

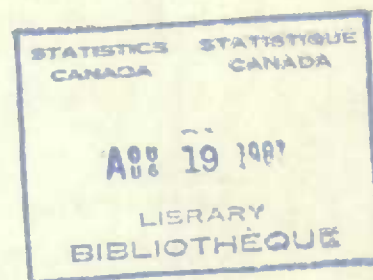
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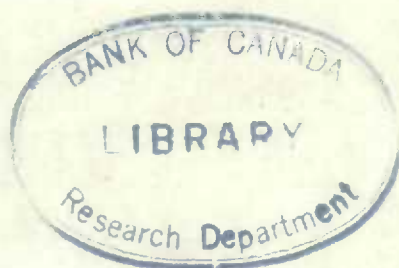
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# THE MACHINERY INDUSTRY

1959 (*last volume*)

*For subsequent reports see 42-209 - 42-216*



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## PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Iron and Steel Products Major Group** are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

**A — Annual**

**M — Monthly**

**S.C. — Special Compilation**

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## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 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. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

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 1959 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, warehousing 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 of 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.<sup>1</sup>

### **Standard Industrial Classification**

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

### **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.

<sup>1</sup> 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*.

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.

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.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.



# THE MACHINERY INDUSTRY

1959

Factory shipments by firms in the Machinery Industry were valued at \$495,605,795 in 1959, an increase of 8.1 per cent over the 1958 total of \$458,426,879. The 458 firms which reported in this group for 1959 were distributed across Canada as follows: 2 in Newfoundland; 3 in New Brunswick; 5 in Nova Scotia; 88 in Quebec; 285 in Ontario; 16 in Manitoba; 7 in Saskatchewan; 6 in Alberta and 46 in British Columbia. These plants gave employment to a total of 34,275 workers who were paid \$147,809,141 in salaries and wages. Materials worth \$222,848,325 were purchased for use in manufacturing processes and an additional \$4,741,764 were spent for fuel and electricity.

This industry covers the operations of iron and steel works which were occupied chiefly in making industrial, household, office and business machinery, and machine tools. Farm implements and machinery and electrical machinery and supplies are covered by separate reports. Some concerns in other industrial groups made machinery as secondary or minor products so the production figures for the Machinery Industry do not necessarily represent the total Canadian output of the commodities listed. Detailed production data for the Machinery Industry only are given in Table 4, while Table 6 summarizes the total machinery production as assembled from all industries. In 1959 the total output of machinery

from all industries was \$692,737,000 compared with \$681,005,000 in the previous year.

Products made in this industry included washing machines and ironers, cash registers, sewing machines, typewriters, transmissions machinery, pulp and paper machinery, elevators, air compressors, rock drills and mining machinery, roadmaking machinery, gasoline-dispensing pumps, machine tools, rolling mill machinery, etc.

The new Standard Industrial Classification, which has been used by the Dominion Bureau of Statistics in its compilations since 1949, provides for a breakdown of the machinery group into three divisions: (a) Household, office and store machinery; (b) Machine tools; (c) Machinery, n.e.c. The latter category includes establishments primarily engaged in manufacturing special industrial machinery, such as textile machinery, wood-working machinery, pulp and paper machinery, engines and turbines, mining machinery, conveyor systems and elevators, etc. Data given in Tables 1, 4, 5, 7 to 12 relate to the machinery group as a whole but the principal statistics and inventory data for the three groups are detailed in Tables 2 and 3.

The letters "n.e.c." appearing throughout this report mean "not elsewhere classified".

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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.

**TABLE 1. Principal Statistics of the Machinery Industry, Significant Years 1929-59  
and by Provinces, 1958 and 1959**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
	number				dollars		
1929 .....	169	12,435	17,091,918	684,629	22,264,416	42,743,494	65,692,539
1933 .....	189	6,317	6,575,848	452,903	6,787,924	11,672,099	18,912,926
1937 .....	214	12,638	16,059,392	759,245	22,204,200	34,133,371	57,096,816
1939 .....	232	12,248	15,847,861	812,624	18,099,490	29,546,294	48,458,408
1942 .....	255	27,354	47,707,573	1,665,258	52,950,771	104,755,759	159,371,788
1946 .....	299	27,003	50,246,824	1,845,981	50,760,795	93,031,472	145,638,248
1949 .....	366	30,070	73,651,359	2,634,883	90,721,553	147,345,167	240,701,603
1955 .....	408	33,308	119,231,092	3,938,891	152,975,546	210,620,944	368,424,434
1956 .....	414	37,520	142,114,170	4,333,548	213,150,950	274,427,766	471,197,174
1957 .....	442	38,915	151,362,532	4,638,720	227,679,809	294,618,738	520,733,165
<b>1958</b>							
Newfoundland .....	2	178	673,860	36,431	677,605	811,338	1,658,532
New Brunswick .....	3						
Nova Scotia .....	5	207	730,653	40,588	730,619	1,145,544	1,941,911
Quebec .....	89	9,760	36,236,105	1,283,023	53,928,857	54,734,470	115,882,729
Ontario .....	286	21,033	89,361,589	2,880,023	140,860,000	171,582,978	318,551,144
Manitoba .....	16	444	1,677,421	67,488	2,132,349	3,211,373	5,401,745
Saskatchewan .....	7	112	386,713	20,550	418,685	497,328	1,050,720
Alberta .....	8	113	439,113	14,882	741,353	1,595,689	2,320,143
British Columbia .....	48	1,098	4,592,028	151,545	4,371,617	6,438,835	11,619,955
<b>Canada .....</b>	<b>464</b>	<b>32,945</b>	<b>134,097,482</b>	<b>4,494,530</b>	<b>203,861,085</b>	<b>240,017,555</b>	<b>458,426,879</b>
<b>1959</b>							
Newfoundland .....	2	178	724,613	40,780	725,466	1,044,062	1,825,141
New Brunswick .....	3						
Nova Scotia .....	5	198	709,114	30,336	536,962	1,134,547	1,623,938
Quebec .....	88	9,122	36,198,380	1,259,923	51,510,534	64,387,614	118,566,483
Ontario .....	285	22,746	101,485,797	3,073,481	158,751,564	195,783,919	348,786,512
Manitoba .....	16	491	1,898,168	78,201	2,687,834	3,125,049	5,731,972
Saskatchewan .....	7	145	519,386	24,552	580,769	799,123	1,501,174
Alberta .....	6	107	448,783	13,044	715,737	625,457	1,339,060
British Columbia .....	46	1,288	5,824,900	221,447	7,339,459	9,005,370	16,231,515
<b>Canada .....</b>	<b>458</b>	<b>34,275</b>	<b>147,809,141</b>	<b>4,741,764</b>	<b>222,848,325</b>	<b>275,905,141</b>	<b>495,605,795</b>

<sup>1</sup> Figures for value added by manufacture, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

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

TABLE 2. Principal Statistics, by Sub-groups,<sup>1</sup> 1958 and 1959

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture	Value of factory shipments
1958	number		dollars				
Household, office and store machinery .....	71	8,557	33,950,426	1,046,201	64,616,295	68,096,143	135,976,609
Machine tools .....	14	1,041	4,544,639	157,175	5,820,566	4,478,466	11,355,414
Machinery, n.e.c. ....	379	23,347	95,602,417	3,291,154	133,424,224	167,442,946	311,094,856
<b>Totals .....</b>	<b>464</b>	<b>32,945</b>	<b>134,097,482</b>	<b>4,494,530</b>	<b>203,861,083</b>	<b>240,017,555</b>	<b>458,426,879</b>
1959	number		dollars				
Household, office and store machinery .....	72	8,456	35,962,341	1,026,888	69,880,576	70,368,271	141,218,274
Machine tools .....	13	1,014	4,532,800	165,982	5,118,182	5,606,880	10,892,562
Machinery, n.e.c. ....	373	24,805	107,314,000	3,548,894	147,849,567	199,929,990	343,494,959
<b>Totals .....</b>	<b>458</b>	<b>34,275</b>	<b>147,809,141</b>	<b>4,741,764</b>	<b>222,848,325</b>	<b>275,905,141</b>	<b>495,605,795</b>

<sup>1</sup> Sub-division made on basis of principal products.TABLE 3. Inventories,<sup>1</sup> 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
(a) By sub-groups	dollars			
Opening:				
Household, office and store machinery .....	14,555,541	10,413,088	14,028,680	38,997,309
Machine tools .....	1,103,447	836,590	1,016,938	2,956,975
Machinery, n.e.c. ....	35,601,426	25,625,826	29,770,427	90,997,679
<b>Totals .....</b>	<b>51,260,414</b>	<b>36,875,504</b>	<b>44,816,045</b>	<b>132,951,963</b>
Closing:				
Household, office and store machinery .....	17,216,463	9,685,050	14,814,179	41,715,692
Machine tools .....	1,146,013	1,088,337	763,673	2,998,023
Machinery, n.e.c. ....	37,695,186	29,078,256	34,151,489	100,924,931
<b>Totals .....</b>	<b>56,057,662</b>	<b>39,851,643</b>	<b>49,729,341</b>	<b>145,638,646</b>
(b) By provinces				
Opening:				
Newfoundland and New Brunswick .....	359,931	167,214	90,524	617,669
Nova Scotia .....	326,853	198,377	231,778	757,008
Quebec .....	9,189,571	9,151,035	14,417,156	32,757,762
Ontario .....	38,810,411	26,348,581	28,254,395	93,413,387
Manitoba .....	394,364	147,809	359,438	901,611
Saskatchewan .....	308,330	152,017	296,237	756,584
Alberta .....	174,828	47,780	44,740	267,348
British Columbia .....	1,696,126	662,691	1,121,777	3,480,593
<b>Canada .....</b>	<b>51,260,414</b>	<b>36,875,504</b>	<b>44,816,045</b>	<b>132,951,963</b>
Closing:				
Newfoundland and New Brunswick .....	386,968	145,339	97,566	629,873
Nova Scotia .....	305,792	215,931	292,131	813,854
Quebec .....	8,625,502	8,665,561	13,494,218	30,785,281
Ontario .....	43,925,220	29,509,397	33,916,031	107,350,648
Manitoba .....	531,077	227,205	439,154	1,197,436
Saskatchewan .....	263,490	119,853	231,671	615,014
Alberta .....	177,837	52,651	55,047	265,535
British Columbia .....	1,841,776	915,706	1,203,523	3,961,005
<b>Canada .....</b>	<b>56,057,662</b>	<b>39,851,643</b>	<b>49,729,341</b>	<b>145,638,646</b>

<sup>1</sup> (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Machinery Industry for the year under review are shown in the above table.

(c) The opening inventory for 1959 does not necessarily agree with the closing inventory for 1958 because of revisions such as the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.



