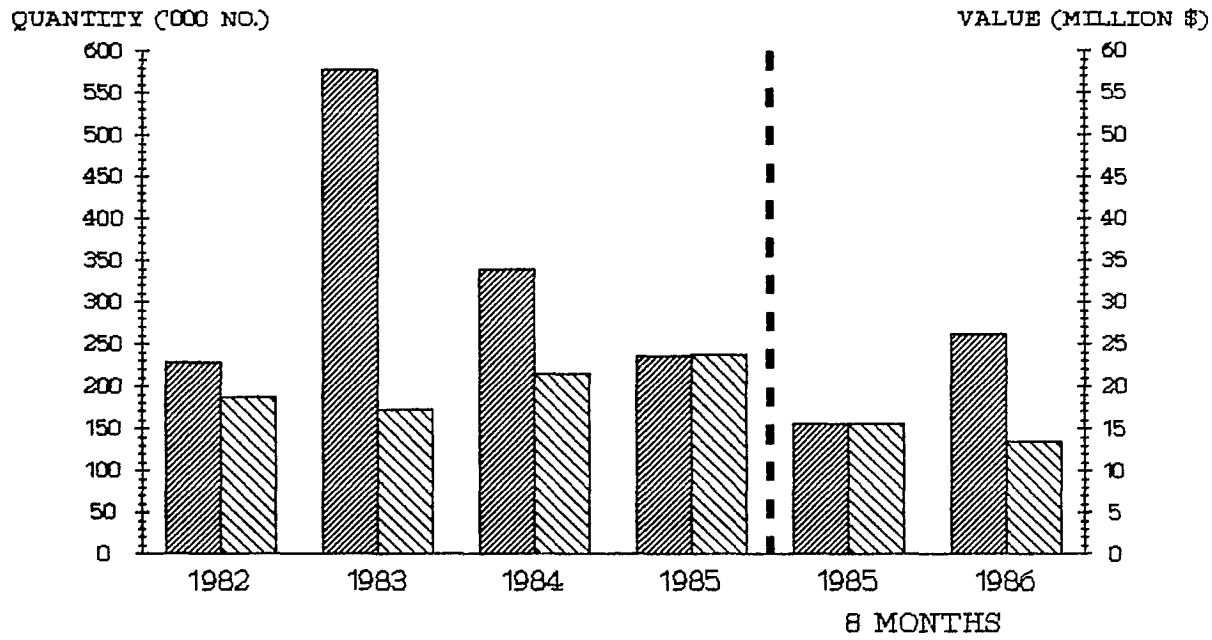
<u>CODE</u>	<u>DESCRIPTION</u>
523 85 22	DIES, METALWORKING, THREADING, TUNGSTEN CARBIDE TIPPED
523 85 29	DIES, METALWORKING, TUNGSTEN CARBIDE TIPPED, NOT ELSEWHERE SPECIFIED
523 87 29	DIES, METALWORKING, WIRE DRAWING, NOT ELSEWHERE SPECIFIED
523 87 31	DIES, METALWORKING, CLOSED TYPE FORGING
523 87 34	DIES, METALWORKING, HEADING
523 87 35	DIES, METALWORKING, STAMPING
523 87 39	DIES, METALWORKING, FORGING, NOT ELSEWHERE SPECIFIED
523 87 40	DIES, METALWORKING, EXTRUSION
523 87 51	DIES, METALWORKING, THREAD ROLLING
523 87 52	DIES, METALWORKING, THREAD CUTTING
523 87 61	DIES, METALWORKING, FORMING
523 87 62	DIES, METALWORKING, LAMINATING
523 87 63	DIES, METALWORKING, LINE
523 87 65	DIES, METALWORKING, PROGRESSIVE
523 87 69	DIES, METALWORKING, DRAWING, NOT ELSEWHERE SPECIFIED
523 87 71	DIES, METALWORKING, PUNCHING
523 87 72	DIES, METALWORKING, BLANKING
523 87 75	DIES, METALWORKING, TRIMMING
523 87 89	DIES, METALWORKING MACHINERY, NOT ELSEWHERE SPECIFIED

NOTE: With the exception of the tables on "Import Market Concentration" and "Type and Location of the Top 34 Known Importers", page 46, the tables of this section do not include data for parts of metalworking dies, not elsewhere specified (commodity code 523 87 88). Appendix A, page 47, contains additional statistical information on the imports of parts of metalworking dies.



**PART C: DIES FOR METALWORKING MACHINERY**

**IMPORT TRENDS: OVERVIEW**



	1982	1983	1984	1985	1985	1986
QUANTITY	229	578	340	235	157	262
VALUE	18.8	17.2	21.5	23.7	15.7	13.6

Between 1982 and 1985, the value of imports of dies for metalworking machinery augmented rapidly. The value of imports declined from \$18.8 million in 1982 to \$17.2 million in 1983. However, the value grew to \$21.5 million in 1984, and to \$23.7 million in 1985.

Due to the heterogeneity of the products, a conclusion cannot be derived from the trend in the volume of imports of dies for metalworking machinery for the four-year period.

During the first eight months of 1986, the value of imports declined by 13 per cent, when compared to the same period of 1985. For that period of 1986, imports amounted to \$13.6 million.

PART C: DIES FOR METALWORKING MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

Foreign Country of Export	1982	1983	1984	1985	Unit Price 1985 \$	Average	Per cent Change 1984-1985 %	8 Month Imports	
						Annual Growth Rate 1982-1985 %		Jan. to Aug. 1985	1986
<b>UNITED STATES</b>									
Quantity (No.)	187 808	153 087	231 677	193 558		1	-16	126 907	183 878
Value (\$000)	18 027	15 762	20 191	22 123	114	7	10	14 749	11 601
<b>UNITED KINGDOM</b>									
Quantity (No.)	28 083	45 680	41 833	26 979		-1	-36	20 382	10 155
Value (\$000)	302	454	443	398	15	10	-10	294	227
<b>IRELAND</b>									
Quantity (No.)	1 059	2 635	3 738	3 878		54	4	2 496	767
Value (\$000)	59	149	208	220	57	55	6	154	56
<b>ITALY</b>									
Quantity (No.)	95	121	204	864		109	324	818	306
Value (\$000)	30	41	52	206	238	90	296	177	80
<b>JAPAN</b>									
Quantity (No.)	1 033	946	2 321	2 808		40	21	2 339	5 184
Value (\$000)	120	31	310	180	64	14	-42	156	1 181
<b>OTHER</b>									
Quantity (No.)	10 479	375 321	60 692	6 622		-14	-89	4 210	61 938
Value (\$000)	240	743	285	599	90	36	110	205	474
<b>TOTAL</b>									
Quantity (No.)	228 557	577 790	340 465	234 709		1	-31	157 152	262 228
Value (\$000)	18 778	17 180	21 489	23 726		8	10	15 735	13 619
Unit Price (\$)	82	30	63	101					

Between 1982 and 1985, the United States was by far the largest exporter to Canada of dies for metalworking machinery. It had at least 92 per cent of the Canadian import market. In 1985, it supplied \$22.1 million worth of products. The United Kingdom ranked second with less than two per cent of the Canadian import market.

During the first eight months of 1986, the bulk of Canadian imports of dies for metalworking machinery originated in the U.S.A. The remaining Canadian imports came principally from Japan.

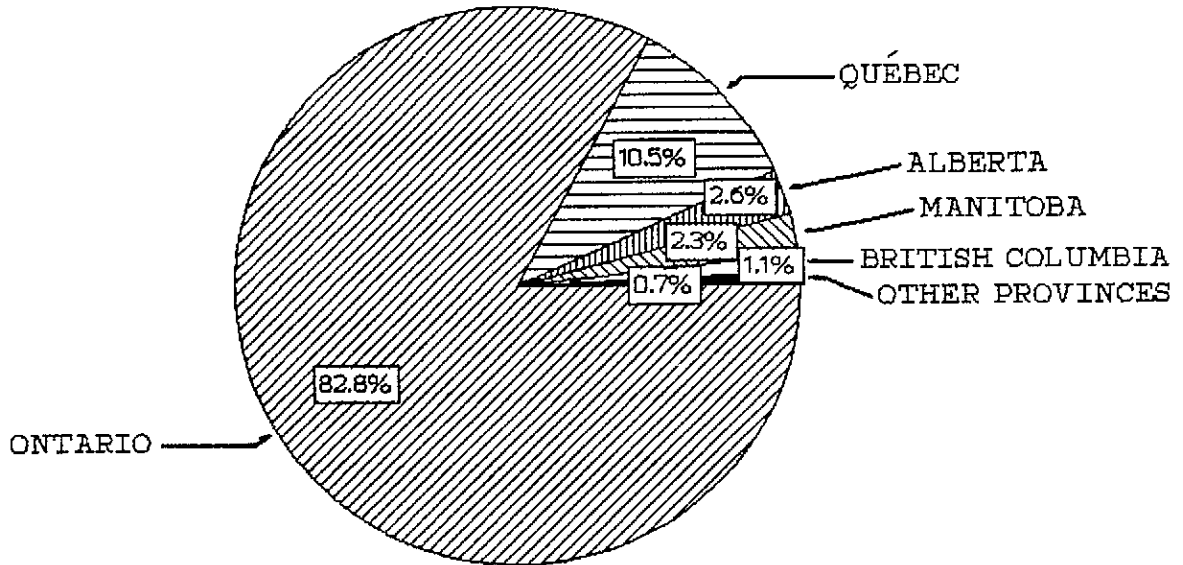
During the four-year period, the average unit price for dies for metalworking machinery fluctuated widely. However, due to the lack of homogeneity of the products, a conclusion cannot be derived from the fluctuation in the average unit price.

For data on imports of parts of metalworking dies (C.I.T.C. 523 87 88), see Appendix A, page 47.

PART C: DIES FOR METALWORKING MACHINERY

VALUE OF IMPORTS BY PROVINCE OF CLEARANCE

1985



In 1985, most of the Canadian imports of dies for metalworking machinery entered through Ontario. This province accounted for \$19.6 million, or 82.8 per cent of imports. Québec ranked second with 10.5 per cent of imports. Imports cleared through Alberta, Manitoba, and British Columbia represented, in the aggregate, another 6.0 per cent of imports.

NOTE: For further information on imports by major foreign countries of export and provinces of clearance, see Appendix C, page 49.

PART C: DIES FOR METALWORKING MACHINERY

IMPORT TRENDS BY TYPE

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate	Major Country of Export		8 Month Imports	
						1982-1985 %	1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
523 85 22	Dies, Metalworking, Threading, Tungsten Carbide Tipped							United States		
	Quantity (No.)	1 594	17 055	30 781	20 823	136			11 816	4 047
	Value (\$000)	39	140	266	253	87	163	64	152	80
523 85 29	Dies, Metalworking, Tungsten Carbide Tipped, Not Elsewhere Specified							United States		
	Quantity (No.)	7 934	9 352	13 628	9 518	6			6 137	10 062
	Value (\$000)	630	330	1 048	778	7	707	91	508	980
523 87 29	Dies, Metalworking, Wire Drawing, Not Elsewhere Specified							United States		
	Quantity (No.)	14 042	332 888	53 874	3 539	-37			1 983	72 172
	Value (\$000)	74	871	291	107	13	78	73	39	564
523 87 31	Dies, Metalworking, Closed Type Forging							United States		
	Quantity (No.)	41	52	53	153	55			119	19
	Value (\$000)	55	134	46	46	-6	46	100	31	47
523 87 34	Dies, Metalworking, Heading							United States		
	Quantity (No.)	2 681	2 353	2 395	3 073	5			2 687	1 309
	Value (\$000)	113	155	124	147	9	122	83	121	60
523 87 35	Dies, Metalworking, Stamping							United States		
	Quantity (No.)	4 912	4 373	3 908	4 658	-2			3 156	3 245
	Value (\$000)	3 953	1 092	1 819	3 204	-7	3 200	100	2 460	344
523 87 39	Dies, Metalworking, Forging, Not Elsewhere Specified							United States		
	Quantity (No.)	15 833	6 531	4 700	9 391	-16			5 474	3 950
	Value (\$000)	1 363	861	579	1 257	-3	1 212	96	661	299
523 87 40	Dies, Metalworking, Extrusion							United States		
	Quantity (No.)	121	509	418	2 372	170			743	855
	Value (\$000)	132	179	232	472	53	466	99	213	115

PART C: DIES FOR METALWORKING MACHINERY

IMPORT TRENDS BY TYPE (Continued)

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate 1982-1985 %	Major Country of Export		8 Month Imports	
							1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
523 87 51	Dies, Metalworking, Thread Rolling						United States			
	Quantity (No.)	12 655	9 846	20 962	22 052	20			15 009	34 068
	Value (\$000)	940	796	1 394	1 895	26	1 387	73	1 355	1 588
523 87 52	Dies, Metalworking, Thread Cutting						United States			
	Quantity (No.)	33 104	73 816	36 574	26 535	-7			18 748	16 939
	Value (\$000)	517	536	616	838	17	772	92	568	561
523 87 61	Dies, Metalworking, Forming						United States			
	Quantity (No.)	50 807	28 536	57 436	6 763	-49			5 128	1 488
	Value (\$000)	1 604	1 714	2 793	2 787	20	2 774	100	1 539	999
523 87 62	Dies, Metalworking, Laminating						United States			
	Quantity (No.)	26	73	86	87	50			35	30
	Value (\$000)	280	321	33	359	9	350	98	340	104
523 87 63	Dies, Metalworking, Line						United States			
	Quantity (No.)	621	141	167	217	-30			217	74
	Value (\$000)	174	108	487	236	11	236	100	236	13
523 87 65	Dies, Metalworking, Progressive						United States			
	Quantity (No.)	466	843	525	131	-34			103	122
	Value (\$000)	1 182	446	1 930	883	-9	776	88	807	559
523 87 69	Dies, Metalworking, Drawing, Not Elsewhere Specified						United States			
	Quantity (No.)	778	1 760	1 062	573	-10			358	1 107
	Value (\$000)	282	931	501	868	45	769	89	654	497
523 87 71	Dies, Metalworking, Punching						United States			
	Quantity (No.)	8 875	10 706	16 588	13 957	16			9 097	16 301
	Value (\$000)	805	461	817	638	-7	616	97	507	336

PART C: DIES FOR METALWORKING MACHINERY

IMPORT TRENDS BY TYPE (Continued)

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate	Major Country of Export		8 Month Imports	
						1982-1985 %	1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
523 87 72	Dies, Metalworking, Blanking						United States			
	Quantity (No.)	7 240	4 054	2 366	3 536	-21			1 670	5 579
	Value (\$000)	432	685	461	300	-11	298	99	215	154
523 87 75	Dies, Metalworking, Trimming						United States			
	Quantity (No.)	19 046	10 102	19 934	26 717	12			17 825	23 221
	Value (\$000)	1 243	871	927	1 106	-4	1 106	100	661	879
523 87 89	Dies, Metalworking Machinery, Not Elsewhere Specified						United States			
	Quantity (No.)	47 781	64 800	75 008	80 614	19			56 847	67 640
	Value (\$000)	4 960	6 549	7 125	7 552	15	7 119	94	4 668	5 440
<hr/>										
TOTAL							United States			
	Quantity (No.)	228 557	577 790	340 465	234 709	1			157 152	262 228
	Value (\$000)	18 778	17 180	21 489	23 726	8	22 123	93	15 735	13 619

Between 1982 and 1985, the most important product category was stamping dies for metalworking (C.I.T.C. 523 87 35). In 1985, imports of these products totalled \$3.2 million, or 13.5 per cent of the value of imports of dies for metalworking machinery.

