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MISCELLANEOUS METAL FABRICATING INDUSTRIES

1960

First issue. Statistics in this report were formerly published in:

41-206 Brass and Copper Products Industry

41-210 Iron Castings Industry

→ 41-217 Miscellaneous Iron and Steel Products

41-218 Miscellaneous Non-Ferrous Metal Products Industry

These four reports have been discontinued. See text for details.

ANNUAL CENSUS OF MANUFACTURES

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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

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EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers

and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

MISCELLANEOUS METAL FABRICATING INDUSTRIES

1960

Data for 1960 presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics—see item “Standard Industrial Classification” in the Explanatory Notes section of this report. The present report constitutes the first in this series for Miscellaneous Metal Fabricating Industries. For statistical purposes the industry titled Miscellaneous Metal Fabricating Industries in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing metal products not elsewhere classified, such as weather stripping, guns, collapsible tubes, machinery fittings, plumbers’ goods (including enameled plumbing fixtures), safes and vaults, and forgings such as chains, (except tire chains, see Industry No. 305—Wire and Wire Products Manufacturers), anchors and axles. Also included are establishments primarily engaged in fabricating bars and rods for reinforcing concrete.

In many instances adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings and the establishment of new industries as in the case of Miscellaneous Metal Fabricating Industries. This latter industry in accordance with the new S.I.C. concept now comprises components of the old S.I.C. industry groups “The Brass and

Copper Industry”, “The Iron Castings Industry”, “The Miscellaneous Iron and Steel Products Industry”, and “Miscellaneous Non-Ferrous Metal Products Industry”. In order to provide a statistical comparison an attempt has been made to recompile 1957, 1958 and 1959 data on the revised Standard Industrial Classification basis. Figures on this basis are shown in table 7.

There were 321 establishments classified as Miscellaneous Metal Fabricating Industries in 1960, there being 1 in Newfoundland, 2 in Nova Scotia, 2 in New Brunswick, 61 in Quebec, 194 in Ontario, 10 in Manitoba, 6 in Saskatchewan, 9 in Alberta and 36 in British Columbia. Employees in this industry numbered 14,782; salaries and wages totalled \$62,319,455; materials used in the manufacturing processes cost \$88,080,287; and factory shipments were valued at \$202,296,329.

The establishments in this industry make miscellaneous metal products as their main products. On the other hand some companies which have been classified to other industrial classes make miscellaneous metal products as a secondary part of their business. Tables 1 to 4 and 9 to 13 of this report refer only to Miscellaneous metal Fabricating Industries and the details presented reflect only the operations of the firms classified to this industry. Tables 5, 6, 7 and 8 represent factory shipments of specified items from all industries.

TABLE 1. Principal Statistics: Miscellaneous Metal Fabricating Industries, by Provinces, 1957-60
Basis: Standard Industrial Classification, revised 1960

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture ²	Value of factory shipments
	number		dollars				
1957							
Newfoundland	4	1,138	3,922,288	561,293	5,918,280		14,480,463
Nova Scotia							
New Brunswick							
Quebec	60	4,822	17,392,398	919,414	18,095,699		50,171,977
Ontario	163	10,298	38,383,949	2,598,532	50,059,015		124,761,064
Manitoba	12	592	2,362,406	120,859	5,235,151	1	9,018,077
Saskatchewan	3	78	332,071	13,006	247,030		801,125
Alberta	15	559	1,964,003	59,192	2,413,224		6,594,929
British Columbia	29	432	1,887,228	88,973	2,482,044		5,520,717
Canada	286	17,919	66,244,343	4,361,269	84,450,443		211,348,352
1958							
Newfoundland	5	991	3,335,468	407,724	4,843,219		10,992,714
Nova Scotia							
New Brunswick							
Quebec	55	3,073	12,208,111	813,670	14,488,912		37,307,074
Ontario	164	9,635	36,933,907	2,366,352	50,716,686	1	120,371,382
Manitoba	10	596	2,545,235	113,859	4,447,644		8,646,972
Saskatchewan	14	361	1,341,442	55,989	1,560,144		4,210,291
Alberta							
British Columbia	33	337	1,435,557	83,366	1,519,328		3,329,343
Canada	281	14,993	57,799,720	3,840,960	77,575,933		184,857,776
1959							
Newfoundland	5	947	3,290,938	389,206	5,201,070		10,095,661
Nova Scotia							
New Brunswick							
Quebec	50	3,037	12,944,916	711,143	9,552,156		32,676,908
Ontario	165	9,297	37,956,471	2,375,962	53,504,073	1	127,875,723
Manitoba	10	606	2,549,224	117,457	5,140,520		10,719,696
Saskatchewan	3	76	358,471	16,544	289,037		890,250
Alberta	12	340	1,164,290	48,839	2,847,017		4,760,116
British Columbia	31	347	1,527,093	71,915	1,752,418		3,961,060
Canada	276	14,650	59,791,403	3,731,066	78,286,291		190,979,414
1960							
Newfoundland	5	815	2,947,069	326,502	4,033,148	4,468,639	8,687,180
Nova Scotia							
New Brunswick							
Quebec	61	3,120	13,058,752	724,241	15,416,312	21,924,602	38,731,268
Ontario	194	9,445	40,305,964	2,529,125	55,235,019	74,066,627	130,300,021
Manitoba	10	528	2,263,877	94,703	5,099,455	4,254,221	10,093,725
Saskatchewan	6	105	503,869	21,939	2,416,156	1,237,478	3,665,549
Alberta	9	328	1,162,903	45,528	2,704,226	1,940,422	4,652,771
British Columbia	36	441	2,077,021	139,551	3,175,971	2,826,472	6,165,815
Canada	321	14,782	62,319,455	3,881,589	88,080,287	110,718,461	202,296,329

¹ The changeover to the new classification has delayed the recompilation of "Value added" figures for these years and same will not be available until the next issue of this report.

² Figures for 1960 do not include any adjustment for goods in process inventory held under progress payments arrangements.

