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MARKET INTELLIGENCE

MACHINE SCREWS OF IRON OR STEEL

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MACHINE SCREWS OF IRON OR STEEL

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REFERENCE SOURCES

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Statistics Canada, Tel.: (613) 951-9647
Revenue Canada, Tel.: (613) 954-6927
U.S. Department of Commerce,
Bureau of the Census,
Tel.: (301) 763-7754

EXPLANATORY NOTES

Commodity Classification

Canadian Trade statistics are classified and published according to the International Convention on the Harmonized Commodity and Description Coding System (H.S.), as defined by the Canadian Customs Tariff and Statistical Nomenclature.

Valuation

For Customs purposes, imports are recorded at values established according to the provisions of the Customs Act, which, since January 1, 1985, reflects valuation methods based on the General Agreement on Tariffs and Trade (GATT) Valuation Code System. It generally requires the value for duty of imported goods be equivalent to the transaction value or the price actually paid or payable provided that a number of conditions are met. One of the important conditions is that the buyer and seller must be independent of each other. If the conditions are not met, practical rules are used to determine the Customs value. Therefore, Canadian imports are valued Free on Board (F.O.B.), place of direct shipment to Canada. The Customs value excludes freight and insurance costs in bringing the goods to Canada from the point of direct shipment. Canadian exports to the U.S. are valued F.O.B. point of exit from Canada. Prior to 1990, they were valued F.O.B. place of lading net of freight charges, discounts and allowances.

Rounding

Figures may not add due to rounding.

Canada - U.S. Exchange Rate

The Bank of Canada exchange rates were used to convert U.S. imports reported in \$US to \$Cdn.

Canada - U.S. Reconciliation

Prior to 1989, United States commodity coding was based on the Tariff Schedule of the United States (TSUSA) and comparable data are not available. Starting in January 1989, the Harmonized Commodity Description and Coding System (H.S.) was adopted by the United States. However, Canada and the United States have been exchanging import data only since January 1990 and therefore there may be discrepancies in 1989 between Canadian exports to the United States and United States imports from Canada. As of January 1990, any discrepancy between what Canada reports as exports to the United States and what the United States reports as imports from Canada is minimal resulting from exchange rates.

Abbreviations

BPT - British Preferential Tariff

TABLE OF CONTENTS

	PAGE
INTRODUCTION AND SCOPE	5
CANADIAN IMPORT TRENDS	6
SUMMARY	6
BY MAJOR COUNTRY OF ORIGIN	7
BY PROVINCE OF CLEARANCE	9
CANADIAN IMPORTERS	11
FOREIGN EXPORTERS TO CANADA	14
CANADIAN SHIPMENTS	34
CANADIAN EXPORTS BY MAJOR COUNTRY OF DESTINATION	35
CANADIAN SUPPLIERS	36
UNITED STATES IMPORTS	39
BY MAJOR COUNTRY OF ORIGIN	39
BY CUSTOMS DISTRICT OF ENTRY	41
TARIFFS	43
CANADIAN	43
UNITED STATES	44
MARKET OVERVIEW	45
dISTCoverY - TECHNOLOGY LICENSING OPPORTUNITIES	46



MACHINE SCREWS OF IRON OR STEEL

INTRODUCTION AND SCOPE

This is one of a continuing series of market intelligence reports designed to increase business awareness of the potential existing for production in Canada and to assist businesses and other organizations in their market research of specific products. The detailed information provided in these reports supports studies by organizations seeking to expand existing production lines, change individual product characteristics or engage in new manufacturing investment in Canada. The coverage of a market intelligence report is developed in close consultation with the client, and is tailored to meet their specific requirements. It is important to emphasize that this report does not attempt any assessment as to the feasibility of competing in a particular market.

This report is based on data from several sources. The following is a list of Harmonized System (H.S.) import commodity codes dealing with screws. This report deals only with machine screws (H.S. 7318.15.00.21 and 7318.15.00.29). Other related reports are also listed.

<u>Description</u>	<u>H.S. Commodity Codes Analyzed</u>	<u>Related Reports Pub. Nos.</u>	<u>1991 Import Value (\$000)</u>
Other screws and bolts, whether or not with their nuts or washers, iron or steel			
Cap screws (H.S. 7318.15.00.11, 7318.15.00.12)		92042-IP	12 999
Machine screws	7318.15.00.21 7318.15.00.29		19 698
Aircraft screws Other screws, N.E.S. (H.S. 7318.15.00.31, 7318.15.00.39)		92041-IP	<u>55 605</u>
TOTAL			88 302

Total imports in 1991 for all of the above products were valued at \$88.3 million. Imports of machine screws included in this report amounted to \$16.7 or 22 per cent of the total.

NOTE: Information concerning U.S. statistical data show quantity in thousands of kilograms. Canadian statistical data do not show quantity.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORT TRENDS

SUMMARY

Description and Commodity Code	Total Imports				Major Country of Export to Canada % of Total Value			
	1989 Value (\$000)	1990 Value (\$000)	1991 Value (\$000)	1992* Value (\$000)	1989	1990	1991	1992*
----Machine screws:								
-----Sems								
H.S. 7318.15.00.21	8 831	6 982	4 061	871	96%	98%	95%	98%
-----Other machine screws								
H.S. 7318.15.00.29	<u>22 305</u>	<u>17 918</u>	<u>15 637</u>	<u>4 479</u>	77%	78%	74%	69%
Total	31 136	24 900	19 698	5 350				

Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORT TRENDS (Cont'd)

BY MAJOR COUNTRY OF ORIGIN

SEMS
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992*</u>	<u>Average Annual Growth Rate 1989-91 (%)</u>
United States Value (\$000)	8 510	6 874	3 886	858	-32.4
Taiwan Value (\$000)	276	94	110	-	-36.8
Fed. Rep. of Germany Value (\$000)	7	8	40	13	140.4
China Value (\$000)	2	-	15	-	165.8
Japan Value (\$000)	5	4	9	0	28.8
United Kingdom Value (\$000)	2	-	1	-	-42.0
Republic of Korea Value (\$000)	0	-	1	-	108.0
Sweden Value (\$000)	0	1	0	-	12.2
Other Value (\$000)	29	2	-	-	-93.3
Total Value (\$000)	8 831	6 982	4 061	871	-32.2

Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORT TRENDS (Cont'd)

BY MAJOR COUNTRY OF ORIGIN (Cont'd)

**OTHER MACHINE SCREWS OF IRON OR STEEL
(H.S. 7318.15.00.29)**

<u>Country of Origin</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992*</u>	<u>Average Annual Growth Rate 1989-91 (%)</u>
United States					
Value (\$000)	17 334	14 142	11 603	3 133	-18.2
Taiwan					
Value (\$000)	2 474	1 389	1 830	657	-14.0
Japan					
Value (\$000)	858	490	712	351	-8.9
Fed. Rep. of Germany					
Value (\$000)	335	349	263	74	-11.4
Sweden					
Value (\$000)	212	241	214	45	0.4
Switzerland					
Value (\$000)	144	105	200	36	17.8
China					
Value (\$000)	355	272	179	21	-28.9
Hong Kong					
Value (\$000)	2	85	112	40	587.0
United Kingdom					
Value (\$000)	81	102	92	16	6.4
Other					
Value (\$000)	552	957	562	168	0.1
Total					
Value (\$000)	22 305	17 918	15 637	4 479	-16.3

Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORT TRENDS (Cont'd)

BY PROVINCE OF CLEARANCE

SEMS
(H.S. 7318.15.00.21)