During the four-year period, the United States was the principal exporter to Canada in each category of imports. In 1985, it had at least 64 per cent of Canadian imports of each type of product.

PART C: DIES FOR METALWORKING MACHINERY

IMPORT MARKET CONCENTRATION  
(BY % OF TOTAL 1985 VALUE)

DIES FOR METALWORKING MACHINERY, AND PARTS

<u>Top 5</u> <u>Importers</u>	<u>Top 10</u> <u>Importers</u>	<u>Top 20</u> <u>Importers</u>	<u>Top 30</u> <u>Importers</u>
33	44	54	61

In 1985, the 10 major importers of dies for metalworking machinery, and parts, accounted for \$10.4 million, or 44 per cent of the imports. These importers were also manufacturers of a number of products. Nine of these importers were located in Ontario.

NOTE: "Top importers" are the known importers with the largest imports by value in 1985.

DIES FOR METALWORKING MACHINERY, AND PARTS

TYPE AND LOCATION OF THE TOP 34 KNOWN IMPORTERS - 1985  
(63% OF TOTAL IMPORT VALUE)

	<u>MANUFACTURERS</u>		<u>WHOLESALERS</u>		<u>OTHER</u>		<u>TOTAL</u>	
	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>	<u>No. of</u> <u>Importers</u>	<u>Value</u> <u>(\$000)</u>
Western Provinces	-	-	-	-	1	1 220*	1	20 026*
Ontario	21	16 945	5	1 861	4	-	30	-
Québec	3	1 420	-	-	-	-	3	1 420
Atlantic Provinces	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>24</b>	<b>18 365</b>	<b>5</b>	<b>1 861</b>	<b>5</b>	<b>1 220</b>	<b>34</b>	<b>21 446</b>
Per cent of 1985 total value		54%		5%		4%		63%

\* Ontario and Western Provinces aggregated to preserve confidentiality.

In 1985, there were 815 known importers of dies for metalworking machinery, and parts, whose imports totalled \$34.1 million. The top 34 importers accounted for 63 per cent of the value of imports. Six of these top 34 firms were manufacturers of transportation equipment, whose imports amounted to 20 per cent of imports. Another nine of these 34 companies were manufacturers of fabricated metal products, which accounted for 15 per cent of imports. A further three of these 34 firms were manufacturers of non-electric machinery, whose imports were 12 per cent of the total.

PART C: DIES FOR METALWORKING MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PARTS OF METALWORKING DIES, NOT ELSEWHERE SPECIFIED

(C.I.T.C. 523 87 88)

<u>Foreign Country of Export</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	Average Annual Growth Rate	Per cent Change	8 Month Imports	
					<u>1982-1985</u>	<u>1984-1985</u>	<u>1985</u>	<u>1986</u>
					%	%		
UNITED STATES Value (\$000)	5 967	7 029	7 679	9 995	19	30	6 984	6 900
ITALY Value (\$000)	65	32	24	234	53	875	76	481
UNITED KINGDOM Value (\$000)	24	26	48	67	41	40	55	25
JAPAN Value (\$000)	0	31	88	60	N/A	-32	47	31
AUSTRALIA Value (\$000)	2	0	0	19	112	N/A	19	0
OTHER Value (\$000)	79	114	19	42	-19	121	31	65
<hr/>								
TOTAL Value (\$000)	6 137	7 232	7 858	10 417	19	33	7 212	7 502

N/A - Not applicable



PART C: DIES FOR METALWORKING MACHINERY

CANADIAN TARIFFS, 1985

Tariff Item	Description	% of Total Import Value (1985)	TARIFF TREATMENT				U.K. and Ireland
			British Preferential Tariff %	Most Favoured Nation Tariff %	General Tariff %	General Preferential Tariff %	
42700-01	Machines, n.o.p., and accessories, attachments, control equipment and tools for use therewith; parts of the foregoing	86	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2
42700-04	Control equipment and tools for use with the goods enumerated in tariff item 42700-07, not included in the original complement of the parent machines when initially imported, including collets, tracing attachments, milling heads and single tool boring heads, live centers, machine spindles, dies, jigs, fixtures, moulds and tooling	12	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2

N.o.p. - Not otherwise provided for

Tariff Arrangements and Foreign Countries of Export:

COUNTRIES WHICH BENEFIT FROM THE MOST FAVOURED NATION TARIFF TREATMENT: UNITED STATES, ITALY, JAPAN  
 COUNTRY WHICH BENEFITS FROM THE MOST FAVOURED NATION TARIFF TREATMENT OR BRITISH PREFERENTIAL SYSTEM:  
 AUSTRALIA

COUNTRIES WHICH BENEFIT FROM THE MOST FAVOURED NATION TARIFF TREATMENT OR U.K. AND IRELAND: UNITED KINGDOM, IRELAND

ENQUIRIES CONCERNING TARIFFS SHOULD BE DIRECTED TO THE NEAREST CUSTOMS AND EXCISE OFFICE OR TO:

TARIFF PROGRAMS  
 REVENUE CANADA  
 CUSTOMS AND EXCISE  
 OTTAWA, ONTARIO  
 K1A 0L5  
 TEL: (613) 995-2989

PART C: DIES FOR METALWORKING MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE

1985

<u>Foreign Country of Export</u>	<u>CANADA</u>	<u>NFLD</u>	<u>P.E.I.</u>	<u>N.S.</u>	<u>N.B.</u>	<u>QUÉ</u>	<u>ONT</u>	<u>MAN</u>	<u>SASK</u>	<u>ALTA</u>	<u>B.C.</u>
<b>UNITED STATES</b>											
Quantity (No.)	193 558	118	0	998	262	37 172	130 687	2 015	436	16 122	5 741
Value (\$000)	22 123	7	0	96	14	2 182	18 445	550	27	536	263
<b>UNITED KINGDOM</b>											
Quantity (No.)	26 979	0	0	1 215	0	91	25 671	0	0	2	0
Value (\$000)	398	0	0	13	0	33	350	0	0	1	0
<b>IRELAND</b>											
Quantity (No.)	3 878	0	0	0	0	0	3 878	0	0	0	0
Value (\$000)	220	0	0	0	0	0	220	0	0	0	0
<b>ITALY</b>											
Quantity (No.)	864	0	0	419	0	10	435	0	0	0	0
Value (\$000)	206	0	0	3	0	9	194	0	0	0	0
<b>JAPAN</b>											
Quantity (No.)	2 808	0	0	0	0	126	1 991	0	0	0	691
Value (\$000)	180	0	0	0	0	2	173	0	0	0	5
<b>OTHER</b>											
Quantity (No.)	6 622	0	0	248	0	1 838	3 329	10	0	413	784
Value (\$000)	599	0	0	3	0	254	262	0	0	76	5
<b>TOTAL</b>											
Quantity (No.)	234 709	118	0	2 880	262	39 237	165 991	2 025	436	16 537	7 216
Value (\$000)	23 726	7	0	115	14	2 480	19 644	550	27	613	273

PART C: DIES FOR METALWORKING MACHINERYCANADIAN IMPORTERS

Importers of dies for metalworking machinery during 1985, as indicated in this report, are listed below in alphabetical order. This list includes all importers except shipments to individuals and a minimal number of importers whose names were not available.

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
393598 Ontario Ltd.	Ottawa, Ont.	Anchor Die Sets & Accessories Ltd.	Dorval, Qué.
A & I Supply Limited	Thunder Bay, Ont.	Anchor Machine & Manufacturing Limited	Windsor, Ont.
A Adams Supply (1969) Ltd.	Winnipeg, Man.	Andrew Sheret Limited	Victoria, B.C.
A E L Microtel Ltd.	Burnaby, B.C.	Apex Metals Kitchener Ltd.	Kitchener, Ont.
A G Baird Ltd.	Weston, Ont.	Aqua Leader Canada Inc.	Longueuil, Qué.
A G Simpson Company Ltd.	Scarborough, Ont.	Aradco Management Ltd.	Windsor, Ont.
A M T Machine Tool Ltd.	Rexdale, Ont.	Arcweld Products Ltd.	St-Laurent, Qué.
A Rea Tools & Tubing Limited	Mississauga, Ont.	Armstrong World Industries Canada Ltd.	Montréal, Qué.
AEL Microtel Ltd. Transmissions Division	Burnaby, B.C.	Arrowhead Metals Ltd.	Toronto, Ont.
Abex Industries Ltd.	Chicago, IL, USA*	Associated Tube Industries Ltd.	Markham, Ont.
Abex Industries Ltd. (Ontario)	Lindsay, Ont.	Atlas Machinery Supply	Toronto, Ont.
Accurate Manufacturing Windsor Ltd.	Windsor, Ont.	Atlas Steels Company, a Div. of Rio Algom Mines Limited	Welland, Ont.
Acheson Colloids (Canada) Ltd.	Port Huron, MI, USA*	Atto Equipment Ltd.	Dorval, Qué.
Acklands Limited	Winnipeg, Man.	Aurora Engineering Industries Limited	Brampton, Ont.
Acme Neon & Plastic Sign Supplies (Ont.) Ltd.	Downsview, Ont.	Automatic Metal Stamping Company Inc.	Concord, Ont.
Acmetrack Ltd.	Brampton, Ont.	Automotive & Industrial Supplies (1971) Ltd.	Regina, Sask.
Actif de Supreca Inc.	Montréal, Qué.	Ava Medical Products of Canada Inc.	Windsor, Ont.
Ad-Print Markings Ltd.	Vancouver, B.C.	B C L Magnetics Limited	Burlington, Ont.
Adlam Tool & Supply Company Ltd.	Montréal, Qué.	B C Plumbing Supplies Ltd.	Burnaby, B.C.
Adrian Aluminum Ltd.	Windsor, Ont.	B F Goodrich Canada Ltd.	Kitchener, Ont.
Advance Metal Industries Ltd.	Kitchener, Ont.	Barber Industries Division of Bralorne Resources Limited	Edmonton, Alta.
Advance Power Inc.	Bramalea, Ont.	Bartle & Gibson Co. Ltd., Singer Valve Division	Surrey, B.C.
Advanced Wire Die Ltd.	London, Ont.	Bartle & Gibson Company Ltd.	Edmonton, Alta.
Aioi Engineering Inc.	Toronto, Ont.	Bay Mills Limited, Midland Division	Oakville, Ont.
Air Refiner (Canada) Ltd.	Cornwall, Ont.	Beaty Farms Limited	Thamesford, Ont.
Akhurst Machinery Ltd.	Vancouver, B.C.	Behlen-Wickes Company Limited	Brandon, Man.
Alcan Canada Products Ltd.	Bracebridge, Ont.	Bell Marine & Mill Supply Ltd.	Port Colborne, Ont.
Alexander Tools Limited	Brantford, Ont.	Ben Huot Inc.	Limouilou, Qué.
Algoods Div. of Alcan Canada Products Limited	Toronto, Ont.	Bendix Engine Components Limited	Chatham, Ont.
Allied Tools Ltd.	Edmonton, Alta.	Bendix Safety Restraints Limited	Collingwood, Ont.
Almex Inc.	Ste-Foy, Qué.	Beneke Industries Ltd.	Rexdale, Ont.
Alumet Mfg. Inc.	Coquitlam, B.C.	Berglund Industrial Supply	Thunder Bay, Ont.
Aluminart Products Ltd.	Mississauga, Ont.		
American Can Canada Inc.	Rexdale, Ont.		
American Hoist of Canada Ltd.	Brampton, Ont.		
Amerock Inc.	Meaford, Ont.		
Amesco (1967) Ltd.	Winnipeg, Man.		
Anca Div. of Sandoz Canada Inc.	Whitby, Ont.		

