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MISCELLANEOUS MACHINERY AND EQUIPMENT MANUFACTURERS

1961

The list of firms normally included in this report has been omitted from this issue, along with certain tables. See introductory 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.

20-00000-100000
100000-200000
200000-300000
300000-400000
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500000-600000
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EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1961 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. Implementation of the new definition of the establishment in the 1961 Census has resulted in certain changes and necessitated some adjustments to the statistics for previous years in order to maintain comparability of the data. (See following note on "Establishment".)

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 1961, 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

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

Many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described earlier.

Prior to 1961, the main emphasis in the Census of Manufactures was on manufacturing activity whereas, beginning with 1961, each establishment reports on the total operations carried out within its accounting boundaries (except income from investments such as rent, interest and dividends). However, data on different activities (manufacturing, selling, construction by own labour force etc.) are requested separately. The 1961 statistics in this report are confined to manufacturing activity in order to maintain comparability with previous years. In the 1962 reports it is planned to show both 1961 and 1962 data on the "total activity" basis in addition to the data on manufacturing operations.

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 but will be shown separately in subsequent years.

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, handling, warehousing and delivery staff. 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 the calendar year 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 with salaries, but will be shown separately in subsequent years. 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 establishment including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the establishment, of materials, supplies and components 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 generally refer to shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishment 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 which are treated as separate establishments are included. Goods bought or received as transfers and resold without further processing are not included. Values are requested

on f.o.b. establishment 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 value of manufacturing inventory. Figures consist of inventory at the plant and at warehouses or selling outlets which are treated as extensions of the plants for the purpose of reporting shipments.

Value added by Manufacturing

Value added is compiled by deducting the cost of materials, fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process). Value added is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which was 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. 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.

Establishments engaged solely in repair work are not included in manufacturing industries (except in the case of furniture, shipbuilding, boat building, aircraft and railroad rolling stock industries) but establishments principally engaged in assembling parts into complete units are included.

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 advertising, insurance and other business costs which are not collected in the annual Census of Manufactures. Value added figures for the primary industries, manufacturing and construction are published in D.B.S. publication 61-202, Survey of Production.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking only for certain principal items of shipments. For purposes of publication, missing data were estimated on the basis of appropriate ratios. For the 1959 and 1960 censuses the general limit for short forms was raised from \$50,000 to \$100,000 value of shipments and a new intermediate form was used. This form is a shortened version of the long form in that some 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 inter-

mediate forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

In the 1961 Census, in addition to the question on shipments of goods of own manufacture, questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity, and inventories, are generally estimated by using ratios based on the change in the value of shipments from year to year. This is to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportion of the estimated data is generally less than 5 per cent of the total in each category of principal statistics.

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MISCELLANEOUS MACHINERY AND EQUIPMENT MANUFACTURERS

1961

Data for 1961 presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of 1961 industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report. For statistical purposes the industry titled Miscellaneous Machinery and Equipment Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing machinery and equipment designed particularly for use in construction and mining operations including earth moving machinery and equipment, and earth and rock boring and drilling equipment; establishments primarily engaged in manufacturing other special industry machinery except agricultural machinery, including such products as textile machinery, pulp and paper machinery, printing machinery, and food processing machinery; establishments primarily engaged in manufacturing machinery and equipment not designed for use in any particular industry or classified elsewhere, including such products as marine engines, general-purpose engines, pumping equipment, equipment for the transmission of mechanical power, conveyor systems, elevators and lifting and hoisting machinery. Establishments primarily engaged in manufacturing industrial tractors for handling materials in industrial plants, depots and docks are included here. Included also are establishments primarily engaged in manufacturing woodworking machinery and in manufacturing machine tools which are power driven machines employing a cutting tool for work on metal. Establishments primarily engaged in manufacturing bits, drills and other cutting tools for machines or for power-driven hand tools are included in Industry No. 306—Hardware, Tool and Cutlery Manufacturers. Firms

reporting the manufacture of commercial refrigeration and air conditioning as a major part of their operation are included in "Commercial Refrigeration and Air Conditioning Manufacturers" Catalogue No. 42-215 and firms reporting the manufacture of Office and Store machinery are included in "Office and Store Machinery Manufacturers" Catalogue No. 42-216.

