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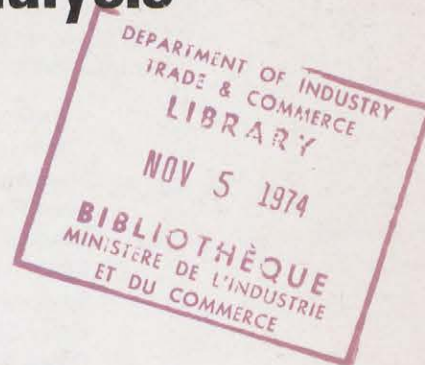


Machinery Program Analysis 1968 Imports

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Machinery Program Analysis

1968 Imports



The Machinery Program was introduced on January 1, 1968, in accordance with the provisions of tariff item 42700-1. It covers a broad range of machines, as well as their accessories, attachments, control equipment and tools, used by Canadian manufacturing and service industries, and replaced 18 tariff items under which such machines were formerly dutiable. The rates of duty under the new tariff item (42700-1) are 2½ per cent B.P. and 15 per cent M.F.N. with provision for duty remission when machinery is not available from Canadian production.

This report identifies the full range of machinery and related equipment not available from Canadian production, and imported free of duty during 1968 under this tariff item.

The statistical detail is presented under 47 main groups of machinery which are, in turn, divided into generally identifiable sub-groups.

Enquiries concerning this report should be addressed to:

Machinery Branch,
Department of Industry,
Trade and Commerce,
112 Kent Street,
Ottawa.

1973

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Section I

SPECIAL PURPOSE AND SERVICE INDUSTRIES MACHINERY AND EQUIPMENT

cleaning, blasting, plating and spraying equipment and systems

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Abrasive cleaning and blasting equipment and parts	U.S.A.	128	330
		<i>This equipment is now available from Canadian production with the exception of horizontal tumbling barrel type airless blast cleaning machines.</i>	
Steam cleaning and washing equipment and parts	U.S.A.	756	219
		<i>Excluding high pressure water and solution cleaners, with capacities of 180 to 200 g.p.h. at 400 to 600 p.s.i.</i>	
Other cleaning equipment and parts	U.S.A.	1,510	138
	Others	—	2
		1,510	140
Plating equipment and parts	U.S.A.	38	440
	Others	2	23
		40	463
		<i>Excluding plating rack units and certain custom designed heavy production automatic combination hoisting and conveying machines for plating racks or barrels.</i>	
Spraying equipment and parts	U.S.A.	505	467
	Others	—	2
		505	469
		<i>Excluding airless paint spray units, automatic high speed horizontal rotary arm paint spraying machines, and paint curing ovens.</i>	
Floor machines and parts (excluding domestic)	U.S.A.	723	561
	W. Germany	—	3
		723	564
		<i>Excluding certain scrubbers and polishers, certain electric sanders, rug and carpet dry foam cleaning machines.</i>	
Other cleaning commercial and industrial cleaning machinery and parts	U.S.A.	107	109
	Group Total	3,769	2,294

commercial laundry and dry cleaning equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Washing machines and parts	U.S.A.	905	471
	Sweden	5	9
		<u>910</u>	<u>480</u>
	<i>Excluding coin operated machines capacity up to 18 lbs. dry weight and continuous washing ranges for use in the primary textile industry.</i>		
Drying tumblers and parts	U.S.A.	59	112
	<i>Excluding coin operated machines capacity up to 16 lbs. dry weight.</i>		
Laundry finishing equipment and parts	U.S.A.	230	276
	<i>Excluding certain hydro extractors.</i>		
Other commercial laundry equipment and parts	U.S.A.	212	220
	U.K.	—	31
	Italy	13	7
	Sweden	163	86
	Others	4	23
		<u>392</u>	<u>367</u>
<i>Excluding steam heated ironers equipped with two or more rolls in widths of 110 ins. and 126 ins.</i>			
Dry cleaning presses and finishing equipment	U.S.A.	637	497
	<i>Excluding vertical bag type pants toppers, and utility presses (legger, silk press, wool press and all purpose utility), in all buck sizes.</i>		
Dry cleaning units and parts	U.S.A.	130	339
	U.K.	51	185
	Italy	25	111
	W. Germany	21	89
		<u>227</u>	<u>724</u>
Other dry cleaning equipment and parts	U.S.A.	351	328
	W. Germany	4	28
		<u>355</u>	<u>356</u>
Group Total		2,810	2,812