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Bidena Financial Group Ltd., Bidena Products Division	Calgary, Alta.	Canadian Fabricated Products Limited	Stratford, Ont.
Bissell Ltd.	Niagara Falls, Ont.	Canadian General Electric Co. Ltd.	Toronto, Ont.
Bissett & Webb Ltd.	Winnipeg, Man.	Canadian General Electric Co. Ltd.	Peterborough, Ont.
Blackstone Industrial Products Ltd.	Stratford, Ont.	Canadian Landis Machine Company Limited	Waynesboro, PA, USA
Blero Engineering & Equipment Ltd.	Edmonton, Alta.	Canadian Marconi Company Ltd.	Montréal, Qué.
Bobrick Washroom Equipment of Canada Ltd.	North Hollywood, CA, USA*	Canadian Oxygen Ltd.	Mississauga, Ont.
Border Tool & Die Ltd.	Windsor, Ont.	Canadian Plumbing & Heating Supplies (1963) Ltd.	Montréal, Qué.
Bose Canada Inc.	Ste-Marie, Qué.	Canadian Timken Limited	St-Thomas, Ont.
Brazeway Canada Inc.	Tillsonburg, Ont.	Canadian Tire Corporation Ltd.	Toronto, Ont.
Brock Valley Ltd.	Morris, Man.	Canadian Tool & Die Ltd.	Winnipeg, Man.
Brown Packaging Inc.	Burlington, Ont.	Canadian Threadall Ltd.	Waterloo, Ont.
Brunner Canada Inc.	Mississauga, Ont.	Canrep Inc.	New Glasgow, N.S.
Budd Canada Inc.	Kitchener, Ont.	Cape Oil Ltd.	Calgary, Alta.
Bundy of Canada Ltd. Sinterings Div.	Guelph, Ont.	Capital Metal Industries, Div. of H Paulin & Co. Ltd.	Scarborough, Ont.
Burlington Die Castings Co. Ltd.	Burlington, Ont.	Capitol Ornament Co. Ltd.	Toronto, Ont.
Burlington Stamping Inc.	Burlington, Ont.	Carpak Distributing Corp.	Burnaby, B.C.
Burndy Inc.	Scarborough, Ont.	Carrier Air Conditioning (Canada) Ltd.	Bramalea, Ont.
Butler Metal Products, a Div. of Guthrie Canadian Investments	Cambridge, Ont.	Caverhill Learmont & Company Ltd.	Montréal, Qué.
Butterfield Division, Litton Canada Inc.	Smiths Falls, Ont.	Central Die Supply	Montréal, Qué.
C H Henze Company Limited	Windsor, Ont.	Central Stampings Limited	Windsor, Ont.
C I S of Canada Ltd.	Streetsville, Ont.	Century Sales & Service Ltd.	Edmonton, Alta.
CAE Montupet Die Cast Ltd.	St-Catharines, Ont.	Certified Tool & Supply Ltd.	Edmonton, Alta.
CAE Webster Ltd.	London, Ont.	Chamberlain Manufacturing Canada Inc.	Barrie, Ont.
CAE-Morse Ltd.	Mississauga, Ont.	Champion Spark Plug of Canada Ltd.	Windsor, Ont.
Cable Craft Ltd.	Weston, Ont.	Charles Jones Industrial Ltd.	Stoney Creek, Ont.
Caloritech Division, Casah Heating System Inc.	Orillia, Ont.	Chase Tools & Equipment Ltd.	St-Laurent, Qué.
Camco Inc.	Weston, Ont.	Chester Industrial Tool Supply Ltd. Gescan Div.	Calgary, Alta.
Campbell Soup Co. Ltd.	Toronto, Ont.	Chesters Industrial Tools Supply Ltd.	Calgary, Alta.
Can-Eng Manufacturing Ltd.	Niagara Falls, Ont.	Chrysler Canada Limited	Windsor, Ont.
Canada Decalcomania Company Limited	Scarborough, Ont.	Cintube Ltd.	Lachine, Qué.
Canada Japan Management Service Inc.	Toronto, Ont.	Clarkson Tools of Canada Inc.	Scarborough, Ont.
Canada Wire & Cable Ltd.	Don Mills, Ont.	Clement Machinery Inc.	Montréal, Qué.
Canadian A S E Ltd.	Downsview, Ont.	Cleveland Twist Drill Canada Limited	Cleveland, OH, USA*
Canadian Buttons Ltd.	Lasalle, Qué.		
Canadian Engineering & Tool Company Ltd.	Windsor, Ont.		

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Cochrane Dunlop Hardware Ltd.	Thunder Bay, Ont.	Diemaster Tool Inc.	Mississauga, Ont.
Cochrane-Dunlop Hardware Ltd.	Sault Ste-Marie, Ont.	Dijo Industrial Sales Limited	Windsor, Ont.
Cochrane-Dunlop Limited	Etobicoke, Ont.	Dofasco Inc.	Hamilton, Ont.
Cochrane-Dunlop Limited	Sudbury, Ont.	Dominion Automotive Industries	
Coleco (Canada) Ltd.	Montréal, Qué.	Inc.	Toronto, Ont.
Collier Keyworth Company	Gardner, MA, USA*	Dominion Bridge Unit of AMCA	
Colortech Inc.	Brampton, Ont.	International	Toronto, Ont.
Commander Electrical Equipment		Dominion Forge Co. Ltd.	Windsor, Ont.
Inc.	Scarborough, Ont.	Dominion General	
Condor Litho & Carton Inc.	Lasalle, Qué.	Manufacturing Ltd.	Rexdale, Ont.
Construction & Industrial		Domtar Sonoco Cont. Inc.	Mississauga, Ont.
Equipment Distributors Ltd.	Halifax, N.S.	Donn Canada Limited	Oakville, Ont.
Container Graphic Ltd.	Weston, Ont.	Dorssers Inc.	Blenheim, Ont.
Continental Can Canada Inc.	Toronto, Ont.	Doyles Mechanics Supply Ltd.	Winnipeg, Man.
Cope & Gurr Machinery Company		Duchesne & Fils Limitée	Yamachiche, Qué.
Ltd.	Windsor, Ont.	Duct Lok Inc.	Brantford, Ont.
Cornell Jewellery & Novelties		Dynacast, Div. of J P Coats	
Ltd.	Montréal, Qué.	(Canada) Ltd.	Lachine, Qué.
Coronet Regal Inc.	Orangeville, Ont.	E D A C Inc.	Don Mills, Ont.
Cosa Corporation of Canada		E H Ferree Company Ltd.	Niagara Falls, Ont.
Ltd.	Toronto, Ont.	E Kurt Kemsies Ltd.	Scarborough, Ont.
Cramco Alloy Sales Ltd.	Scarborough, Ont.	East-West Distributors Ltd.	Richmond, B.C.
Crane Canada Inc.	Dorval, Qué.	Eaton Yale Ltd. Controls	
Crane Canada Inc.	Mont-Royal, Qué.	Division	Agincourt, Ont.
Crane Supply	Winnipeg, Man.	Eaton Yale Ltd., Suspension Div.	Chatham, Ont.
Crawford Fittings (Canada)		Echlin Canada Inc.	Rexdale, Ont.
Limited	Niagara Falls, Ont.	Edmund Shoes Goods Ltd.	Montréal, Qué.
Cronkhite Companies Ltd.	Calgary, Alta.	Edwards, a Unit of General	
Custom Leather Products Limited	Guelph, Ont.	Signals Limited	Owen Sound, Ont.
Custom Trim Ltd.	Waterloo, Ont.	Ecol Electric Ltd.	Calgary, Alta.
Cyanamid Canada Inc.	Willowdale, Ont.	Ekco Canada Limited	Scarborough, Ont.
D & L Metals Ltd.	Windsor, Ont.	El-Met-Parts Division Toromont	
D M E of Canada Ltd.	Mississauga, Ont.	Industries Ltd.	Dundas, Ont.
Dafoe & Dafoe Inc.	Brantford, Ont.	Electric Terminal Corporation	
Dale Electronics Ltd.	Scarborough, Ont.	of Canada Limited	Thornhill, Ont.
Dalimpex Ltd.	St-Laurent, Qué.	Electrical Contacts Limited	Hanover, Ont.
David Barry Company Ltd.	Toronto, Ont.	Électrique C C Enrg.	St-Hubert, Qué.
Dayco Canada Ltd.	Weston, Ont.	Electrolux Canada Div. of	
Daymond a Division of Redpath		Sara Lee Ltd. of Canada	Montréal, Qué.
Industries	Clarkson, Ont.	Ellis Holdings Inc.	Kitchener, Ont.
de Havilland Aircraft of Can.		Emco Limited	London, Ont.
Ltd.	Downsview, Ont.	Emerson Electric Canada Ltd.	Markham, Ont.
Decalcomanie Beaver Inc.	St-Laurent, Qué.	Emsco Limited	Belleville, Ont.
Desa Industries of Canada Ltd.	Mississauga, Ont.	Engelhard Industries of Canada	
Deschênes & Fils (1969) Ltée	Montréal, Qué.	Ltd.	Aurora, Ont.
Devilbiss (Canada) Ltd.	Barrie, Ont.	Equipment World Inc.	Thunder Bay, Ont.
Dieco Manufacturing	Brampton, Ont.	Ernst Leitz (Canada) Ltd.	Midland, Ont.

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Essex International Canada Ltd.	St-Thomas, Ont.	Galt British Forge Limited	Brantford, Ont.
Estatech Industries Inc.	Brantford, Ont.	General Forgings Inc.	Winnipeg, Man.
Étiquette et Ruban Adhésif Commerce Inc.	Ville-d'Anjou, Qué.	General Motors of Canada Ltd.	Oshawa, Ont.
Euclid Canada Limited	Guelph, Ont.	Genesta Manufacturing Ltd.	Guelph, Ont.
Evenflo Canada, a Div. of Spalding & Evenflo Canada Inc.	Brantford, Ont.	Geophysical Service Incorporated	Richmond Hill, Ont.
Exacta Precision Products Ltd.	Scarborough, Ont.	George O Hill Supply Ltd.	Thunder Bay, Ont.
Excel Metalcraft Ltd.	Aurora, Ont.	Gillette Canada Inc.	Montréal, Qué.
F Jos Lamb Company Limited	Windsor, Ont.	Goliath Threading Tools Canada Limited	Mississauga, Ont.
F K Machinery Ltd.	Barrie, Ont.	Gotech Inc.	Toronto, Ont.
F-B Tool & Die Ltd.	St-Catharines, Ont.	Greening Donald Co. Ltd.	Hamilton, Ont.
Fabricants de Matrices de Montréal Inc.	Montréal, Qué.	Groom-Callaghan Supply Company Ltd.	Sudbury, Ont.
Fabricated Steel Products, Division of Indal Limited	Windsor, Ont.	Guelph Tool & Die Ltd.	Guelph, Ont.
Fairview Fittings & Manufacturing Limited	Rexdale, Ont.	H B Etlin Company Ltd.	Weston, Ont.
Fastway Supply Ltd.	Scarborough, Ont.	H E Vannatter Limited	Wallaceburg, Ont.
Federal Bolt & Nut Corporation Ltd.	Toronto, Ont.	H G Kalish Inc.	Pointe-Claire, Qué.
Fermat Enterprise Inc.	Montréal, Qué.	H J Langen & Sons Ltd.	Mississauga, Ont.
Ferro Products Co. Ltd.	Montréal, Qué.	H O Trerice Company	Windsor, Ont.
Fibracan Inc.	Laval, Qué.	H Paulin & Company Ltd.	Scarborough, Ont.
Fil & Cable Alcan	Shawinigan, Qué.	H W Bickle Company	Niagara Falls, Ont.
Firestone Steel Products of Canada Ltd.	London, Ont.	Handy & Harman of Canada Ltd.	Rexdale, Ont.
Fleck Bros Limited	Burnaby, B.C.	Hansen Industrial Tool Supply Ltd.	Vancouver, B.C.
Fleck Manufacturing Company	Tillsonburg, Ont.	Harbison-Fischer Canada Ltd.	Calgary, Alta.
Fleetwood Metal Industries a Div. of Starcan Corporation	Tilbury, Ont.	Harbour Industries (Canada) Ltd.	Farnham, Qué.
Foster Wheeler Ltd.	St-Catharines, Ont.	Harrington, Div. Ingersoll-Rand Canada Inc.	Montréal, Qué.
Fram Canada Inc.	Stratford, Ont.	Harwell Electric Supply Company Limited	Toronto, Ont.
Franklin Electric of Canada Ltd.	Strathroy, Ont.	Hastings Ltd.	Scarborough, Ont.
Fraser Steel Machinery Ltd.	Burnaby, B.C.	Haun Drop Forge Company Ltd.	Welland, Ont.
Freedland Industries Ltd.	Dearborn, MI, USA*	Hawker Siddeley Canada Ltd.	Toronto, Ont.
Freeway Washer Limited	Mississauga, Ont.	Hayes Dana Inc.	St-Thomas, Ont.
Freightliner of Canada Ltd.	Burnaby, B.C.	Heap Nosworthy Ltd.	St-John's, Nfld.
Frontenac Fabrics Inc.	Montréal, Qué.	Heritage Silversmiths (1983) Ltd.	Perth, Ont.
Frontier Commercial Refrigeration Ltd.	Toronto, Ont.	Hevac-Fireplace Furnace Mfg. Ltd.	Burlington, Ont.
Frontier Equipment Company Ltd.	Allanburg, Ont.	Hobart Canada Inc.	Don Mills, Ont.
Fundy Grinding & Machining Ltd.	Truro, N.S.	Honeywell Controls Limited	Willowdale, Ont.
G D Searle & Co. of Canada Limited	Oakville, Ont.	Hoover Canada Inc.	Burlington, Ont.
G S W Ltd. Building Products Division	Hamilton, Ont.	Hoover Universal of Canada, Div. Hoover Ball & Bearing Can	Tillsonburg, Ont.
G V Cable Inc.	Barraute, Qué.	House of Tools (Edmonton) Ltd.	Edmonton, Alta.
		House of Tools Ltd.	Calgary, Alta.
		Huck Manufacturing Company (Canada) Ltd.	Rexdale, Ont.