TABLE 4. Products Made by Firms Included in the Machinery Industry, 1958 and 1959

Item	Value of factory shipments	
	1958	1959
	dollars	
Compressors, pumps and parts:		
Air compressors .....	6,555,679	6,514,066
Pumps and parts .....	22,484,732	21,904,975
Conveying, elevating, materials handling equipment and parts:		
Conveyors and conveying systems and parts .....	15,586,359	19,127,937
Elevators and parts .....	14,317,113	14,927,247
Hoisting machinery (except mine hoists) and parts .....	7,577,817	7,611,734
Industrial trucks, tractors, trailers and stackers and parts .....	3,571,121	3,105,430
Miscellaneous materials handling equipment and parts .....	3,573,776	3,035,731
Drilling, excavating, mining and related machinery and parts:		
Rock drilling, earth boring and related machinery and parts .....	11,641,477	11,014,058
Excavating, dredging and loading equipment and parts .....	11,972,356	14,962,906
Mining and ore processing machinery and parts .....	14,747,546	12,979,122
Construction machinery and parts .....	8,498,995	11,566,390
Engines and parts .....	36,381,602	38,404,108
Fire-fighting equipment .....	2,932,436	2,790,093
Food products machinery (including beverages and tobacco) machinery and parts:		
Bakers' machinery and parts .....	2,138,429	2,062,357
Dairy and milk product plant machinery .....	1,306,468	807,336
Flour and grist mill machinery .....	405,909	370,738
Food products machinery, other, and parts .....	1,272,875	1,182,599
Foundry equipment (core-making machines, moulding machines, casting machines, shake-out equipment, etc.) .....	311,948	430,070
Household machinery and parts:		
Washing machines .....	23,885,593	23,800,192
Other household machinery and parts .....	25,721,442	25,202,079
Metal-working machinery and parts:		
Machine tools, metal-working and parts .....	5,967,261	4,688,365
Metal-working machinery (except machine tools) and parts .....	3,867,822	3,011,369
Miscellaneous general purpose industrial machinery and parts:		
Wrapping and packaging machinery and parts .....	534,563	1,290,555
Other general purpose industrial machinery and parts .....	3,873,224	5,125,542

See note at end of table.



TABLE 4. Products Made by Firms Included in the Machinery Industry, 1958 and 1959 — Concluded

Item	Value of factory shipments	
	1958	1959
	dollars	
Miscellaneous special industry machinery and parts:		
Cement mill machinery .....	242,613	200,504
Grain elevator machinery .....	1,444,566	1,174,986
Logging machinery .....	703,913	1,191,545
Rubber-working machinery .....	1,216,770	1,565,070
Saw-mill machinery, including lumber handling equipment .....	2,144,135	2,407,042
Special industry machinery, other, and parts .....	6,739,829	8,829,756
Office, store and business machinery and parts:		
Adding machines .....	2,272,664	1,897,632
Scales .....	3,380,213	3,897,956
Typewriters—Standard, including long carriage .....	4,658,137	3,218,033
Portable .....	2,834,285	2,103,553
Electric .....	4,186,871	5,433,596
Other office, store and business machinery and parts .....	34,398,620	35,916,148
Pulp and paper industries machinery and parts .....	12,789,793	16,795,631
Printing and bookbinding industries machinery and parts .....	1,046,336	..
Refrigeration and air conditioning equipment and parts:		
Refrigeration equipment and parts .....	9,460,875	10,576,138
Air conditioning equipment and parts .....	2,077,603	1,308,876
Service industry equipment (including vending machines) and parts .....	9,460,875	11,902,407
Ship's machinery and fittings .....	2,670,873	2,205,096
Textile industries machinery and parts .....	265,553	143,792
Transmission equipment and bearings and parts .....	20,290,736	25,478,466
Water and sewage treatment equipment and parts .....	3,537,756	5,187,522
Woodworking machinery (excluding power driven hand tools) and parts .....	1,128,332	1,211,334
Ventilating, exhaust and dust-collecting equipment and parts .....	10,153,791	9,881,975
All other machinery and machinery parts .....	33,577,131	23,779,324
<b>Total machinery and parts .....</b>	<b>399,508,813</b>	<b>412,221,181</b>
All other products .....	45,290,340	62,569,194
Amount received for repair and custom work .....	13,627,726	20,815,420
<b>Totals .....</b>	<b>458,426,879</b>	<b>495,605,795</b>

Note: Data given in this table are for the Machinery Industry which includes only the firms occupied chiefly in the manufacture of machinery. The output figures do not necessarily represent the total Canadian production as some machinery was made as secondary products by firms in other industries. The total production from all industries is shown in Table 6, in as much detail as possible.

TABLE 5. Materials Used by Firms in the Machinery Industry, 1958 and 1959

Material	1958		1959		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Castings (rough and semi-finished) received from foundry:					
Iron (gray and malleable) .....	ton	24,373	7,010,853	26,179	7,904,171
Steel .....	"	11,848	5,892,496	11,629	5,080,693
Pig iron, all grades .....	"	12,632	783,022	10,697	710,548
Steel (except alloy steel):					
Bars .....	"	22,477	4,625,124	23,231	4,588,207
Plates (3/16 in. and thicker) .....	"	24,337	3,799,458	26,146	4,159,908
Sheets (under 3/16 in.)—Plain .....	"	26,029	4,164,259	35,355	5,621,459
Galvanized .....	"	3,052	527,667	3,285	616,818
Tinplate .....	"	268	47,826	253	41,671
Strips (less than 14 in. wide) .....	"	2,469	513,956	2,280	472,619
Structural shapes, unfabricated (channels, angles, etc.) .....	"	26,643	4,659,388	23,940	4,130,359
Wire .....	"	704	148,743	1,031	219,131
Alloy steel in all forms:					
Alloy steel (other than stainless and tool steel) .....	..	..	1,839,933	..	2,018,826
Stainless .....	..	..	2,269,503	..	2,674,783
Tool steel (all types including high speed) .....	..	..	1,713,330	..	1,272,073
Scrap iron and steel—Purchased .....	ton	16,623	543,945	21,956	937,592
Own make .....	"	4,249	152,370	9,492	214,679
Pipe and fittings, iron and steel .....	..	..	2,316,878	..	2,324,862
Other iron and steel .....	..	..	7,285,298	..	7,297,749
Ferro-alloys .....	..	..	177,764	..	212,937
Non-ferrous metals in all forms:					
Aluminum—Castings .....	pound	3,851,716	4,208,087	3,991,855	5,835,702
Sheet .....	"	862,640	410,189	862,404	392,809
Other forms .....	"	2,570,897	816,462	2,766,874	847,382
Brass and bronze .....	"	3,433,533	1,928,963	3,982,759	2,113,869
Copper—Sheet .....	"	239,321	126,373	276,580	157,295
Wire .....	"	517,066	325,595	992,764	528,899
Other forms .....	"	1,327,973	775,837	1,381,684	745,794
Lead .....	"	70,611	11,741	57,938	8,029
Nickel .....	"	119,499	89,732	152,649	100,007
Tin .....	"	14,580	15,778	8,506	9,317
Zinc .....	"	543,832	219,046	434,737	265,353
Babbitt metals and solders .....	"	291,421	141,540	246,967	110,443
Other non-ferrous metals .....	..	..	1,536,375	..	1,477,366
Other materials and supplies:					
Paints, oils and varnishes .....	..	..	1,278,225	..	1,238,611
Foundry coke (used in cupola) .....	ton	6,428	194,300	8,583	288,474
Foundry sands .....	"	13,301	126,335	22,954	218,009
Plumbago and graphite .....	pound	189,904	20,439	209,470	16,467
Lumber .....	M ft. b.m.	10,122	1,095,240	8,641	948,635
Firebrick and cupola blocks .....	—	—	72,152	—	128,122
Fireclay .....	ton	1,042	22,353	1,083	25,739
Core oil .....	Imp. gal.	24,461	26,201	34,215	49,949
Shipping materials .....	...	...	2,667,428	...	2,779,791
All other materials <sup>1</sup> .....	...	...	139,280,881	...	154,063,182
Totals .....	...	...	203,861,085	...	222,848,325

<sup>1</sup> Commodity detail was requested only from the larger firms and the estimated value of materials used by the smaller firms is included in "All other materials".



TABLE 6. Factory Shipments of Industrial, Household and Business Machinery, 1958 and 1959

(Data assembled from all industries)

Item	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
Compressors and pumps:				
Air compressors:				
Stationary type .....	..	4,985,000	..	4,711,000
Portable type .....	..	1,823,000	..	1,960,000
Pumps:				
Centrifugal .....	..	7,817,000	..	8,307,000
Cistern and pitcher .....	8,345	61,000	7,615	40,000
Deep well .....	836	252,000	592	755,000
Rotary .....	..	439,000	..	682,000
Sump .....	29,130	968,000	36,254	1,239,000
Vacuum .....	..	171,000	..	140,000
Pump jacks .....	..	127,000	..	113,000
Hand pumps .....	..	354,000	..	421,000
Self-contained household water pumping systems:				
Deep well and shallow jets .....	30,257	2,746,000	35,877	3,217,000
Shallow well, non-jet .....	31,501	2,927,000	29,486	2,484,000
Other power pumps; including direct-acting steam piston and electric .....	..	5,577,000	..	3,185,000
Pumps parts and accessories .....	...	4,091,000	...	4,014,000
Conveying, elevating and materials handling equipment:				
Conveyors and conveying systems:				
Gravity conveyors, (including straight and spiral chutes) .....	..	1,366,000	..	1,743,000
Portable conveyor units .....	..	581,000	..	613,000
Power conveyors:				
Belt type .....	..	8,764,000	..	9,833,000
Bucket type .....	..	1,262,000	..	1,656,000
Other conveyors, including pneumatic tube systems and parts .....	..	4,152,000	..	5,641,000
Elevators, including passenger, freight, sidewalk, dumb-waiters, escalators and parts .....	...	14,377,000	...	14,994,000
Hoisting machinery (except mine hoists):				
Powered overhead travelling cranes .....	..	8,336,000	..	5,226,000
Other cranes .....	..	723,000	..	909,000
Chain blocks and trolleys .....	..	1,130,000	..	1,410,000
Monorail electric hoists .....	..	370,000	..	283,000
Monorail systems .....	..	371,000	..	471,000
Industrial hoists and lifts, stationary .....	..	247,000	..	76,000
Winches .....	..	758,000	..	1,748,000
Other hoisting machinery .....	..	1,815,000	..	2,378,000
Attachments and parts for hoisting machinery .....	..	203,000	..	615,000
Industrial trucks, tractors, trallers and stackers:				
Hand trucks (including dollies) .....	..	1,541,000	..	1,382,000
Lift trucks .....	..	1,371,000	..	1,652,000
Other industrial tractors, stackers, including powered types .....	..	1,648,000	..	1,371,000
Miscellaneous materials handling equipment .....	..	4,127,000	..	3,780,000
Drilling, excavating, mining and related machinery:				
Rock drilling, earth boring and related machinery:				
Rock drills, including diamond drills .....	..	2,265,000	..	1,682,000
Diamond drill bits .....	..	2,558,000	..	4,167,000
Tungsten carbide drill bits .....	..	6,789,000	..	5,728,000
Other drill bits .....	..	533,000	..	1
Other rock drilling, earth boring and related machinery and parts .....	..	7,664,000	..	7,755,000
Mining and ore processing machinery:				
Ball and rod mills .....	..	1,356,000	..	1,518,000
Classifiers .....	..	255,000	..	344,000
Crushers, jaw and gyratory .....	..	1,950,000	..	2,055,000
Hoists (mine hoists only) .....	..	1,377,000	..	1,024,000
Mine cars .....	860	1,207,000	142	418,000
Skips and cages .....	..	540,000	..	381,000
All other mining and ore processing machinery, including agitators, coal cutting machines, filters, flotation machines, screens, thickeners, etc. and parts .....	...	12,113,000	...	13,319,000

See footnote page 15.