washing, filling, packaging and labelling machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Bottle washing machinery and parts	U.S.A. <i>Mainly for breweries, distilleries and soft drink industry.</i>	20	349
Bottle filling machinery and parts	U.S.A. Others	49 9 <u>58</u>	421 142 <u>563</u>
	<i>Excluding in-line liquid fillers with up to 12 filling heads.</i>		
Bottle capping machinery and parts	U.S.A. U.K. Others	34 4 8 <u>46</u>	133 262 24 <u>419</u>
Bottle cartoning and uncartoning machinery and parts	U.S.A. <i>Excludes: case packers for top-loading cartons or cases up to 32 ins. by 40 ins. by 24 ins.; end-loading cartoning machines for beer bottles operating at speeds of up to 1,000 bottles per minute; wrap-around can cartoning machines for cases up to 22 ins. by 18 ins. by 12 ins.</i>	2,072	312
Bottle sealing and labelling machinery and parts	U.S.A. <i>Mainly sealing machinery and combination labelling machines with shoulder label capacity.</i>	29	454
Can making machinery and parts	U.S.A.	25	580
Can filling machinery and parts	U.S.A. U.K.	30 3 <u>33</u>	321 27 <u>348</u>
	<i>Excludes: canned ham filler machines; volumetric fillers for cans to 120 cu. ins.; manual can fillers.</i>		
Can capping, closing and sealing machinery and parts	U.S.A. <i>Excludes lid press machines.</i>	47	876

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other can washing, filling, closing and labelling machinery and parts	U.S.A.	40	209
	Others	3	2
		<u>43</u>	<u>211</u>
	<i>Excluding spot labellers to 9 ins. by 6 ins. on containers to 14.5 ins. high by 8 ins. in diameter.</i>		
Bag and envelope filling and stuffing machinery and parts	U.S.A.	64	277
	W. Germany	3	8
		<u>67</u>	<u>285</u>
Combination bag and envelope making, filling and closing machinery and parts	U.S.A.	39	351
	U.K.	2	8
	Japan	6	15
	Others	2	33
		<u>49</u>	<u>407</u>
Other bag and envelope packaging machinery and parts	U.S.A.	97	185
	<i>Excluding bag sealers - pedal operated, up to 30 ins.</i>		
Box, carton and case forming machinery and parts	U.S.A.	9	119
	Others	—	3
		<u>9</u>	<u>122</u>
<i>Excluding: case formers of cases to 32 ins. by 40 ins. by 24 ins.; lock tab carton formers from blanks to 23 ins. by 34 ins.</i>			
Box, carton and case filling machinery and parts	U.S.A.	16	225
	<i>Excluding case packers to 32 ins. by 40 ins. by 24 ins.</i>		
Box, carton and case closing machinery and parts	U.S.A.	42	180
	<i>Excluding case sealers top, bottom, or top and bottom sealers, for cases to 32 ins. by 40 ins. by 24 ins.</i>		
Combination box and carton opening, filling and closing machinery and parts	U.S.A.	18	271
	Others	7	96
		<u>25</u>	<u>367</u>
Other box, carton and case packaging machinery and parts	U.S.A.	54	382