The introduction of the new definition of establishment (reporting unit) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. For the most part the changes involved combinations of reporting units and adjustments resulting from a transfer of some plants to Wholesale Trade.

As a result of increased workloads and staff shortages it has been necessary to suspend publication of certain tables normally contained in this report. It is planned to resume publication of these tables in the 1962 reports. In general the tables affected are the following: Directory of Firms—Imports—Exports—Capital and Repair Expenditures.

Note: In addition to accommodating the changes resulting from the introduction of the new Standard Industrial Classification and the new definition of establishment, data as presented in the 1961 report for this industry reflect a change in the treatment of progress payments. In the past, no allowance was made for changes in the progress payments accounts of establishments with inventory held under progress payments. However, as of 1961, changes in progress payments accounts of these establishments are being incorporated as part of the value of shipments—see Table 3. Figures for years back to 1957 (Table 1) have been adjusted to reflect this change in procedure.

**TABLE 1. Principal Statistics: Miscellaneous Machinery and Equipment Manufacturers
by Provinces, 1957-61**

Basis: Revised Standard Industrial Classification and New Establishment Concept

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 ¹	Value of factory shipments
	number				dollars		
1957							
Newfoundland	1	108	437,204	23,332	503,778		1,494,902
New Brunswick	2						
Nova Scotia	5	403	1,253,635	61,029	1,168,417		3,090,796
Quebec	58	8,533	33,253,118	966,128	46,184,032		110,803,625
Ontario	236	18,543	74,451,245	2,437,179	107,573,575	1	246,296,215
Manitoba	12	420	1,528,035	53,348	1,792,273		4,381,302
Saskatchewan	7	139	459,953	20,898	736,297		1,353,116
Alberta	5	107	378,912	14,948	764,523		1,350,192
British Columbia	45	2,588	11,219,912	332,175	12,870,812		29,442,271
Canada	371	30,841	122,982,014	3,909,037	171,593,707		398,212,419
1958							
Newfoundland	1	90	372,880	15,982	263,288	411,376	839,306
New Brunswick	2						
Nova Scotia	5	207	730,653	40,588	730,299	1,145,864	1,941,911
Quebec	67	7,060	27,098,344	918,645	40,039,129	39,851,771	86,397,783
Ontario	249	16,550	70,528,230	2,583,823	100,981,597	125,283,734	230,407,173
Manitoba	13	431	1,647,337	63,580	2,109,834	2,960,492	5,217,729
Saskatchewan	6	106	366,113	18,798	414,315	458,283	1,005,553
Alberta	8	99	360,313	14,386	859,348	1,522,381	2,370,857
British Columbia	46	1,505	6,447,214	233,468	7,324,944	6,406,056	15,088,619
Canada	397	26,048	107,551,084	3,889,270	152,722,754	178,039,957	343,268,931
1959							
Newfoundland	1	87	373,871	14,455	255,801	663,634	771,071
New Brunswick	2						
Nova Scotia	5	198	709,114	30,336	536,962	1,288,069	1,623,938
Quebec	65	6,986	28,469,256	1,033,411	41,211,512	46,758,038	90,681,150
Ontario	249	17,750	78,997,383	2,745,799	108,534,662	145,518,637	248,668,510
Manitoba	13	465	1,831,046	71,329	2,613,905	2,880,081	5,421,616
Saskatchewan	6	134	484,366	21,574	573,340	736,981	1,428,625
Alberta	6	94	368,495	12,712	866,562	556,433	1,411,364
British Columbia	46	1,624	7,485,061	293,017	10,258,652	10,987,744	21,280,466
Canada	393	27,338	118,718,592	4,222,633	164,851,396	209,389,617	371,286,740
1960							
Newfoundland	1	69	292,671	9,927	184,452	330,459	560,360
New Brunswick	2						
Nova Scotia	5	289	1,073,977	36,654	711,712	1,919,744	2,543,905
Quebec	64	7,376	31,782,895	1,151,998	47,708,949	53,738,308	103,339,352
Ontario	252	17,332	79,146,595	2,692,843	111,151,907	140,843,368	251,406,292
Manitoba	13	514	2,154,745	66,978	2,608,327	3,631,158	6,080,115
Saskatchewan	6	108	410,000	17,360	636,544	470,274	1,087,704
Alberta	9	241	970,475	66,948	1,815,658	1,605,817	3,539,314
British Columbia	44	1,627	7,662,700	280,891	8,008,429	12,760,902	20,823,902
Canada	396	27,556	123,494,058	4,323,599	172,825,978	215,300,030	389,380,944

See footnote at end of table.