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Hudson Bay Diecasting Limited	Bramalea, Ont.	Irving Samuel Incorporated	Montréal, Qué.
Hudson Bay Mining and Smelting Co. Limited	Toronto, Ont.	J & S Precision Ltd.	Rexdale, Ont.
Hudson Luggage Supplies Inc.	St-Laurent, Qué.	J D Reed Machine Limited	Brantford, Ont.
Hupp Canada-Manufacture WCI Limitée	L'Assomption, Qué.	J I Case Company Hamilton Works	Hamilton, Ont.
Huron Steel Products (Windsor) Ltd.	Windsor, Ont.	J W Bird & Company Ltd.	Fredericton, N.B.
Hydraulic Service Centre (Hamilton) Limited	Hamilton, Ont.	J Walter Company Ltd.	Pointe-Claire, Qué.
Hydro-Flex Hose Western Ltd.	Edmonton, Alta.	J Pascal Inc.	Montréal, Qué.
Hydro-Flex Inc.	Hamilton, Ont.	Jax Mold & Machine Limited	Simcoe, Ont.
I M P Group Ltd.	Halifax, N.S.	Jay Vee Water Bed Heaters Ltd.	Niagara Falls, Ont.
I S Jewellery Co. Inc.	Montréal, Qué.	Johnson Controls Ltd.	Markham, Ont.
I T T Industries of Canada Ltd. Grinnell Div.	Toronto, Ont.	Johnson Johnson Inc.	Montréal, Qué.
I T W Canada Inc.	Don Mills, Ont.	Jutras Die-Casting Ltd.	Agincourt, Ont.
ITT Canada Limited	Guelph, Ont.	Kaiser Refractories Co.	Oakville, Ont.
Idar Canada Inc.	Scarborough, Ont.	Kar Industrial Ltd.	Montréal, Qué.
Idée-Pro Inc.	Ville Vanier, Qué.	Kar Tool Co. Ltd.	Edmonton, Alta.
Ilco Unican Inc.	Montréal, Qué.	Kawneer Company Canada Ltd.	Scarborough, Ont.
Imperial Clevite Canada Inc.	Toronto, Ont.	Keep Industrial Supply Limited	Woodstock, Ont.
In Tools Ltd.	Rexdale, Ont.	Keeprite Inc.	Brantford, Ont.
Indal Limited	Weston, Ont.	Kendan Manufacturing Limited	Windsor, Ont.
Indalex-Oivision of Indal Limited	Weston, Ont.	Kenametal Ltd.	Toronto, Ont.
Independent Industrial Sup. Ltd.	Prince George, B.C.	Koehl Industries Ltd.	Windsor, Ont.
Independent Industrial Supply (FSJ) Ltd.	Fort St-John, B.C.	L & L Tool Ltd.	Bowmanville, Ont.
Infasco Oivision Ivaco Inc.	Marieville, Qué.	L & M Radiator Ltd.	Winnipeg, Man.
Ingersoll Machine & Tool Company Ltd.	Ingersoll, Ont.	L C S Metals Corporation Ltd.	Brantford, Ont.
Inglis Limited	Mississauga, Ont.	L S Starrett Company of Canada Ltd.	Mississauga, Ont.
Inland Pacific Oistributors Ltd.	Galgary, Alta.	L T V Energy Products Company Ltd.	Oallas, TX, USA*
Innova Envelope, Div. of Barbecon Inc.	Oon Mills, Ont.	L-K Metal Products Co. Limited	Windsor, Ont.
Intercity Industrial Supply (1980) Limited	Thunder Bay, Ont.	La Prairie Electrical Products Ltd.	Markham, Ont.
Intergraphics Decal Ltd.	Winnipeg, Man.	La-z-Boy Canada Ltd.	Waterloo, Ont.
Interlake Steel Products Inc.	Thorold, Ont.	Lacroix Québec Inc.	Ste-Foy, Qué.
International Harvester Canada Limited	Hamilton, Ont.	Lakeland Industrial MRO Sales Inc.	Sarnia, Ont.
Interprovincial Steel & Pipe Corporation Ltd.	Regina, Sask.	Lambert Hardware Inc.	Montréal, Qué.
Irvin Industries Canada Ltd.	Fort Erie, Ont.	Lamco Die Cast Ltd.	Thorold, Ont.
		Lamson & Sessions of Canada Ltd.	Toronto, Ont.
		Laurel Steel Products Ltd.	Burlington, Ont.
		Lawless Container Corp.	Tonawanda, NY, USA*
		Lawson & Jones Limited	Mississauga, Ont.
		Lawson & Jones Ltd.	London, Ont.
		Lawton Die Cast Canada Ltd.	Strathroy, Ont.
		Leach & Garner Canada Ltd.	Scarborough, Ont.

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Lear Siegler Industries Ltd.	Kitchener, Ont.	Manville Canada Inc., Div.	
Leco Industries Limited	Rexdale, Ont.	of SNOC	St-Hyacinthe, Qué.
Ledco Limited	Kitchener, Ont.	Maple Roll Leaf Co. Ltd.	Windsor, Ont.
Leecraft Industries Ltd.	Scarborough, Ont.	Marcel & Hubert Dufresne Inc.	Sherbrooke, Qué.
Légère Industrial Supplies Ltd.	Ottawa, Ont.	Mardan Business Systems Ltd.	Waterloo, Ont.
Leigh Metal Products Ltd.	London, Ont.	Maronyx Inc.	St-Lambert, Qué.
Lemac Tools Limited	Windsor, Ont.	Marshall Brass Company	Windsor, Ont.
Len Murray Supply Inc.	Ottawa, Ont.	Marshall Wells Ltd.	Winnipeg, Man.
Les Équipements Industriels Cartier Ltée	Port-Cartier, Qué.	Master Machine & Duplicating (Windsor) Inc.	Oldcastle, Ont.
Les Fonderies Shellcast Inc.	Montréal, Qué.	Mastercraft Leather Goods Ltd.	Montréal, Qué.
Les Industries Abaco Inc.	Montréal, Qué.	Matériaux Électrique Commander Inc.	St-Jean-sur- Richelieu, Qué.
Les Industries OSIT Inc.	Mont-Royal, Qué.	Mattel Canada Inc.	Toronto, Ont.
Les Industries d'Acier Inoxydable Ltée	Montréal, Qué.	McCann Equipment Ltd.	Dorval, Qué.
Les Industries de Métaux Noranda Limited	Montréal, Qué.	McCowan Manufacturing Ltd.	Scarborough, Ont.
Levac Supply Ltd.	Kingston, Ont.	McDonnell Douglas Canada Ltd.	Toronto, Ont.
Libman Manufacturing Ltd.	Downsview, Ont.	McRobert Spring Co. a Div. of Cerro Mining Co. of Can Ltd.	Montréal, Qué.
Litton Canada Inc., Kester Solder Div.	Brantford, Ont.	Merchants Consolidated Ltd.	Winnipeg, Man.
Long Manufacturing Ltd.	Oakville, Ont.	Merit Manufacturing Limited	Windsor, Ont.
Loubec Inc.	Ville Vanier, Qué.	Metalumen Manufacturing Inc.	Guelph, Ont.
Louver Drape of Canada Lumen Inc.	Toronto, Ont.	Métaux Eurobec Ltée	Lachute, Qué.
Lustro Steel Products Ltd.	St-Eustache, Qué.	Metform International Limited	Mississauga, Ont.
M G Butler & Sons Ltd.	Brampton, Ont.	Metrican Mfg. Co. Inc.	Oakville, Ont.
M M Automatic Specialties Ltd.	Windsor, Ont.	Metrone Corporation	Montréal, Qué.
M P H Supply Ltd.	Coquitlam, B.C.	Metropolitan Wire Goods Canada Limited	Mississauga, Ont.
MTD Products Canada O/P by Sehl Engineering Limited	Kitchener, Ont.	Meyer Industrial Distributors Ltd.	Waterloo, Ont.
Maddocks & Ouellette Engineering Ltd.	Guelph, Ont.	Michelin Tires (Canada) Ltd.	New Glasgow, N.S.
Magna International Inc., Hy-Prod Division	Downsview, Ont.	Micro Machine & Tool Company Ltd.	Downsview, Ont.
Magnetic Metals Ltd.	Brantford, Ont.	Milton Fasteners Limited	Milton, Ont.
Main Plumbing & Heating Supplies (Western) Ltd.	Calgary, Alta.	Mitsubishi Electronics Industries Canada Inc.	Midland, Ont.
Mainland Ind. Prod., Div. of Bow Valley Resource Service Ltd.	Richmond, B.C.	Mitsui & Co. Canada Ltd.	Toronto, Ont.
Makita Power Tools Canada Ltd.	Whitby, Ont.	Mitten Industries Limited	Cambridge-Galt, Ont.
Mallory Components Limited, Div. of Emhart Canada Limited	Woodstock, Ont.	Modu-Tronics Inc.	Scarborough, Ont.
Manchester Tank Canada Ltd.	Tillsonburg, Ont.	Molex Electronics Ltd.	Scarborough, Ont.
Mansell Engineering Ltd.	Oakville, Ont.	Montebello Metal Inc.	Hawkesbury, Ont.
Manufacture Leviton du Canada Ltée	Montréal, Qué.	Moog Canada Limited	Brampton, Ont.
		Motor Coach Industries Ltd.	Winnipeg, Man.
		Motor Wheel Corporation of Canada Limited	Chatham, Ont.



PART C: DIES FOR METALWORKING MACHINERYCanadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Moulage Sous-Pression de Lyster Ltée	Lyster, Qué.	Onward Hardware Ltd.	Kitchener, Ont.
Moyer Diebel Limited	Jordan Station, Ont.	Ormond Industrial Tools Ltd.	Hamilton, Ont.
Munro Fastenings & Textile Inc.	Etobicoke, Ont.	Otto Bock Orthopedic Industry of Canada Ltd.	Winnipeg, Man.
Murphy Industries of Canada Ltd.	Owen Sound, Ont.	Outboard Marine Corporation of Canada Ltd.	Peterborough, Ont.
NEBS Business Forms Limited	Midland, Ont.	P B M Tool Ltd.	Edmonton, Alta.
Namasco Ltd.	Windsor, Ont.	P E C Electronic Cabinets Ltd.	Pointe-Claire, Qué.
National Socket Screw Mfg. Ltd.	Beamsville, Ont.	Pacal Blades of Canada Ltd.	Edmonton, Alta.
National School Services Ltd.	Owatonna, MN, USA*	Pacer Industries	Windsor, Ont.
Neill Tools Limited	Toronto, Ont.	Pacific Hose & Fittings Ltd.	Burnaby, B.C.
Nelson Muffler Canada Inc. Div. of Nelson Industries Inc.	Stoughton, WI, USA*	Pacific Saw and Knife Ltd.	Portland, OR, USA*
New Balance Athletic Shoe Canada Inc.	Kitchener, Ont.	Parker-Hannifin (Canada) Ltd.	Grimsby, Ont.
Newcomb Spring of Canada Ltd.	Toronto, Ont.	Patience & Nicholson Canada Ltd.	Rexdale, Ont.
Newfoundland Containers Ltd.	St-John's, Nfld.	Peelco Manufacturing Limited	Oakville, Ont.
Nikka Industries Ltd.	Vancouver, B.C.	Peninsula Plumbing & Heating Supply Company Ltd.	Welland, Ont.
Noma Industries Ltd.	Scarborough, Ont.	Penmar Plumbing and Heating Supplies Ontario Ltd.	Toronto, Ont.
Noranda Metal Industries Ltd.	New Westminster, B.C.	Pennwalt Inc.	Oakville, Ont.
Norpac Equipment Sales Ltd.	Langley, B.C.	Philips-Lau Products Limited	Kitchener, Ont.
Nortel Manufacturing Ltd.	Scarborough, Ont.	Phillips Cables Ltd.	Brockville, Ont.
Northern Metallic Sales (Edm) Ltd.	Edmonton, Alta.	Pierce-All Canada Limited	Downsview, Ont.
Northern Metallic Sales (Alta) Ltd.	Grande Prairie, Alta.	Pipe Tools Supply Ltd.	Weston, Ont.
Northern Metallic Sales (Cgy) Ltd.	Calgary, Alta.	Pitney-Bowes of Canada Ltd.	Don Mills, Ont.
Northern Metallic Sales Ltd.	Dawson Creek, B.C.	Playtex Ltd.	Malton, Ont.
Northern Telecom Canada Limited	Islington, Ont.	Polysar Limited	Sarnia, Ont.
Northwood Industrial Supply Inc.	Sudbury, Ont.	Porter Precision Products	Toronto, Ont.
Notting Canada Inc.	Mississauga, Ont.	Power Press & Equipment Company Ltd.	Montréal, Qué.
Novopharm Ltd.	Scarborough, Ont.	Prairie Tool Supply Ltd.	Saskatoon, Sask.
Nu-Tech Precision Metals Inc.	Arnprior, Ont.	Precise Tool & Die Mfg. Co.	Vancouver, B.C.
Nuroc Plumbing & Heating Supplies Limited	Rexdale, Ont.	Precision Service & Engineering Ltd.	Prince Albert, Sask.
Nuton Electrical Division of Scovill Industries Limited	Cincinnati, OH, USA*	Precision Spring of Canada Ltd.	Kingsville, Ont.
O C Tanner Manufacturing Ltd.	Burlington, Ont.	Premier Fastener Ltd.	Cleveland, OH, USA*
Olin Mills Incorporated of Tennessee	Chattanooga, TN, USA*	Presstran Industries, Div. of 559300 Ontario Inc.	St-Thomas, Ont.
Oliver Industrial Supply Ltd.	Lethbridge, Alta.	Price & Markle Equipment Ltd.	Vernon, B.C.
Oliver Plumbing & Heating Company Ltd.	Brantford, Ont.	Price & Markle Industrial Supply Ltd.	Vernon, B.C.
Omark Canada Ltd.	Guélfh, Ont.	Price & Markle Trail Ltd.	Vernon, B.C.
Oneida Canada Limited	Niagara Falls, Ont.	Producto Die Makers Supplies Ltd.	Downsview, Ont.
Ontario Bus Industries Inc.	Mississauga, Ont.	Produits Métal R.M. Ltée	Montréal, Qué.
Ontor Ltd.	Toronto, Ont.	Province of Manitoba	Winnipeg, Man.