<u>Province of Clearance</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992*</u>	<u>Average Annual Growth Rate 1989-91 (%)</u>
Ontario Value (\$000)	8 600	6 665	3 823	815	-33.3
British Columbia Value (\$000)	130	122	94	25	-14.9
Manitoba Value (\$000)	11	86	79	28	167.2
Québec Value (\$000)	89	109	66	4	-14.1
Nova Scotia Value (\$000)	-	0	-	-	0.0
Alberta Value (\$000)	2	-	-	-	0.0
Total Value (\$000)	<u>8 831</u>	<u>6 982</u>	<u>4 061</u>	<u>871</u>	<u>-32.2</u>

Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORT TRENDS (Cont'd)

BY PROVINCE OF CLEARANCE (Cont'd)

**OTHER MACHINE SCREWS OF IRON OR STEEL
(H.S. 7318.15.00.29)**

<u>Province of Clearance</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992*</u>	<u>Average Annual Growth Rate 1989-91 (%)</u>
Ontario Value (\$000)	18 381	14 554	12 678	3 612	-16.9
Québec Value (\$000)	2 621	2 143	1 661	577	-20.4
British Columbia Value (\$000)	465	413	606	167	14.2
Manitoba Value (\$000)	241	205	277	39	7.2
Alberta Value (\$000)	298	260	199	18	-18.4
Saskatchewan Value (\$000)	78	123	81	24	1.8
New Brunswick Value (\$000)	168	123	80	33	-30.7
Nova Scotia Value (\$000)	44	91	51	10	7.8
Newfoundland Value (\$000)	9	4	4	0	-35.1
Yukon Value (\$000)	-	2	-	-	0.0
Total Value (\$000)	22 305	17 918	15 637	4 479	-16.3

Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORTERS

SEMS
(H.S. 7318.15.00.21)

There were 68 known importers in 1990. The principal 15 importers accounted for 93 per cent of the total import value.

The principal importers during 1990 are listed below in alphabetical order. This list does not include individuals. The importer is not necessarily the end-user of the product.

Name

Location

Allen-Bradley Canada Ltd.	Cambridge, Ont.
Black & Decker (1989) Inc.	Brockville, Ont.
Caterpillar Of Canada Ltd.	Mississauga, Ont.
Ford Motor Company Of Canada Ltd.	Oakville, Ont.
Fruehauf Canada Ltd.	Ingersoll, Ont.
K2 Corrosion Fasteners Inc.	North Vancouver, B.C.
Les Autobus M C I Grey Hound Canada Inc.	St-Eustache, Qué.
Les Industries Vogue Ltée	Lasalle, Qué.
Marshall & Riddel Int'L Inc.	Roxboro, Qué.
Pacific Fasteners Ltd.	Burnaby, B.C.
Reid Industries Ltd.	Windsor, Ont.
See-More Fixations Ltée	Pointe-Claire-Dorval, Qué.
Union Special Machine Company Of Canada Ltd.	Chicago, IL, U.S.*
Unisys Canada Inc. Peripherals Group	Winnipeg, Man.
Xerox Canada Inc.	Willowdale, Ont.

* Non resident importer.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORTERS (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (H.S. 7318.15.00.29)

There were 1 041 known importers in 1990. The principal 25 importers accounted for 66 per cent of the total import value.

<u>Principal Importers</u> (No.)	<u>Cumulative Value</u> (\$000)	<u>Cumulative % of Total Value</u>
3	6 906	39
6	8 514	48
10	9 531	53
15	10 495	59
25	11 749	66
64	14 341	*80
All Importers (1 041)	17 918	100

The principal importers during 1990 are listed below in alphabetical order. This list does not include individuals. The importer is not necessarily the end-user of the product.

<u>Name</u>	<u>Location</u>	<u>Name</u>	<u>Location</u>
Accurate Fasteners Ltd.	Concord, Ont.	Distributions Hexco Inc.	Anjou, Qué.
Allen-Bradley Canada Ltd.	Cambridge, Ont.	E Kurt Kemsies Ltd.	Scarborough, Ont.
Anda Tool & Fastener Limited	Weston, Ont.	Emerson Electric Canada Ltd.	Ottawa, Ont.
Atlas Alloys Div Of Rio Algom Limited	Etobicoke, Ont.	Fasteners & Fittings Inc.	Mississauga, Ont.
Atlas Bolt & Screw Co Ltd.	Ashland, OH, U.S.*	Ford Motor Company Of Canada Ltd.	Oakville, Ont.
B C Belting Ltd.	Vancouver, B.C.	Furst Manufacturing Corp.	Cobourg, Ont.
Bell Fasteners Canada Inc.	Mississauga, Ont.	Gates Power Drive Products Inc.	Windsor, Ont.
Black & Decker (1989) Inc.	Brockville, Ont.	General Electric Canada Inc.	Mississauga, Ont.
Bombardier Inc.	Montréal, Qué.	Gould Fasteners Limited	Mississauga, Ont.
Brock Telecom Limited	Brockville, Ont.	H Paulin & Company Ltd.	Scarborough, Ont.
C A E Electronics Ltd.	St-Laurent, Qué.	Hiseal Manufacturing Limited	Brampton, Ont.
Camco Inc.	Hamilton, Ont.	Honeywell Ltd.	Scarborough, Ont.
Canadian Marconi Company Ltd.	Mont-Royal, Qué.	I B M Canada Ltd.	Markham, Ont.
Canadian Tire Corporation Ltd.	Toronto, Ont.	I T T Hancock Canada Ltd.	St. Thomas, Ont.
Cinram Ltd.	Scarborough, Ont.	Irwin Industrial Agencies Ltd.	Richmond Hill, Ont.
D&C Roussy Industries Ltd.	London, Ont.	J I Case Canada Inc.	Brampton, Ont.
Department Of National Defence	Ottawa, Ont.	Joh Rubber Inc.	Leamington, Ont.
Digital Equipment Of Canada Ltd.	Kanata, Ont.	Lawson Products Inc.	Mississauga, Ont.
		Les Attachés Reliable 1980 Inc.	Outremont, Qué.

* Non resident importer.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN IMPORTERS (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Name</u>	<u>Location</u>	<u>Name</u>	<u>Location</u>
Les Entreprises Georges Hegedus Ltée	Pointe-Claire-Dorval, Qué.	Sargent and Company Limited See-More Fixations Ltée	Peterborough, Ont. Pointe-Claire-Dorval, Qué.
Les Industries Sanyo Canada Inc.	Montréal, Qué.	Sprout Waldron Div Of Koppers Inc.	Pittsburg, PA, U.S.*
M T D Fasteners Inc.	Kitchener, Ont.	Sunds Defibrator Ltd.	Montréal, Qué.
Marshall & Riddel Int'l Inc.	Roxboro, Qué.	Talbot Sales Ltd.	Scarborough, Ont.
Motor Coach Industries Ltd.	Winnipeg, Man.	Thona Inc.	St. Catharines, Ont.
MTD Products Canada Ltd.	Kitchener, Ont.	Townsend Division Of Textron Canada Ltd.	Gananoque, Ont.
NHK International Corp.	Schaumburg, IL, U.S.*	*Townsend Triad Ltd.	Etobicoke, Ont.
Northern Telecom Ltd.	Etobicoke, Ont.	Tri-Fast Limited	Richmond Hill, Ont.
Ohio Nut & Bolt Of Canada Ltd.	Berea, OH, U.S.*	U.E.S. Plastique Et Métal Cie Ltée	Anjou, Qué.
P R Nissen & Co Ltd.	Pointe-Claire-Dorval, Qué.	Valeo Engine Cooling Ltd.	Stratford, Ont.
Paccar Du Canada Ltée	Ste-Thérèse-De-Blainville, Qué.	Versatile Farm Equip Operation Ford New Holland Cda Ltd.	Winnipeg, Man.
Pechiney World Trade Inc.	Mississauga, Ont.	Wajax Div Of Wajax Equipment Ltd.	Coquitlam, B.C.
Pratt And Whitney Canada Inc.	Longueuil, Qué.	Westinghouse Canada Limited	Hamilton, Ont.
Quincaillerie Richelieu Ltée	Pointe-Claire-Dorval, Qué.	Xerox Canada Inc.	Willowdale, Ont.
Sandvik Canada Inc.	Mississauga, Ont.		