Note: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Inventories:¹ Miscellaneous Metal Fabricating Industries, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland, Nova Scotia and New Brunswick	1,662,445	1,633,124	356,101	3,651,670
Quebec	4,322,817	4,333,880	4,331,040	12,987,737
Ontario	13,904,371	7,892,835	10,643,251	32,440,457
Manitoba and Saskatchewan.....	2,435,265	1,867,805	131,426	4,434,496
Alberta	161,281	66,315	120,268	347,864
British Columbia	434,557	317,810	508,611	1,260,978
Canada	22,920,736	16,111,769	16,090,697	55,123,202
Closing:				
Newfoundland, Nova Scotia and New Brunswick	1,077,374	1,243,868	886,466	3,207,708
Quebec	3,880,007	3,885,846	4,112,961	11,878,814
Ontario	13,423,017	9,087,035	10,979,801	33,489,853
Manitoba and Saskatchewan.....	2,132,339	1,225,400	138,509	3,496,248
Alberta	166,867	66,300	157,688	390,855
British Columbia	570,265	480,045	322,555	1,372,865
Canada	21,249,869	15,988,494	16,597,980	53,836,343

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Miscellaneous Metal Fabricating Industries, 1960

Product	Quantity	Value of factory shipments
		\$
Agricultural implements .....	...	2,052,051
Castings, forgings and related products (including plumbers' brass and valves):		
Cast iron plumbing fixtures.....	...	636,475
Gas stops and gas curb stops.....	...	1,040,689
Hydrants.....	No. 6,508	1,237,003
Meters, gas.....	" 117,386	3,502,416
Plumbers' brass fittings (excluding solder fittings - See below).....	...	13,153,579
Valves (excluding penstock valves).....	...	21,258,073
Grey iron castings, including alloy and malleable.....	...	3,133,163
Non-ferrous castings, n.e.s. ....	...	2,292,561
Forgings, n.e.s.:		
Steel .....	..	17,135,495
Other forgings (Non-ferrous, stainless steel, etc.) .....	..	2,306,572
Castings, forgings and related products, other .....	..	13,191,309

TABLE 3. Factory Shipments: Miscellaneous Metal Fabricating Industries, 1960 - Concluded

Product	Quantity	Value of factory shipments
		\$
Fabricated and structural products:		
Architectural and ornamental metal work:		
Aluminum	318,899
Brass and bronze.....	...	5,011
Iron and steel.....	...	689,119
Stainless steel.....	...	485,465
Fabricated bar joists	ton 7,133	1,758,784
Fabricated concrete reinforcing bar.....	" 52,446	8,764,789
Piping, fabricated	4,281,001
Platework, fabricated, n.e.s.....	...	2,244,145
Tanks.....	...	1,189,352
Fabricated and structural products, other	9,950,904
Hardware:		
Automatic screw machine products.....	...	165,400
Products other than automatic screw machine (bolts, nuts, rivets, screws).....	...	867,656
Hardware, other	2,875,723
Heating equipment.....	...	1,001,671
Machinery	6,513,731
Miscellaneous products:		
Chains.....	...	2,356,149
Collapsible tubes, metal	3,249,432
Electro-plating racks	159,716
Fire extinguishers, hand type.....	...	2,876,399
Flexible metallic hose and fittings.....	...	1,081,842
Lightning rods and supplies	333,080
Pipe fittings.....	...	7,611,447
Metal sponges or pads, not impregnated	739,990
Powder metallurgy products.....	...	589,260
Sanitary ware	9,615,239
Safes and vaults:		
Safes and chests	3,104,380
Vaults and other fire resistant and burglary resistant enclosures.....	...	4,114,826
Solder type fittings	5,827,777
Spinnings, all metals	765,957
Amount received for repairs and custom work.....	...	4,249,813
All other products	33,569,986
Total	202,296,329

Note: Data given in the above table are for the Miscellaneous Metal Fabricating Industries which includes only the firms that make these lines as main products. These articles may have been made also as minor products by firms in other industries. For total output figures of selected commodities, see Tables 5 to 8, inclusive.

TABLE 4. Materials Used: Miscellaneous Metal Fabricating Industries, 1960

Material	Quantity	Cost at works
		\$
Castings (rough and semi-finished received from foundry):		
Iron (gray and malleable)	ton 5,280	1,890,998
Steel	" 2,683	1,320,366
Iron:		
Pig iron	" 10,813	672,535
Steel:		
Bars and rods	" 113,715	14,808,782
Pipe and fittings	" ...	4,511,025
Plates	ton 9,329	1,579,978
Sheets:		
Black	" 14,009	2,288,474
Galvanized	" 2,523	409,963
Strip	" 1,205	328,911
Structural shapes	" 23,526	3,701,843
Wire	" 4,997	884,026
Alloy steel in all forms:		
Stainless:		
Billets, bars and rods	" ...	254,029
Other	" ...	2,755,312
Other alloy and tool steel (including carbon, alloy and high speed steels):		
Billets, bars and rods	" ...	2,349,776
Other	" ...	306,648
Scrap iron and steel	ton 28,052	1,093,422
Other iron and steel	" ...	3,967,920
Ferro-alloys	" ..	103,633
Non-ferrous metals:		
Aluminum:		
Castings	lb. 942,639	532,239
Sheet	" 526,546	305,112
Other forms	" 3,802,160	1,524,050
Brass and bronze	" 45,080,813	13,675,313
Copper:		
Sheet	" 674,132	359,040
Wire	" 341,946	153,882
Other forms	" 1,094,297	431,440
Lead	" 3,365,145	381,352
Nickel	" 82,080	83,821
Tin	" 158,456	164,502
Zinc	" 1,964,168	358,376
Babbitt metals and solders	" 161,459	83,400
Other non-ferrous metals	" ..	573,984
Paints, oils and varnishes	" ...	313,598
Foundry coke	ton 6,788	227,969
Foundry sands	" 22,131	255,835
Plumbago and graphite	lb. 512,205	30,603
Lumber	M bd. ft. 977	132,318
Firebrick and cupola blocks	" ...	103,173
Fireclay	ton 1,311	35,878
Core oil	Imp. gal. 23,681	31,204
Shipping containers	" ...	1,234,091
All other materials ¹	" ...	23,861,466
Canada	" ...	88,080,287

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$100,000. The total value of materials used by these firms was, \$5,792,178 and this amount is included in "All other materials".