**TABLE 6. Factory Shipments of Industrial, Household and Business Machinery,  
1958 and 1959 — Continued**  
(Data assembled from all industries)

Item	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
Construction, excavating, dredging and loading equipment:				
Power excavators (power shovels) .....	183	6,550,000	237	8,349,000
Bulldozing, angle-dozing and similar equipment .....	..	488,000	..	244,000
Scrapers and pull or push type graders .....	..	110,000	..	52,000
Graders, self-propelled type .....	190	3,080,000	230	3,963,000
Snow ploughs .....	..	1,172,000	..	1,286,000
Concrete mixer-agitators, truck type .....	132	721,000	358	2,119,000
Concrete, plaster and mortar mixers, other .....	3,685	530,000	3,632	478,000
Other mixing and paving equipment (concrete and bituminous) .....	...	650,000	..	1,561,000
Other construction machinery, including pneumatic hammers, demountable scaffolding etc. and parts .....	...	3,296,000	...	3,214,000
Other excavating machinery and parts .....	...	5,603,000	...	6,609,000
Other road and airport construction and maintenance machinery, including snow blowers, flushers, etc. and parts .....	...	2,923,000	...	2,828,000
Engines (excluding aircraft and automobile types):				
Turbines, hydraulic and steam .....	..	19,138,000	..	17,884,000
Diesel .....	525	9,718,000	212	8,844,000
Gasoline, including outboard, industrial, etc. ....	101,986	17,172,000	89,440	17,795,000
Steam .....	..	1,061,000	—	—
Engine parts:				
For diesel engines .....	...	1,184,000	...	834,000
For gasoline engines .....	...	710,000	...	1,867,000
For marine engines .....	...	2,237,000	...	2,501,000
Fire-fighting equipment:				
Pumpers .....	97	1,579,000	50	848,000
Other fire-fighting equipment, including hose trucks, ladder trucks, etc. ....	...	2,348,000	...	1,634,000
Food products machinery (including beverages and tobacco) machinery:				
Bakers' machinery:				
Mixing machines .....	658	767,000	657	723,000
Ovens .....	638	825,000	557	890,000
Other bakers' machinery and parts .....	...	747,000	...	644,000
Dairy and milk products plant machinery, excluding milking machines .....	...	2,310,000	...	1,653,000
Flour and grist mill machinery .....	...	405,000	...	371,000
Other food products machinery and parts, including milking machines .....	...	2,926,000	...	2,370,000
Foundry equipment .....	...	312,000	...	430,000
Household machinery (except refrigeration and air conditioning equipment):				
Washing machines:				
Electric:				
Automatic type .....	60,326	11,984,000	76,718	14,669,000
Apartment type .....	..	..	..	..
Conventional type .....	234,200	21,801,000	246,191	21,441,000
Gasoline type .....	3,686	422,000	3,974	455,000
Ironers, electric .....	1,754	230,000	1,115	177,000
Floor polishers, electric .....	218,747	6,744,000	227,258	6,743,000
Dryers, clothes, automatic electric .....	81,868	10,693,000	105,813	13,589,000
Vacuum cleaners:				
Electric:				
Floor models .....	25,310	1,741,000	32,616	1,931,000
Cylinder models .....	132,201	8,049,000	130,989	8,088,000
Other household machinery (including sewing machines, dishwashers, etc.) and parts .....	...	22,265,000	...	19,489,000
Metal-working machinery:				
Machine tools, metal-working:				
Boring machines .....	2	2	2	2
Broaching machines .....	2	2	—	—
Drilling machines .....	2	2	2	2
Grinding machines and grinders .....	569	316,000	133	340,000
Hammers (forging) .....	2	2	—	—
Lathes, engine and turret .....	92	869,000	111	706,000
Milling machines .....	2	2	2	2
Presses .....	..	2,698,000	..	1,610,000
Punching machines .....	2	2	2	2
Rolls, bending and straightening .....	399	161,000	618	274,000
Shapers .....	2	2	2	2
Shearing machines .....	221	184,000	227	144,000



**TABLE 6. Factory Shipments of Industrial, Household and Business Machinery,  
1958 and 1959 — Continued**  
(Data assembled from all industries)

Item	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
<b>Metal-working machinery — Concluded:</b>				
Machine tools, metal-working — Concluded:				
Thread-cutting machines .....	2	2	—	—
Other machine tools .....	...	2,071,000	...	1,450,000
Machine tool parts and accessories .....	...	1,455,000	...	1,455,000
Metal-working machinery (except machine tools), including rolling mill machinery .....	...	4,918,000	...	4,880,000
<b>Office, store and business machinery:</b>				
Accounting machines .....	3	3	3	3
Adding machines .....	14,610	2,273,000	13,568	1,898,000
Addressing and mailing machines .....	3	3	3	3
Cash registers .....	3	3	3	3
Calculating machines .....	3	3	3	3
Card-sorting and tabulating machines .....	3	3	3	3
Duplicating machines .....	3	3	3	3
Bread-slicing machines .....	4	4	4	4
Meat-slicing machines .....	4	4	4	4
<b>Scales:</b>				
For stores, homes and offices .....	98,947	1,371,000	105,598	1,541,000
Industrial:				
Bench or portable type .....	3,887	1,000,000	4,105	770,000
Built-in or pit type .....	577	1,009,000	789	1,587,000
<b>Typewriters:</b>				
Standard, including long carriage .....	28,131	4,658,000	25,651	3,218,000
Portable .....	44,668	2,834,000	34,180	2,104,000
Electric .....	9,663	4,187,000	14,090	5,433,000
Time recording, job recording and time stamping machines .....	3	3	3	3
Other office and business machinery .....	...	29,293,000	...	30,075,000
Other store machinery .....	...	982,000	...	1,847,000
Parts for office, store and business machinery .....	...	6,843,000	...	6,101,000
<b>Printing and bookbinding machinery and parts .....</b>	...	1,247,000	...	...
<b>Pulp and paper industries machinery and parts .....</b>	...	14,659,000	...	18,121,000
<b>Refrigeration and air conditioning equipment:</b>				
Refrigeration equipment:				
Household refrigerators:				
Household mechanical refrigerators, complete units (electric and gas), all sizes .....	226,523	39,759,000	256,778	44,549,000
Self-contained units:				
Milk coolers, all sizes .....	529	94,000	181	210,000
Ice-cream cabinets, all sizes .....	1,086	371,000	878	315,000
Beverage coolers, all sizes .....	3,720	1,175,000	4,963	1,468,000
Water-coolers, all sizes .....	40	20,000	14	1,000
Freezers — Frosted food cabinets .....	1,870	384,000	1,197	739,000
Home freezers, all sizes .....	31,685	6,714,000	60,665	12,104,000
Fixtures:				
Display cases, normal temperature .....	2,202	1,750,000	2,206	1,725,000
Low-temperature refrigerators .....	829	763,000	983	845,000
Reach-in refrigerators (remote only) .....	433	271,000	515	323,000
Sectional walk-in coolers, all types .....	852	1,024,000	758	1,118,000
Self-contained commercial refrigerator products:				
Display cases, all sizes .....	698	754,000	873	875,000
Reach-ins, all sizes .....	546	314,000	408	246,000
Evaporators:				
Unit cooler type, all sizes .....	..	526,000	..	721,000
Fin coils, all sizes .....	2,863	482,000	..	760,000
Ice-makers .....	627	11,000	..	..
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets .....	48,212	1,473,000	10,410	2,029,000
Commercial — Low pressure and ammonia .....	3,139	1,142,000		
Evaporative condensers:				
Low pressure .....	..	191,000	..	317,000
Ammonia .....	..	25,000	..	..
All other refrigeration equipment .....	...	5,505,000	..	5,322,000
<b>Air conditioning equipment:</b>				
Room air-conditioners, window type .....	1,644	396,000	3,365	448,000
Self-contained air-conditioners, except window type — 2-5 hp. ....	133	241,000	250	351,000
Over 5 hp. ....				

See footnotes page 15.

**TABLE 6. Factory Shipments of Industrial, Household and Business Machinery,  
1958 and 1959 — Continued**  
(Data assembled from all industries)

Item	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
Refrigeration and air conditioning equipment—Concluded:				
Air conditioning equipment—Concluded:				
Air conditioners, central plant, domestic .....	...	7,072,000	...	7,080,000
Other air conditioning equipment, including parts, components and accessories .....	...		...	
Service industry equipment (including vending machines):				
Commercial laundry and dry cleaning equipment .....	..	1,727,000	..	1,645,000
Vending machines .....	..	187,000	..	163,000
Service station and garage equipment:				
Auto lifts .....	2,204	1,422,000	2,356	1,587,000
Gasoline-dispensing pumps .....	8,002	4,908,000	9,496	4,706,000
Other garage equipment .....	..	715,000	..	805,000
Other service industry machinery .....	..	1,094,000	..	3,186,000
Ships' machinery and fittings (except winches) .....	..	4,609,000	..	3,602,000
Textile industries machinery and parts .....	..	266,000	..	144,000
Transmission equipment and bearings:				
Bearings, ball and roller, and parts .....	..	10,334,000	..	15,961,000
Cut tooth and cast tooth gears .....	..	2,174,000	..	2,201,000
Flexible couplings .....	..	521,000	..	429,000
Pulleys .....	..	598,000	..	562,000
Sprocket chain and drive chain .....	..	1,723,000	..	1,822,000
Speed reducer units .....	..	2,374,000	..	2,210,000
Other transmission machinery and parts .....	..	3,984,000	..	4,345,000
Water and sewage treatment equipment:				
Domestic water softeners .....	9,050	810,000	15,263	1,779,000
Other water and sewage treatment equipment and parts .....	..	2,728,000	..	3,409,000
Woodworking machinery (excluding power driven hand tools and home workshop tools):				
Band sawing machines .....	40	199,000	6	6
Lathes .....	6	6	6	6
Moulders .....	..	..	..	..
Planers .....	135	172,000	31	134,000
Rip and cross cut saws .....	53	25,000	6	6
Tenoners .....	16	18,000	..	..
Other wood-working machinery and parts .....	...	806,000	...	1,261,000
General purpose industrial machinery:				
Wrapping and packaging machinery and parts .....	..	535,000	..	1,291,000
Crushing, pulverizing, scouring and mixing machinery and parts .....	..	1,088,000	..	1,006,000
Other general purpose industrial machinery and parts .....	..	10,514,000	..	10,006,000
Ventilating, exhaust and dust-collecting equipment .....	..	10,154,000	..	9,882,000
Special industry machinery:				
Rubber-working machinery .....	..	1,343,000	..	1,565,000
Cement mill machinery .....	..	277,000	..	218,000
Saw-mill machinery, including lumber handling equipment .....	..	3,618,000	..	4,052,000
Logging, machinery .....	..	969,000	..	1,767,000
Grain elevator machinery .....	..	1,731,000	..	1,479,000
Other special industry machinery and parts .....	..	9,337,000	..	7,899,000
Electrical machinery:				
Converter equipment (excluding rectifiers):				
Motor-generator sets— a.c. to d.c. ....	212	2,210,000	178	2,048,000
Frequency changer sets— a.c. to a.c. ....	14	94,000	..	76,000
Parts and supplies for converter equipment .....	...	330,000	..	463,000
Generators and parts (excluding automobile generators, engine-driven generator sets and motor-generator sets):				
A.c.:				
200 kva. and under, any speed .....	4	16,000	12	55,000
201 kva. to 1000 kva., any speed .....	21	282,000	35	544,000
A.C., 1001 kva. and above, all speeds .....	73	27,128,000	37	19,004,000
D.c. and including exciters:				
Under 1/4 kw. ....	..	..	..	..
1 kw. to 1000 kw. ....	..	..	..	..
1001 kw. and over .....	..	..	..	..
Accessories and parts for generators .....	...	235,000	...	670,000