**TABLE 1. Principal Statistics: Miscellaneous Machinery and Equipment Manufacturers
by Provinces, 1957-61 — Concluded**

Basis: Revised Standard Industrial Classification and New Establishment Concept

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 ¹	Value of factory shipments
	number		dollars				
1961							
Newfoundland	1	84	360,113	11,176	229,553	461,375	715,885
New Brunswick	2						
Nova Scotia	5	271	986,235	70,012	474,405	1,565,063	2,120,916
Quebec	71	6,859	30,109,118	1,086,900	45,820,115	51,141,873	96,267,793
Ontario	265	16,990	79,807,603	2,822,474	118,889,983	137,321,463	259,513,253
Manitoba	13	471	2,098,787	72,117	2,387,328	3,512,318	5,857,609
Saskatchewan	6	94	378,974	16,111	363,014	569,569	1,052,335
Alberta	12	273	1,285,485	91,145	2,890,184	1,746,642	4,674,955
British Columbia	45	1,568	7,719,894	261,686	7,549,407	12,144,643	20,486,493
Canada	420	26,610	122,746,209	4,431,621	178,603,989	208,462,946	390,689,239

¹ Because of lack of inventory data, "Value added" is not available for 1957.

TABLE 2. Inventories:¹ Miscellaneous Machinery and Equipment Manufacturers, 1961

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening: ²				
Newfoundland and New Brunswick	167,263	23,975	48,172	239,410
Nova Scotia	424,490	301,851	330,416	1,056,757
Quebec	7,305,938	8,352,390	11,253,363	26,911,691
Ontario	30,534,115	22,530,437	26,607,997	79,672,549
Manitoba	823,189	308,582	562,966	1,694,737
Saskatchewan	268,074	128,997	257,894	654,965
Alberta	645,449	112,038	534,689	1,292,176
British Columbia	2,537,119	1,499,762	2,120,183	6,157,064
Canada	42,705,637	33,258,032	41,715,880	117,679,549
Closing:				
Newfoundland and New Brunswick	74,454	24,000	34,366	138,820
Nova Scotia	167,948	385,606	235,225	788,779
Quebec	7,878,922	10,271,369	11,115,479	29,265,770
Ontario	30,157,396	23,150,981	25,508,120	78,816,497
Manitoba	800,470	322,667	663,035	1,786,172
Saskatchewan	213,356	97,450	185,800	496,606
Alberta	686,505	120,329	579,414	1,386,248
British Columbia	2,258,887	878,379	2,210,809	5,348,075
Canada	42,237,938	35,250,781	40,532,248	118,020,967

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

² The opening inventory for 1961 differs from the closing inventory for 1960 because of the receipt of revised data, the inclusion of new establishments, the removal of figures for establishments which did not operate in 1961, changes in classification and the implementation of the New Establishment Concept.

TABLE 3. Factory Shipments: Miscellaneous Machinery and Equipment Manufacturers, 1961