TABLE 5. Factory Shipments of Plumbers' Brass Fittings, 1959 and 1960 (from All Industries)

Product	Value of factory shipments	
	1959	1960
	dollars	
Bath waste and overflows	836,000	569,000
Faucets, sink, lavatory and bath, and their combinations	4,274,000	3,546,000
Plumbing fixture trim	1,993,000	2,035,000
Stops	1,092,000	1,012,000
Traps	566,000	773,000
Tub-fillers, showers and combinations of same	1,757,000	1,672,000
Toilet tank fittings	1,870,000	1,830,000
Other brass plumbing fixtures ¹	6,065,000	2,239,000
Totals	18,453,000	13,676,000

¹ The total for 1960 excludes "Solder type fittings" which were previously included under this heading.

TABLE 6. Factory Shipments of Hand-Type Fire Extinguishers, 1952 - 60 (from All Industries)

Year	Value of factory shipments	Year	Value of factory shipments
	\$		\$
1952	1,840,000	1957	2,649,000
1953	1,767,000	1958	2,386,000
1954	2,140,000	1959	2,234,000
1955	2,890,000	1960	2,876,000
1956	2,912,000		

TABLE 7. Factory Shipments of Hydrants, 1956 - 60 (from All Industries)

Year	Number	Value of factory shipments
		\$
1956	11,863	2,051,000
1957	10,193	1,814,000
1958	12,095	2,163,000
1959	13,949	2,427,000
1960	11,298	1,913,000

TABLE 8. Factory Shipments of Valves, 1959 and 1960 (from All Industries)

Kind	Value of factory shipments	
	1959	1960
	dollars	
Iron body (gate, globe, check, etc.)	7,886,000	8,178,000
Steel, including alloy steel (gate, globe, check, etc.)	7,819,000	5,899,000
Brass or bronze (gate, globe, check, etc.)	6,338,000	5,957,000
Radiator valves (all types)	591,000	499,000
Corporation brass (main and curb stops, etc.)	1,996,000	1,604,000
Valves, other	1,819,000	2,353,000

**TABLE 9. Principal Statistics classified according to Type of Ownership:
Miscellaneous Metal Fabricating Industries, 1957 and 1960**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
1957					
Individual ownership	61	249	640,764	875,116	1,907,097
Partnerships	21	157	404,114	518,070	1,166,545
Incorporated companies	204	17,513	65,199,465	83,057,257	208,274,710
Totals	286	17,919	66,244,343	84,450,443	211,348,352
1960					
Individual ownership	56	189	549,879	555,152	1,528,492
Partnerships	21	163	503,683	993,585	1,873,181
Incorporated companies	244	14,430	61,265,893	86,531,550	198,894,656
Totals	321	14,782	62,319,455	88,080,287	202,296,329

**TABLE 10. Principal Statistics grouped according to Selling Value of Factory Shipments:
Miscellaneous Metal Fabricating Industries, 1957 and 1960**

Establishments reporting value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
1957					
Under \$10,000	30	36	57,803	44,487	139,328
\$ 10,000 to \$ 24,999	38	103	230,626	236,614	595,924
25,000 " 49,999	23	114	303,315	296,197	750,132
50,000 " 99,999	38	315	962,985	1,042,282	2,751,417
100,000 " 199,999	31	422	1,359,912	2,159,737	4,603,440
200,000 " 499,999	42	1,177	4,220,654	5,572,495	12,806,789
500,000 " 999,999	28	1,655	6,193,811	8,709,077	20,052,662
1,000,000 " 4,999,999	48	8,430	30,601,669	45,417,827	103,873,032
5,000,000 and over	8	5,661	22,284,896	20,971,727	65,775,628
Head office	—	6	28,672	—	—
Totals	286	17,919	66,244,343	84,450,443	211,348,352
1960					
Under \$10,000	33	46	66,050	58,134	167,054
\$ 10,000 to \$ 24,999	33	105	354,568	243,837	567,950
25,000 " 49,999	39	151	542,074	536,375	1,500,088
50,000 " 99,999	26	178	604,657	677,090	1,868,138
100,000 " 199,999	50	730	2,688,245	2,842,265	7,215,443
200,000 " 499,999	45	1,026	4,248,742	7,058,429	14,744,364
500,000 " 999,999	37	2,133	8,080,495	11,677,497	25,329,486
1,000,000 " 4,999,999	54	8,188	35,311,111	55,427,131	121,898,112
5,000,000 and over	4	2,225	10,423,513	9,559,529	29,005,694
Totals	321	14,782	62,319,455	88,080,287	202,296,329

TABLE 11. Employees and their Earnings: Miscellaneous Metal Fabricating Industries, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office		Workmen		Total	Supervisory and office	Workmen	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
Newfoundland, Nova Scotia and New Brunswick	109	40	742	56	947	745,608	2,545,330	3,290,938
Quebec	736	239	1,937	125	3,037	5,025,553	7,919,363	12,944,916
Ontario	1,644	619	5,991	1,043	9,297	11,039,378	26,917,093	37,956,471
Manitoba	147	29	420	10	606	862,919	1,686,305	2,549,224
Saskatchewan	15	3	58	—	76	152,876	205,595	358,471
Alberta	91	16	232	1	340	354,803	809,487	1,164,290
British Columbia	63	20	260	4	347	422,529	1,104,564	1,527,093
Canada	2,805	966	9,640	1,239	14,650	18,603,666	41,187,737	59,791,403
1960								
Newfoundland, Nova Scotia and New Brunswick	102	37	630	46	815	660,036	2,287,033	2,947,069
Quebec	752	229	2,013	126	3,120	4,981,789	8,076,963	13,058,752
Ontario	1,700	680	6,111	954	9,445	12,381,261	27,924,703	40,305,964
Manitoba	149	29	342	8	528	909,397	1,354,480	2,263,877
Saskatchewan	24	6	75	—	105	194,726	309,143	503,869
Alberta	89	20	219	—	328	376,242	786,661	1,162,903
British Columbia	89	22	326	4	441	607,350	1,469,671	2,077,021
Canada	2,905	1,023	9,716	1,138	14,782	20,110,801	42,208,654	62,319,455

TABLE 12. Production Workers, by Months: Miscellaneous Metal Fabricating Industries, 1960

Month	Establishments reporting monthly detail ¹	
	Male	Female
	number	
January	8,868	1,133
February	9,026	1,122
March	9,067	1,139
April	9,064	1,123
May	9,065	1,087
June	8,999	1,040
July	8,894	1,028
August	9,020	1,041
September	8,802	993
October	8,557	1,002
November	8,501	1,034
December	8,248	1,017
Average for establishments reporting monthly detail	8,843	1,063
Average estimated for small establishments ²	866	74
Average for all establishments	9,709	1,137

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000 and over.