See footnotes page 15.



**TABLE 9. Factory Shipments of Industrial, Household and Business Machinery,  
1958 and 1959 — Concluded**  
(Data assembled from all industries)

Item	1958		1959	
	Quantity shipped No.	Value of factory shipments \$	Quantity shipped No.	Value of factory shipments \$
<b>A.c. Motors (except for railway and vehicle use):</b>				
Single phase induction:				
1/3 hp. and under (except shaded pole or universal motors).....	991,328	13,285,000	1,056,932	14,169,000
1/2 hp. and 3/4 hp. ....	73,789	2,220,000	73,122	1,950,000
1 hp. to 5 hp. inclusive-open type .....	10,825	1,131,000	8,866	905,000
1 hp. to 5 hp. inclusive-enclosed type .....	1,193	144,000	1,199	158,000
Polyphase induction:				
1/3 hp. and under .....	3,745	124,000	4,781	126,000
1/2 hp. and 3/4 hp. ....	8,552	384,000	8,210	333,000
1 hp. to 5 hp. inclusive-open type .....	16,142	1,332,000	16,167	1,302,000
1 hp. to 5 hp. inclusive-enclosed type .....	7,255	759,000	8,408	869,000
6 hp. to 25 hp. inclusive-open type .....	4,179	912,000	4,593	989,000
6 hp. to 25 hp. inclusive-enclosed type .....	4,429	1,213,000	4,894	1,309,000
26 hp. to 100 hp. inclusive-open type .....	1,536	1,206,000	1,724	1,330,000
26 hp. to 100 hp. inclusive-enclosed type .....	1,256	1,181,000	1,204	1,208,000
101 hp. to 200 hp. inclusive-open type .....	324	941,000	377	999,000
101 hp. to 200 hp. inclusive-enclosed type .....	139	520,000	125	462,000
201 hp. to 1000 hp. inclusive .....	360	3,085,000	212	1,400,000
1001 hp. and over .....				
Synchronous motors and condensers:				
up to and including 200 hp. or kva. ....	14	52,000	18	71,000
201 hp. or kva. to 1000 hp. or kva. ....	44	610,000	53	500,000
1001 hp. or kva. and over .....	14	378,000	..	..
Accessories and parts for a.c. motors .....	...	581,000	...	597,000
Railway and vehicle motors, a.c. and d.c. ....	...	..	...	..
Shaded pole type motors, all ratings .....	187,283	1,029,000	134,063	808,000
Universal type motors, all ratings .....	...	..	..	432,000
<b>D.c. motors and generators, including exciters, (except for railway and vehicle use):</b>				
D.c. motors — 1/3 kw. and under .....	377,290	1,266,000	454,411	1,474,000
1/2 kw. and 3/4 kw. ....	222	43,000	48	5,000
<b>D.c. motors or generators:</b>				
1 hp. or kw. to 5 hp. or kw. ....	363	126,000	372	267,000
6 hp. or kw. to 25 hp. or kw. ....	344	560,000	230	464,000
26 hp. or kw. to 100 hp. or kw. ....	426	1,384,000	312	1,066,000
101 hp. or kw. to 200 hp. or kw. ....	45	464,000	29	237,000
201 hp. or kw. to 1000 hp. or kw. ....	80	1,874,000	59	984,000
1001 hp. or kw. and over .....	...	..	...	..
All other motors or generators .....	...	7,492,000 <sup>10</sup>	...	9,196,000 <sup>10</sup>
Accessories and parts for d.c. motors and generators .....	...	503,000	...	641,000
Electrical appliances, motor driven, not elsewhere specified, including shavers, fans, hair clippers, food mixers, electric clocks, etc. ....	...	11,661,000	...	11,386,000
Welding machinery, electric .....	...	3,545,000	...	4,276,000
<b>Miscellaneous machinery:</b>				
Blowers for domestic furnaces .....	180,026	2,306,000	212,813	2,556,000
Cream separators .....	62	6,000	—	—
Gas burners, residential .....	10,357	802,000	7,224	757,000
Lawn mowers:				
Hand .....	6,457	62,000	2,534	37,000
Power .....	154,208	6,561,000	107,986	4,628,000
Oil burners, power:				
Domestic .....	99,745	7,726,000	105,097	7,730,000
Commercial and industrial .....	2,445	1,346,000	3,509	1,262,000
Power tools, hobby and home workshop .....	...	4,025,000	...	4,001,000
Saws, power chain, and parts .....	...	7,170,000	...	8,596,000
Stokers:				
Domestic .....	691	191,000	1,190	264,000
Commercial and industrial .....	408	886,000	430	870,000
All other machinery and parts, not separately specified .....	...	28,608,000	...	24,040,000
<b>Total machinery and parts .....</b>	<b>...</b>	<b>681,005,000</b>	<b>...</b>	<b>692,737,000</b>

<sup>1</sup> Included with "Other rock drilling, earth boring and related machinery and parts".

<sup>2</sup> Included with "Other machine tools" to avoid disclosure of individual firms.

<sup>3</sup> Included with "Other office and business machinery" to avoid disclosure of individual firms.

<sup>4</sup> Included with "Other store machinery" to avoid disclosure of individual firms.

<sup>5</sup> Included with "Other special industry machinery and parts".

<sup>6</sup> Included in "Other woodworking machinery" to avoid disclosure of individual firms.

<sup>7</sup> Included with "Other general purpose industrial machinery and parts".

<sup>8</sup> See under "Electric motors and parts".

<sup>9</sup> Included with "All other motors or generators".

<sup>10</sup> Includes rotors and stators.

**TABLE 7. Principal Statistics of the Machinery Industry in Canada, classified according to Type of Ownership, 1958 and 1959**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958	number		dollars		
Individual ownership .....	40	252	797,793	871,381	2,173,280
Partnerships .....	17	278	1,099,568	2,812,703	4,438,245
Incorporated companies .....	407	32,415	132,200,121	200,177,001	451,815,354
<b>Totals .....</b>	<b>464</b>	<b>32,945</b>	<b>134,091,482</b>	<b>203,861,085</b>	<b>458,426,879</b>
1959	number		dollars		
Individual ownership .....	37	242	753,770	699,406	1,877,608
Partnerships .....	16	320	1,287,008	2,335,124	4,615,440
Incorporated companies .....	405	33,713	145,768,363	219,813,795	489,112,747
<b>Totals .....</b>	<b>458</b>	<b>34,275</b>	<b>147,809,141</b>	<b>222,848,325</b>	<b>495,605,795</b>

**TABLE 8. Principal Statistics of the Machinery Industry in Canada, grouped according to Value of Factory Shipments, 1958 and 1959**

Establishments reporting factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958	number		dollars		
Under \$10,000 .....	20	32	51,482	42,759	118,256
\$ 10,000 to \$ 24,999 .....	23	57	146,661	133,219	381,557
25,000 " 49,999 .....	42	222	664,334	553,293	1,608,577
50,000 " 99,999 .....	55	511	1,779,571	1,479,935	4,035,979
100,000 " 199,999 .....	85	1,234	4,685,283	4,474,011	11,916,090
200,000 " 499,999 .....	75	2,226	9,176,204	10,244,940	25,050,257
500,000 " 999,999 .....	56	3,217	13,360,049	18,451,017	41,185,414
1,000,000 " 1,999,999 .....	95	14,905	59,773,862	92,956,363	204,122,172
5,000,000 and over .....	13	10,470	43,966,691	75,525,548	170,008,577
Head offices .....	—	71	493,345	—	—
<b>Totals .....</b>	<b>464</b>	<b>32,945</b>	<b>134,097,482</b>	<b>203,861,085</b>	<b>458,426,879</b>
1959	number		dollars		
Under \$10,000 .....	17	27	42,450	33,179	103,952
\$ 10,000 to \$ 24,999 .....	24	63	164,493	141,506	397,852
25,000 " 49,999 .....	28	142	436,873	354,173	1,002,452
50,000 " 99,999 .....	56	499	1,747,093	1,574,395	4,197,399
100,000 " 199,999 .....	81	1,145	4,395,323	4,492,623	11,414,899
200,000 " 499,999 .....	80	2,377	10,137,187	10,905,975	26,429,479
500,000 " 999,999 .....	61	3,546	15,322,255	20,926,348	45,375,098
1,000,000 " 4,999,999 .....	97	15,474	65,632,311	102,702,644	223,083,244
5,000,000 and over .....	14	10,926	49,461,455	81,717,482	183,601,420
Head offices .....	—	76	469,701	—	—
<b>Totals .....</b>	<b>458</b>	<b>34,275</b>	<b>147,809,141</b>	<b>222,848,325</b>	<b>495,605,795</b>