Item	Value of factory shipments
	\$
Compressors, pumps and parts:	
Air compressors	5,725,014
Pumps and parts	21,259,811
Conveying, elevating, materials handling equipment and parts:	
Conveyors and conveying systems and parts	17,940,708
Elevators and parts	25,198,750
Hoisting machinery (except mine hoists) and parts	8,452,774
Industrial trucks, tractors, trailers and stackers and parts	2,546,948
Miscellaneous materials handling equipment and parts	3,206,288
Drilling, excavating, mining and related machinery and parts:	
Rock drilling, earth boring and related machinery and parts	16,679,917
Excavating, dredging and loading equipment and parts	9,822,791
Mining and ore processing machinery and parts	10,325,359
Construction machinery and parts	11,582,146
Engines and parts	27,458,593
Fire-fighting equipment	2,979,865
Food products machinery (including beverages and tobacco) machinery and parts:	
Bakers' machinery and parts	2,268,713
Dairy and milk products plant machinery	622,575
Flour and grist mill machinery	748,662
Food products machinery, other, and parts	2,313,090
Foundry equipment (core-making machines, moulding machines, casting machines, shakeout equipment, etc.)	401,099
Metal-working machinery and parts:	
Machine tools, metal-working and parts	6,768,180
Metal-working machinery (except machine tools) and parts	4,181,015
Miscellaneous general purpose industrial machinery and parts:	
Wrapping and packaging machinery and parts	1,687,783
Other general purpose industrial machinery and parts	3,643,159
Miscellaneous special industry machinery and parts:	
Cement mill machinery	936,682
Grain elevator machinery	300,900
Logging machinery	1,647,828
Rubber-working machinery	2,456,573
Saw-mill machinery, including lumber handling equipment	2,833,610
Special industry machinery, other, and parts	9,117,843
Pulp and paper industries machinery and parts	22,610,159
Refrigeration and air conditioning equipment and parts:	
Refrigeration equipment and parts	1,509,678
Air conditioning equipment and parts	2,547,866
Service industry equipment (including vending machines) and parts	9,175,729
Ship's machinery and fittings	1,791,534
Textile industries machinery and parts	327,682
Transmission equipment and bearings and parts	26,704,232
Water and sewage treatment equipment and parts	5,566,352
Woodworking machinery (excluding power driven hand tools) and parts	2,180,050
Ventilating, exhaust and dust-collecting equipment and parts	12,694,301
All other machinery and machinery parts	24,663,795
Total machinery and parts	312,878,054
All other products	61,606,821
Amount received for repair and custom work	11,480,099
Less adjustments for value of sales taxes, excise duties, and outward transportation charges which were not deducted from individual commodity items detailed above	2,053,735
Total	383,911,239
Net adjustments for value of work put in place but not shipped	6,778,000
Adjusted Total	390,689,239

TABLE 4. Materials Used: Miscellaneous Machinery and Equipment Manufacturers, 1961

Material	Quantity	Cost at works
		\$
Castings (rough and semi-finished) received from foundry:		
Iron (gray and malleable).....	ton 21,204	6,059,395
Steel	" 9,581	5,492,777
Pig iron, all grades	" 7,544	516,667
Steel (except alloy steel):		
Bars	" 21,981	4,790,697
Plates (3/16 in. and thicker)	" 28,574	4,397,324
Sheets (under 3/16 in.) - Plain	" 20,916	3,295,382
Galvanized	" 2,004	359,709
Tinplate	" 296	49,360
Strips (less than 14 in. wide)	" 2,844	550,309
Structural shapes, unfabricated (channels, angles, etc.)	" 31,646	5,262,177
Wire	" 1,207	268,972
Alloy steel in all forms:		
Alloy steel (other than stainless and tool steel) .....	..	3,337,482
Stainless .....	..	2,921,154
Tool steel (all types including high speed) .....	..	741,525
Scrap iron and steel - Purchased	ton 27,578	1,015,661
Own make	" 5,256	...
Pipe and fittings, iron and steel .....	..	2,611,653
Other iron and steel .....	..	5,126,963
Ferro-alloys .....	..	520,762
Non-ferrous metals in all forms:		
Aluminum - Castings	pound 5,597,110	5,017,887
Sheet	" 590,132	318,130
Other forms	" 1,068,002	460,150
Brass and bronze	" 4,539,588	2,266,368
Copper - Sheet	" 247,147	136,593
Wire	" 472,490	467,297
Other forms	" 766,971	392,727
Lead	" 318,930	58,536
Nickel	" 279,101	241,835
Tin	" 23,023	33,724
Zinc	" 1,287,546	219,182
Babbitt metals and solders	" 248,053	148,947
Other non-ferrous metals .....	..	270,843
Other materials and supplies:		
Paints, oils and varnishes .....	..	613,711
Foundry coke (used in cupola)	ton 7,680	288,551
Foundry sands	" 22,888	319,275
Plumbago and graphite	pound 385,868	25,630
Lumber	M ft. b.m. 7,306	687,721
Firebrick and cupola blocks .....	..	150,833
Fireclay	ton 635	20,910
Core oil	imp. gal. 206,210	189,556
Shipping materials .....	...	1,420,192
All other materials ¹ .....	...	117,537,422
Total .....	...	178,603,989

¹ No detailed information on materials used was collected from small establishments. The total estimated value of materials used by these establishments was \$8,102,399 and this amount is included in "All other materials".