² For establishments generally reporting value of shipments of less than \$300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 13. Fuel and Electricity Used: Miscellaneous Metal Fabricating Industries, 1960

Kind	Quantity	Cost at plant	
		\$	
Establishments reporting commodity detail: ¹			
Bituminous coal:			
(a) From Canadian mines	ton	6,818	91,695
(b) Imported	"	18,956	218,972
Sub-bituminous coal (from Alberta mines only)	"	2	36
Anthracite coal	"	597	12,003
Coke	"	252	9,243
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	428,000	172,008
Fuel oil including kerosene or coal oil	"	7,576,295	923,096
Wood	cord	61	804
Gas:			
(a) Liquefied petroleum gases	Imp. gal.	532,680	65,663
(b) Natural gas	M cu. ft.	891,201	662,280
Other fuel .....	..	..	10,126
Electricity purchased	kwh.	113,233,156	1,347,535
Steam purchased .....	..	..	120,964
Estimate for establishments for which no data were collected: ²			
Cost of fuel and electricity			247,164
All establishments:			
Total cost of fuel and electricity	-		3,881,589

¹ Establishments generally reporting value of shipments of \$300,000 and over.

² Establishments generally reporting value of shipments of less than \$300,000.

TABLE 14. Imports of Specified Fabricated Metal Products, 1959 and 1960

Item	1959		1960	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Forgings, of iron or steel in any degree of manufacture n.o.p. ..	..	1,550,154	..	1,425,048
Forgings, of iron or steel, hollow, not less than 12 inches in internal diameter; and forgings 20 tons or over .....	..	832,197	..	560,244
Cable chains for ships	11,229	186,802	14,404	214,869
Coil chain, links, shackles, 1 1/8 inches in diameter and over	23,053	288,788	22,313	212,556
Coil chain, links, shackles, less than 1 1/8 inches in diameter	17,471	339,398	21,313	367,318
Malleable sprocket chain and link belting chain, including roller chain for the manufacture of agricultural implements ..	..	1,408,233	..	967,367
Silent chain and finished roller chain, and parts n.o.p. ....	..	2,919,487	..	3,072,840
Chains n.o.p. and parts .....	..	955,889	..	863,131
Pipe fittings and couplings, steel, welding type n.o.p. ....	..	2,758,289	..	3,427,341
Pipe fittings and couplings, iron or steel n.o.p. ....	..	8,356,396	..	8,192,671
Fire extinguishers, hand, and sprinkler heads for automatic sprinkler systems .....	..	1,764,737	..	1,394,194
Baths, bathtubs, of iron or steel coated or not .....	..	696,202	..	438,424
Basins, closets, lavatories, urinals, sinks and laundry tubs, of iron or steel, coated or not .....	..	1,264,525	..	969,814

TABLE 14. Imports of Specified Fabricated Metal Products, 1959 and 1960 - Concluded

	1959		1960	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Guns, rifles, including air guns and air rifles, not being toys ..		1,120,725	..	755,645
Guns and rifles of a class or kind not made in Canada, and complete parts thereof ..		4,886,870	..	4,389,748
Safes; doors and door frames for safes and vaults ..		1,614,474	..	1,566,952
Steel wool, including steel wool impregnated with soap, or in a package with soap ..		155,049	..	149,671
Valves, iron and steel n.o.p. and parts ..		10,911,817	..	11,507,220
Valves, brass plated or not, and parts ..		4,936,620	..	4,950,124
Meters n.o.p. of brass, and parts ..		365,276	..	351,228
Plumbers' brass goods, plated or not ..		5,726,883	..	4,909,191
Collapsible tubes of aluminum, lead or tin ..		64,793	..	118,124
Gas meters and complete parts ..		1,865,550	..	1,845,563

TABLE 15. Exports of Specified Fabricated Metal Products, 1959 and 1960

Item	1959		1960	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Forgings of iron and steel, rough ..	77,574	1,451,096	70,938	1,538,215
Pipe fittings of iron and steel	225,877	..	267,815
Chains, tire, of iron and steel	2,591	..	300
Chains of iron and steel n.o.p.	74,688	..	119,256
Guns, rifles and other firearms of all kinds	69,691	..	312,686
Lamps and lanterns of metal	1,106,686	..	822,018
Iron valves	1,454,842	..	1,675,479
Plumbing fixtures and plumbing brass	138,575
Brass valves	412,801	-	335,869