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Blister sealing machinery and parts	U.S.A.	8	163
	W. Germany	—	23
		<u>8</u>	<u>186</u>
Film wrapping machinery and parts	U.S.A.	36	306
	U.K.	12	47
		<u>48</u>	<u>353</u>
<i>Excluding sleeve wrappers handling film to 40 ins. wide.</i>			
Other plastic packaging machinery and parts	U.S.A.	128	510
	Others	—	3
		<u>128</u>	<u>513</u>
<i>Excluding: shrink tunnels with tunnel openings to 11 ins. by 27 ins.; automatic and semi-automatic L sealers to size 40 ins. by 40 ins.; automatic and semi-automatic baggers to 16 ins. wide; bag sealers to 18 ins. wide; pouch machines for pouches ranging in size from 2 ins. by 2 ins. to 6 ins. by 8 ins.</i>			
Special purpose packaging machinery and parts (including ampoule and capsule filling and sealing)	U.S.A.	81	325
	Sweden	3	63
	Others	17	69
	<u>101</u>	<u>457</u>	
Miscellaneous packaging machinery and parts	U.S.A.	608	432
	U.K.	6	66
	Others	7	6
	<u>621</u>	<u>504</u>	
Labelling machinery and parts (excluding bottle and can labelling machinery)	U.S.A.	547	316
	W. Germany	16	158
	Others	—	4
	<u>563</u>	<u>478</u>	
Tape dispensing machinery and parts	U.S.A.	1,662	120
Wrapping machinery and parts	U.S.A.	43	350
	Others	9	55
		<u>52</u>	<u>405</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Marking and stamping machinery and parts	U.S.A.	327	116
	Group Total	6,242	9,397

food products, beverage and tobacco machinery and equipment (excluding canning machines)

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Bakery mixing machinery and parts	U.S.A.	1,080	457
	U.K.	32	262
	Netherlands	13	10
	W. Germany	9	10
	Others	—	2
			<u>1,134</u>

Excluding vertical mixers of 20 qt. capacity and certain stationary horizontal large capacity dough mixers.

Bakery moulders and parts	U.S.A.	45	102
	U.K.	31	5
	Netherlands	13	1
	Switzerland	3	6
	W. Germany	11	4
	Others	7	7
		<u>110</u>	<u>125</u>

Bread slicing machines and parts	U.S.A.	18,041	116
	W. Germany	2	7
		<u>18,043</u>	<u>123</u>

Other bakery machinery and equipment and parts	U.S.A.	327	712
	France	12	24
	Netherlands	21	23
	W. Germany	22	15
	Others	20	11
		<u>402</u>	<u>785</u>

Excluding certain dough proofers, bread pan oilers, bread dough elevators, and automatic groupers.

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Sugar and confectionery machinery and parts	U.S.A.	63	638
	U.K.	5	135
	W. Germany	25	51
	Others	—	4
		<u>93</u>	<u>828</u>
Meat slicing machinery and parts	U.S.A.	301	351
	Italy	23	5
	W. Germany	383	3
		<u>707</u>	<u>359</u>
			<i>Excluding manually operated non-gravity feed machines.</i>
Slaughtering and meat packing machinery and parts	U.S.A.	284	433
	Denmark	3	8
	Japan	3	5
	W. Germany	44	60
	Others	4	7
		<u>338</u>	<u>513</u>
		<i>Excluding certain animal slaughtering equipment.</i>	
Dairy and milk product plant machinery and parts	U.S.A.	722	1,937
	Sweden	4	22
	Others	3	22
		<u>729</u>	<u>1,981</u>
		<i>Excluding certain butter or margarine print formers and wrappers.</i>	
Other food products machinery and equipment and parts	U.S.A.	1,553	685
	Italy	306	17
	W. Germany	325	157
	Others	7	15
		<u>2,191</u>	<u>874</u>
Beverage industry machinery and parts	U.S.A.	1,412	2,374
	Japan	5,484	10
	Others	7	11
		<u>6,903</u>	<u>2,395</u>
		<i>Mainly bottling machinery.</i>	
Cereal manufacturing machinery and parts	U.S.A.	48	382
	U.K.	16	86
	W. Germany	3	24
	Others	—	79
		<u>67</u>	<u>571</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Fish preparing machinery and parts	U.S.A.	45	227
	Netherlands	3	9
	Others	—	1
		<u>48</u>	<u>237</u>
Fresh fruit and vegetable processing machinery and parts	U.S.A.	1,189	334
	Sweden	85	14
		<u>1,274</u>	<u>348</u>
			<i>Mainly peeling and pitting machinery.</i>
Other food products machinery and equipment and parts	U.S.A.	24	28
	Denmark	2	44
	W. Germany	3	3
	Others	2	9
		<u>31</u>	<u>84</u>
Tobacco processing machinery and parts	U.S.A.	35	83
	U.K.	15	142
	W. Germany	17	90
		<u>67</u>	<u>315</u>
			<i>Mainly processing and filter-making machinery.</i>
Food mixers, juicers and blenders and parts	U.S.A.	1,187	72
	U.K.	23	3
	W. Germany	24	14
	Others	204	3
		<u>1,438</u>	<u>92</u>
Meat grinders, choppers and slicers, electric and parts (excluding domestic)	U.S.A.	5,032	250
	W. Germany	283	11
		<u>5,315</u>	<u>261</u>
			<i>Mainly grinders and choppers in excess of 68 lbs. per minute.</i>
Other food grinders, choppers and slicers, electric and parts (excluding domestic)	U.S.A.	1,813	237
	Italy	32	9
	W. Germany	9	2
		<u>1,854</u>	<u>248</u>
Other food preparation appliances and parts	U.S.A.	370	105
	W. Germany	89	5
		<u>459</u>	<u>110</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Garbage disposal units and parts, excluding domestic	U.S.A.	706	120
Dishwashers and parts, excluding domestic	U.S.A.	328	14
	Group Total	42,237	11,124