TABLE 9. Employees and Earnings in the Machinery Industry, by Provinces, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
	number					dollars		
1958								
Newfoundland and New Brunswick .....	31	9	138	—	178	229,860	444,000	673,860
Nova Scotia .....	27	7	173	—	207	148,078	582,575	730,653
Quebec .....	2,605	766	6,033	356	9,760	14,512,614	21,723,491	36,236,105
Ontario .....	5,003	1,994	13,159	877	21,033	34,123,277	55,238,312	89,361,589
Manitoba .....	99	38	290	17	444	637,189	1,040,232	1,677,421
Saskatchewan .....	13	9	87	3	112	91,970	294,743	386,713
Alberta .....	18	10	84	1	113	124,385	314,728	439,113
British Columbia .....	272	81	718	27	1,098	1,658,078	2,933,950	4,592,028
Canada .....	8,068	2,914	20,682	1,281	32,945	51,525,451	82,572,031	134,097,482
1959								
Newfoundland and New Brunswick .....	25	9	143	1	178	215,743	508,870	724,613
Nova Scotia .....	20	7	171	—	198	119,867	589,247	709,114
Quebec .....	2,518	751	5,535	318	9,122	14,844,552	21,353,828	36,198,380
Ontario .....	5,338	2,081	14,294	1,033	22,746	37,109,243	64,376,554	101,485,797
Manitoba .....	104	43	327	17	491	691,015	1,207,153	1,898,168
Saskatchewan .....	20	14	111	—	145	123,666	395,720	519,386
Alberta .....	15	9	83	—	107	108,054	340,729	448,783
British Columbia .....	308	85	864	31	1,288	2,059,268	2,765,632	5,824,900
Canada .....	8,348	2,999	21,528	1,400	34,275	55,271,408	92,537,733	147,809,141

TABLE 10. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail <sup>1</sup>	
	Male	Female
January .....	17,931	1,335
February .....	18,102	1,322
March .....	18,423	1,345
April .....	18,856	1,347
May .....	19,167	1,325
June .....	19,778	1,349
July .....	19,257	1,270
August .....	19,425	1,370
September .....	19,569	1,374
October .....	20,378	1,424
November .....	20,053	1,432
December .....	19,799	1,370
Average for establishments reporting monthly detail .....	19,243	1,361
Average estimated for small establishments <sup>2</sup> .....	2,285	39
Average for all establishments .....	21,528	1,400

<sup>1</sup> The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over for machinery, house, office and store and \$300,000 and over for machine tools and machinery, industrial.

<sup>2</sup> For establishments generally reporting value of shipments of less than \$500,000 for machinery, house, office and store, and \$300,000 for machine tools and machinery, industrial no data on number of workers were collected. Reported value of payrolls was used in conjunction with estimated average earnings to arrive at average number of production workers.

TABLE 11. Capital and Repair Expenditures in the Machinery Industry, 1955 - 59

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	thousands of dollars						
1955 .....	3, 853	8, 917	12, 770	1, 835	4, 849	6, 684	19, 454
1956 .....	6, 017	13, 471	19, 488	2, 064	7, 298	9, 362	28, 850
1957 .....	11, 342	15, 905	27, 247	2, 129	6, 271	8, 400	35, 647
1958 .....	4, 507	10, 274	14, 781	1, 891	5, 344	7, 235	22, 016
1959 .....	4, 730	8, 763	13, 493	1, 744	6, 101	7, 845	21, 338

TABLE 12. Fuel and Electricity Used in the Machinery Industry, 1959

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: <sup>1</sup>		
Bituminous coal:		
(a) From Canadian mines .....	ton	7,784
(b) Imported .....	"	30,575
Sub-bituminous coal (from Alberta mines only) .....	"	515
Anthracite coal .....	"	1,655
Lignite coal .....	"	625
Coke .....	"	1,158
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	780,934
Fuel oil including kerosene or coal oil .....	"	10,266,029
Wood .....	cord	44
Gas:		
(a) Liquefied petroleum gases .....	Imp. gal.	198,857
(b) Other manufactured gas .....	M cu. ft.	5,397
(c) Natural gas .....	"	221,037
Other fuel .....	...	43,207
Electricity purchased .....	kwh.	161,255,235
Steam purchased .....	...	30,310
2. Estimate for establishments for which no data were collected: <sup>2</sup>		
Cost of fuel and electricity .....	...	597,857
3. All establishments:		
Total cost of fuel and electricity .....	...	4,741,764

<sup>1</sup> Establishments generally reporting value of shipments of \$500,000 and over for machinery, house, office and store and \$300,000 and over for machine tools and machinery, industrial.

<sup>2</sup> Establishments generally reporting value of shipments of less than \$500,000 for machinery, house, office and store and \$300,000 for machine tools and machinery, industrial.



## Directory of Firms Included in the Machinery Industry, 1959

Name of firm	Location of plant
<b>(a) Household, Office and Store Machinery</b>	
<b>New Brunswick:</b>	
Sussex Refrigeration Mfg. Co. Ltd. ....	Sussex
<b>Quebec:</b>	
Arrow Sewing Machine Co. Ltd. ....	754 Wellington, Montreal
Associated Clock Industries, Limited .....	298 Charon St., Montreal
Astley, Robert, (Reg'd) .....	8 Duluth E. Montreal
Blanchard Industries Reg'd. ....	7779 Casgrain, Montreal
Blank, Wm., Mfg. Co. ....	4677 City Hall, Montreal
Canada's Best Refrigeration Equipment .....	8607 Notre Dame St. E., Montreal
Canadian Fairbanks-Morse Company, Limited .....	Sherbrooke
Canadian Super Cold Ltd. ....	349 Broadway, Montreal E.
Coinex Manufacturing Reg'd .....	618 St. Jacques St., John's
Connor, J.H. & Son, Ltd. ....	20 Lois St., Hull
Fabien, C.P., Ltd. ....	2471 St. Cunegonde St., Montreal
Gauvin Inc. ....	220 Rue Lee, Quebec 2
Lite, A.R. Manufacturing Co. ....	1300 Valleyfield Ave., St. Vincent de Paul
New Williams Mfg. Co. Ltd., The .....	2740-50 Notre Dame St. E., Montreal 4
Pantex Manufacturing (Canada) Ltd. ....	5653 Pare St., Montreal
Plymouth Sales Inc. ....	5 Courcellette St., Quebec
Royal Typewriter Company, Limited .....	7035 Park Ave., Montreal 15
Singer Mfg. Co. ....	165 St. Paul St., St. Johns
St. Johns Sheet Metal Ltd. ....	320 Rue St. Michel, St. John's
Super Industries Co. Reg'd .....	252 Mozart St. E., Montreal 10
Verdun Machine Shop Reg'd .....	480 Rothsay St., St. Lambert, Chambly Co.
<b>Ontario:</b>	
Air Coils Manufacturing Co. Ltd. ....	346 Wyecroft Rd., Oakville
Atlantic Service Company, Limited .....	62-66 Howden Rd., Scarborough
Beatty Bros. Limited .....	Hill St., Fergus
Better Packages of Canada, Limited .....	245 Carlaw Ave., Toronto
Bissell Carpet Sweeper Co. of Canada Ltd. ....	2365 Drummond Rd. Niagara Falls
Blakeslee, G.S. & Company, Limited .....	18 Cranfield Rd. Toronto 16
Brantford Washing Machines, Limited .....	14 Grey St., Brantford
Burroughs Machine Limited .....	804 McDougall St., Windsor
Canada Vulcanizer & Equipment Co. Ltd. ....	Clarke Side road, London
Canadian Business Machines Ltd. ....	5495 Dundas St. W., Toronto 18
Canadian Ice Machine Company, Limited .....	65 Villiers St., Toronto 2
Canadian Laundry Machinery Company, Limited .....	47-93 Sterling Road, Toronto 3
Canadian Scale Company, Limited .....	305 Horner Ave., Toronto 14
Clary Multiplier of Canada Ltd. ....	979 O'Connor Drive, Toronto
Coffield Washer Company, Limited .....	77-91 Niagara St., Hamilton
Coldmatic Refrigerator Co. ....	425 Enfield Rd., Aldershot
Easy Washing Machine Company, Limited .....	76 Miranda, Toronto 10
Fairgrieve & Son Limited .....	44 Dovercourt Road, Toronto
Frozenaire Cooler Company .....	Glenridge Ave., St. Catharines
Gurney Scale Company Limited .....	1176 Howard Road, Burlington
Heavy Duty Products .....	635 Laurel St., Preston
Hobart Manufacturing Company, Limited .....	175 George St., Toronto 2
Hobart Manufacturing Company, Limited .....	Bay Shore Rd., Owen Sound
Hussmann Refrigerator Co. Ltd. ....	Frank St. & Webster Sts., Brantford
Ideal Vendors Limited .....	Main St., Deseronto
Ingles, John, Co. Limited .....	14 Strachan Ave., Toronto 3
International Business Machines Company, .....	Don Mills Road, Don Mills
Maxwells Limited .....	James St. St. Mary's
Milner, Edward, Co. Ltd. ....	311 Pharmacy Ave., Scarborough
National Cash Register Co. of Canada, Limited .....	222 Lansdowne Ave., Toronto 3
Northern Eureka Refrigerator Co. Ltd. ....	260 Main St. S., Weston
Ontario Refrigeration Enterprises .....	6501 Kingston Rd., Highland Creek
Perrin-Turner Limited .....	34 Mendota Rd., Toronto 14
Pitney-Bowes of Canada, Ltd. ....	909 Bay St., Toronto 5
Provincial Butchers Machinery Co. Limited .....	393A Arlington Ave., Toronto 10
Remington Rand, Limited .....	301 Sherman Ave. N., Hamilton
Scale, E.W., Co. Ltd. ....	5 Six Points Road, (Toronto 18)
Simplicity Products Limited .....	125 Guelph Ave., Hespeler
Smith-Corona Canada Ltd. ....	30 Bertrand Ave., Toronto 13
Stathmos Scale Mfg., Ltd. ....	417 Birchmount Rd., Toronto 13
Steamarvel Co. ....	42 Camden St., Toronto
Thor Industries Limited .....	75 Brown's Line, Toronto 14
Toledo Scale Co. of Canada, Ltd. ....	2462 Howard Ave., Windsor