Directory of Firms: Miscellaneous Metal Fabricating Industries, 1960

Name	Address
Newfoundland:	
McNamara Industries Ltd.	Topsail Rd. St. John's
Nova Scotia:	
Dominion Steel & Coal Corp. Ltd., Trenton Steel Division	Trenton
Maritime Steel & Foundries, Limited	Glasgow St., New Glasgow
New Brunswick:	
McAvity T. & Sons Ltd.	Rothesay Ave. Saint John
St. Stephen Steel Company Ltd. (Maritime Steel & Foundry Ltd.)	St. Stephen
Québec:	
Acton Nipple Inc.	1400 St. Andre Actonville
Argo Co. The	716 St. James St. Montreal 1
Beaver Metal Weatherstrip Reg'd	8785 St. Denis St. Montreal 11
Booth-Coulter Coppersmithing Co. Ltd.	997 Smith St. Montreal
Canadian "Cinch" Anchoring Systems Ltd.	2095 Madison Ave. Montreal 28
Canadian Hat Block & Dies Co.	705 Notre Dame St. W. Montreal
Canadian Lightning Protection	2540 Lyall St. Montreal 5
Canavan Explosion Venting Systems Ltd.	2140 Belgrave Ave. Montreal 28
Champagne, Robert	46 Albert, Sorel
Crane Limited	3800 St. Patrick St., Montreal
Crane Steelwares Limited	Industrial Centre #5. Quebec
Croname (Canada) Ltd.	50 Taylor St. E. Waterloo
Crown Welding Co.	460 rue Fairfield, Greenfield Park
Cuthbert, W. R., & Co. Ltd.	47 Duke St. Montreal
Dominion Hat Block & Die Co.	7060 Alexandra St. Montreal 10
Dominion Joints	5492 Decaire Blvd., Montreal
Dominion Welding Engineering Co. Ltd.	6898 Notre Dame St. E. Montreal 5
Economic Weatherstrip	8671 - 10th Ave. Ville St. Michel
Fayle Coppersmith Works Ltd.	910 Smith St., Montreal
Federal Weatherstrip Inc.	9478 Hamelin Ave. Montreal
Freeman Corporation	Cap-de-la-Maleleine
Gaulin, Athanase	Montmagny
G.D. Engineering Reg'd.	8692 - 9th Ave., Ville St. Michel
Golden Gate Mfg. Co. Ltd.	361 Youville St., Montreal
Guard-X Reg'd	5875 Papineau Ave. Montreal
Guyot Arthur & Fils Ltée	1031A Rachel Est. Montreal
Hard & Soft Metal Works	5780 Boyer St. Montreal
Harris Steel Corporation	45 St. Joseph St. Lachine
Hartco Steel Products Limited	Theftford Mines
Ideal Weatherstrips Reg'd.	4660 Blvd. Hentre-Bourassa, Charlesbourg
Jenkins Bros. Ltd.	Lachine
Kiddie Walter & Co. of Canada Ltd.	5500 Royalmount Ave., Montreal 9.
Laliberte, P.E.	742 Rue Fleurie, Quebec
Les Ateliers Emile Couture Ltée	61 Ouest Rue Jacques Cartier, Chicoutimi
L'Islet Metal Inc.	L'Isletville
Marois, Aurel	Montmagny
Metal Powders Inc.	15 St. Joseph Blvd., Lachine
Modern Metal Spinning Reg'd.	4249 Frontenac St. Montreal 34
Montebello Metal Ltd.	Montebello
Montreal Bronze Limited	999 Delorimier Ave., Montreal
Montreal Metal Heat Treating Co. Ltd.	5760 Cartier Montreal 35
Ontario Metal Spinning Co.	2279 Coupal St., Montreal
Ouellette Messrs. O.J. Inc.	958 N. Dominique Montreal
Peacock Bros. Ltd.	260 St. Patrick St. Ville De La Salle
Piper, Hiram L., Co. Ltd.	555 St. Remi Montreal
Precision Silk Screen	32A. Milton Ave. Ville St. Pierre
Produits, Universa Inc.	Beauport
Progress Factory Supplies Reg'd.	490 Ash Ave. Montreal
R.C.R. Products Ltd.	6413 Azilda Ave., Ville d'Ajou
Regent Brass Ltd.	7399 St. Hubert St. Montreal 10
Reno Metal Specialties Ltd.	8422 - 10 teme Ave. Ville St. Michel
Robb, Joseph & Co. Ltd.	5575 Cote St. Paul Rd., Montreal 20
Robertson, James Co., Ltd.	948 William St. Montreal
Roy, Irene, Ltée.	315 Rue Rousseau Theftford Mines
Safety Equipment Co. Ltd.	2115 Old Orchard Montreal
Security Safes Ltd.	4345 Majeau St. Montreal 39
Spinning Craft Co. Ltd.	2126 De La Salle St. Montreal
Tritton Enterprises Ltd.	3595 Monselet Blvd. Montreal N.
Truscon Steel Co. of Canada Ltd.	6001 Irwin St. Ville La Salle
Universal Metal Works Inc.	1450 Provincial St. Quebec 8
Ville Emard Metal Spinning Reg'd.	5701 Chemin Cote St. Paul Montreal 20
Ontario:	
Ace Alloys	129 Tecumseh St. Toronto 3
Acme Brass Co.	92 Laird Dr. Toronto
Acrow (Canada) Ltd.	John St. Orangeville
Aerometal Products & Design Ltd.	195 Bentworth Ave. Toronto
Allied Heat Treat Ltd.	368 Munster Ave. Toronto 18
Allsteel Rolled Products Ltd.	100 Canadian Rd. Scarborough
Alward, R., & Son	Straffordville
American Standard Prod. (Canada) Ltd.	800 Lansdowne Ave. Toronto
AMF Atomics (Canada) Ltd.	Port Hope
Apex Bolt Products of Canada	28 Milford Ave. Toronto 15
Armson Iron Works Ltd.	1558 Howard St. Windsor
Astlett, H.A., & Co. (Canada) Ltd.	155 Curtis St., St. Thomas
Barco Manufacturing Co. of Canada Ltd.	3500 Ontario St. Walkerville