PART C: DIES FOR METALWORKING MACHINERYCanadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Prudential Steel Ltd.	Calgary, Alta.	Sabre Industrial Supplies (1977) Ltd.	Langley, B.C.
Pyroil Canada Limited	Mississauga, Ont.	Samuel Strapping Systems Limited	Mississauga, Ont.
Pyrotenax of Canada Limited	Trenton, Ont.	Sandvik Canada Inc.	Mississauga, Ont.
Québec Industrial Supply Company Ltd.	Ste-Foy, Qué.	Schlumberger Canada Limited	Mississauga, Ont.
Quest Metal Products Ltd.	Winnipeg, Man.	Schrader Automotive Products, Div. of Scovill Industries Ltd.	Don Mills, Ont.
R A Stewart (Canada) Ltd.	Scarborough, Ont.	Scorpio Marketing Group, O/B 523810 Ontario Limited	Kitchener, Ont.
Ranco Controls Canada Ltd.	Toronto, Ont.	Seaboard Industrial Supply Co. Ltd.	Glace Bay, N.S.
Rawplug Canada Limited	Weston, Ont.	Seaside Paper Products Ltd.	Richmond, B.C.
Rayco Stamping Products Limited	Windsor, Ont.	Sentrol Systems Ltd.	Downsview, Ont.
Raymond Industrial Equipment Limited	Brantford, Ont.	Service de Ceinture du Canada Inc.	Montréal, Qué.
Reed-Canada Div. of Litton Business Systems of Canada Ltd.	Mississauga, Ont.	Shakeproof, A Div. of ITW Canada Inc.	Toronto, Ont.
Reese Products of Canada Ltd.	Toronto, Ont.	Shawflex Inc.	Rexdale, Ont.
Reliance Division-Reliance Electric Ltd.	Stratford, Ont.	Sheller-Globe of Canada Ltd.	Windsor, Ont.
Resource Equipment Limited	St-Catharines, Ont.	Sheller-Globe of Canada Ltd. Steering Wheel Division	Windsor, Ont.
Rheem Canada Inc.	Hamilton, Ont.	Shop-Vac Corporation	Williamsport, PA, USA*
Rhodes Vaughan Reinforcing Ltd.	Calgary, Alta.	Sidbec Dosco Ltée	Contrecoeur, Qué.
Rich Products of Canada Ltd.	Fort Érie, Ont.	Silcofab-Division Robco Inc.	Guelph, Ont.
Richard Wilcox of Canada Ltd.	London, Ont.	Simonds Cutting Tools Division Wallace-Murray Canada Ltd.	Granby, Qué.
Rico Machine Co. Inc.	Vancouver, B.C.	Sinclair Supplies Ltd.	Edmonton, Alta.
Ringbinder & Vinyl Products (Western) Ltd.	Edmonton, Alta.	Sivaco Québec (Division de Ivaco Ltée)	Marieville, Qué.
Risha Associates Inc.	Willowdale, Ont.	Solaray (Div. of Sunbeam Corp.)	Brantford, Ont.
Robert Mitchell Inc.	Montréal, Qué.	Sommerville Belkin Industries Ltd. W L P	London, Ont.
Robertson Whitehouse Division of Procor Ltd.	Milton, Ont.	Sonoco Limited	Brantford, Ont.
Rocamora Bros. Canada, a Div. of Claibourne Ind. Ltd.	Toronto, Ont.	Sowa Tool & Machine Co. Ltd.	Kitchener, Ont.
Rockwell International of Canada Ltd.	Toronto, Ont.	Sparton Tool & Mould Ltd.	Windsor, Ont.
Rod & Wire Specialties Ltd.	Tilbury, Ont.	Speedex Mfg., a Division of Magna Intl (Canada) Inc.	Concord, Ont.
RoI Manufacturing (Canada) Ltd.	Laval, Qué.	Sprout Waldron Div. of Koppers Engineered Products Limited	Waterloo, Ont.
Rollstamp Manufacturing Limited	Richmond Hill, Ont.	Spun Steel Ltd.	Strathroy, Ont.
Rotem Industrial Products Inc.	Rexdale, Ont.	Square D Company Canada Ltd.	Waterloo, Ont.
Rotem Industrial Products Ltd.	Rexdale, Ont.	St-Clair Tool & Die Ltd.	Wallaceburg, Ont.
Royal Plastics Limited	Weston, Ont.	Stackpole Limited	Etobicoke, Ont.
S B & H Sterling Ltd.	Toronto, Ont.	Standard Tube Canada Limited	Woodstock, Ont.
S C I Coatings Limited	Cambridge, Ont.		
SKD Technologies Inc.	Amherstburg, Ont.		
SKF & Dormer Tools of Canada Ltd.	Mississauga, Ont.		
SMT-Pullmax (Canada) Ltd.	Oakville, Ont.		

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Standco Canada Limited	Concord, Ont.	Torin Mfg. (Canada) Ltd.	Torrington, CT, USA*
Stanley Canada Inc.	Windsor, Ont.	Torrington Div. Ingersoll Rand Canada Inc.	Bedford, Qué.
Stanley Door Systems Limited	Toronto, Ont.	Townsend Division of Textron Canada Ltd.	Gananoque, Ont.
Steel Company of Canada Ltd.	Edmonton, Alta.	Trakar Products Inc.	Cambridge, Ont.
Steelcase Canada Ltd.	Don Mills, Ont.	Trans Canada Pipe Lines Ltd.	Toronto, Ont.
Stelco Inc.	Hamilton, Ont.	Tree Island Steel Co. Ltd.	New Westminster, B.C.
Stemco Canada, Div. of Garlock of Canada Ltd.	Mississauga, Ont.	Tri-Sure Products Ltd.	St-Catharines, Ont.
Stevens Controls Ltd.	Renfrew, Ont.	Triad Triumph Ltd.	Rexdale, Ont.
Strongridge Limited	Brampton, Ont.	Triangle Die & Tool Company Ltd.	St-Catharines, Ont.
Sullivan Strong Scott Ltd.	Downsview, Ont.	Tridon Limited	Burlington, Ont.
Sully Castings Ltd.	Richmond Hill, Ont.	Trillium Screw Mfg. Co. Ltd.	Ajax, Ont.
Sunward Corporation	Viriden, Man.	Trim Trends Canada Ltd.	Dundalk, Ont.
Superior Machine & Tool (Chatham) Limited	Chatham, Ont.	Triplex Engineering Company Ltd.	Pointe-Claire, Qué.
Supra Key Control Ltd.	Ottawa, Ont.	Tripp-Vogt-Trottier Ltd.	Tillsonburg, Ont.
Swiss Instruments Limited	Windsor, Ont.	Triumph Tool Ltd.	London, Ont.
Tamco Limited	Windsor, Ont.	Tsubaki of Canada Limited	Mississauga, Ont.
Tate Architectural Products Inc.	Mississauga, Ont.	Tubes Solac Ltée	St-Jérôme, Qué.
Techform Products Limited	Penetanguishene, Ont.	Tunbridge Cutting Tools Ltd.	Brampton, Ont.
Techmire Ltd.	Ville-d'Anjou, Qué.	Turgeon & Jobin Ltée	Québec, Qué.
Tectrol Inc.	Downsview, Ont.	Tycos Tool & Die Division of Magna International Inc.	Concord, Ont.
Terminal Cable Inc.	Carignan, Qué.	US Amada Ltd.	Vancouver, B.C.
Testing Machines International of Canada Ltd.	Montréal, Qué.	USS Oilwell Supply Co. Ltd.	Garland, TX, USA*
The Algoma Steel Corp. Ltd.	Sault Ste-Marie, Ont.	Unimatic, a Division of Magna International (Canada) Ltd.	Weston, Ont.
The Bryan Donkin Company of Canada Ltd.	Woodstock, Ont.	Union Carbide Canada Ltd.	Toronto, Ont.
The Canada Metal Company Ltd.	Toronto, Ont.	Union Electric Supply Company Ltd.	Toronto, Ont.
The Peelle Co. Ltd.	Mississauga, Ont.	United Carr, Div. of TRW Canada Ltd.	Stoney Creek, Ont.
The Prestolite Electronics Div. of Allied Canada Inc.	Toledo, OH, USA*	Unittool Punch and Die (Canada) Ltd.	St-Catharines, Ont.
The Triangle Plumbing & Heating Supply Ltd.	Toronto, Ont.	Univac Development & Mfg., Div. Sperry Rand Canada Limited	Dorval, Qué.
The Valiant Machine & Tool Inc.	Windsor, Ont.	Universal Engravers Ltd.	Calgary, Alta.
The W S Tyler Co. of Canada Ltd.	St-Catharines, Ont.	Universal Supply Company Ltd.	Vancouver, B.C.
Therm-O-Disc (Canada) Ltd.	St-Thomas, Ont.	Upton Bradeen & James Ltd.	Don Mills, Ont.
Thomas & Betts Limited	Iberville, Qué.	Valenite Modco Ltd.	Windsor, Ont.
Thomas Skinner & Son Ltd.	Vancouver, B.C.	Valido Ltd.	Montréal, Qué.
Thomas Wire Die Limited	Burlington, Ont.	Vallance Brown & Company Ltd.	Hamilton, Ont.
Thompson Products, Division of T R W Canada Limited	St-Catharines, Ont.	Valley Forge Automotive of Canada Limited	Weston, Ont.
Thornes-Division of Thorcom Inc.	Saint John, N.B.	Vestshell Inc.	Montréal, Qué.
Tickins Industrial Products Ltd.	Toronto, Ont.	Viewstar Division of GSW Inc.	Scarborough, Ont.
Titan Tool & Die Ltd.	Windsor, Ont.	Visque Inc.	Montréal, Qué.
Toledo Scale Division Reliance Electric Limited	Mississauga, Ont.		

PART C: DIES FOR METALWORKING MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
W & A Moir Limited	Halifax, N.S.	Wilson Sports Equipment Canada Limited	Belleville, Ont.
W A Whitney of Canada Ltd.	Etobicoke, Ont.	Windsor Bumper Co., a Div. of Gulf & Western (Canada) Ltd.	Windsor, Ont.
W N White & Company Ltd.	Halifax, N.S.	Windsor Factory Supply Ltd.	Windsor, Ont.
W W Manufacturing of Canada Ltd.	Nanton, Alta.	Windsor Match Plate Ltd.	Windsor, Ont.
Wai Wai Trading Co.	Toronto, Ont.	Wing Hing Lung Company Limited	Toronto, Ont.
Walden Machinery Co. Inc.	Downsview, Ont.	Wirco Products Ltd.	London, Ont.
Walker Exhaust, Div. Tenneco Canada Inc.	Cambridge, Ont.	Wire Rope Industries Ltd.	Surrey, B.C.
Wallace Barnes Company Ltd.	Burlington, Ont.	Wm Knell & Company Ltd.	Kitchener, Ont.
Waltec Components, Div. of Waltec Inc.	Wallaceburg, Ont.	Wolverine Division UOP Ltd.	London, Ont.
Wanzl Manufacturing Inc.	Mississauga, Ont.	York Division of Borg Warner Canada Ltd.	Rexdale, Ont.
Ward Automotive Electronics of Canada Ltd.	Toronto, Ont.	Zazula Process Equipment Ltd.	Calgary, Alta.
Weidmuller Terminations Ltd.	Markham, Ont.		
Weiser Inc.	Burnaby, B.C.		
Werner Dahnz Company Limited	Toronto, Ont.		
West Bend of Canada, Div. of Dart Industries Can. Ltd.	Barrie, Ont.		
West Point Tool & Mould Inc.	Windsor, Ont.		
West-Man Culvert & Metal Co. Ltd.	Winnipeg, Man.		
Westburne Industrial Enterprises Ltd.	Montréal, Qué.		
Westcan Electrical Manufacturing Ltd.	Brantford, Ont.		
Westcott Agencies Ltd.	Winnipeg, Man.		
Western Canada Importers (Calgary) Ltd.	Calgary, Alta.		
Western Engineering Service Ltd.	Thunder Bay, Ont.		
Western Engraving Limited	Vancouver, B.C.		
Western Plumbing & Industrial Supplies Limited	London, Ont.		
Western Precision Mach. Sales	Edmonton, Alta.		
Western Star Trucks Inc.	Kelowna, B.C.		
Western Supplies Ltd.	Edmonton, Alta.		
Westinghouse Canada Limited	Hamilton, Ont.		
Westmet Stampings	Downsview, Ont.		
Westool Production Supply Ltd.	Edmonton, Alta.		
Wilkinson and Kompass Limited	Hamilton, Ont.		
William M Brennan Co. (1978) Ltd.	London, Ont.		
Williams & Wilson Limited	Montréal, Qué.		
Williams Form Hardware & Rock Bolt (Canada) Ltd.	Grand Rapids, MI, USA*		
Wilson Oilfield Supply Ltd.	Calgary, Alta.		

\* Non-resident importer



PART D

MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY (78-86)



PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY (78-86)

SCOPE

This section of the report analyses imports of products classified to the following eight commodity codes of the Canadian International Trade Classification (C.I.T.C.). All tables in this section aggregate data for the eight classes of products, unless otherwise indicated.