* Non resident importer.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA

SEMS
(H.S. 7318.15.00.21)

Major exporters to Canada are listed in descending order of dollar value. These exporters accounted for 83 per cent of the total value of Canadian imports during 1990.

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada</u> (\$000)
United States	Elco Industries Inc.)	
United States	Ring Screw Works)	
United States	Ford Motor Company)	
United States	Pioneer Screw & Nut Co.)	
United States	Penn Jacobson Corp.)	
United States	Midwest Fastener Corp.)	
United States	Trico Products Corp.)	
United States*	Ajax Bolt & Screw Div Coldhead)	
United States	Lang Fastener Corp.)	1 857*
United States	Camcar Screw & Mfg Co.)	
United States	United Technologies Auto Inc.)	
United States	Russell Burdsall & Ward Corp.)	
United States	Shakeproof Div/Illinois Tool)	
United States	Miniature Precision Components)	
United States	Decouper Industries)	
United States	Continental Midland Inc.)	
United States	Macleam Fogg Lock Nut Co.)	
United States	Metalcrafters)	118*
United States	Sems Products)	
United States	Essex International Inc.)	
United States	Injectronics Inc.)	
United States	Cherry Commercial Fasteners)	
United States	R B & W Corp. Coraopolis)	
United States	Pro Components)	451*
United States	Protective Treatments Inc.)	
United States	Trim Trends Inc.)	
United States	National Industries Inc.)	
United States	Star Stainless Screw Co.)	
United States	Lectron Products Inc.)	
United States	Pheoll Mfg Co.)	
United States	Waggoner Corporation)	254*
United States	Libralter Plastics)	
United States	MNP Fastener)	
Taiwan	Kemgold Corporation)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL
FOREIGN EXPORTERS TO CANADA (Cont'd)

SEMS (Cont'd)
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Chelsea Industries Inc.)	
United States	Orschelin Company)	
United States	Hurd Lock & Mfg Co.)	
United States	Superb Manufacturing Inc.)	
United States	Federal Screw Works)	
United States	Goodyear Tire and Rubber Co.)	
United States	Automotive Moulding Co.)	
United States	Trend Industries Inc.)	
United States	Towne Robinson Inc.)	
United States	W C Mccurdy Co.)	
United States	Allen Bradley Co.)	
United States	Anchor Fasteners Div Buell Ind)	
United States	Microdot Inc. Everlock Detroit)	
United States	Washers Inc.)	
United States	Delwal Corp.)	
United States	Jacobs Industries Inc.)	
United States	Michigan Rivet Corp.)	
United States	Signet Industries Inc.)	
United States	Stratoflex Inc.)	
United States	Borg Warner Automotive)	
United States	Oakwood Metal Fabricating Co.)	1 292*
United States	Sure Fit Metal Products)	
United States	Milwaukee Wire Products)	
United States	Regal Stamping Company)	
United States	Barfield Mfg Co.)	
United States	Industrial Machine Prods Inc.)	
United States	TRW Fasteners Division)	
United States	Tokico America Inc.)	
United States	Alcoa Fujikura Ltd.)	
United States	Deckerville Die Form Co.)	
United States	Emhart Enterprises Corp.)	
United States	Grote Mfg Co. Inc.)	
United States	Nissho Iwai Corp.)	
United States	Certified Tool & Manufacturing)	
United States	Groves Manufacturing Company)	
United States	Master Industries Inc.)	
United States	Alpha Technology Corp.)	
United States	Gagnier Products Co.)	
United States	Lake Center Industries)	
United States	Goshen Die Cutting)	
United States	Semplex Corporation)	
United States	Xerox Corp.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

SEMS (Cont'd)
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada</u> (\$000)
United States	Automotive Chemical Corp.	
United States	Bundy Corp.	
United States	Horizon Screw Machine Products	
United States	Panasonic Industrial Co.	
United States	Petri Ag	
United States	Randall Co. Div of Textron	
United States	Amp Industries	
United States	Cooper Industrial Products Div	
United States	Lewis Screws Illinois	
United States	Pop Fastener Division	
United States	Unity Rubber Company	
United States	American Tube & Wire Fabricatō	
United States	General Tire & Rubber Co.	
United States	Molmec, Inc.	
United States	Schwitzer Engineered Component	
United States	Beta Mfg Corp.	
United States	Huron Plastics Inc.	
United States	Paramount Fabricating, Inc.	
United States	Siegel-Robert Plating Co.	
United States	Gel Incorporated	
United States	Modern Tool & Die Company	
United States	A B&W Inc.	776*
United States	Billco Mfg	
United States	BRC Rubber Group	
United States	Douglas Corporation	
United States	G B Dupont Co. Inc.	
United States	Alpha Bolt Co.	
United States	Amanda Bent Bolt Co.	
United States	Armada Rubber Mfg Co.	
United States	Eaton Corp. Winamac Div	
United States	Harvard Industries Inc.	
United States	Minnesota Mining & Mfg Co.	
United States	Perfect Equipment Corp.	
United States	Press Way Inc.	
United States	Pretty Products	
United States	Chicago Rawhide Mfg Co.	
United States	Cold Heading Co.	
United States	Color Custom Cpd	
United States	Helm Inc.	
United States	Motorola Inc.	
United States	The Standard Products Co.	
United States	Fleck Inc.	
United States	Pacific Fasteners	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

SEMS (Cont'd)
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Wittek Mfg)	
United States	Zenith Industrial Corp.)	
Taiwan	Unifast)	80*
United States	All Rite Industries Inc.)	
United States	American Radionic Co. Inc.)	
United States	Bell Fasteners)	
United States	Casco Products Corporation)	
United States	Ernest Industries Co.)	
United States	Farathane Inc.)	
United States	KW Muth Co.)	
United States	Lear Siegler Genl Seating Div)	
United States	Opdyke Stamping Inc.)	
United States	Sealed Power Corp.)	
United States	Special Plastic Products Inc.)	188*
United States	Central Fibre Products Co.)	
United States	KDS Controls Inc.)	
United States	Modern Metal Products Co.)	
United States	Peerless Industries)	
United States	Southern Screw)	
United States	Tempo Enterprises Inc.)	
United States	West Spec Corp.)	
United States	Anchor Swan)	
United States	GML)	
United States	Grand Haven Stamped Prod Co.)	
United States	H L Blachford Inc.)	
United States	Kay Screen Printing Inc.)	
United States	Line Products Inc.)	121*
United States	Nyloncraft Inc.)	
United States	Radar Inds Inc.)	
United States	Rubber Injection Specialties I)	
United States	Stanco Metal Products Inc.)	
United States	Union Special Corporation)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL
FOREIGN EXPORTERS TO CANADA (Cont'd)