TABLE 5. Factory Shipments of Miscellaneous Machinery and Equipment, 1961 (from All Industries)

Item	Quantity shipped	Value of factory shipments
	No.	\$
Compressors and pumps:		
Air compressors:		
Stationary type .....	..	4,807,000
Portable type .....	..	918,000
Pumps:		
Centrifugal .....	..	11,178,000
Deep well	1,831	348,000
Sump	29,420	933,000
Hand pumps .....	..	349,000
Self-contained household water pumping systems:		
Deep well and shallow jets	43,794	3,890,000
Shallow well, non-jet	21,526	1,853,000
Other power pumps; including direct-acting steam piston, electric, rotary, vacuum, and pump jacks .....	..	3,729,000
Pumps parts and accessories .....	...	4,571,000
Conveying, elevating and materials handling equipment:		
Conveyors and conveying systems:		
Gravity conveyors, (including straight and spiral chutes) .....	..	1,266,000
Portable conveyor units .....	..	1,019,000
Power conveyors:		
Belt type .....	..	9,623,000
Bucket type .....	..	1,219,000
Other conveyors, including pneumatic tube systems and parts ..	..	6,279,000
Elevators, including passenger, freight, sidewalk, dumb-waiters, escalators and parts .....	...	25,238,000
Hoisting machinery (except mine hoists):		
Powered overhead travelling cranes .....	..	5,170,000
Other cranes .....	..	1,502,000
Chain blocks and trolleys .....	..	1,298,000
Monorail electric hoists .....	..	846,000
Monorail systems .....	..	772,000
Industrial hoists and lifts, stationary .....	..	458,000
Winches .....	..	1,251,000
Other hoisting machinery .....	..	1,941,000
Attachments and parts for hoisting machinery .....	...	1,026,000
Industrial trucks, tractors, trailers and stackers:		
Hand trucks (including dollies) .....	..	1,821,000
Lift trucks .....	..	1,059,000
Other industrial tractors, stackers, including powered types .....	..	697,000
Miscellaneous materials handling equipment .....	...	3,432,000
Drilling, excavating, mining and related machinery:		
Rock drilling, earth boring and related machinery:		
Rock drills, including diamond drills .....	..	2,185,000
Diamond drill bits .....	..	4,407,000
Tungsten carbide drill bits .....	..	4,551,000
Other rock drilling, earth boring and related machinery and parts ..	..	8,282,000
Mining and ore processing machinery:		
Ball and rod mills .....	..	1,273,000
Crushers, jaw and gyratory .....	..	1,410,000
Hoist (mine hoists only)	1	1
Mine cars	1	1
Skips and cages	1	1
All other mining and ore processing machinery, including agitators, coal cutting machines, filters, flotation machines, screens, thickeners, etc. and parts .....	...	8,748,000
Construction, excavating, dredging and loading equipment:		
Power excavators (power shovels)	113	4,381,000
Bulldozing, angle-dozing and similar equipment .....	..	376,000
Snow ploughs .....	..	2,118,000
Concrete mixer-agitators, truck type	203	1,089,000
Concrete, plaster and mortar mixers, other	3,472	797,000

See footnotes at end of table.

TABLE 5. Factory Shipments of Miscellaneous Machinery and Equipment, 1961
(from All Industries) — Continued