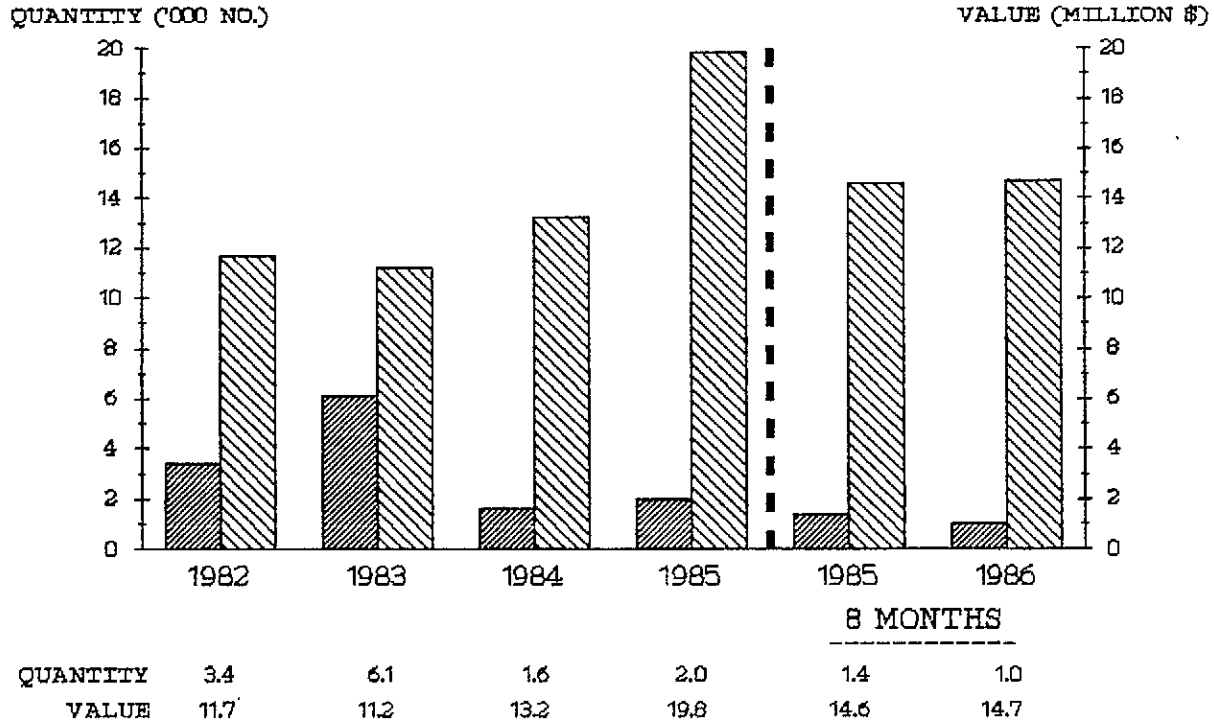
<u>CODE</u>	<u>DESCRIPTION</u>
529 47 21	MOULDS AND DIES, SCREW INJECTION MOULDING, PLASTIC
529 47 22	MOULDS AND DIES, PLUNGER MOULDING, PLASTIC
529 47 29	MOULDS AND DIES, INJECTION MOULDING, PLASTIC, NOT ELSEWHERE SPECIFIED
529 47 31	MOULDS AND DIES, EXTRUDING MACHINES, PLASTIC
529 47 41	MOULDS AND DIES, BLOW MOULDING, PLASTIC
529 47 61	MOULDS AND DIES, THERMOFORMING, PLASTIC
529 47 71	MOULDS AND DIES, FOAM MOULDING MACHINERY, PLASTIC
529 47 89	MOULDS AND DIES, PLASTICS MACHINERY, NOT ELSEWHERE SPECIFIED

NOTE: With the exception of the tables on "Import Market Concentration" and "Type and Location of the Top 30 Known Importers" (see page 69), the tables of this section do not include data on parts of moulds and dies for plastic injection moulding (529 47 28) and plastics industry machinery (529 47 88). Appendices "A" and "C", pages 70 and 72, provide additional statistical information on the imports of these products.



PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORT TRENDS: OVERVIEW



Between 1982 and 1985, the value of imports of moulds and dies for plastics industry machinery rose at an average annual rate of 19 per cent. In the first two years of that period, the value of imports declined marginally, from \$11.7 million in 1982 to \$11.2 million in 1983. However, in the last two years of the period, it experienced significant growth; it increased to \$13.2 million in 1984, and to \$19.8 million in 1985.

Due to the heterogeneity of the products, a conclusion cannot be derived from the trend in the volume of imports of moulds and dies for plastics industry machinery.

During the first eight months of 1986, the value of imports of moulds and dies grew marginally, when compared to the corresponding period of 1985. It increased from \$14.6 million in 1985 to \$14.7 million in 1986.

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

Foreign Country of Export	1982	1983	1984	1985	Unit Price 1985 \$	Average	Per cent Change 1984-1985 %	8 Month Imports Jan. to Aug.	
						Annual Growth Rate 1982-1985 %		1985	1986
<b>UNITED STATES</b>									
Quantity (No.)	1 719	5 854	1 148	1 397		-7	22	994	676
Value (\$000)	9 486	9 105	9 670	15 244	10 912	17	58	11 280	10 978
<b>ITALY</b>									
Quantity (No.)	236	74	188	301		8	60	241	114
Value (\$000)	891	751	2 064	2 310	7 674	37	12	1 566	1 422
<b>PORTUGAL</b>									
Quantity (No.)	1	7	8	21		176	163	18	35
Value (\$000)	5	86	107	449	21 381	348	320	362	729
<b>JAPAN</b>									
Quantity (No.)	6	3	3	17		42	467	16	3
Value (\$000)	68	8	180	393	23 118	79	118	360	203
<b>FEDERAL REPUBLIC OF GERMANY</b>									
Quantity (No.)	34	18	33	17		-21	-48	12	11
Value (\$000)	60	371	243	331	19 471	77	36	280	117
<b>OTHER</b>									
Quantity (No.)	1 359	98	218	212		-46	-3	133	121
Value (\$000)	1 162	842	949	1 102	5 198	-2	16	752	1 261
<b>TOTAL</b>									
Quantity (No.)	3 355	6 054	1 598	1 965		-16	23	1 414	960
Value (\$000)	11 672	11 163	13 213	19 829		19	50	14 600	14 710
Unit Price (\$)	3 479	1 844	8 268	10 091					

Between 1982 and 1985, the United States dominated the Canadian import market for moulds and dies for plastics industry machinery. Its exports represented at least 73 per cent of Canadian imports. In 1985, the U.S.A. supplied \$15.2 million, or 77 per cent, of our imports. Italy was the second largest exporter to Canada. It had 12 per cent of the import market.

During the first eight months of 1986, most of the imports of moulds and dies for plastics industry machinery came from the U.S.A. The remaining Canadian imports originated primarily in Italy and Portugal.

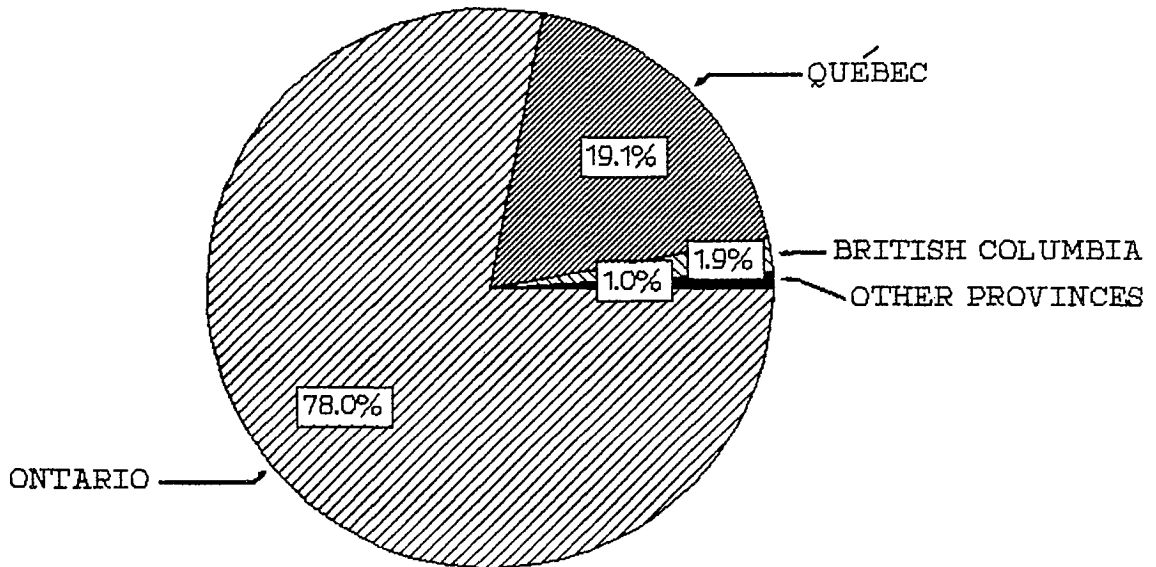
During the four-year period, the average unit price for moulds and dies for plastics industry machinery varied considerably. However, due to the lack of homogeneity of the products, a conclusion cannot be derived from a further analysis of the information on the average unit price.

Note: For further data on imports of certain types of moulds and dies for plastics industry machinery, see Appendices A, B, C, and D, pages 70-73.

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

VALUE OF IMPORTS BY PROVINCE OF CLEARANCE

1985



In 1985, the bulk of the imports of moulds and dies for plastics industry machinery entered Canada through Ontario. This province accounted for \$15.5 million, or 78.0 per cent of the imports. Another 19.1 per cent of imports were cleared through Québec. The other provinces accounted for the remaining 2.9 per cent of Canadian imports.

NOTE: For more detailed data on imports by major foreign countries of export and provinces of clearance, see Appendix F, page 75.

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORT TRENDS BY TYPE

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate	Major Country of Export		8 Month Imports	
						1982-1985 %	1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
529 47 21	Moulds and Dies, Screw Injection Moulding, Plastic						United States			
	Quantity (No.)	10	3	1	154	149			132	17
	Value (\$000)	68	16	320	791	127	612	77	470	785
529 47 22	Moulds and Dies, Plunger Moulding, Plastic						United States			
	Quantity (No.)	15	0	4	1	-59			0	3
	Value (\$000)	33	0	15	6	-43	6	100	0	17
529 47 29*	Moulds and Dies, Injection Moulding, Plastic, Not Elsewhere Specified						United States			
	Quantity (No.)	743	635	766	968	9			805	524
	Value (\$000)	5 728	6 302	8 379	11 460	26	8 754	76	9 755	9 845
529 47 31	Moulds and Dies, Extruding Machine, Plastic						United States			
	Quantity (No.)	65	43	24	31	-22			26	31
	Value (\$000)	172	500	300	665	57	519	78	443	360
529 47 41	Moulds and Dies, Blow Moulding, Plastic						United States			
	Quantity (No.)	9	5	29	29	48			14	24
	Value (\$000)	96	785	204	486	72	397	82	230	75
529 47 61	Moulds and Dies, Thermoforming, Plastic						Italy			
	Quantity (No.)	60	16	101	150	36			21	32
	Value (\$000)	375	85	480	1 341	53	913	68	545	474
529 47 71	Moulds and Dies, Foam Moulding Machinery, Plastic						United States			
	Quantity (No.)	153	292	358	365	34			241	208
	Value (\$000)	437	1 838	1 756	2 147	70	2 013	94	1 475	1 486

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORT TRENDS BY TYPE (Continued)

C.I.T.C. Commodity Code	Description	1982	1983	1984	1985	Average Annual Growth Rate 1982-1985 %	Major Country of Export		8 Month Imports	
							1985 Value (\$000)	Per Cent of Total %	Jan. to Aug. 1985	1986
529 47 89**	Moulds and Dies, Plastics Machinery, Not Elsewhere Specified						United States			
	Quantity (No.)	2 300	5 060	315	267	-51			175	121
	Value (\$000)	4 763	1 637	1 759	2 933	-15	2 515	86	1 682	1 668
TOTAL							United States			
	Quantity (No.)	3 355	6 054	1 598	1 965	-16			1 414	960
	Value (\$000)	11 672	11 163	13 213	19 829	19	15 244	77	14 600	14 710

\* For additional information see Appendix B, Page 71.

\*\* For additional information see Appendix D, Page 73.

Between 1982 and 1985, the largest product category was moulds and dies for plastic injection moulding, not elsewhere specified (C.I.T.C. 529 47 29). During the period, imports of these products increased from \$5.7 million to \$11.5 million. In 1985, these imports accounted for 58 per cent of the imports of moulds and dies for plastics industry machinery.

In 1985, the United States was the principal exporter to Canada in all categories of imports, except for moulds and dies for machinery for plastic thermoforming (529 47 61). The United States had at least 76 per cent of the Canadian import market for products in the categories in which it was the leading exporter. Italy supplied 68 per cent of the Canadian imports of moulds and dies for machinery for plastic thermoforming.

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORT MARKET CONCENTRATION  
(BY % OF TOTAL 1985 VALUE)

MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY, AND PARTS

<u>Top 5 Importers</u>	<u>Top 10 Importers</u>	<u>Top 20 Importers</u>	<u>Top 30 Importers</u>
32	48	65	73

In 1985, the 10 major importers of moulds and dies for plastics industry machinery, and parts, accounted for \$16.6 million, or 48 per cent of the value of imports. Nine of these 10 major importers were manufacturers, inter alia, of special dies and tools, die sets, jigs and fixtures, and industrial moulds. Eight companies were located in Ontario.

NOTE: "Top importers" are the known importers with the largest imports by value in 1985.

TYPE AND LOCATION OF THE TOP 30 KNOWN IMPORTERS - 1985  
(73% OF TOTAL IMPORT VALUE)

MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY, AND PARTS

	<u>MANUFACTURERS</u>	<u>OTHER(1)</u>	<u>TOTAL</u>	
	<u>No. of Importers</u>	<u>No. of Importers</u>	<u>No. of Importers</u>	<u>Value (\$000)</u>
Ontario	23	2	25	22 531
Québec	5	-	5	2 697
Western Provinces	-	-	-	-
Atlantic Provinces	-	-	-	-
<hr/> TOTAL	28	2	30	25 228

Per cent of 1985 total value 73%

(1) Includes one non-resident and one unidentified importer

In 1985, there were 321 known importers of dies and moulds for plastics industry machinery, and parts, whose imports totalled \$34.7 million. The top 30 importers accounted for 73 per cent of the value of imports. Twenty-eight of these 30 major importers were manufacturers. Eight of these manufacturers were engaged in the production of special dies and tools, die sets, jigs and fixtures, and industrial moulds; their imports totalled \$11 million, or 32 per cent of the value of imports. Another eight of the companies, which were engaged in the manufacture of plastic products, had 16 per cent of the imports.