motor vehicle, aircraft, rail, marine and machinery maintenance equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Tire servicing and repairing equipment	U.S.A.	12,325	362
	U.K.	—	363
	Sweden	197	16
	W. Germany	150	9
		<u>12,672</u>	<u>750</u>
<i>Excluding: tire repair vulcanizers (electric and steam); certain tire spreaders; certain tire repair moulds; certain passenger tire bead and side wall repair machines; certain inlay rubber slitting and inlay colour wall machines; certain tire changers and tire stud machines.</i>			
Motor vehicle, maintenance, servicing and repair equipment and parts	U.S.A.	864	730
	W. Germany	—	6
		<u>864</u>	<u>736</u>
<i>Mainly lathes and boring machines for reconditioning transmissions and engine blocks; certain dynamometers and some pressing machines.</i>			
Aircraft maintenance, servicing and repair equipment and parts	U.S.A.	13	44
Rail maintenance, servicing and repair equipment and parts	U.S.A.	3,296	346
	Others	65	5
		<u>3,361</u>	<u>351</u>
<i>Excluding certain tables for moving and transferring rail cars and certain rip jacks.</i>			

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other maintenance, servicing and repair equipment and parts	U.S.A.	998	89
	U.K.	—	40
		<u>998</u>	<u>129</u>
	<i>Mainly mechanical and air-hydraulic jacks.</i>		
Industrial lubricating equipment, systems and parts	U.S.A.	549	184
	Group Total	18,457	2,194

other special purpose and service industries machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Leather footwear machinery and parts	U.S.A.	128	226
	Denmark	8	50
	Italy	9	18
	W. Germany	6	7
		<u>151</u>	<u>301</u>
	<i>Excluding clicking machines, edge trimming machines, breast skiver machines, rack and fitting room transporters and certain forming and moulding machines.</i>		
Rubber, canvas, and other footwear machinery and parts	U.S.A.	146	354
	Italy	4	5
	Sweden	4,550	5
	W. Germany	27	59
	Others	5	10
		<u>4,732</u>	<u>433</u>
	<i>Mainly sole and heel attaching to uppers machinery.</i>		
Leather tanning and working machinery and parts	U.S.A.	62	60
	Others	4	55
		<u>66</u>	<u>115</u>
Textile machinery and parts	U.S.A.	1,713	510
	U.K.	—	5
	Japan	195,242	162
	Sweden	13	27
	Switzerland	353	30
	W. Germany	255	40
	Others	10	13
	<u>197,586</u>	<u>787</u>	
	<i>Excluding certain washing, drying and dyeing machines.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Electric motor production machinery and parts	U.S.A.	33	202
Radio, TV and electronics machinery and parts	U.S.A.	519	839
Lens grinding and finishing machinery and parts	U.S.A. Others	136 3 <u>139</u>	166 30 <u>196</u>
<i>Excluding: certain rimless edgers; hand surfacers; giant cylinder machines; lap cutting machines; lens cutters; sphere polishers; lens generator machines.</i>			
Photographic machinery and processing equipment and parts	U.S.A.	17	713
Lawn conditioning and preparation equipment and parts (excluding lawn mowers)	U.S.A.	7,609	333
Miscellaneous special purpose machinery and equipment and parts	U.S.A. U.K. W. Germany Others	8,620 6 36 45 <u>8,707</u>	2,269 37 85 53 <u>2,444</u>
Printing machinery and parts	U.S.A. Japan W. Germany	3,890 — 8 <u>3,898</u>	492 8 10 <u>510</u>
Surgical and medical machinery and equipment and parts	U.S.A. U.K. W. Germany	5,209 — 123 <u>5,332</u>	112 35 4 <u>151</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Amusement and sports devices and parts	U.S.A.	49	156
	Italy	33	18
	W. Germany	—	53
		<u>82</u>	<u>227</u>