## Directory of Firms Included in the Machinery Industry, 1959 - Continued

Name of firm	Location of plant
<b>(a) Household, Office and Store Machinery - Concluded</b>	
<b>Ontario - Concluded</b>	
Underwood Manufacturing Company, Limited .....	1440 Don Mills Rd., Don Mills
Victor Adding Machine Co. (Canada) Ltd. ....	Beverly St., Galt
White Mop Wringer Co. of Canada .....	Paris
<b>Manitoba:</b>	
Bell Refrigerator Co. Ltd. ....	1760 Sargent Ave., St. James, Winnipeg 12
Polar Equipment Co. Limited .....	467 Provencher Ave., St. Boniface
<b>British Columbia:</b>	
Gair, Alex .....	955 East Hastings St., Vancouver 4
Skinner Scales .....	51 W. Cordova St., Vancouver 4
<b>(b) Machine Tools</b>	
<b>Ontario:</b>	
Algic Machine Tool Limited .....	45 Algic Ave., Toronto 14
Bertram, John, & Sons Company, Limited .....	15 Hatt St., Dundas
Blow Press Limited .....	153 Bower Ave., Acton
Brown Boggs Foundry & Machine Company, Limited .....	275 Sherman Ave. N., Hamilton
Canada Machinery Corporation, Limited .....	19 Concession St., Galt
The Ford Smith Machine Company, Limited .....	925 Barton St. E., Hamilton
Peerless Machine & Tool Company Limited .....	47-59 Duke St., Guelph
Sheffield Tool & Gauge of Canada, Ltd. ....	7100 Tecumseh Road East, Windsor
Standard Modern Tool Co. Ltd. ....	69 Montcalm Ave., Toronto 10
Retor Developments Limited .....	Argyll Road, Galt
Rite Tool Company Ltd. ....	1650 Langlois Ave., Windsor
Upton Bradeen & James, Ltd., The R. McDougall Division .....	50 Chapman St., Galt
Whitehall, Harry W., Limited .....	Galt & Hespeler
<b>(c) Machinery, N.E.C.<sup>1</sup></b>	
<b>Newfoundland:</b>	
Barnes E.F. Ltd. ....	26 Water St., St. John's
McNamara Industries Ltd. ....	Topsail Rd., St. Johns
<b>Nova Scotia:</b>	
Acadia Gas Engines, Limited .....	King St., Bridgewater
Chisholm Industries Ltd. ....	216 Stellarton Road, New Glasgow
Dominion Steel & Coal Corp. Ltd., Trenton Industries Div. ....	Main St., Trenton
Hawboldt Gas Engines Ltd. ....	Chester
Oxford Foundry and Machine Company, Limited .....	Foundry St., Oxford
<b>New Brunswick:</b>	
Lauder, Rudolph W. ....	Hillsborough
Northern Machine Works Limited .....	Main St., Bathurst
<b>Quebec:</b>	
All Canada Engineering Co. Ltd. ....	960 Lafayette Ave., Montreal South
American Air Filter of Canada Ltd. ....	400 Stinson Blvd., Montreal 9
Ashworth Card Clothing Co. Limited .....	316 St. Hubert St., Granby
Automatic Dispensers Mfg. Ltd. ....	7501-18e Ave., Ville St., Michel, Montreal 38
Autostair Limited .....	1395 Raymond Ave., St. Hyacinthe
Blanchette, R.E.L. Enr. ....	1440 Blvd. Mercure, Drummondville
Braidwood, John, and Sons, Limited .....	66 Nazareth St., Montreal
Canadian Allis-Chalmers Ltd. ....	125 St. Joseph St., Lachine
Canadian Ingersoll-Rand Company, Limited .....	375 Courcellette St., Sherbrooke
Cement Block & Machinery Supply Reg'd. ....	227, rue Royal, Sagard

<sup>1</sup> See footnote page 26.



## Directory of Firms Included in the Machinery Industry, 1959 — Continued

Name of firm	Location of plant
(c) Machinery, N.E.C. <sup>1</sup> — Continued	
Quebec — Concluded:	
Cowan Dynamics Limited .....	105 Union St., Ville St. Pierre
Coté Bros. & Buritt Ltd. ....	1280 Conde St., Montreal
Coté, Jos., Inc. ....	St. Ephrem
Crammond & Son Limited .....	4865 Dagenais St., Montreal 30
Cusson Frères Ltée .....	5759 Hochelaga St., Montreal
Darling Brothers, Limited .....	140 Prince St., Montreal
DesRoberts Enrg. ....	2399 Royale, Three Rivers
Dominion Engineering Works, Limited .....	1st. Avenue, Lachine
Farr Company Manufacturing Ltd. ....	390 DesLauriers St., Montreal
Forano Limited .....	St Paul St., Plessisville
Glass Sterilizers Limited .....	5886 Papineau, Montreal
Griswold Engineering Limited .....	146 Bates Road, Montreal
Gosselin, J.A., Co. Limited .....	301 Hebert St., Drummondville
Hall Machinery of Canada Ltd. ....	124 Grandes Fourches St. S., Sherbrooke
Har-Pur Products Ltd. ....	146-14th St., Noranda
Harrington Tool & Die Company Ltd. ....	735-755-1st. Ave., Lachine
Hartco Steel Products Ltd. ....	192 St. Désiré St., Blacklake
Hollinger Machine Co. Ltd. ....	9800 St. Urbain St., Montreal
Hydraulic Machinery Co. Ltd. ....	1243 Dorion St., Montreal
Industrial Contractor Co. ....	2450 Duquesne Montreal 28
Jeffrey Mfg. Co. Limited .....	300 St. Patrick St., Ville La Salle
L'Air Liquide .....	2269 Viau St., Montreal
La Compagnie F.X. Drolet .....	245 Dupont St., Quebec
La Fonderie St. Anselme Ltée .....	St. Anselme Station
La Fonderie Trottier Inc. ....	St. Casimir
Leclerc Truck Equipment Reg'd .....	35-35e Rue Est., Charlesbourg
Les Scies Mercier Ltée .....	26 Coté Fréchette, Lévis
Little Steel Products Limited .....	10,221 St. Laurent, Montreal 12
Machinerie Etchemin Enrg. ....	23 rue Jacques-Cartier, St-Romauld
Messely & Fils Enrg. ....	495-2ième Ave., Québec
Montreal Gear Works Ltd. ....	3425 Montgomery St., Montreal 34
Montreal Shoe Machinery Company, Limited .....	535 Ontario St. E., Montreal
Matthew Moody & Sons Ltd. ....	Terrebonne
Munroe Engineering Limited .....	2454 Des Carrieres St., Montreal
Nagle Elevator Company, Inc. ....	1085 Chenneville St., Montreal
National Electric Refrigerator Ltd. ....	Montmagny
N.C. Refrigeration & Store Fixtures Reg'd .....	1795 Hindland Ville Jacques Cartier
Paquin, Alph., & Fils .....	568, rue St-Antoine, Joliette
Peacock Bros. Ltd. ....	260 St-Patrick St., Ville La Salle
Peltier Handling Equipment Company, Limited .....	4285 Notre Dame E., Montreal 4
Pneumatic & Hydraulic Co. Ltd. ....	647 Vitre St. W., Montreal
Poitras, Jos., et Fils Ltée .....	L'Isletville
Pulp & Paper Mill Accessories, Limited .....	6139 Coté de Liesse Rd., St. Laurent
Rack Industries of Canada, Ltd. ....	Normandy Blvd., Farnham
Ross Engineering of Canada, Limited .....	304 St. Patrick St., Ville La Salle
Rubenstein Bros. Company .....	4528 St. Lawrence, Montreal
Sepco Electric Products Corp. ....	422 McGill St., Montreal
Sherbrooke Machineries, Limited .....	800 Randrill St., Sherbrooke
Southern Industries, Limited .....	391 Theberge St., Marieville
St. Pierre G.E., & Fils Ltée. ....	St. Germain de Grantham
Technical Accessories Limited .....	5595 Fullum St., Montreal 36
Thibault, Pierre Canada Ltée .....	Pierreville
United Shoe Machinery Company of Canada, Limited .....	2610 Bennett Ave., Montreal
Vessot, S., Co, Limitée .....	603 Querbes Blvd. Joliette
Victory Tool & Machine Company, Ltd. ....	236-250 Rose de Lima, Montreal
Vincent, Hector .....	St. Valerien
Wilson Machine Company, Limited .....	161 Nazareth St., Montreal
Ontario:	
A.P.V. (Canada) Equipment Ltd. ....	56 Charles St., Newmarket
Adams, J.D., Limited .....	Adams Ave. and Spruce St., Paris
Airetool Canada Ltd. ....	37 Spalding Drive Brantford
Albany Pump Company .....	840 King St., Toronto 2B
American Can Company .....	Lewis Ave., Niagara Falls
American Standard Products (Canada) Ltd. ....	310 Ellis St. East Windsor

## Directory of Firms Included in the Machinery Industry, 1959 - Continued

Name of firm	Location of plant
(c) Machinery, N.E.C. <sup>1</sup> - Continued	
Ontario - Continued:	
Anderson, J.W., Co. Ltd.	Head St., Dundas
Anglo Electromatic Elevators Canada Ltd.	346 Munster Ave., Toronto 18
Arcan Eastern Limited	Reid & Dunsmure, Hamilton
Ardelt Industries of Canada Ltd.	181 Henry Sturm Blvd., Kitchener
Armstrong, S.A., Limited	1400 O'Connor Drive, Toronto 16
Ashton Press Mfg. Co. Ltd.	60 Beech St., Ottawa 1
Atlas Engineering and Machine Company Limited	16 Eastern Ave., Toronto 2
Austin, A., Industries Ltd.	51 Kipling Ave. S., Toronto
B. & K. Roller Die Co. Ltd.	164 Evans Ave., Toronto
B. & L. Metal Products	First St., Elmira
B.L.M. Automatic Clutch Corp. of Canada Ltd.	28 Covert St., Cobourg
Baer Elevator Supplies Limited	50 Pearl St., Toronto 1
Barber, Chas., & Sons	Bayfield St., Meaford
Barber-Greene Canada Limited	Barber-Greene Rd., Don Mills
Bata Engineering Div. of Bata Shoe Co. of Canada Ltd.	Batawa
Bauer Bros. Co. (Canada) Ltd.	192 Mary St., Brantford
Bawden Industries, Limited	163 Sterling Road, Toronto 3
Bawden, Ray, Limited	150 Bentworth Ave., Toronto
Beatty Machine & Tool Works Limited	103 Crockford Blvd., Scarborough
Bee, F.	33 Fidler Ave., Woodstock
Belsinger Industries Ltd.	16 Victoria St. N., Kitchener
Bellows Pneumatic Devices of Canada Ltd.	14 Advance Road, Toronto
Bettger Industries Ltd.	649 Ontario St., Stratford
Bowser, S.F., Company, Limited	344 Sherman Ave. N., Hamilton
Brantford Oven and Rack Company, Limited	Brock & Campbell Sts., Brantford
Brigden Manufacturing Co.	Hornby
Bridgewater Machine Co. (Canada) Ltd.	205 Mary St., Brantford
Brown Fintube (Canada) Ltd.	95 Woodworth Ave., St. Thomas
Brunner Corporation (Canada) Limited	Peter St., Port Hope
Buckman Saw Grinder Mfg. Co.	Fort Erie
Bucyrus-Erie Co. of Canada, Ltd.	200 Woodlawn Road, Guelph
Burnside, Harry	442 King St. W., Toronto 2B
Byron Jackson of Canada Ltd.	23 Bertrand Ave., Scarboro
C.L.C. Machinery Co.	196-8 Grant Ave., Hamilton
Callwood Equipment Limited	34 Crockford Blvd., Scarborough
Campbell Machinery Ltd.	399 Breithaupt St., Kitchener
Canadian Baker & Perkins Ltd.	Hanson Road, Brampton
Canadian Blower & Forge Co. Ltd.	90 Woodside Ave., Kitchener
Canadian Clark Ltd.	1195 Talbot St. East, St. Thomas
Canadian Industrial Engineering	7 Raleigh Ave., Toronto 18
Canadian Longyear, Limited	1111 Main St. W., North Bay
Canadian Mechanical Handling Systems Ltd.	3380 Marentette Ave., Windsor
Canadian Mines Equipment Company, Limited	596 Hamilton Road, London
Canadian Monorail Co. Ltd.	151 Water St. S., Galt
Canadian Pneumatic Tool Co. Ltd.	198 Evans Ave., Toronto 14
Canadian S.K.F. Co. Ltd.	2201 Eglinton Ave. E., Scarborough
Canners' Machinery, Limited	Wellington Heights, Simcoe
Chain Belt (Canada) Ltd.	1181 Sheppard Ave. E., Willowdale
Clarke, D.R., Engine Co. Ltd.	2462 Dufferin St., Toronto
Climax Baler Company, Limited	43-53 Burton St., Hamilton
Cober Elevator Manufacturing Company	137 Roncesvalles Ave., Toronto 3
Cochrane Water Conditioning Ltd.	1355 Martin Grove Rd., Rexdale
Continental Motors of Canada Limited	Gaylord Road St. Thomas
Cooke & Denison Limited	31 Yarmouth St., Guelph
Cooper-Chapman Ltd.	23 Sable St., Toronto 15
Crane Carrier Canada Ltd.	3 Parnell Ave., Toronto 13
Crown Controls Mfg., Ltd.	139 Dundas St., Kitchener
CYR, R.J., Co.	1263 McDougall St., Windsor
Dalby Machine Shop	45 Forsythe St. S., Oakville
Darrigo Bros. Mfg. & Sales	37 Church St., Toronto 1
Day Co. of Canada Ltd., The	N. Vickers St., Fort William
Day Co. of Canada, Ltd., The	15 Brydon Drive, Toronto
Delamere & Williams Company, Limited	35 Carson St., Toronto 14
Dept. of Transport, Marine Services Branch	King St. W., Prescott
De Vilbiss (Canada) Ltd.	Wood St., Barrie
Dillon, Thomas A., Limited	2775 Dufferin St., Toronto 10
Doylco Limited	15 Oakland Ave., Toronto 15
Dodge Mfg. Division of United Steel Corp. Ltd.	58 Pelham Ave., Toronto 9
Dominion Road Machinery Company, Limited	Maitland Road, Goderich