Directory of Firms: Miscellaneous Metal Fabricating Industries, 1960 - Continued

Name	Address
Ontario - Continued:	
Bernstein, K.	21 Kensington Ave. Toronto
Best Weather Strip Co. Ltd.	R.R. 7, Brantford
Beverly Steel & Fabricating	180 Beverly St. N. Galt
Booth, W.E. Co. Ltd.	12 Mercer St. Toronto 2B
B. & P. Mfg. Co.	2366 Gerrard St. E. Toronto 13
Brasier, Frank, & Co.	12 Oakland Ave., Toronto
Brem Enterprises	200 Bedford Rd., Toronto
Brooks Mfg. Co. Ltd.	366 Rogers Rd. Toronto 10
Bryan Chrome Products	666 King St. W. Toronto
Canada Block Co. Ltd.	20 Division St. St. Catharines
Canada Valve & Hydrant Co. Ltd.	44 Holme St. Brantford
Canadian Advance Car Mover Co. Ltd.	145 Ross St. Welland
Canadian Arsenals Ltd.	100 Albert St. S. Lindsay
Canadian Arsenals Ltd.	Long Branch
Canadian Brass Ltd.	415 Dundas St. Galt
Canadian Coupling & Fittings Ltd.	390 Second Ave. Simcoe
Canadian Foundries & Forgings Ltd.	Empire St. Welland
Canadian Foundries & Forgings Ltd.	Major St. Welland
Canadian General Filters Ltd.	39 Crockford Blvd., Scarborough
Canadian Meter Co. Ltd.	10th Sideroad & Bronte St., Milton
Canadian Pipe & Steel Fabricators	160 Duchess St. Toronto 2
Canadian Racall Co.,	39 Colbourne St. E. Lindsay
Canadian Steel Improvement Ltd.	289 Horner Ave., Toronto 14
Canadian Vac-Hyd. Processing Ltd.	661 3rd Line N. Oakville
Carrolls Canadian Metals	3141 Danforth Ave. Toronto 13
Cello Products Ltd.,	Avenue Rd., Galt
Chamberlin Metal Weatherstrip Co. Ltd.	5 Centre St. London
Chesley-Sarnes Ltd.	Essex
Chubb Safe Co. Ltd.	577 Oxford St. Toronto
Columbus McKinnon Ltd.	Ontario St. St. Catharines
Cooley H.W. Machine & Arms Co. Ltd.,	415 King St. W. Cobourg
Cooper Bros & Wilson	4-6 Kelvin Ave. Toronto 13
C-O-Two Fire Equipment of Canada Ltd.	91 East Don Roadway Toronto
C & P Accessories Ltd.	2777 Dundas St. W. Toronto 9
Crane Piping Limited	835 Beach Rd. Hamilton
Crawford Fittings (Canada) Ltd.	605 Kent Ave., Niagara Falls
C. & R. Metal Products Ltd.	1141 Kelly Lake Rd. Sudbury
Coulter Cooper & Brass Co. Ltd.	115 Sumach St. Toronto 2
Crowley Steel Fabricating & Stamping Co.	1 Bond St. N. Dundas
Dahl Brothers (Canada) Ltd.	84 Queen Elizabeth Rd. Toronto 11
Dart Union Co. of Canada Ltd.	17 Charlotte St. Toronto 2B
Delhi Ornamental Iron Works	256 James St. Delhi
Diamond Tool & Horse Shoe Co.	580 Front St. W. Toronto 2B
Diebold of Canada Ltd.	258 Wallace Ave. Toronto 9
Dillon Mfg. Co.	82 Ontario St. Toronto 2
Dodd & Struthers Ltd.	1721 Moy Ave. Windsor
Dominion Brake Shoe Co. Ltd.	256 Portage Rd. Niagara Falls
Dominion Forge Ltd.	2480 Seminole St. Windsor
Dominion Lightening Rod Co. Ltd.	Mill St., Dundas
Dominion Sink Ltd.	Albany St. Petrolia
Dominion Welding Engineering Co. Ltd.	2805 Dufferin St., Toronto 19
Domus Engineering Co.	330 Geary Ave. Toronto 4
Durham Pure Copper Lightning Conductor	Queen St. Durham
Emberley Enterprises Ltd.	57 Raleigh Ave. Toronto 10
Emco Ltd.	1108 Dundas St. E. London
Express Metal Spinning	6 Phoebe Toronto
Ferguson Tools Ltd.	8 Ripley Ave., Swansea
Flaherty Mfg. Co. Ltd.	76-78 Wellington St. N., Hamilton
Flexconics Corp. of Canada Ltd.	134 Nelson St. W. Brampton
Fortune Valve Co. Ltd.	42 St. James St. N. Hamilton
Franklin Metal Products	202 Pelham Rd. St. Catharines
Fyr Fyter Co. of Canada	136 Manitoba Ave. Toronto
Galt Brass Co. Ltd.	471 Dundas St. Galt
Galt British Forge Ltd.	204 Beverly St. Galt
General Die & Machine Co. Ltd.	34 Major St. E. Welland
General Fire Extinguisher Corp. (Canada) Ltd.	978 St. Luke Rd. Windsor
General Impact Extrusions Ltd.	191 Evans Ave., Toronto 18
Gilbert Steel Ltd.	Britannia Rd. Malton
Glitsch, Fritz W. & Sons (Canada) Ltd.	18 Dallas St. Uxbridge
Goddard Machine & Stamping Co.	49 Lucy Ave., Scarborough
Great Lakes Forgings Ltd.	740 Matthew Brady Blvd. Riverside
Gregory Fasteners Ltd.	108 Tycos Dr. Toronto 19
Grinnell Co. of Canada Ltd.	427 Lakeshore Blvd. W. Toronto 2B
Guardian Mfg. Ltd.	10 Brock St. Brockville
Guelph Engineering Co. Ltd.	10 Kingsmill Ave. Guelph
Harjohn Industries Ltd.	Grantham Ave. St. Catharines
Hercules Shaft Splice Co.	167 Queen St. Stratford
Hose Couplings Ltd.	Water St. Simcoe
H. & S. Commercial Heat Treat	R.I. Welland
Imperial Plating Rack Co. Ltd.	Oxford St. E., London
Industrial Fabricators	209 Tunnel St. Sarnia
Irwin, G.J.	91 Forest Guelph
Jacka, E., Metal Fabricating Co.	15 Towns Rd. New Toronto
Jensen Fitting Mfg. Ltd.	1902 Mattawa Ave. Summerville
Jessop Steel of Canada Ltd.	Wallaceburg
Josam Products Ltd.	130 Bermondsey Rd. Toronto 15
Kaiser, E.B., Co. (Canada) Ltd.	Drake St., Oshawa
Kee Klamp North America Ltd.	10 Leswyn Rd., Toronto 19
Keystone Valve (Canada) Ltd.	54 Advance Rd., Toronto 18
Kilian Mfg. Corp. (Canada) Ltd.	90 Queen Elizabeth Blvd. Toronto 18