SEMS (Cont'd)
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
Taiwan	Shen Fung Screws	
United States	Auto Specialties Mfg	
United States	Automatic Die Casting	
United States	Avery Label Systems	
United States	Borg-Warner Automotive Inc.	100*
United States	Claude Sintz Inc.	
United States	Grinnell Stamping Co.	
United States	Indak Manufacturing Corp.	
United States	Prestige Stamping Inc.	
United States	Prodex Supply	
United States	Rockford Prods	
United States	Sheller-Globe Corporation	
United States	The Gates Rubber Company	
United States	Vancraft Manufacturing	
United States	A-Line Plastics	
United States	Aztec Mfg Corp.	
United States	Harada Industry of America Inc	
United States	Maynard Manufacturing	
United States	Progressive Stamping	149*
United States	Alma Plastics Co.	
United States	Altec Sa de Cv Mexico	
United States	Bennett Equipment Corp.	
United States	Clevite Elastomers	
United States	Foamade Industries	
United States	Girard Fastener Company	
United States	Howell Industries Inc.	
United States	Industrial Fasteners Corp.	
United States	Joseph Pollak Corp.	
United States	Malco A Microdot Company	
United States	Monroe Auto Equipment	
United States	Thomas G Farla Corp.	
United States	Trayer Prod Inc.	
United States	Ada Metal Products Inc.	
United States	Argo Mfg Corp.	
United States	Automotive Ind. Inc.	
United States	Cadillac Rubber & Plastics Inc	
United States	G T Products Inc.	137*
United States	Gilreath Manufacturing Inc.	
United States	H B Fuller Automotive Products	
United States	Hoover Group Inc.	
United States	Intertek	
United States	L & L Prods Inc.	
United States	Milwaukee Chaplet Mfg Co. Inc.	
United States	Plastomer Corp.	
United States	Thomas Die & Stamping Inc.	
Taiwan	Power Van Ind Co. Ltd.	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

SEMS (Cont'd)
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
Taiwan	Lih Lin Enterprises)	
Taiwan	Cenlux)	18*
United States	A & H Machine & Tool Company)	
United States	Champion Laboratories Inc.)	
United States	Crotty Corporation)	
United States	Cs Ohm Mfg Co.)	
United States	Dawson Mfg Co.)	
United States	Doehler Jarvis)	
United States	Forest City Foam Prod Inc.)	
United States	Garrett Tool & Engineering Inc)	
United States	Globe Automotive Industries In)	
United States	Industrial & Automotive)	
United States	Lakepark Industries Inc.)	
United States	Machining Enterprises Inc.)	
United States	Mccord Corporation)	
United States	Methode Electronics Inc.)	
United States	Multifastener Spring Div. Inc.)	
United States	Ohio Jacobson Fastener Corp.)	
United States	Philadelphia Handle Corp.)	
United States	Sonicraft Inc.)	
United States	Specialty Forming)	
United States	SPS Technologies)	
United States	Stewart Warner Corp.)	
United States	The Pierce Co.)	234*
United States	Tri-City Plastics Inc.)	
United States	Yale Stamping Company)	
United States	3m Auld)	
United States	Ac Rochester)	
United States	Beta Mfg Corp.)	
United States	Bowles Fluidics Corp.)	
United States	Caterpillar Inc.)	
United States	Deltar Div Itw Inc.)	
United States	Flexible Products Co.)	
United States	Fremont Plastic Prod Inc..)	
United States	General Electric Co.)	
United States	Industrial Strainer Co.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL
FOREIGN EXPORTERS TO CANADA (Cont'd)

SEMS (Cont'd)
(H.S. 7318.15.00.21)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Kalamazoo Spring Co. Div Peter)	
United States	Larson Co. Inc.)	
United States	Littelfuse Inc.)	
United States	Mortell Company)	
United States	P H C Industries Inc.)	
United States	RPI Inc)	
United States	Ultimate Manufacturing Inc.)	
United States	Ultra-Mag Industries Inc.)	
United States	Wickes Mfg Co. Dura Div)	
TOTAL		5 775

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL
FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL
(H.S. 7318.15.00.29)

Major exporters to Canada are listed in descending order of dollar value. These exporters accounted for 67 per cent of the total value of Canadian imports during 1990.