Barber shops and beauty parlor equipment and parts

U.S.A.

538

10

*Excluding shavers (key-wound, spring operated) and beauty parlor chairs and hydraulic lift mechanisms.
Mainly electric lather machines and hair dryers.*

Group Total

10,302,569

7,261

office machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
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Cheque protectors and signers and parts

U.S.A.

1,684

133

Stencil cutting machines and parts

U.S.A.

54

12

Denmark

39

14

Japan

40

10

W. Germany

241

141

374

177

Other office machinery and parts

U.S.A.

163,089

2,543

U.K.

3,334

295

Belgium

16

7

Japan

2,016

9

Sweden

5

1

W. Germany

110

22

168,570

2,877

Excluding paper joggers and paper collators up to 20-bin capacity, postage meter machines up to 10,000 pieces/hr.

Mainly perforators and paper shredders, mail openers, automatic addressers, shorthand machines, decollators, paper sheet sorters, autograph registers, paper binding equipment, hole punching and drilling equipment and automatic filing and retrieval units.

Group Total

170,628

3,187

vending and coin handling machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Vending machinery and equipment and parts	U.S.A.	2,088	788
	Netherlands	<u>20</u>	<u>4</u>
		2,108	792
	<i>Mainly upright milk machines, ice cream machines, candy machines, single cup coffee machines, ticket machines, trading machines, separately mounted coin and bill changers, coin sorters, counters and wrapping machines.</i>		
	Group Total	2,108	792

compressors and industrial fans and blowers

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Air compressor package units and parts	U.S.A.	11	102
	Others	3	40
		14	142
<i>Mainly oil-free, screw type.</i>			
Air compressors, portable and parts	U.S.A.	12	212
	<i>Mainly in excess of 600 c.f.m. and 125 p.s.i.g.</i>		
Reciprocating air compressors and parts	U.S.A.	72	118
	Others	6	1
		78	119
<i>Mainly for specialty application; up to 10 c.f.m.</i>			
Rotary type air compressors and parts	U.S.A.	54	441
	U.K.	49	120
	Others	10	160
		113	721
<i>Mainly in excess of 600 c.f.m.</i>			
Other air compressors and parts	U.S.A.	1,559	93
Gas compressors and parts (excluding refrigeration types)	U.S.A.	55	515
	Others	—	8
		55	523
<i>Mainly centrifugal, for hydro-carbon synthesis; and reciprocating type for natural gas service.</i>			
Industrial fans and blowers and parts	U.S.A.	397	361
	Others	21	29
		418	390
<i>Mainly high speed, centrifugal, single stage, less than 10 p.s.i.g. discharge pressure and in the order of 25,000 c.f.m. and above.</i>			
	Group Total	2,249	2,200