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PARTS OF INJECTION MOULDING MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

(C.I.T.C. 529 47 28)

Foreign Country of Export	1982	1983	1984	1985	Average	Per cent	8 Month	
					Annual Growth Rate 1982-1985 %	Change 1984-1985 %	Imports Jan. to Aug. 1985	1986
UNITED STATES Value (\$000)	5 689	8 165	9 630	8 219	13	-15	5 910	3 383
FEDERAL REPUBLIC OF GERMANY Value (\$000)	0	4	37	176	N/A	376	111	195
UNITED KINGDOM Value (\$000)	135	220	358	151	4	-58	84	27
FRANCE Value (\$000)	0	0	155	56	N/A	-64	22	14
ITALY Value (\$000)	0	2	55	56	N/A	2	23	51
OTHER Value (\$000)	66	87	99	6	-55	-94	0	171
<b>TOTAL</b> Value (\$000)	5 890	8 478	10 334	8 664	14	-16	6 149	3 841

N/A - Not applicable

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PLASTIC INJECTION MOULDING MOULDS AND DIES, NOT ELSEWHERE SPECIFIED

(C.I.T.C. 529 47 29)

Foreign Country of Export	1982	1983	1984	1985	Unit Price 1985 \$	Average	Per cent Change 1984-1985 %	8 Month Imports Jan. to Aug.	
						Growth Rate 1982-1985 %		1985	1986
<b>UNITED STATES</b>									
Quantity (No.)	570	495	411	509		-4	24	431	318
Value (\$000)	4 729	5 152	5,507	8 754	17 198	23	59	7 483	7 261
<b>ITALY</b>									
Quantity (No.)	109	48	152	257		33	69	223	108
Value (\$000)	634	423	1 791	1 181	4 595	23	-34	1 026	1 130
<b>PORTUGAL</b>									
Quantity (No.)	1	7	8	21		176	163	18	28
Value (\$000)	5	86	107	449	21 381	348	320	362	679
<b>FRANCE</b>									
Quantity (No.)	4	26	57	36		108	-37	36	0
Value (\$000)	10	138	293	251	6 972	193	-14	251	0
<b>TAIWAN</b>									
Quantity (No.)	0	0	33	72		N/A	118	42	17
Value (\$000)	0	0	78	228	3 167	N/A	192	120	130
<b>OTHER</b>									
Quantity (No.)	59	59	105	73		7	-30	55	53
Value (\$000)	346	503	603	597	8 178	20	-1	513	645
<b>TOTAL</b>									
Quantity (No.)	743	635	766	968		9	26	805	524
Value (\$000)	5 728	6 302	8 379	11 460		26	37	9 755	9 845
Unit Price (\$)	7 709	9 924	10 939	11 839					

N/A - Not applicable



PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PARTS OF MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

(C.I.T.C. 529 47 88)

<u>Foreign Country of Export</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>Average</u>	<u>Per cent</u>	<u>8 Month</u>	
					<u>Annual</u>	<u>Change</u>	<u>Imports</u>	
					<u>Growth Rate</u>	<u>1984-1985</u>	<u>Jan. to Aug.</u>	<u>1986</u>
					<u>1982-1985</u>	<u>1984-1985</u>	<u>1985</u>	<u>1986</u>
					<u>%</u>	<u>%</u>		
UNITED STATES Value (\$000)	1 211	1 382	2 339	5 767	68	147	2 879	4 952
ITALY Value (\$000)	7	2	55	186	198	238	3	168
FEDERAL REPUBLIC OF GERMANY Value (\$000)	8	23	64	124	149	94	84	23
PORTUGAL Value (\$000)	0	0	0	29	N/A	N/A	0	0
REPUBLIC OF KOREA Value (\$000)	0	0	0	29	N/A	N/A	0	0
OTHER Value (\$000)	122	88	57	52	-25	-9	18	37
TOTAL Value (\$000)	1 348	1 495	2 515	6 187	66	146	2 984	5 180

N/A - Not applicable

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY, NOT ELSEWHERE SPECIFIED

(C.I.T.C. 529 47 89)

Foreign Country of Export	1982	1983	1984	1985	Unit Price 1985 \$	Average	Per cent Change 1984-1985 %	8 Month Imports Jan. to Aug.	
						Annual Growth Rate 1982-1985 %		1985	1986
<b>UNITED STATES</b>									
Quantity (No.)	910	5 022	269	233		-37	-13	155	109
Value (\$000)	3 771	1 132	1 330	2 515	10 794	-13	89	1 435	1 388
<b>JAPAN</b>									
Quantity (No.)	0	0	3	8		N/A	167	7	3
Value (\$000)	0	0	180	193	24 125	N/A	7	160	203
<b>UNITED KINGDOM</b>									
Quantity (No.)	1 200	3	1	10		-80	900	6	3
Value (\$000)	17	5	2	76	7 600	65	3 700	62	30
<b>DENMARK</b>									
Quantity (No.)	14	5	1	3		-40	200	0	0
Value (\$000)	316	90	26	73	24 333	-39	181	0	0
<b>FEDERAL REPUBLIC OF GERMANY</b>									
Quantity (No.)	13	0	0	6		-23	N/A	1	1
Value (\$000)	12	0	0	61	10 167	72	N/A	10	19
<b>OTHER</b>									
Quantity (No.)	163	30	41	7		-65	-83	6	5
Value (\$000)	647	410	221	15	2 143	-71	-93	15	28
<b>TOTAL</b>									
Quantity (No.)	2 300	5 060	315	267		-51	-15	175	121
Value (\$000)	4 763	1 637	1 759	2 933		-15	67	1 682	1 668
Unit Price (\$)	2 071	324	5 584	10 985					

N/A - Not applicable

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

CANADIAN TARIFFS, 1985

Tariff Item	Description	% of Total Import Value (1985)	TARIFF TREATMENT				U.K. and Ireland
			British Preferential Tariff	Most Favoured Nation Tariff	General Tariff	General Preferential Tariff	
			%	%	%	%	%
42700-01	Machines, n.o.p., and accessories, attachments, control equipment and tools for use therewith; parts of the foregoing	90	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2
42700-04	Control equipment and tools for use with the goods enumerated in tariff item 42700-07, not included in the original complement of the parent machines when initially imported, including collets, tracing attachments, milling heads and single tool boring heads, live centers, machine spindles, dies, jigs, fixtures, moulds and tooling	6	2.5	10.7	35	2.5	9.2
	January 1, 1986		2.5	9.9	35	2.5	9.2
	January 1, 1987		2.5	9.2	35	2.5	9.2

N.o.p. - Not otherwise provided for

Tariff Arrangements and Foreign Countries of Export:

COUNTRIES WHICH BENEFIT FROM THE MOST FAVOURED NATION TARIFF TREATMENT: UNITED STATES, ITALY, JAPAN, PORTUGAL, FEDERAL REPUBLIC OF GERMANY

ENQUIRIES CONCERNING TARIFFS SHOULD BE DIRECTED TO THE NEAREST CUSTOMS AND EXCISE OFFICE OR TO:

TARIFF PROGRAMS  
 REVENUE CANADA  
 CUSTOMS AND EXCISE  
 OTTAWA, ONTARIO  
 K1A 0L5  
 TEL: (613) 995-2989

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT AND PROVINCE OF CLEARANCE

1985

<u>Foreign Country of Export</u>	<u>CANADA</u>	<u>NFLD</u>	<u>P.E.I.</u>	<u>N.S.</u>	<u>N.B.</u>	<u>QUÉ</u>	<u>ONT</u>	<u>MAN</u>	<u>SASK</u>	<u>ALTA</u>	<u>B.C.</u>
<b>UNITED STATES</b>											
Quantity (No.)	1 397	0	0	2	0	249	980	12	1	117	36
Value (\$000)	15 244	0	0	8	0	1 621	13 306	83	2	26	196
<b>ITALY</b>											
Quantity (No.)	301	0	0	0	0	213	85	0	0	0	3
Value (\$000)	2 310	0	0	0	0	1 428	818	0	0	0	65
<b>PORTUGAL</b>											
Quantity (No.)	21	0	0	0	0	0	21	0	0	0	0
Value (\$000)	449	0	0	0	0	0	449	0	0	0	0
<b>JAPAN</b>											
Quantity (No.)	17	0	0	0	0	0	15	0	0	0	2
Value (\$000)	393	0	0	0	0	0	329	0	0	0	64
<b>FEDERAL REPUBLIC OF GERMANY</b>											
Quantity (No.)	17	0	0	0	0	9	8	0	0	0	0
Value (\$000)	331	0	0	0	0	264	67	0	0	0	0
<b>OTHER</b>											
Quantity (No.)	212	0	0	11	0	107	82	0	0	0	12
Value (\$000)	1 102	0	0	82	0	466	503	0	0	0	52
<b>TOTAL</b>											
Quantity (No.)	1 965	0	0	13	0	578	1 191	12	1	117	53
Value (\$000)	19 829	0	0	90	0	3 779	15 472	83	2	26	377

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

CANADIAN IMPORTERS

Importers of moulds and dies for plastics industry machinery during 1985, as indicated in this report, are listed below in alphabetical order. This list includes all importers except shipments to individuals and a minimal number of importers whose names were not available.

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
450500 Ontario Ltd.	Windsor, Ont.	Centoco Manufacturing Ltd.	Tilbury, Ont.
A C O Assmann of Canada Ltd.	Pickering, Ont.	Century Products Ltd.	Montréal, Qué.
A M F Canada Limited	Guelph, Ont.	Chesebrough-Ponds (Canada) Inc.	Markham, Ont.
A M P of Canada Ltd.	Markham, Ont.	Cinram Ltd.	Scarborough, Ont.
Aar-Kel Moulds Limited	Wallaceburg, Ont.	Clairol Canada Div. of Bristol Myers	Knowlton, Qué.
Able Plastics Limited	Brampton, Ont.	Coleco (Canada) Ltée	Montréal, Qué.
Accurate Mould Company Ltd.	Rexdale, Ont.	Collins & Aikman Inc.	Farnham, Qué.
Active Mould & Design (1977) Ltd.	Windsor, Ont.	Comptec International Ltd.	Burnaby, B.C.
Almag Aluminum & Magnesium Ltd.	Brampton, Ont.	Coni Marble Manufacturing Limited	Thorndale, Ont.
Almax Industries Limited	Lindsay, Ont.	Consumers Glass Company Ltd.	Etobicoke, Ont.
Amnicon Corporation	Downsview, Ont.	Consumers Imco Inc.	Mississauga, Ont.
Aqua Can Ltd.	Waterloo, Ont.	Contempra Mold Windsor Inc.	Lasalle, Ont.
B P J O Radiator Plastics Ltd.	Debert, N.S.	Continental Agencies O/B R Solom Co. Limited	Concord, Ont.
Bach-Simpson Co. Ltd.	London, Ont.	Continental Heel Limited	Waterloo, Ont.
Bard Canada Inc.	Mississauga, Ont.	Cope & Gurr Machinery Company Ltd.	Windsor, Ont.
Battenfeld Canada Limited	Mississauga, Ont.	Correpro F A P Québec Ltd.	St-Laurent, Qué.
Beckers Lay-Tech Inc.	Kitchener, Ont.	Crown Flexpak Limited	Richmond, B.C.
Becton Dickinson Canada Inc.	Mississauga, Ont.	Curwood Packaging (Canada) Limited	Georgetown, Ont.
Bernard Mould Ltd.	Windsor, Ont.	D A F Plastics Ltd.	Windsor, Ont.
Berol Inc.	St-Lambert, Qué.	D G M Dominion General Manufacturing Ltd.	Rexdale, Ont.
Bestway Kitchens Ltd.	Agincourt, Ont.	D M E of Canada Ltd.	Mississauga, Ont.
Beverage Services Ltd.	Winnipeg, Man.	D R G Packaging Inc.	Toronto, Ont.
Bic Inc.	Downsview, Ont.	Davidson Rubber Co. Limited	Port Hope, Ont.
Binder Tool & Mold Inc.	Windsor, Ont.	Dayton Superior Canada Ltd.	Montréal, Qué.
Black & Decker Canada Inc.	Brockville, Ont.	Department of National Defence	Ottawa, Ont.
Bonar Rosedale Western Ltd.	Winnipeg, Man.	Dero Enterprises Ltd.	Montréal, Qué.
Brampton Engineering Co. Ltd.	Kitchener, Ont.	Dicon Systems Limited	Weston, Ont.
Build-A-Mold Ltd.	Windsor, Ont.	Diemould Service Co. Ltd.	Scarborough, Ont.
Building Products of Canada Ltd.	Lachine, Qué.	Donglas Inc.	Mississauga, Ont.
Button Man Limited	St-Catharines, Ont.	Dominion Automotive Industries Inc.	Toronto, Ont.
C V L Products Ltd.	Thorold, Ont.	Donlee Plastics	Toronto, Ont.
Camoplast Inc.	Kingsbury, Qué.	Dow Chemical Canada Inc.	Sarnia, Ont.
Can-Am Containers Limited	Springhill, N.S.	Drossbach North America	Mississauga, Ont.
Canadian General Electric Co. Ltd.	Toronto, Ont.	Duchesne & Fils Limitée	Yamachiche, Qué.
Capilano Plastics Co. Ltd.	New Westminster, B.C.	Dupont Canada Inc.	Mississauga, Ont.
Carl Austin & Co. Ltd.	Bobcaygeon, Ont.		
Carrière Technical Industries Ltd.	Scarborough, Ont.		
Cash Mould & Castings Limited	Delaware, Ont.		
Cavalier Tool & Mfg. Ltd.	Windsor, Ont.		
Center Tool & Mold Company Ltd.	Windsor, Ont.		