## Directory of Firms Included in the Machinery Industry, 1959 - Continued

Name of firm	Location of plant
(c) Machinery, N.E.C. <sup>1</sup> - Continued	
Ontario - Continued:	
Dominion Rubber Company, Limited .....	Glasgow St., Kitchener
Don Transmission & Conveyors, Ltd. ....	65 Crockford Blvd., Toronto
Dorr-Oliver-Long Limited .....	174 West St. S., Orillia
Douglas, Brown & Campbell, Limited .....	Melbourne
Emerson - Pryne of Canada Limited. ....	550 Hopewell Ave., Toronto 10
Epps, Manufacturing Ltd., (C.H.) .....	Clinton
Equipment Manufacture & Design Co. ....	41 Dunbar Ave., Hamilton
Etmeco Limited .....	370 Munster Ave., Toronto 18
Excello Corporation of Canada Ltd. ....	120 Weston Rd., London
Factory Equipment, Ltd. ....	Berezy St., Aurora
Fastcut Bits Limited .....	Lakeshore Road, Ferris
Fine Pitch Gears Limited .....	10 Sunrise Ave., Toronto
Fiorentini Canada Ltd. ....	Rexdale Blvd., Toronto 15
Fischer Bearings Mfg. Ltd. ....	Ontario St., Stratford
Fisher & Ludlow, (Canada) Ltd. ....	Kenilworth Ave. N., Hamilton
Fisher Gauge Works, Ltd. ....	194 Sophia St., Peterborough
Fleck, The Alexander, Ltd. ....	75 Spencer St., Ottawa 3
Foreman Marine & Pump Ltd. ....	31 Jutland Road Toronto 18
Fraser, Kenneth S., Co. Ltd. (Industrial Truck Div.) .....	960 Eastern Ave., Toronto 8
Gardner-Denver Co. (Canada) Ltd. ....	Dundas St., Woodstock
Gilbert and Barker Manufacturing Company, Limited .....	64 Jefferson Ave., Toronto 3
Glider Guard Manufacturing Co. Ltd. ....	1151 Tecumseh Rd., Windsor
Goodwin Chuck Company, Limited .....	27 Jarvis St., Brantford
Greay Mixing Equipment, Ltd. ....	100 Miranda Ave., Toronto 10
Hamilton Gear and Machine Company Ltd. ....	950 Dupont St., Toronto 4
Hammer Pump Co. ....	Shelbourne
Hastings Machine Tools Ltd. ....	600 Montrose Road, Niagara Falls
Heath and Sherwood Limited .....	6 Duncan Ave., Kirkland Lake
Hein-Werner of Canada Limited .....	Fairall St., Ajax
Hi-Lo Equipment (Canada) Limited .....	49 Main St., Mimico
Howden, James, & Co. of Canada Ltd. ....	1510 Birchmount Road, Scarborough
Hubbard Portable Oven Company of Canada, Limited .....	154 Duke St., Toronto 2
Indroquois Equipment Limited .....	45 Torbarrie Road, Downsview
Involute Gear Co. ....	321 Howland Ave., Toronto 4
J.M.G. Manufacturing Co. Limited .....	Thornbury
Jacuzzi Universal (Canada) Ltd. ....	Rexdale
Jaegar Machine Co. of Canada Ltd. ....	Gaylord Rd., St. Thomas
Joy Manufacturing Company (Canada) Ltd. ....	175 Beverly St., Galt
Kennedy, The William, & Sons, Ltd. ....	1144 - 1st Ave. W., Owen Sound
King, G.W. of Canada, Ltd. ....	937 Cumberland Ave., Burlington
King Seagrave, Limited .....	Young St., Woodstock
Kingsville Pump & Machine Co. Ltd. ....	Kingsville
Koehring-Waterous Ltd. ....	South Market St., Brantford
La France Fire Engine and Foamite, Limited .....	60 Coronet Rd., Toronto
Lau Products Limited .....	150 Borden Ave. S., Kitchener
Leitch, Arthur S., Company, Limited .....	33 Torbarrie Rd., Downsview
Link-Belt Speeder (Canada) Ltd. ....	Highway # 2 East, Woodstock
Link-Belt Ltd. ....	731 Eastern Ave., Toronto
London Concrete Machinery & Rainbow Irrigation Systems .....	Corner Cabell & Kitchener Ave., London
Magicare Manufacturing Limited .....	Simcoe
Mahaffy Iron Works Company, Ltd. ....	145 Kendal Ave., Toronto 4
Marsland Precision Equipment Ltd. ....	230 Regina St. N., Waterloo
Mathews Conveyer Company, Limited .....	Cobourg Rd., Port Hope
McCulloch of Canada Limited .....	25 McCulloch St., Rexdale
McDonald, K.R., Knitting Machines .....	45 Market St., Georgetown
McInnis, C.H., Company Limited .....	2500 Central Ave., Windsor
McKechnie, James A., Limited .....	61 Raleigh Ave., Toronto 13
McLachlan, John, Foundry .....	Laidlaw St. N., Cannington
Midland Foundry & Machine Co. Ltd. ....	174 Manley St., Midland
Morissette Mfg. & Sales Limited .....	Browning St., Haileybury
Morris, Herbert, Crane & Hoist Co., Limited .....	Stanley Ave., Niagara Falls
Morse Chain of Canada Ltd. ....	385 Second Ave., Simcoe
Muirhead Fromson Ltd. ....	65 Hymers Rd., Scarborough
Nagy, Alex J., Co. ....	4342 Mavis Rd., Cooksville
Napanee Iron Works Limited .....	51 Ann St., Napanee
National Equipment Company, Limited .....	41 Wabash Ave., Toronto 3
Northern Crane & Hoist Works Limited .....	1428 Argyle Road, Windsor
Odd, H., Centerless Grinding Limited .....	809 Victoria St. N., Kitchener
Oil Well Supply Company, Limited .....	4184 Robert St., Petrolia

See footnote page 26.