pumps and valves

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Pumps, centrifugal, single stage, and parts	U.S.A.	17,972	280
	Others	<u>159</u>	<u>282</u>
		18,131	562
<i>Mainly for specialty applications.</i>			
<hr/>			
Pumps, measuring and proportioning, and parts	U.S.A.	4,630	771
	<i>Mainly for use in dispensing chemicals into process streams.</i>		
<hr/>			
Pumps, reciprocating, piston type and parts	U.S.A.	371	209
	Others	<u>540</u>	<u>56</u>
		911	265
<i>Mainly high discharge—e.g. triplex types.</i>			
<hr/>			
Pumps, reciprocating (excluding piston types) and parts	U.S.A.	44	167
	<i>Mainly extra high discharge pumps.</i>		
<hr/>			
Pumps, rotary, gear or vane types, and parts	U.S.A.	660	119
	Others	<u>8</u>	<u>2</u>
		668	121
<i>For specialty application.</i>			
<hr/>			
Other pumps and parts (excluding vacuum pumps)	U.S.A.	2,325	216
	Others	<u>10,555</u>	<u>55</u>
		12,880	271
<hr/>			
Vacuum pumps and parts (excluding vacuum pumps for milking machines)	U.S.A.	481	332
	U.K.	165	94
	Others	<u>—</u>	<u>7</u>
		646	433
<i>Mainly for high vacuum techniques. Excludes low and medium pressure vacuum pumps.</i>			
<hr/>			
Valves and parts	U.S.A.	1,397	583
	Others	<u>4</u>	<u>1</u>
		1,401	584
	Group Total	39,311	3,174

industrial air conditioning and refrigeration equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Room air conditioners, window and wall sleeve type, in excess of 12,000 b.t.u.'s per hour, and parts	U.S.A.	227	165
	<i>Mainly "through the wall" units, now available from Canadian production.</i>		
Self-contained air conditioning units (excluding window and wall sleeve types) and parts	U.S.A.	228	186
	<i>Mainly package air conditioning units in excess of 15 tons.</i>		
Roof top type air conditioners, combination heating and cooling (excluding heat pumps) and parts	U.S.A.	667	933
	<i>Mainly roof top units less than 5 tons and units in excess of 40 tons.</i>		
Other air conditioners, combination heating and cooling (excluding heat pumps) and parts	U.S.A.	1,087	350
Dehumidifiers, self-contained, and humidifiers and parts	U.S.A. Switzerland	1,294 25 <hr/> 1,319	245 9 <hr/> 254
	<i>Commercial units.</i>		
Special purpose refrigeration cabinets and parts	U.S.A.	638	119
	<i>Mainly low temperature, high humidity environmental equipment.</i>		
Drinking water coolers, including office type, self-contained, and parts	U.S.A.	3,651	448
Ice makers and parts	U.S.A.	1,091	427
	<i>Excluding ice cube making machines with capacity from 100 to 600 lbs. per day inclusive. These ratings are not now available from Canadian production.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Automotive air conditioning units and parts	U.S.A.	4,180	370
Truck refrigeration units, mechanical, and parts	U.S.A.	724	2,375
Other commercial refrigeration units and parts (including railroad units)	U.S.A. U.K.	130 5 <hr/> 135	270 28 <hr/> 298
Hermetic and semi-hermetic refrigeration compressor units and parts	U.S.A.	63,041	2,230
		<i>Excluding 1/4 h.p. welded hermetics, and semi-hermetics to 25 h.p. Welded hermetics in the 5 - 7,000 b.t.u.h. range for air conditioning service and semi-hermetics to 125 h.p. are now considered available from Canadian production.</i>	
Refrigeration compressor units and bare compressors, open type, except ammonia and parts	U.S.A.	62	164
		<i>Mainly units in excess of 30 h.p.</i>	
Refrigeration compressor units and bare compressors, ammonia type, reciprocating and rotary, and parts	U.S.A. Denmark Sweden	159 — 4 <hr/> 163	326 4 22 <hr/> 352
Other refrigeration compressor units and bare compressors and parts	U.S.A.	92	242
Refrigeration condensing units and parts	U.S.A.	1,313	131
Liquid chillers, centrifugal type, and parts	U.S.A.	132	2,214
		<i>Mainly units in excess of 100 h.p.</i>	