Item	Quantity shipped	Value of factory shipments
	No.	\$
Construction, excavating, dredging and loading equipment — Concluded:		
Other mixing and paving equipment (concrete and bituminous) .....	..	1,765,000
Other construction machinery, including pneumatic hammers, demountable scaffolding etc. and parts .....	...	5,444,000
Other excavating machinery and parts .....	...	5,495,000
Other road and airport construction and maintenance machinery, including snow blowers, flushers, scrapers, graders, etc. and parts .....	...	8,421,000
Engines (excluding aircraft and automobile types):		
Turbines, hydraulic and steam .....	..	11,624,000
Diesel	5	\$
Gasoline, including outboard, industrial, etc.	68,690	17,660,000
Engine parts:		
For diesel engines .....	...	591,000
For gasoline engines .....	...	3,581,000
For marine engines .....	...	104,000
Fire-fighting equipment:		
Pumpers .....	..	..
Other fire-fighting equipment, including hose trucks, ladder trucks, etc. ....	...	3,435,000
Food products machinery (including beverages and tobacco) machinery:		
Bakers' machinery:		
Mixing machines	717	806,000
Ovens	111	794,000
Other bakers' machinery and parts .....	...	669,000
Dairy and milk products plant machinery, excluding milking machines .....	...	2,703,000
Flour and grist mill machinery .....	...	749,000
Other food products machinery and parts, including milking machines .....	...	2,608,000
Foundry equipment .....	...	401,000
Metal-working machinery:		
Machine tools, metal-working:		
Boring machines	2	2
Drilling machines	2	2
Grinding machines and grinders	135	250,000
Lathes, engine and turret	199	589,000
Milling machines	2	2
Presses .....	..	1,536,000
Punching machines	2	2
Rolls, bending and straightening	601	462,000
Shapers	2	2
Shearing machines	2	2
Other machine tools .....	...	3,213,000
Machine tool parts and accessories .....	...	762,000
Metal-working machinery (except machine tools), including rolling mill machinery .....	...	6,454,000
Printing and bookbinding machinery and parts	3	3
Pulp and paper industries machinery and parts .....	...	23,619,000
Service industry equipment (including vending machines):		
Commercial laundry and dry cleaning equipment .....	..	1,871,000
Vending machines .....	..	688,000
Service station and garage equipment:		
Auto lifts	1,749	1,185,000
Gasoline-dispensing pumps	8,021	4,574,000
Other garage equipment .....	..	587,000
Other service industry machinery .....	..	2,436,000
Ships' machinery and fittings (except winches) .....	..	3,489,000
Textile industries machinery and parts .....	..	328,000

See footnotes at end of table.

TABLE 5. Factory Shipments of Miscellaneous Machinery and Equipment, 1961
(from All Industries) — Concluded

Item	Quantity shipped	Value of factory shipments
	No.	\$
Transmission equipment and bearings:		
Bearings, ball and roller, and parts .....	..	16,062,000
Cut tooth and cast tooth gears .....	..	3,035,000
Flexible couplings .....	..	895,000
Pulleys .....	..	419,000
Sprocket chain and drive chain .....	..	1,661,000
Speed reducer units .....	..	2,105,000
Other transmission machinery and parts .....	...	3,935,000
Water and sewage treatment equipment:		
Domestic water softeners	14,776	1,646,000
Other water and sewage treatment equipment and parts .....	...	4,513,000
Woodworking machinery (excluding power driven hand tools and home workshop tools):		
Band sawing machines	4	4
Lathes	4	4
Planers	4	4
Rip and cross cut saws	4	4
Other woodworking machinery and parts .....	...	2,581,000
General purpose industrial machinery:		
Wrapping and packaging machinery and parts .....	...	1,855,000
Other general purpose industrial machinery and parts .....	...	6,512,000
Ventilating, exhaust and dust-collecting equipment .....	..	13,112,000
Special industry machinery:		
Rubber-working machinery .....	..	2,457,000
Cement mill machinery .....	..	1,568,000
Saw-mill machinery, including lumber handling equipment .....	..	3,830,000
Logging, machinery .....	..	1,649,000
Grain elevator machinery .....	..	855,000
Other special industry machinery and parts .....	..	12,823,000
Welding machinery, electric .....	...	3,930,000
Miscellaneous machinery:		
Blowers for domestic furnaces	192,755	2,364,000
Gas burners:		
Residential	9,251	586,000
Commercial and industrial	1,582	491,000
Lawn mowers:		
Hand		
Power	125,404	5,891,000
Oil burners, power:		
Domestic	96,462	6,468,000
Commercial and industrial	3,708	1,328,000
Power tools, hobby and home workshop .....	...	4,565,000
Saws, power chain, and parts .....	...	10,419,000
Stokers:		
Domestic	509	238,000
Commercial and industrial	252	600,000
All other machinery and parts, not separately specified .....	...	50,401,000
Total .....	...	425,797,000

¹ Included with "Other mining and ore processing machinery".