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Dynacast, Div. of J P Coats (Canada) Inc.	Lachine, Qué.	Hoover Universal of Canada, Div. Hoover Ball & Bearing Can.	Tillsonburg, Ont.
E R Squibb & Sons Ltd.	St-Laurent, Qué.	Hupp Canada-Manufacture WCI Limitée	L'Assomption, Qué.
Eilers Products Ltd.	Paris, Ont.	Husky Injection Molding Systems Ltd.	Bolton, Ont.
Eldon Industries of Canada Inc.	Markham, Ont.	Hydro Rain-Rain Jet Mfg. Co. (Canada) Ltd.	Edmonton, Alta.
Electrolux Canada, Div. of Sara Lee Ltd. of Canada	Montréal, Qué.	Hymopack Ltd./Ltée	Toronto, Ont.
En-Plas Inc.	Scarborough, Ont.	I B M Canada Ltd.	Markham, Ont.
Endre Tool & Mold Co. Ltd.	Windsor, Ont.	I P L Inc.	St-Damien, Qué.
Erico Incorporated	Cleveland, OH, USA*	I T T Industries of Canada Ltd.	Toronto, Ont.
Essex International Canada Ltd.	St-Thomas, Ont.	Ideal Mold Corporation Ltd.	Windsor, Ont.
Ethyl Packaging Products Limited	Scarborough, Ont.	Industries Griffin International Inc.	Roxton Pond, Qué.
Ethyl Packing Limited	Richmond Hill, Ont.	Industries Rehau Inc.	Montréal, Qué.
Evenflo Canada, a Div. of Spalding & Evenflo Canada Inc.	Brantford, Ont.	Inglis Limited	Mississauga, Ont.
Express Plastic Containers Ltd.	Mississauga, Ont.	Integrated Plastics Limited	Agincourt, Ont.
Express Yachting Ltd.	Midland, Ont.	Intergraphics Decal Ltd.	Winnipeg, Man.
Extrusions de Plastiques G M	Granby, Qué.	Irvin Industries Canada Ltd.	Fort Erie, Ont.
F A G Bearings Ltd.	Stratford, Ont.	Irwin Toy Limited	Toronto, Ont.
F B K Bio Polymedics Inc.	Scarborough, Ont.	J & S Precision Ltd.	Rexdale, Ont.
Fabricated Plastics Wholesale (Ontario) Ltd.	Maple, Ont.	J M Huber Corporation	Edison, NJ, USA*
Fernand Bélanger Ltée	Pointe-aux-Trembles, Qué.	Jacmorr Manufacturing Co. Ltd.	Kitchener, Ont.
Fibracan Inc.	Laval, Qué.	John Thomas Batts Ltd.	Ville-Lasalle, Qué.
Fleet Industries, a Div. of Ronyx Corporation Limited	Fort Erie, Ont.	Jouets Ritvik Toys Inc.	Dorval, Qué.
Flyer Industries Limited	Winnipeg, Man.	K T S Moulds Supply Limited	Rexdale, Ont.
Footwear Fashions Limited	London, Ont.	Karhu Titan Canada Ltée	Cowansville, Qué.
G N Plastics Company Limited	Chester, N.S.	Kaufman Footwear, Div. of William H Kaufman Inc.	Kitchener, Ont.
Gall Construction Limited	Kitchener, Ont.	Kaufman of Collingwood the Furn. Div. of W H Kaufman Inc.	Kitchener, Ont.
Gamebridge Inc.	St-Jérôme, Qué.	Kee Industrial Products Ltd.	Concord, Ont.
General Motors of Canada Ltd.	Oshawa, Ont.	Keeprite Inc.	Brantford, Ont.
Glenn S. Woolley & Company Ltd.	Toronto, Ont.	L G Balfour Company of Canada Limited	Sherbrooke Qué.
Godiva Pattern and Mould Ltd.	Weston, Ont.	L O F Glass of Canada Ltd.	Collingwood, Ont.
Golden Record Manufacturing Limited	Scarborough, Ont.	La Couronne de Mariée Bridal Style Inc.	Downsview, Ont.
Greb Industries Div. of Warrington Products Ltd.	Mississauga, Ont.	Labelad O/B Marnlen Management Ltd.	Markham, Ont.
Greif Containers Inc.	Niagara Falls, Ont.	Lamko Tool & Mold Inc.	London, Ont.
Hallmark Tools Ltd.	Windsor, Ont.	Lander Co. Canada Limited	Agincourt, Ont.
Hasbro Industries (Canada) Ltd.	Longueuil, Qué.	Landmark Imports Limited	Weston, Ont.
Hazel Manufacturing Co. Limited	Mississauga, Ont.	Laval Tool & Mould Ltd.	Maidstone, Ont.
Hercules Canada Inc.	Mississauga, Ont.	Leco Industries Limited	Rexdale, Ont.
Hewko Tool & Mold Ltd.	Oldcastle, Ont.	Leecraft Industries Ltd.	Scarborough, Ont.
Homeshield Industries Ltd.	Bramalea, Ont.		

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Leigh Metal Products Ltd.	London, Ont.	Noma Industries Ltd.	Scarborough, Ont.
Les Emballages Polyform Inc.	Granby, Qué.	Norceram Inc.	Ingleside, Ont.
Les Fonderies Shellcast Inc.	Montréal, Qué.	Northern Telecom Canada Limited	Islington, Ont.
Les Industries National Pro Inc.	Boucherville, Qué.	Nu-De11 Plastics of Canada Limited	Downsview, Ont.
Les Industries Sanyo Canada	Montréal, Qué.	Omega Tool Ltd.	Oldcastle, Ont.
Les Industries Wedco Ltée	Boucherville, Qué.	Ontario Rubber Company Ltd.	Rexdale, Ont.
Les Industries de Moules et Plastiques V I F Ltée	Montréal, Qué.	P P D Hercules Inc.	Sherbrooke, Qué.
Les Souliers Feuilles d'Érable Ltée	Chomedey, Qué.	P V Trim Limited	Mississauga, Ont.
Lily Cups Inc.	Scarborough, Ont.	Pacer Industries Inc.	Windsor, Ont.
Linear Technology Inc.	Burlington, Ont.	Packaging Equipment Service Limited	Don Mills, Ont.
Living Marble Products Ltd.	Surrey, B.C.	Paragon Tools Co Op by North American Plastics Co. Ltd.	Windsor, Ont.
Lyn-Pro-Marble 1980 Inc.	Lachenaie, Qué.	Paramount Industries, Div. of Donlee Mfg. Ind. Ltd.	Weston, Ont.
Mallory Components Limited, Div. of Emhart Canada Limited	Woodstock, Ont.	Parker Brothers, Division of General Mills Ltd.	Concord, Ont.
Manac Management (1981) Ltd.	Scarborough, Ont.	Patrick Plastics Inc.	Weston, Ont.
Manufacture Leviton du Canada Ltée	Montréal, Qué.	Pebra Inc.	Kitchener, Ont.
Maronyx Inc.	St-Lambert, Qué.	Peelco Manufacturing Limited	Oakville, Ont.
Mastico Industries Ltd.	Tillsonburg, Ont.	Peerless Cascade Plastics Ltd.	Windsor, Ont.
Matco Manufacturing Inc.	Montréal, Qué.	Pelican International Inc.	Fabreville, Qué.
Matsushita Industrial Canada Limited	Toronto, Ont.	Phillips Tool & Mould (London) Ltd.	London, Ont.
Mattel Canada Inc.	Toronto, Ont.	Phoenix Biomedical Products Inc.	Mississauga, Ont.
Melkit Marketing, Division of Mitsubishi Electric Sales Can	Waterloo, Ont.	Plastic C M P Ltd.	Bowmanville, Ont.
Mennen Canada Inc.	Mississauga, Ont.	Plasticap Ltd.	Toronto, Ont.
Metric Mold (1983) Inc.	Oldcastle, Ont.	Plastiflex/Spiralock Canada Inc.	Mississauga, Ont.
Milton Bradley Canada Inc.	Mississauga, Ont.	Playtex Ltd.	Malton, Ont.
Mitel Corp.	Renfrew, Ont.	Plough Canada Inc.	Malton, Ont.
Modern Mold Limited	Windsor, Ont.	Polar Plastique Ltée	St-Laurent, Qué.
Mold-Masters Ltd.	Georgetown, Ont.	Poly-Cello Limited	Saint John, N.B.
Moldex Limited	Barrie, Ont.	Polymos Inc.	Vaudreuil, Qué.
Monarch Plastics Limited	Bramalea, Ont.	Pooltechnology (1982) Ltd.	Burlington, Ont.
Montréal Milling Cutter Co. Inc.	Laval, Qué.	Pratt and Whitney Canada Inc.	Longueuil, Qué.
Morval-Durofoam Ltd.	Kitchener, Ont.	Preciform Inc.	Laval, Qué.
Moulders Supply Limited	Downsview, Ont.	Prelude Manufacturing Ltd.	Windsor, Ont.
Mountain Plastic & Packaging Ltd.	Calgary, Alta.	Produits Plastiques Jay Inc.	Montréal, Qué.
Multi Fittings Ltd.	London, Ont.	Progress Plastics & Compounds Inc.	Mississauga, Ont.
Mylar 2 Mold Ltd.	Wallaceburg, Ont.	Progressive Moulded Products (Downsview) Ltd.	Downsview, Ont.
Mylec Canada Ltd.	Dorval, Qué.	Redoe Mold Company Limited	Windsor, Ont.
National Business Systems Inc.	Mississauga, Ont.	Reflexite Canada Inc.	Mississauga, Ont.
National Rubber Co. a Division of The Allen Group Canada Ltd.	Toronto, Ont.	Regal Tool & Mould Ltd.	Windsor, Ont.
National Sample Card Company Ltd.	Montréal, Qué.	René Fibre de Verre Ltée	St-Ephrem, Qué.

PART D: MOULDS AND DIES FOR PLASTICS INDUSTRY MACHINERY

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Rex Tool & Mold Limited	Windsor, Ont.	Tools Division of I T L Industries Ltd.	Windsor, Ont.
Rieke Canada Limited	Brampton, Ont.	Top Grade Machining Limited	Mississauga, Ont.
Risdon Cosmetic Containers Inc.	Barrie, Ont.	Toronto Plastics Ltd.	Scarborough, Ont.
Rubbermaid Canada Inc.	Mississauga, Ont.	Travenol Canada Inc.	Mississauga, Ont.
S & H Fabricating of Canada Inc.	Cambridge, Ont.	Trio Tool & Mold Ltd.	Windsor, Ont.
S B & H Sterling Ltd.	Toronto, Ont.	Tupperware Home Parties Div. of Dart Industries of Canada Ltd.	Downsview, Ont.
S C Johnson & Son Limited	Brantford, Ont.	Turbon Plastics Inc.	Port Dover, Ont.
Samsonite Div. of Beatrice International (Canada) Ltd.	Stratford, Ont.	Twin Hills Ceramics Ltd.	Richmond Hill, Ont.
Samtec Mould Incorporated	Windsor, Ont.	Tycos Tool & Die Division of Magna International Inc.	Concord, Ont.
Sanco Plastics Ltd.	Surrey, B.C.	Tye Sil Corp. Ltd.	Montréal, Qué.
Sani-Marc Inc.	Victoriaville, Qué.	Union Carbide Canada Ltd.	Toronto, Ont.
Scepter Manufacturing Company Limited	Don Mills, Ont.	Unique Tool & Gauge Inc.	Windsor, Ont.
Schlegel Canada Inc.	Oakville, Ont.	Unlimited Textures Ltd.	Buffalo, NY, USA*
Serico Decal Inc.	Drummondville, Qué.	Vac Form Plastic Inc.	Brantford, Ont.
Seville Holdings Limited	Aylmer, Ont.	Vacuum Platers Inc.	Montréal, Qué.
Sheller-Globe of Canada Ltd.	Windsor, Ont.	Vinaflex Canada Limited	Hamilton, Ont.
Shermag Inc.	Sherbrooke, Qué.	Vintex Inc. (Québec)	Brampton, Ont.
Silcofab-Division Robco Inc.	Guelph, Ont.	W Braun Packaging Canada Ltd.	Markham, Ont.
Skis Rossignol Canada Ltée	Montréal, Qué.	W M Tool Company Ltd.	Windsor, Ont.
Solaray (Div. of Sunbeam Corp.)	Brantford, Ont.	Warners Division of Warnaco of Canada Ltd.	Ottawa, Ont.
Sommerville Belkin Industries Ltd.	London, Ont.	Water Conditioning Canada Limited	Regina, Sask.
Speedex Mfg., a Division of Magna Int'l (Canada) Inc.	Concord, Ont.	Waterville Cellular Products Ltd.	Waterville, Qué.
Sport Maska Inc.	St-Hyacinthe, Qué.	Weber Tool & Mold Divison of Weber Mfg. Ltd.	Midland, Ont.
St Clair Tool & Die Ltd.	Wallaceburg, Ont.	Wentworth Mould & Die Company Ltd.	Hamilton, Ont.
Standard Products (Canada) Ltd.	Stratford, Ont.	Western Gel Coat Manufacturers Ltd.	Islington, Ont.
Standex Intl Corp. O/A Mold-Tech	Windsor, Ont.	Weston Appliances	Weston, Ont.
Staroba Plastic & Metal Products Limited	Downsview, Ont.	Westra (1969) Ltd.	Montréal, Qué.
Stoffel Seals of Canada Ltd.	Brampton, Ont.	Will Binder Mold Ltd.	Oldcastle, Ont.
Sullivan Strong Scott Ltd.	Downsview, Ont.	Windsor Match Plate Ltd.	Windsor, Ont.
Sunbeam Corporation (Canada) Ltd.	Toronto, Ont.	Windsor Mold Inc.	Windsor, Ont.
T W Kutter Limited	Avon, MA, USA*	Windsor Plastic Prod Ltd.	Windsor, Ont.
Techmire Ltd.	Ville d'Anjou, Qué.	Wings Mould Canada Limited	Richmond, B.C.
Technical Industries Ltd.	Brantford, Ont.	Woodhead Industries (Canada) Ltd.	Mississauga, Ont.
Techno Polymère Inc.	Longueuil, Qué.	Xerox Canada Inc.	Don Mills, Ont.
The Complax Corporation	Cobourg, Ont.	Y K K Canada Inc.	St-Laurent, Qué.
The Prestolite Electronics Div. of Allied Canada Inc.	Toledo, OH, USA*	Yule-Hyde Associates Ltd.	Concord, Ont.
The Valiant Machine & Tool Inc.	Windsor, Ont.	Zettel Manufacturing Limited	Kitchener, Ont.
The Woodbridge Foam Corporation	Rexdale, Ont.		
Thermo-O-Disc (Canada) Ltd.	St-Thomas, Ont.		

\*Non-resident importer



DRIE REGIONAL OFFICES

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