Directory of Firms: Miscellaneous Metal Fabricating Industries, 1960 - Continued

Name	Address
Ontario - Concluded:	
Kitchen Installations Ltd.	Ajax
Klassen Bronze	New Hamburg
Kurly Kate (Canada) Ltd.	42 Gladstone Ave., Toronto 3
Ladish Co. of Canada Ltd.	Park Rd. N. Brantford
Lauder Brass Ltd.	107 Toryork Rd. Weston
Linde Air Products Co.	805 Davenport Rd., Toronto 4
Lofthouse Brass Mfg. Co.	Whitby
Luckock, Richard C.	527 Crawford St., Toronto 4
Magcoa Ltd.	55 Penn Dr. Weston
Magline of Canada Ltd.	Hwy. 17. Renfrew
Manning Maxwell & Moore of Canada Ltd.	200 Avenue Rd., Galt
Manufacturer's Metal Products	1951 Mattawa Ave. Summerville
Matthews, Jas. H. & Co. (Canada) 1959 Ltd.	Nipissing Rd. Milton
Metal Bendings & Furniture Ltd.	43 Colville Rd. Toronto 3
Metal Textile Corp. of Canada Ltd.	126 Catharine St. N. Hamilton
Midland Equipment Co.	21 Raleigh Ave. Scarborough
Millard & Lumb Ltd.	Place d'Armes, Kingston
Millman, Messrs. W.H. & Sons	36 Brydon Dr., Rexdale
Modern Containers Ltd.	1190 Birchmont Rd., Scarborough
Modern Handling Methods Ltd.	55 Head St. Dundas
Moeller Mfg. Co. (Canada) Ltd.	1760 Valley Way, Niagara Falls
Monsa Steel Ltd.	1121 Castlefield Ave., Toronto 19
Moore's Manufacturing Steel Prod.	1005 St. Lawrence Ave., Niagara Falls
Morrison, James Brass Mfg. Co. Ltd.	276 King St. W. Toronto 2B
Mosler-Taylor Safes Ltd.	263 Queen St. E., Brampton
Mueller Ltd.	Clifford St. Sarnia
Myatt, E., Co. Ltd.	21 Carlaw Ave., Toronto 8
Nallon Products Co.	247 Duke St. W., Kitchener
Neat End Cigarette Maker	130 Leyton Ave. Scarborough
Neosid (Canada) Ltd.	10 Vansco Rd. Toronto 18
Neptune Meters Ltd.	1430 Lake Shore Rd. Long Branch
Niagara Terrazzo Supplies Ltd.	316 Second Ave. Niagara Falls
Nicol Manufacturing Co.	32 Brydon Dr. Rexdale
North America Arms Corp. Ltd.	1480 Birchmount Rd., Scarborough
Oliver-Woods Metal Spinning Co.	8 Beaconsfield Ave., Toronto 3
OPW-Jordan Ltd.	1 Six Points Rd. Toronto 18
Otaco Limited	West St. S. Orillia
Parcoll Products Ltd.	3560 Albion Rd. R. 4 Ottawa
Parkinson Cowan (Canada) Ltd.	830 Richmond St. Chatham
Paverless Plating Rack Co.	200 Bedford Rd. Toronto 5
Peninsula Fittings (St. Catharines) Ltd.	Ashland Ave. N. St. Catharines
Porth Metal Industries Ltd.	128 Monteith Ave., Stratford
Phillips, G.E., Ltd.	3293 Dufferin St. Toronto 10
Phillips Lighting Rod Co. Ltd.	32 Osborne Ave. Toronto 13
Phoenix Mfg. Co.	Fulton St. S., Milton
Pinder Bros. Ltd.	2 Otonabee St. W. Willowdale
Port Hope Sanitary Mfg. Co. Ltd.	Port Hope
Powco Steel Products Ltd.	24 Ingram Drive, Toronto 15
Pratt, Austin	125 Berkeley St. Toronto 2
Prescott Brass Mfg. Co. Ltd.	Corrine St., Prescott
Process Equipment Mfrs. Ltd.	325 Hale St. London
Pyrene Mfg. Co. of Canada Ltd.	91 East Don Roadway, Toronto 6
Reinforcing Steel Products Co.	200 New Toronto St. New Toronto
Ric-Wil Co. of Canada Ltd.	Wellington St. St. Thomas
Roberts Art, & Son	1021 Barton St. E. Hamilton
Rockiron Company Limited	67 Junction Rd., Sudbury
Rockwell Mfg. Co. of Canada Ltd.	40 Wellington St., Guelph
Roper Steel Construction Co.	2902 Eglinton E. Scarborough
St. Lawrence Steel & Wire Co. Ltd.	Mill St. Gananoque
Seeley J.W., Industries Ltd.	Holland St. Dundalk
Selck, Walter E., & Co. Canada Ltd.	53 Tycos Dr. Toronto 19
Sheepbridge Engineering (Canada) Ltd.	265 Edinburgh Rd. Guelph
S. & S. Metal Spinning Co.	3298 Dundas St. W. Toronto 9
Stanley Manufacturing Co. Ltd.	Main St. Toronto
Star Expansion Industries Ltd.	1061 Queensway Toronto 14
Steel Co. of Canada Ltd.	Gananoque
Sun Tube of Canada Ltd.	145 Spruce St. Ottawa
Taylor Forge & Pipe Works of Canada Ltd.	777 Beach Rd., Hamilton
Thamesville Metal Products Ltd.	Wallace St. Thamesville
Thermalite, S.D.M., Ltd.	45 Research Rd. Toronto 17
Tonner, Gordon	Oxford St., Elgin Mills
Toronto Coppersmithing Co. Ltd.	80 Knox Ave., Toronto 8
Toronto Fitting & Foundry	365 Bering Ave., Etobicoke
Tube Turns of Canada Ltd.	21 York St. Ridgetown
United Bronze Co.	R. 3. Kitchener
United Flexible Metallic Tubing (Canada) Ltd.	128 Centre St. E. Richmond Hill
Universal Form Clamp Co. of Canada Ltd.	226 Norseman St. Toronto 18
Up-Right Scaffolds Ltd.	120 Russett Ave. Oshawa
Victor Metal Containers Ltd.	30 Bermondsey Rd., Toronto
Victory Metal Works	218 John St. Toronto
Wallaceburg Ball Chain Mfg. Co.	918 Dufferin Ave., Wallaceburg
Wallaceburg Brass Limited	1355 Wallace St. Wallaceburg
Wallaceburg-Singer Ltd.	Libby St. Wallaceburg
Waterloo Spring Co. Ltd.	102 Breithaupt St. Kitchener
Welland Vale Mfg. Co. Ltd.	Phelps St. St. Catharines
West Brant Apiary Supplies	224 Colborne St. W. Brantford
Williamson T.D., Canada Ltd.	271 Queen St. E. Brampton
Wilson & Cousins Co. Ltd.	240 Birmingham St. New Toronto
Wolverine Brass Co. Ltd.	918 Palmerston Ave. Toronto 4
York Metal Spinning & Specialties Ltd.	35 Industrial Rd., Richmond Hill
Zowle Products	12 Ashland Ave. Toronto 8