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Girard Fastners Co.	1 191
United States	ATF	713
United States	Elco Industries Inc.	370
United States	Xerox Corp.	653*
United States	Camcar Division of Textron Inc	
United States	Rockford Products Co.	296
United States	TRW Fasteners Division	382*
United States	Midwest Fastener Corp.	
United States	Michigan Metals	184
United States	Ohio Jacobson Fastener Corp.	173
United States	Star Stainless Screw Co.	165
United States	Amsco American Screw Co.	161
Taiwan	Gofast Co. Ltd.	156
Taiwan	Power Van Industrial Co. Ltd.	139
Taiwan	Chu Kuan Metal	122
United States	United Technologies Inc.	122
United States	Russell Burdsall & Ward Corp.	409*
United States	Ring Screw Works	
United States	Accurate Tool Co.	
United States	Continental/Midland	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Pawtucket Fasteners Inc.)	
United States	Cherry Commercial Fasteners)	279*
United States	Fastbolt Corp.)	
Taiwan	Gee Bridge Int Inc.)	165*
United States	Sprout Bauer Inc.)	
United States	Mid-States Screw Corp.)	158*
United States	Allen Bradley Co.)	
United States	Southern Fasteners	77
United States	Semplex Corp.	73
United States	Atlas Bolt & Screw)	
United States	Eaton Corp. Eng Fastener Div)	208*
United States	Nucor Fastener)	
United States	Ford Motor Company	65
Taiwan	Newill Co. Ltd.)	128*
United States	Sems Products)	
United States	Miniature Precision Components)	125*
United States	Fastener Innovation Fit)	
United States	Flexible Steel Lacing Co.)	124*
United States	Industrial Fasteners Corp.)	
United States	Pioneer Screw & Nut Co.)	
United States	Maclean Fogg Co.)	
United States	DCSC)	288*
United States	Milwaukee Wire Products)	
United States	Fall River Mfg Co. Inc.)	
United States	Orschelin Company)	109*
Taiwan	Fastener International Inc.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Emhart Fastener)	
Taiwan	Arrow Fastener Co.)	157*
United States	Pheoll Mfg Co.)	
Taiwan	Four Winds)	102*
United States	Anchor Fasteners Div Buell Ind)	
United States	Penn Jacobson Fastener Corp.	49
United States	Grote Mfg Co. Inc.)	94*
United States	Unity Rubber Co.)	
United States	Shakeproof Div/Illinois Tool W)	92*
United States	Towne Robinson Fastener)	
United States	Hydromatic Div)	
United States	Lawson Products Inc.)	133*
United States	North American Bolt & Screw)	
United States	Essex International Inc.)	
United States	Larson Co. Inc.)	127*
United States	American Screw)	
United States	BRC Rubber Group Inc.)	
United States	Goodyear Tire and Rubber Co.)	
United States	R B & W Corp. Coraopolis)	201*
Taiwan	Super Gold Ent.)	
United States	DD Mechanicsburg)	
United States	Shur Kut Supply Corp.)	
United States	Molly Fastener Div)	114*
Taiwan	Par Excellence)	
United States	Inland Midwest Corp.)	
United States	Adams Nut & Bolt Co.)	109*
United States	Douglas Corporation)	
United States	Dupage Fasteners Inc.)	72*
United States	Lang Fastener Corp.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Medalist Champion Screw)	
United States	Sargent)	107*
United States	Nook Industries Inc.)	
United States	Rohr Industries)	
United States	Samson Distribution)	101*
United States	Fleck Controls Inc.)	
United States	Metalcrafters)	
United States	Wittek Mfg)	96*
United States	Fabco Fastening Systems)	
United States	Honeywell Inc.)	
United States	Lake Center Industrles)	
United States	Modern Metal Products Co.)	154*
United States	Panasonic Industrial Co.)	
United States	Erie Bolts)	
United States	Ind Screw Prod Inc.	30
United States	Realm Fastener Sales Cor)	59*
Taiwan	Hsich Chin Screw Factory)	
United States	AMAC)	58*
United States	Waukesha Engine Div)	
United States	Alcoa Fujikura Ltd.)	
United States	IBM Corp.)	83*
United States	Jackson Screw)	
United States	Metric Fasteners Corp.)	54*
United States	Rochester Screw & Bolt)	
United States	Motorola Inc.	26
United States	Tamper Pruf Screws)	
United States	Halex Co.)	75*
United States	Engineered Heat Treat)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Schwitzer Engineered Component)	
Taiwan	Cofast Co.)	
United States	Borg Warner Automotive)	116*
United States	Chelsea Industries Inc.)	
United States	Ford Atlantic Fast Corp.)	
United States	Lake Erie Screw Corp.)	46*
United States	Lectron Products Inc.)	
United States	Siegel-Robert Plating Co.)	46*
United States	Walker Bolt Manufacturing)	
United States	Premier Industrial)	
United States	Randall Co. Div of Textron)	65*
Taiwan	Yei Fong Industrial)	
United States	ABB)	
United States	Certified Tool & Manufacturing)	
United States	Injectronics Inc.)	125*
United States	Morrilton Plastics Corp.)	
United States	Sheller-Globe Corporation)	
United States	Special T Fasteners)	
United States	Stillwater Fastners)	39*
Taiwan	Unifast)	
Taiwan	Licksure Inc.)	
Taiwan	Kemgold Corp.)	57*
United States	American Tube & Wire Fabricate)	
United States	APCO Power Unit Corporation)	
United States	Atwood Industries Inc.)	57*
United States	CMI Ind)	
United States	Defence Depot)	
United States	Triten Corporation)	56*
United States	Allmetal Screw)	
United States	Boeing)	
United States	California Industrial Products)	54*
United States	General Electric Supply Co.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	General Tire & Rubber Co.)	
United States	Goshen Die Cutting)	
United States	Rockwell Inter)	107*
United States	Superb Manufacturing Inc.)	
United States	Trico Products Corp.)	
Taiwan	Sheh Fung)	
Taiwan	Lih Lin Enterprises & Indust)	34*
Taiwan	Elemek Enterprise Co.Ltd.)	
United States	Automotive Moulding Co.)	
United States	Bates Fabricating Inc.)	68*
United States	Firestone Corp)	
United States	SARG)	
United States	TORX)	34*
United States	Unit Rig Inc.)	
Taiwan	Rexlen Corporation)	
United States	All Rite Industries Inc.)	48*
United States	Allstar Fasteners Inc.)	
United States	LCN Closers)	
United States	National Industries Inc.)	47*
Taiwan	Faithful Engineering)	
United States	Corbin & Russwin Architectural)	30*
United States	Durametallic Corp.)	
United States	Mechanics Choice Div A Vnet)	30*
United States	Ohio Rod Products)	
United States	Ronman Prod Inc.)	
United States	Bundy Corp.)	43*
United States	Century Fasteners Corp.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Federal Screw Works)	
United States	Gates Power Drive Products Inc)	
United States	Port Clinton Co.)	
United States	Gates Rubber Co.)	112*
United States	Thermoplastics Inc.)	
United States	Truck-Lite Company Inc.)	
United States	Ward Products Corp.)	
United States	20th Century Mach. Co.)	
Taiwan	The Chicago Wire Grp)	
Taiwan	LTH)	39*
Taiwan	Concord International Engineer)	
Taiwan	Cenlux Metals)	26*
United States	Bepex Corp.)	
United States	Creative)	
United States	Dover Products Co.)	39*
United States	ITT Barton Instruments)	
United States	Mack Trucks Inc.)	
United States	Nyloncraft Inc.)	39*
United States	Watts Regulator Co.)	
Taiwan	Wing Tone)	
Taiwan	Pro-Pack Int, Inc.)	36*
Taiwan	China Elec)	
United States	Assembly Supply Co.)	
United States	Chahta Enterprise)	36*
United States	Coop Scrwe)	
United States	Crown City Plating Co.)	
United States	Irvin Industries Inc.)	
United States	Molmec Inc. Raymond Fastener)	
United States	Mortell Company)	96*
United States	Orbseal Inc.)	
United States	Phillips Plastics Corp.)	
United States	Stanco Metal Products Inc.)	
United States	Tech Mfg)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	The Torrington Company)	
United States	Washers Inc.)	35*
Taiwan	Special)	
Taiwan	New Cosmos)	
United States	Britt Mfg)	33*
United States	Chemical Sealing Corp.)	
United States	Electro)	
United States	Hard)	33*
United States	L & J Fasteners Inc.)	
United States	Melnor Ind.)	
United States	MNP Fastener)	44*
United States	Oakwood Metal Fabricating Co.)	
United States	OMC)	
United States	Penn Engineering)	
United States	Pretty Products)	33*
United States	Screw Corp.)	
United States	Talma Fastener Corp.)	
United States	Therm-O-Disc Inc.)	33*
United States	Tokico America Inc.)	
Taiwan	Heads & Threads)	10
United States	Armada Rubber Mfg Co.)	
United States	Cooper Industrial Products)	
United States	Dixon Industries Corporation)	
United States	Electrical Division)	
United States	Eskay Screw Corporation)	100*
United States	G B Dupont Co. Inc.)	
United States	Helm Inc.)	
United States	Huron Plastics Inc.)	
United States	Joseph Pollak Corp.)	
United States	Lewis Screw)	
United States	Mcgard Inc.)	30*
United States	Pakco Industrial Ceramics Inc.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Parker-Kalon Division)	
United States	Robbins Equip)	40*
United States	Senco Products Inc.)	
United States	SPS Technologies)	
United States	WEC)	
Taiwan	Krane Industry)	28*
United States	AAR)	
United States	American Radionic Co. Inc.)	
United States	Baker Coupling)	36*
United States	Decouper Industries)	
United States	Delta Faucet)	
United States	Deltar Div Itw Inc.)	
United States	Elk Creek Raycarl Products)	27*
United States	Fisher Controls)	
United States	Harris Hub Inc.)	
United States	Microdot Inc. Everlock Detroit)	27*
United States	New Tech Ind.)	
United States	Pratt & Whitney)	
United States	Ruffpnex)	27*
United States	Tdk Corp. of America)	
United States	3M Auld)	
United States	Arden Fasteners)	
United States	Automatic Fastener Corp.)	41*
United States	Brockway Pressed Metals Inc.)	
United States	Copeland Corp.)	
United States	Delwal Corp.)	
United States	Futaba Corp. of America)	
United States	Jacobs Industries Inc.)	
United States	KW Muth Co.)	
United States	Molex Inc.)	80*
United States	RBW)	
United States	Stratoflex Inc.)	
United States	The Mattatuck Mfg Co.)	
United States	Trend Industries Inc.)	
United States	Wenger Manufacturing)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
Taiwan	San Shing Hardware)	
Taiwan	J B Multi National)	21*
Taiwan	Hy Mart Fastener)	
United States	Brighton Best Socket)	
United States	Farathane Inc.)	21*
United States	Flexalloy)	
United States	Ford Aerospace & Communication)	
United States	Harada Industry of America Inc)	28*
United States	Imo Industries Inc.)	
United States	Lennox)	
United States	Modern Tool & Die Company)	
United States	Parker Hannifin Auto Connector)	
United States	Preform Sealants Inc.)	42*
United States	Pro Components)	
United States	Regal Stamping Company)	
United States	Solid State Controls)	
United States	Spi Clecon Molding Div)	
United States	Sta Rite)	28*
United States	Weatherhead Co.)	
United States	Truth Div)	
United States	W G Jackson Screw Co.)	
Taiwan	Starbest Ent)	19*
Taiwan	Locksure Inc.)	
Taiwan	Linkwell Industry Co. Ltd.)	12*
Taiwan	Intertek Intl Corp.)	
Taiwan	Honor Best Co. Ltd.)	
United States	Almco Steel Prod Corp.)	24*
United States	Automotive Chemical Corp.)	
United States	Barnes)	
United States	Beta Mfg Corp.)	
United States	Brunner Drilling Co.)	18*
United States	Caterpillar Americas)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

**OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)**

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Champion Bolt Corp.)	
United States	Champion Laboratories Inc.)	
United States	Chicago Rawhide Mfg Co.)	30*
United States	Dennison Mfg Company)	
United States	Eastern Screw Co.)	
United States	Electrovert Ltd.)	
United States	Federal Mogul Corp.)	24*
United States	Gel Incorporated)	
United States	Header Prods)	
United States	Highland Threads)	
United States	John Perine Co.)	18*
United States	Littelfuse Inc.)	
United States	Marathon Letourneau)	12*
United States	Mccord Corporation)	
United States	Metex Corp.)	
United States	Murray Corporation)	18*
United States	NSC San Diego)	
United States	Phoenix Enterprise Inc.)	
United States	Press Way Inc.)	24*
United States	Radar Inds Inc.)	
United States	Rebco Fasteners)	
United States	Stahl Manufacturing)	12*
United States	Sunds Defibrator)	
United States	Switchcraft Inc.)	
United States	Trayer Prod Inc.)	24*
United States	Ultraflote Corp.)	
United States	Wayne Bolt and Nut)	
United States	West Spec Corp.)	6
United States	York Equipment)	
Taiwan	Tempered Products Inc.)	16*
Taiwan	Tadokoro Tech Corp.)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)
(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
Taiwan	FWU Kuang)	
Taiwan	Deltaco Co.)	15*
United States	A T F)	
United States	Ag Communications)	
United States	Aircap Industries)	15*
United States	Ajax Bolt & Screw Div Coldhead)	
United States	Alinabal Inc.)	
United States	Allied Signal Aerospace)	15*
United States	Alpha Bolt Co.)	
United States	Bowles Fluidics Corp.)	
United States	Bradley Int)	15*
United States	C I Energy Services Group)	
United States	Cable Prod Inc.)	
United States	Casco Products Corporation)	20*
United States	Chardon Rubber Co.)	
United States	Co-Op Screw Mfg.)	
United States	Dawson Mfg Co.)	
United States	Ductmate)	20*
United States	E I S Fleck Inc.)	
United States	Electronic Fasteners)	
United States	Energy Services Group)	
United States	Fawn Plastics)	15*
United States	Ferry Cap and Screw)	
United States	Galt Crafted Products Inc.)	
United States	Grand Haven Stamped Prod Co.)	20*
United States	Handy Button)	
United States	Hartzell Mfg Inc.)	
United States	Indak Manufacturing Corp.)	
United States	Indiana Metal Products)	
United States	Iroquois Die & Mfg Co.)	30*
United States	Iit Hancock Automotive)	
United States	Lucas Industries Inc.)	
United States	Mectron)	

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

FOREIGN EXPORTERS TO CANADA (Cont'd)

OTHER MACHINE SCREWS OF IRON OR STEEL (Cont'd)

(H.S. 7318.15.00.29)

<u>Country of Origin</u>	<u>Name of Foreign Exporter</u>	<u>1990 Value of Exports to Canada (\$000)</u>
United States	Memotec Data)	
United States	Microtron Inc.)	15*
United States	Mueller Co.)	
United States	Murata Wiedemann)	
United States	NGK Locke Inc.)	15*
United States	Non Ferrous Bolt and Mfg Co.)	
United States	R E Dietz Company)	
United States	RSL Woodworking Prod)	20*
United States	Sanderson Industries Inc.)	
United States	Sheldon Precision Co. Inc.)	
United States	The Akro Corporation)	10*
United States	Tri West Prod)	
United States	US Extrusion Inc.)	
United States	Wedin International Inc.)	20*
United States	White Rodgers)	
United States	Zenith Industrial Corp.)	
TOTAL		11 952

* Aggregated to preserve confidentiality of Canadian importers.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN SHIPMENTS

Statistics Canada reports shipments of machine screws by Canadian manufacturing establishments as follows:

<u>Standard Classification of Goods Code Description</u>	1989	
	<u>Establishments</u>	<u>Value</u> (\$000,000)
7318.15.20 Screws, machine, with or without nuts or washers, iron or steel	9	17.3E

Any enquiries and/or comments regarding Canadian shipments should be directed to:

Statistics Canada
Industry Division
Survey of Manufactures Section
Ottawa, Ontario
K1A 0T6
Tel.: (613) 951-9837

Source: Catalogue #42-250, annual, "Fabricated Metal Products Industries".

% Estimated E = 61 - 100

MACHINE SCREWS OF IRON OR STEEL

CANADIAN EXPORTS BY MAJOR COUNTRY OF DESTINATION (H.S. 7318.15)

Separate export data for machine screws are not available. These products are included in the Harmonized System (H.S.) six digit code: 7318.15 Bolts or Screws, N.E.S., with or without their nuts or washers, iron or steel.

<u>1990</u>		<u>1991</u>		<u>1992*</u>	
<u>Country</u>	<u>Value</u> (\$000)	<u>Country</u>	<u>Value</u> (\$000)	<u>Country</u>	<u>Value</u> (\$000)
U.S.	157 205	U.S.	129 189	U.S.	37 327
U.K.	782	U.K.	509	Chile	176
Australia	421	Israel	509	Ecuador	147
Chile	345	Ecuador	423	Israel	76
Netherlands	276	Costa Rica	234	Italy	68
Mexico	190	Syria	222	W.Germany	57
Venezuela	187	Trinidad&Tobago	208	Guatemala	52
China	181	Australia	201	Singapore	46
France	175	Venezuela	201	Belize	41
N.Zealand	157	Guatemala	197	U.K.	36
Others	<u>2 397</u>		<u>2 491</u>		<u>445</u>
Total	162 317		134 383		38 471

NOTES: Major countries in descending order based upon value.

* The latest year is cumulative to the first quarter.

See note on page two concerning Canada - U.S. Reconciliation.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN SUPPLIERS

The following lists are taken from two sources: a) the Business Opportunities Sourcing System (BOSS), a computerized data bank established by the Federal Department of Industry, Science and Technology Canada; and, b) the Canadian Trade Index, published by the Canadian Manufacturers' Association (CMA). These lists may not include all suppliers of the products in question, as companies must themselves register in BOSS or the Canadian Trade Index. In both cases, information on Canadian products supplied is as given by the companies.

BOSS

Companies are arranged in alphabetical order.

Screws, Machine, Sems, of any Metal Excluding Steel

<u>Name</u>	<u>Location</u>
Brass Craft Canada Limited	St. Thomas, Ont.
Désormeau Industries Inc.	St-Léonard, Qué.
*H. Paulin & Co. Ltd.	Scarborough, Ont.
Russo & Mariano Screw Products Ltd.	Woodbridge, Ont.
Stelco Enterprises	Toronto, Ont.
*Triad-Triumph Ltd.	Rexdale, Ont.
*W&A Moir Limited	Halifax, N.S.

Screws, Machine, Sems, Steel

<u>Name</u>	<u>Location</u>
Désormeau Industries Inc.	St-Léonard, Qué.
*H. Paulin & Co. Ltd.	Scarborough, Ont.
Russo & Mariano Screw Products Ltd.	Woodbridge, Ont.
*Spar Group Inc.	Vancouver, B.C.
*Stelco Enterprises	Toronto, Ont.
*Triad-Triumph Ltd.	Rexdale, Ont.

* Company engaged in export trade.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN SUPPLIERS (Cont'd)

BOSS (Cont'd)

Companies are arranged in alphabetical order.

Screws, Machine, Steel Excluding Sems

<u>Name</u>	<u>Location</u>
Désormeau Industries Inc.	St-Léonard, Qué.
*H. Paulin & Co. Ltd.	Scarborough, Ont.
Russo & Mariano Screw Products Ltd.	Woodbridge, Ont.
Société Pole-Lite Ltée	St-Philippe, Qué.
*Stelco Enterprises	Toronto, Ont.
Triplex Engineering Co. Ltd.	Pointe-Claire, Qué.
*W&A Moir Limited	Halifax, N.S.
*Westland Steel Products Ltd.	Winnipeg, Man.

Screws, Machine, N.E.S.