## Directory of Firms Included in the Machinery Industry, 1959 - Continued

Name of firm	Location of plant
(c) Machinery, N.E.C. <sup>1</sup> - Continued	
Ontario - Continued:	
Oliver, A.H. Machinery Co. ....	177-179 Cedar St. E., Orillia
Opal Manufacturing Company .....	526 Bay St., Toronto 2
Otis Elevator Company, Limited .....	414 Victoria Ave. N., Hamilton
Outboard Marine Corporation of Canada, Limited .....	910 Monaghan Rd., Peterborough
Paasche Airbrush (Canada) Ltd. ....	864 Pape Ave., Toronto
Packsack Diamond Drills Ltd. ....	1385 Hammond, North Bay
Paramount Gear Works Ltd. ....	1247 Lawrence Ave. W., Toronto 15
Parkhill Machinery Co. Ltd. ....	Mill & Station Sts., Parkhill
Patterson Foundry & Machine Company (Canada) Ltd. ....	250 Danforth Road, Toronto 13
Pendrith Machinery Company, Limited .....	775 King St. W., Toronto 2B
Perrin, Wm. R., Limited .....	530 King St. E., Toronto 2
Peterson Filters of Canada Ltd. ....	696 Yonge St., Toronto
Phin Sales Co. ....	26 Lipton Ave., Toronto 6
Phoenix Mfg. Co. ....	Fulton St. S., Milton
Pinder Bros. ....	2 Otonabee, Willowdale
Plewes-Jackson Engineering, Limited .....	58 Fraser Ave., Toronto 3
Pneuma-Serve Limited .....	22 Dorchester Ave., Toronto
Premier Tool & Die Limited .....	86 Tycos Drive, Toronto 19
Preston Woodworking Machinery Company, Limited .....	Railway St., Preston
Price Machine Products .....	Norfolk St. S., Simcoe
Provincial Engineering Limited .....	674 Ferguson St., Niagara Falls
Pumps & Softeners, Limited .....	680 Waterloo St., London
Rapistan Canada Ltd. ....	888 Dupont St., Toronto
Reddy Elevator Co., Limited .....	10 Sword St., Toronto
Richardson, C., and Company, Limited .....	Wellington St. S., St. Mary's
Roberts, F.W., Manufacturing Company of Canada, Limited .....	473 Buttrey St., Niagara Falls
Rock Drill Rod Co., Ltd. ....	25 Edgar Ave., Toronto 15
Rockwell Mfg. Co. of Canada Ltd. ....	40 Wellington, Guelph
Roelofson Elevator Company, Limited .....	5001 Dundas St. W., Toronto 18
Rotary Lift Company .....	337 Richmond St., Chatham
Sandy Road Equipment Limited .....	Victoria St., Goderich
Scott Hydraulics-Pneumatics Ltd. ....	#11 Highway N., North Bay
Shaft Machines Ltd. ....	100 Adelaide St. W., Toronto
Shaw, Francis, (Canada) Ltd. ....	1393 Grahams Lane, Burlington
Shearing Elbow Machinery .....	16 Concession St. W., Tillsonburg
Sheldons Engineering Limited .....	96 Grand Ave. S., Galt
Sheridan-Loach Ltd. ....	106 Howden Rd., Scarborough
Simpson Bros. Machine Co. Ltd. ....	4530 Kingston Road, West Hill
Skilttools Ltd. ....	3601 Dundas St. W., Toronto
Smart-Turner Machine Company, Limited .....	191 Barton St. E., Hamilton
Sovereign Water Conditioners Of Can. Ltd. ....	1244 Caledonia Rd., Toronto
Sta-Rite Pumps, (Canada) Ltd. ....	Fairall St., Ajax
St. Lawrence Engine Company, Limited .....	10 St. Andrew St., Brockville
Stratford Machine & Tool Co. ....	684 Ontario St., Stratford
Sparkler International, Ltd. ....	1115 Castlefield Ave., Toronto 10
Stephens-Adamson Mfg. Co. Of Canada Ltd. ....	30 Franklin St., Belleville
Stevens Company of Galt Ltd. ....	12 Rose St., Galt
Surtevant, B.F., Co. of Canada Ltd. ....	Middleton St., Galt
Super Oil Seal Mfg. Co. Limited .....	Park Rd., & Henry St., Brantford
Tecalemit (Canada) Ltd. ....	Rexdale Blvd., Rexdale
Thamesville Tool & Die Limited .....	Thamesville
Timberland Machines Limited .....	Devonshire Rd., Woodstock
Timken Roller Bearing Co. ....	1055 Talbot St., St. Thomas
Tokheim of Canada Ltd. ....	87 Queen Elizabeth Blvd., Toronto
Torrington Mfg. Co. of Canada Ltd. ....	201 Speers Rd., Oakville
Tortex Machine Works Ltd. ....	485 Wellington St. W., Toronto
Trion (Canada) Limited .....	90 Brimley Road Scarborough
Turbo Gas Equipment Ltd. ....	Delhi
Tumbull Elevator Company, Limited .....	126 John St., Toronto 2B
Universal Logloaders Ltd. ....	296 Kendall Ave., Eastview
United Steel Corporation, Limited, Canadian Mead-Morrison Div. ..	317 King St., Welland
Viceroy Manufacturing Co., Ltd. ....	1655 Dupont St., Toronto 9
Vickers, Sperry of Canada Ltd. ....	92 Advance Road Toronto
Viking Pump Company of Canada, Limited .....	661 Grove Ave., Windsor
Volta Manufacturing Co. Ltd. ....	Alexander St., Welland
Wallace & Tiernan Limited .....	925 Warden Ave., Scarborough
Wards Oven Co., ....	39 Mitchell Ave., Toronto
Waterloo Manufacturing Co. Ltd. ....	263 Phillip St., Waterloo



## Directory of Firms Included in the Machinery Industry, 1959 - Continued

Name of firm	Location of plant
(c) Machinery, N.E.C. <sup>1</sup> - Continued	
<b>Ontario - Concluded:</b>	
Water Softening Equipment Ltd. ....	112 Manville Rd., Scarborough
Watson, The John, Mfg. Co. Ltd. ....	Ayr
Wayne-Crothers Limited .....	722 Warden Ave., Scarborough
Wayne Pump Canada Limited .....	829 Richmond St. W., Toronto
Webb, Jervis B., Co. of Canada Ltd. ....	715 Beach Rd., Hamilton
Webster Air Equipment Co. Limited .....	1161 King St. E., London
Wellman, S.K., Co. of Canada Ltd. ....	208 Bartley Drive, O'Connor Drive, Toronto 16
West Bend Aluminum Co. (Canada) Limited .....	Barrie
Westaway, W.J., Company Ltd. ....	18 Dundurn St. S., Hamilton
Westco Pump & Engineering, Limited .....	7 Stewart St., Toronto 2B
Whiting Corporation (Canada) Ltd. ....	Alexander St., Welland
Williams Machines, Limited .....	311 Montrose St., Preston
Wood, John, Co. Ltd. ....	101 Hanson St., Toronto 6
Worthington (Canada) 1955 Ltd. ....	R.R. #1, Brantford
Yates, P.B., Machine Company, Limited .....	Cathcart & Robert Sts., Hamilton
<b>Manitoba:</b>	
Alpha Manufacturing Company, Limited .....	Notre Dame & Midland, Winnipeg
Dauphin Products Ltd. ....	1448 Erin St., Winnipeg 3
Filtersoft Limited .....	Watt & Union Sts., Winnipeg
Hedley, Percy E., & Sons .....	Hamiota
Kipp-Kelly, Limited .....	68 Higgins Ave., Winnipeg
Krushel, L., & Sons .....	Morden
Made-Well Mfg., Co. ....	Sifton
Manitoba Gear Specialties .....	205 Osborne, Winnipeg
McLean Machinery Co. Ltd. ....	125 Pacific Ave., Winnipeg
Midwest Mining Supplies Ltd. ....	1100 King Edward St., Winnipeg 12
Monarch Machinery Co. Ltd. ....	889 Erin St., Winnipeg
Oshkosh Filter & Softener Co. (Canada) Ltd. ....	721 Assiniboine Ave., Brandon
Pydee Engineering Co. Ltd. ....	1018 Sherbrook St., Winnipeg 2
Strong-Scott Limited .....	772-782 Dufferin Ave., Winnipeg
<b>Saskatchewan:</b>	
Industrial Machine & Mfg. Co. ....	140 Avenue A.N., Saskatoon
Leach, J.R. & Son Limited .....	17-17th St., Prince Albert
Mid-West Equipment Ltd. ....	1101 Winnipeg St., Regina
Regal Softener Equipment .....	1322 Lorne St., Regina
Richardson Road Machinery Company Limited .....	112 Ave. 1 South, Saskatoon
Schulte Welding & Blacksmith .....	Englefield
Western Machine & Engineering Limited .....	1201 Scarth St., Regina
<b>Alberta:</b>	
Alco Machine Works Ltd. ....	6915-104th St., Edmonton
Burton Loaders Limited .....	15428-102nd Ave., Jasper Place
Coutts Machinery Company, Limited .....	9119 Stadium Road, Edmonton
Engineering Specialties (Alberta) Limited .....	9660-61st Ave., Edmonton
Machinery Depot Limited .....	1009-11th St. E., Calgary
Smith & Schneider Sawmill Eqpt. Ltd. ....	Chinook Valley
<b>British Columbia:</b>	
Allard Engineering (1957) Limited .....	1031 Quebec St., New Westminster
Anderson Blowpipe & Mfg. Co. Ltd. ....	1213 Mitchell Rd., Vancouver
Alpha Engineering & Mfg. Ltd. ....	60 Braid St., New Westminster
Argus Engineering & Development Co. ....	8638 Ash St., Vancouver
Automatic Equipment & Service Co. ....	4625 Sophia St., Vancouver
Berger Engineering Co. Limited .....	547 W. 6th Ave., Vancouver 9
Boyles Bros. Drilling Company, Limited .....	1291 Parker St., Vancouver 6
Canadian Car (Pacific) Limited .....	1660 Station St., Vancouver 4
Canadian Mobile Co. Ltd. ....	400 Ewan Ave., New Westminster
Canadian Sumner Iron Works, Limited .....	3550 E. Broadway, Vancouver 12
Conveyair Manufacturing Division Ltd. ....	125 West 1st St. N., North Vancouver
Easthope Bros., Limited .....	1225 No. 1 Road, Steveston

<sup>1</sup> See footnote page 26.

## Directory of Firms Included in the Machinery Industry, 1959 — Concluded

Name of firm	Location of plant
(c) Machinery, N.E.C. <sup>1</sup> — Concluded:	
<b>British Columbia — Concluded:</b>	
Ebco Manufacturing .....	1867 West 1st Avenue, Vancouver
Gearmatic Co. Ltd. ....	7400-132nd St., Newton
Hamilton, G.J., Limited .....	910 Beach Ave., Vancouver 1
Jordans Machine Works, Ltd. ....	4428 Kingsway, S. Burnaby
L - M Equipment Co. (B.C.) Ltd. ....	4740 Lougheed Highway, N. Burnaby
Leland Mfg. Co. Limited .....	1790 Powell Ave., Vancouver 6
Letson & Burpee, Limited .....	172 Alexander St. Vancouver 4
Marathon Machinery Co. ....	7441 Hawthorne Ave., Burnaby
Moore Dry Kiln Co. of Canada Ltd. ....	345 East First Ave., Vancouver 10
Nicholson Murdie Machines Ltd. ....	327 Harbour Rd., Victoria
Nicholson Supplies & Equipment Ltd. ....	855 East Hastings St., Vancouver
Opsal Steel Limited .....	97 East 2nd Ave., Vancouver
Palma Equipment Ltd. ....	9084-128th St., North Surrey
Paragon Engine Co. ....	1737 Georgia St., Vancouver 5
Paragon Equipment Manufacturing Company, Limited .....	885 Cordova St., Vancouver 4
Patrick Equipment Ltd. ....	5332 Still Creek, Burnaby
Power Machinery Limited .....	3470 Commercial Dr., Vancouver 12
Progressive Engineering Works, Limited .....	360 West 1st Ave., Vancouver 10
Pumps & Power, Limited .....	1380 Napier St., Vancouver
Quesnel Manufacturing Limited .....	Quesnel
Regent Steel Specialties Ltd. ....	6957 Beresford St., South Burnaby
Simplex Engine and Manufacturing Co., Limited .....	1865 West Georgia St., Vancouver 5
Tyee Machinery Company, Limited .....	Lot 71 Granville Island, Vancouver 9
Vancouver Gear Works Ltd. ....	1844 Clarke Dr., Vancouver 12
Vancouver Mill Machinery .....	1904 Gilmore Ave., Burnaby 2
Wagner Engineering .....	1929 W. Georgia St., Vancouver 5
Wagstaff Hoist, Limited .....	2294 Clark Drive, Vancouver 12
Webb & Gifford, Limited .....	222 Front St., New Westminster
Westminster Iron Works Company, Limited .....	1135 Queen Ave., New Westminster
Weldco Ltd. ....	116 East 2nd Avenue, Vancouver 5
Willock Manufacturing Co. Ltd. ....	22661 Trans-Canada Highway, Langley
Wire Co. Engineering Ltd. ....	2015 Columbia St., Vancouver

<sup>1</sup> Includes establishments primarily engaged in manufacturing special industrial machinery, such as textile machinery, wood-working machinery, pulp and paper machinery, engines and turbines, mining machinery, conveyor systems and elevators, etc.





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