Directory of Firms: Miscellaneous Metal Fabricating Industries, 1968 - Concluded

Name	Address
Manitoba:	
Canadian Electric & Brass Co. Ltd.	574½ Minto St. Winnipeg
Cowin & Co. Ltd.	1137 Pacific Ave. Winnipeg 3
Deeley Metal Weatherstrip	921 Redwood Ave., Winnipeg 4
Klassen Bros.	421 Edison Ave., Winnipeg 5
Made-Well Mfg. Co.	Sifton
Manitoba Bridge & Engineering Works Ltd.	845 Logan Ave. Winnipeg
Northwestern Brass Ltd.	Bury St. Winnipeg
Rosedale Mfg.	348 Lansdowne, Winnipeg 4
Swan Manufacturing Co.	394 Alexander Ave., Winnipeg
Wawanesa Mutual Insurance Co.	Wawanesa
Saskatchewan:	
Acme Industries Ltd.	182 Wall St. Saskatoon
Bridge City Steel Ltd.	Hwy. 14 West, Saskatoon
Commercial Shearing Limited	401 Manitoba East, Moose Jaw
East, John, Iron Works Ltd.	125 Avenue "C" N., Saskatoon
Fudge's Industries	Moosomin
Westcon Forming Products Ltd.	1801 Ontario Ave., Saskatoon
Alberta:	
Alta. Bend Ltd.	12230 - 66th St. Edmonton
Calgary Iron & Engineering Ltd.,	410-420 - 9th Ave. E. Calgary
Canadian Meter Co.	9919 - 65th Ave., Edmonton
Lethbridge Iron Works Co. Ltd.	120 - 1st Ave. S. Lethbridge
McAvity T. & Sons (Western) Ltd.	801 Smelter Ave., Medicine Hat
Northwestern Brass Ltd.	1609 - 24th Ave. E., Calgary
Scott, S.F. Mfg. Co. Ltd.	766 - 14th S.W. Medicine Hat
Winspun Copper & Brass Ltd.	4303 - 17th Ave. S.E., Forest Lawn
Wittke Iron Works	2221 - 15th Ave., Medicine Hat
British Columbia:	
Advance Industries Ltd.	2034W - 12th Ave., Vancouver 9
Alliance Ware Ltd.	1590 Powell St., Vancouver 5
Alumaloc	367 Water St. Vancouver
Art's Aluminum & Brass Foundry Ltd.	9208 Hudson St., Vancouver
Brass Mfg. Co. Ltd.	1070 Island Hwy., Campbell River
Bobbie Equipment & Welding Co. Ltd.	1915 Fir St. Vancouver 9
Canada Chain & Forge Co. Ltd.	Granville Island Vancouver 9
Canadian Norwegian Chain Co. Ltd.	Granville Island
Canadian Valve Engineering Co.	1924 Franklin St. Vancouver 6
Capilano Metal Products Ltd.	250 Pemberton St., North Vancouver
Cascadian Mfg. Co. Ltd.	2139 East Hastings St., Vancouver 6
Coast Metal Craft	624 Queens Ave. Victoria
Edwards Welding Limited	737 Broughton St., Victoria
Elett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver 10
Fletcher Lock & Safe Co. Ltd.	328 W. Cordova St. Vancouver 3
Hastings Brass Foundry Ltd.	236 Clark Dr. Vancouver 6
Kamloops Steel Fabricators Ltd.	194 Victoria St. W., Kamloops
Leigh's Weatherstrips	736 Newport Ave., Victoria
Lister Bolt & Chain Works Ltd.	2021 Alberta St. Vancouver 10
Micon Products Ltd.	Granville Island Vancouver 9
McBain, A.J., Ltd.	1968 W. Georgia St. Vancouver 5.
McQuat Industries Ltd.	1500 Pemberton Ave., North Vancouver
Metalax Ltd.	251 #5 Road, Richmond
Metal Distributors Ltd.	7220 Govt Rd., North Burnaby
Monumental Bronze Crafts Ltd.	210 Salsbury Dr. Vancouver
Motor Specialty Manufacturers Ltd.	475 Clark Dr. Vancouver 6
National Shield Weld Ltd.	456 E., 5th Ave., Vancouver
Pacific Aluminum House Ltd.	720 Homer St. Vancouver 3
Premier Engineering & Iron Works	6984 Kingsway, Burnaby 1
Rain Bird Sprinkler Mfg. Co. (Canada) Ltd.	42 E. Cordova St., Vancouver 4
Ross & Howard Iron Works Co. Ltd.	Ft. Woodland Dr., Vancouver
Samco Engineering Ltd.	911 Beckwith Rd., Richmond
Spin Craft Mfg. Co.	1599 Venables St. Vancouver 6
West Coast Metal Products	1205 Glen Drive Vancouver 6
Western Corrosion Engineering Ltd.	882 East Cordova, Vancouver
Wilfro Mfg. Co. Ltd.	880 Clark Dr. Vancouver 6

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