<u>Name</u>	<u>Location</u>
Désormeau Industries Inc.	St-Léonard, Qué.
*Dominion Screw Co. Ltd.	Rexdale, Ont.
*Hayes-Dana Inc.	St. Thomas, Ont.
*Spar Group Inc.	Vancouver, B.C.
*Stelco Enterprises	Toronto, Ont.
*Triad-Triumph Ltd.	Rexdale, Ont.
Triplex Engineering Co. Ltd.	Pointe-Claire, Qué.
*W&A Moir Limited	Halifax, N.S.

Any enquiries and/or comments regarding the BOSS list should be directed to:

Business Opportunities Sourcing System
Industry, Science and Technology Canada
235 Queen Street
Ottawa, Ontario K1A 0H5
Tel.: (613) 954-5031
Telex: 053-4123
Fax.: (613) 954-1894

* Company engaged in export trade.

MACHINE SCREWS OF IRON OR STEEL

CANADIAN SUPPLIERS (Cont'd)

CANADIAN TRADE INDEX

Companies are arranged in alphabetical order.

Screw and Washer Assemblies

<u>Name</u>	<u>Location</u>
*Paulin, H. & Co. Limited	Scarborough, Ont.
*Robertson Whitehouse	Milton, Ont.
Swissway Machining Ltd.	Scarborough, Ont.
Townsend Triad, Div. of Textron Canada Ltd.	Rexdale, Ont.

Machine Screws

<u>Name</u>	<u>Location</u>
*Advance Fasteners Inc.	Mississauga, Ont.
*Capital Metal Industries, a division of H. Paulin & Co. Limited	Scarborough, Ont.
*Fraser Fasteners	Burnaby, B.C.
Industrial Screw & Forge	Montréal, Qué.
Nova Fasteners Limited	Milton, Ont.
Precision Fasteners, Div. of H. Paulin & Co. Limited	Milton, Ont.
Ready Rivet & Fastener Ltd.	Kitchener, Ont.
*Robertson Whitehouse	Milton, Ont.
*Sido (Groupe) Ltée	Granby, Qué.
Townsend Triad, Div. of Textron Canada Ltd.	Rexdale, Ont.

Any enquiries and/or comments regarding the Canadian Trade Index list should be directed to:

The Canadian Manufacturers' Association
4th Floor
75 International Boulevard
Etobicoke, Ontario
M9W 6L9
Tel.: (416) 798-8000
Fax.: (416) 798-8050

* Company engaged in export trade.

MACHINE SCREWS OF IRON OR STEEL

UNITED STATES IMPORTS

BY MAJOR COUNTRY OF ORIGIN

MACHINE SCREWS OF IRON OR STEEL 9.5 MM OR MORE IN LENGTH
AND 3.2 MM OR MORE IN DIAMETER
(H.S. 7318.15.40)

Country of Origin	1989	1990	1991	1992*	Average Annual
					Growth Rate
					1989-91
					(%)
Taiwan					
Quantity (000 KG)	12 988	13 239	11 876	3 025	-4.4
Value (\$000)	24 255	22 476	20 093	5 099	-9.0
Japan					
Quantity (000 KG)	4 609	3 568	2 273	489	-29.8
Value (\$000)	14 590	13 296	9 832	2 571	-17.9
China					
Quantity (000 KG)	7 254	6 042	5 830	1 741	-10.4
Value (\$000)	5 737	4 985	4 367	1 348	-12.8
Canada					
Quantity (000 KG)	231	163	430	129	36.4
Value (\$000)	579	626	1 553	426	63.8
Italy					
Quantity (000 KG)	600	342	197	78	-42.7
Value (\$000)	2 095	1 654	892	301	-34.7
Republic of Korea					
Quantity (000 KG)	508	752	666	95	14.4
Value (\$000)	648	961	802	125	11.3
Fed. Rep. of Germany					
Quantity (000 KG)	38	59	59	31	24.3
Value (\$000)	405	677	627	178	24.4
France					
Quantity (000 KG)	7	4	6	1	-12.6
Value (\$000)	172	175	554	112	79.3
Switzerland					
Quantity (000 KG)	155	97	42	20	-48.3
Value (\$000)	777	802	506	156	-19.3

NOTES: Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

Canada ranked four overall.

Source: U.S. Department of Commerce.

MACHINE SCREWS OF IRON OR STEEL

UNITED STATES IMPORTS (Cont'd)

BY MAJOR COUNTRY OF ORIGIN (Cont'd)

**MACHINE SCREWS OF IRON OR STEEL 9.5 MM OR MORE IN LENGTH
AND 3.2 MM OR MORE IN DIAMETER (Cont'd)
(H.S. 7318.15.40)**

<u>Country of Origin</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992*</u>	<u>Average Annual Growth Rate 1989-91 (%)</u>
Brazil					
Quantity (000 KG)	134	98	103	45	-12.1
Value (\$000)	252	270	219	116	-6.8
Other					
Quantity (000 KG)	396	388	222	146	-25.2
Value (\$000)	934	826	792	523	-7.9
Total					
Quantity (000 KG)	26 920	24 752	21 702	5 800	-10.2
Value (\$000)	50 444	46 747	40 237	10 955	-10.7

NOTES: Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

Canada ranked four overall.

Source: U.S. Department of Commerce.

MACHINE SCREWS OF IRON OR STEEL

UNITED STATES IMPORTS (Cont'd)

BY CUSTOMS DISTRICT OF ENTRY

MACHINE SCREWS OF IRON OR STEEL 9.5 MM OR MORE IN LENGTH
AND 3.2 MM OR MORE IN DIAMETER
(H.S. 7318.15.40)

Customs District of Entry	1989	1990	1991	1992*	Average Annual Growth Rate 1989-91 (%)
Los Angeles, California					
Quantity (000 KG)	5 330	5 652	5 392	1 396	0.6
Value (\$000)	10 766	10 300	8 929	2 449	-8.9
New York City, New York					
Quantity (000 KG)	5 738	4 686	4 405	1 354	-12.4
Value (\$000)	13 007	9 716	8 136	1 984	-20.9
Chicago, Illinois					
Quantity (000 KG)	6 787	5 867	4 341	987	-20.0
Value (\$000)	11 077	8 829	6 891	1 705	-21.1
New Orleans, Louisiana					
Quantity (000 KG)	729	885	917	260	12.2
Value (\$000)	1 297	1 704	1 846	680	19.3
Savannah, Georgia					
Quantity (000 KG)	747	1 267	939	220	12.1
Value (\$000)	1 335	2 095	1 837	504	17.3
Baltimore, Maryland					
Quantity (000 KG)	1 721	920	1 507	394	-6.4
Value (\$000)	1 811	1 013	1 466	470	-10.0
Boston, Massachusetts					
Quantity (000 KG)	199	350	402	241	42.2
Value (\$000)	714	1 443	1 207	577	30.0
Houston-Galveston, Texas					
Quantity (000 KG)	208	208	403	71	39.3
Value (\$000)	356	1 176	1 144	292	79.3
Philadelphia, Pennsylvania					
Quantity (000 KG)	2 229	1 285	866	167	-37.7
Value (\$000)	2 340	1 839	1 126	302	-30.6

NOTES: Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

Source: U.S. Department of Commerce.

MACHINE SCREWS OF IRON OR STEEL

UNITED STATES IMPORTS (Cont'd)

BY CUSTOMS DISTRICT OF ENTRY (Cont'd)

**MACHINE SCREWS OF IRON OR STEEL 9.5 MM OR MORE IN LENGTH
AND 3.2 MM OR MORE IN DIAMETER (Cont'd)
(H.S. 7318.15.40)**

<u>Customs District of Entry</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992*</u>	<u>Average Annual Growth Rate 1989-91 (%)</u>
Detroit, Michigan					
Quantity (000 KG)	201	159	332	116	28.7
Value (\$000)	306	393	991	306	80.0
Other					
Quantity (000 KG)	3 033	3 472	2 198	593	-14.9
Value (\$000)	7 436	8 238	6 666	1 685	-5.3
Total					
Quantity (000 KG)	26 920	24 752	21 702	5 800	-10.2
Value (\$000)	50 444	46 747	40 237	10 955	-10.7

NOTES: Ranked in descending order by 1991 value.