² Included with "Other machine tools".

³ Included with "Other special industry machinery and parts".

⁴ Included with "Other woodworking machinery".

⁵ Included with "Other machinery and parts".

TABLE 6. Principal Statistics classified according to Type of Ownership: Miscellaneous Machinery and Equipment Manufacturers, 1961

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
Individual ownership	24	126	432,126	378,121	1,123,691
Partnerships	12	144	614,830	840,780	1,872,738
Incorporated companies	384	26,340	121,699,253	177,385,088	387,692,810
Totals	420	26,610	122,746,209	178,603,989	390,689,239

TABLE 7. Principal Statistics grouped according to Selling Value of Factory Shipments: Miscellaneous Machinery and Equipment Manufacturers, 1961

Establishments reporting factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
Under \$10,000	6	16	46,297	14,512	36,131
\$ 10,000 to \$ 24,999	21	77	193,782	160,224	395,577
25,000 " 49,999	27	162	523,963	441,041	1,023,517
50,000 " 99,999	50	409	1,470,193	1,240,630	3,662,830
100,000 " 199,999	77	1,049	4,089,370	4,509,585	11,549,579
200,000 " 499,999	76	1,853	8,096,334	10,312,982	23,730,591
500,000 " 999,999	57	2,916	13,573,910	18,493,208	41,180,884
1,000,000 " 4,999,999	94	12,296	57,652,823	84,082,605	187,517,202
5,000,000 and over	12	7,830	37,083,284	59,349,202	121,592,928
Head offices		2	16,253		
Totals	420	26,610	122,746,209	178,603,989	390,689,239

TABLE 8. Employees and their Earnings: Miscellaneous Machinery and Equipment Manufacturers, 1961

Province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total em- ployees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
	number					dollars		
Newfoundland and New Brun- swick	14	4	66	—	84	94,448	265,665	360,113
Nova Scotia	24	7	240	—	271	134,366	851,869	986,235
Quebec	1,866	556	4,375	62	6,859	12,370,384	17,738,734	30,109,118
Ontario	4,297	1,521	10,565	607	16,990	31,671,974	48,135,629	79,807,603
Manitoba	134	34	290	13	471	883,117	1,215,670	2,098,787
Saskatchewan	14	7	73	—	94	99,082	279,892	378,974
Alberta	52	25	185	11	273	388,951	896,534	1,285,485
British Columbia	354	102	1,087	25	1,568	2,547,191	5,172,703	7,719,894
Canada	6,755	2,256	16,881	718	26,610	48,189,513	74,556,696	122,746,209

TABLE 9. Production Workers, by Months: Miscellaneous Machinery and Equipment Manufacturers, 1961

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	14,687	661
February	14,680	670
March	14,950	677
April	15,158	669
May	15,120	665
June	15,416	679
July	15,447	691
August	15,639	711
September	15,648	713
October	15,690	722
November	15,618	711
December	15,387	702
Average for establishments reporting monthly detail	15,284	691
Average estimated for small establishments ²	1,597	27
Average for all establishments	16,881	718

¹ The number of production workers by months was collected only for large establishments.

² The monthly detail of production workers was not collected from small establishments. Only annual averages were collected from these establishments.

TABLE 10. Fuel and Electricity Used: Miscellaneous Machinery and Equipment Manufacturers, 1961

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 9,158	140,153
(b) Imported	" 25,013	298,633
Sub-bituminous coal (from Alberta mines only)	" 453	2,606
Anthracite coal	" 718	18,681
Coke	" 1,248	31,337
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 871,649	334,278
Fuel oil including kerosene or coal oil	" 6,947,806	797,537
Wood	cord 90	1,012
Gas:		
(a) Liquefied petroleum gases	Imp. gal. 94,887	28,971
(b) Other manufactured gas	M cu. ft. 40,631	22,787
(c) Natural gas	" 672,575	471,273
Other fuel .....	... ..	58
Electricity purchased	kwh. 161,126,817	1,884,007
Steam purchased .....	...	66,162
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	334,126
3. All establishments:		
Total cost of fuel and electricity	4,431,621

¹ Large establishments.

² Small establishments.

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