* The latest year is cumulative to the first quarter.

Source: U.S. Department of Commerce.

MACHINE SCREWS OF IRON OR STEEL

TARIFFS

CANADIAN

Canadian imports included in this report are dutiable under the following Canadian tariff item:

<u>Tariff Item</u>	<u>Description of Goods</u>	<u>Tariff Treatment - 1992</u>		
		<u>Most Favoured Nation Tariff</u>	<u>General Preferential Tariff</u>	<u>United States Tariff</u>
7318.15.00	Other screws and bolts, whether or not with their nuts or washers	10.2% BPT 9%	6.5%	6.1%

TARIFF ARRANGEMENTS AND FOREIGN COUNTRIES OF EXPORT

Exporting countries as shown in this report which qualify for the Most Favoured Nation tariff treatment: Taiwan, Japan, Fed. Rep. of Germany, Sweden, Switzerland, Hong Kong, United Kingdom.

Exporting countries as shown in this report which qualify for the Most Favoured Nation tariff treatment or General System of Preference tariff treatment (In order to qualify for the General System of Preference, a special certificate of origin is required.): China and Republic of Korea.

Enquiries concerning Canadian 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) 954-6927
Fax.: (613) 954-2509

MACHINE SCREWS OF IRON OR STEEL

TARIFFS (Cont'd)

UNITED STATES

United States imports included in this report are dutiable under the following U.S. tariff items:

Tariff Item	Description of Goods	Rates of Duty - 1992		
		General	1	2
7318.15.40	Machine screws 9.5 mm or more in length and 3.2 mm or more in diameter (not including cap screws)	1c/kg	Free (B,E,IL) 0.6c/kg (CA) 1/	2.2c/kg

- 1 Automotive Products Trade Act B
- United States-Canada Free-Trade Agreement CA
- Caribbean Basin Economic Recovery Act E
- United States-Israel Free Trade Area IL

2 Notwithstanding any other provisions, the rates of duty shall apply to products, whether imported directly or indirectly, of the following countries and areas pursuant to section 401 of the Tariff Classification Act of 1962, to section 231 or 257(e)(2) of the Trade Expansion Act of 1962, to section 404(a) of the Trade Act of 1974 or to any other applicable section of law, or to action taken by the President thereunder:

- | | | |
|----------------|-------------------------------------|--|
| Afghanistan | German Democratic Republic (former) | Mongolia |
| Albania | Kampuchea | North Korea |
| Bulgaria | Laos | Romania |
| Cuba | Latvia | Union of Soviet Socialist Republics (former) |
| Czechoslovakia | Lithuania | Vietnam |
| Estonia | | |

FOREIGN COUNTRIES

Enquiries concerning tariffs and other government trade regulations in foreign countries should be directed to:

Info Export
 External Affairs
 Ottawa, Ontario
 KIA 0G2
 Tel.: (613) 993-6435 or 1-800-267-8376
 Fax.: (613) 996-9709

MACHINE SCREWS OF IRON OR STEEL

MARKET OVERVIEW

The Wire and Wire Products Industry in Canada is classified under the Standard Industrial Classification (SIC) number 305 and is composed of the following sub-sectors: upholstery and coil spring industry, wire and wire rope industry, industrial fastener industry and other wire products industries. Cap, machine and aircraft screws are part of the industrial fastener industry sub-sector.

These items are manufactured in Canada. As well there is a significant volume of imports and exports of each item. Most imports and exports are between Canada and the United States.

While it is not possible to say what the value of shipments are for cap, machine and aircraft screws, the value of shipments for the entire Wire and Wire Products Industry has declined steadily since 1988 when it was \$1.890 billion to \$1.728 billion in 1990 and \$1.513 billion in 1991. However, it is expected that the value of domestic shipments for cap, machine and aircraft screws has also declined over this period as well.

Imports consist primarily of mass produced items where Canadian firms find it difficult to compete with manufacturers in other countries. Exports tend to be concentrated on more specialized products where quality, service and prompt service are at least as important as price. This is particularly the case for Canada's exports to the United States.

For a general overview of the Wire and Wire Products Industry, the department's industry profile on Wire and Wire Products may also prove useful.

David Fife
Primary Metals Directorate

MACHINE SCREWS OF IRON OR STEEL

dISTCcovery - TECHNOLOGY LICENSING OPPORTUNITIES

dISTCcovery is an ISTC service designed to create industry awareness of the world-wide supply of transferable technology available through licensing and joint ventures.

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dISTCcovery introduces you to companies and organizations from around the world who are willing to licence the right to manufacture and sell their product or use their process or know-how in an agreed market area. The reverse is also possible. A Canadian company can also use dISTCcovery to promote their unique product or process for licensing internationally.

The following is a licensing opportunity identified from dISTCcovery using the keywords "Fasteners":

1- Thread Forming Screw.

For more information on these and other opportunities, contact the nearest ISTC Regional Office listed at the end of this publication or the Market Intelligence and Technology Opportunities Service at (613) 954-4040.



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Opportunities Service
Services to Business Branch
Industry, Science and Technology Canada
235 Queen Street
Ottawa, Ontario
Tel.: (613) 954-4970
Fax.: (613) 954-5463

OR Primary Metals Directorate
Materials Branch
Industry, Science and Technology Canada
235 Queen Street
Ottawa, Ontario
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or 1-800-361-5367
Fax.: (514) 283-3302

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1 Front Street West, 4th Floor
Toronto, Ont. M5J 1A4
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Fax.: (416) 973-8714

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330 Portage Avenue
P.O. Box 981
Winnipeg, Man.
R3C 2V2
Tel.: (204) 983-ISTC
Fax.: (204) 983-2187

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215 Water Street, 5th Floor
P.O. Box 8950
St. John's, Nfld. A1B 3R9
Tel.: (709) 772-ISTC
Fax.: (709) 772-5093

NOVA SCOTIA

ISTC
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1801 Hollis Street, 5th Floor
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Fax.: (902) 426-2624

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S7K 5X2
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Fax.: (306) 975-5334

PRINCE EDWARD ISLAND

ISTC
Confederation Court Mall
134 Kent Street, Suite 400
P.O. Box 1115
Charlottetown, P.E.I. C1A 7M8
Tel.: (902) 566-7400
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NEW BRUNSWICK

ISTC
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770 Main Street
P.O. Box 1210
Moncton, N.B. E1C 8P9
Tel.: (506) 857-ISTC
Fax.: (506) 851-6429

BRITISH COLUMBIA

ISTC
Suite 900
Scotia Tower
650 West Georgia St.
P.O. Box 11610
Vancouver, B.C. V6B 5H8
Tel.: (604) 666-0266
Fax.: (604) 666-0277

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Edmonton, Alta. T5J 4C3
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Fax.: (403) 495-4507

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Suite 1100
510-5th Street South West
Calgary, Alta. T2P 3S2
Tel.: (403) 292-4575
Fax.: (403) 292-4578

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ISTC
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300 Main Street
Whitehorse, Y.T. Y1A 2B5
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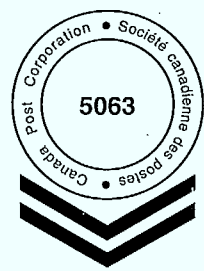
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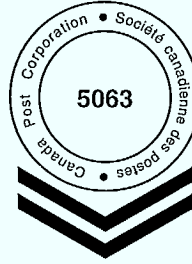


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