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Liquid chillers, absorption type, and parts	U.S.A.	285	428
	<i>Mainly units in excess of 100 h.p.</i>		
Other air conditioning and refrigeration and parts	U.S.A.	893	422
	Group Total	79,928	12,108

sawmill, lumbermill and woodworking machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Lumber dressing and trimming machinery and equipment and parts	U.S.A.	8	184
	Others	3	4
		<u>11</u>	<u>188</u>
	<i>Mainly planer-matchers; most of this equipment now available from Canadian production.</i>		
Other sawmill and lumbermill machinery and equipment and parts	U.S.A.	19	136
	Others	—	25
		<u>19</u>	<u>161</u>
	<i>Mainly twin band saws or re-saws having band wheels 48 ins. or less in diameter.</i>		
Woodworking saws, circular, and parts	U.S.A.	71	116
	Others	37	41
		<u>108</u>	<u>157</u>
	<i>Mainly radial saws exceeding 12 ins. diameter and large panel saws.</i>		
Other woodworking saws and parts	U.S.A.	73	69
	U.K.	18	44
	Others	24	17
		<u>115</u>	<u>130</u>
	<i>Mainly small panel saws.</i>		
Tenoning machines and parts	U.S.A.	6	155
	U.K.	—	18
	Belgium-Lux.	—	15
	Others	3	12
		<u>9</u>	<u>200</u>
	<i>Mainly double-end tenoners.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Planers, routers and shapers, wood-working, and parts	U.S.A.	31	91
	U.K.	11	46
	Japan	13	23
	Sweden	—	11
	Others	21	22
		<u>76</u>	<u>193</u>

Mainly multi-spindle shapers, and automatic feed routers.

Sanders, surfacing and finishing, and parts	U.S.A.	1,748	122
	U.K.	7	25
	Belgium	4	23
	Italy	13	5
	Netherlands	16	43
	Sweden	9	14
	W. Germany	18	50
		<u>1,815</u>	<u>282</u>

Mainly wide belt sanders for wood-working application.

Other woodworking machinery and parts	U.S.A.	4,569	558
	U.K.	11	120
	Italy	43	44
	Japan	5,484	10
	Switzerland	3	28
	U.S.S.R.	—	8
	W. Germany	32	40
	Others	16	21
		<u>10,158</u>	<u>829</u>
	Group Total	12,311	2,140

vener and plywood machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Particle board, flake board and hard board machinery and equipment (including presses) and parts	U.S.A.	8	145
	U.K.	5	9
	W. Germany	—	8
		<u>13</u>	<u>162</u>

Mainly particle board preparation machinery and presses.

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Mainly for veneer patching and handling	U.S.A.	39	225
	Italy	11	82
	W. Germany	4	21
		<u>54</u>	<u>328</u>
	<i>Mainly materials equipment.</i>		
	Group Total	67	490

pulp and paper machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Pulp mill machinery and equipment and parts	U.S.A.	42	177
	Norway	—	67
		<u>42</u>	<u>244</u>
	<i>Mainly centrifugally cast rolls.</i>		
Pulp, paper and paperboard machinery and equipment and parts	U.S.A.	12	490
	Sweden	—	16
	W. Germany	833	49
		<u>845</u>	<u>555</u>
	<i>Mainly finished product handling equipment, and specialty manufacturing equipment such as for diapers.</i>		
Paper and paperboard converting machinery and parts	U.S.A.	14	100
	U.K.	—	13
		<u>14</u>	<u>113</u>
	<i>Mainly printer slotter equipment.</i>		
Other pulp and paper machinery and equipment and parts	U.S.A.	68	665
	<i>Mainly pulp preparation equipment.</i>		
	Group Total	969	1,577

power transmission equipment, pneumatic cylinders and actuators

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Hydraulic transmission package systems and parts	U.S.A.	488	225
	Others	<u>9</u>	<u>11</u>
		497	236
<i>Most of this equipment now available from Canadian production.</i>			
Gear motor units under 1/4 h.p. and parts	U.S.A.	3,596	82
	Others	<u>2</u>	<u>1</u>
		3,598	83
Fluid couplings and parts	U.K.	245	228
Clutches, power transmission and parts	U.S.A.	336	502
Drives, mechanical, variable speed and parts	U.S.A.	1,927	915
	U.K.	<u>56</u>	<u>34</u>
		1,983	949
Other gear, gear units and power transmission equipment (excluding vehicle) and parts	U.S.A.	2,594	544
	Others	<u>4</u>	<u>41</u>
		2,598	585
<i>This group includes mainly "power take-offs"; most gear, gear units and power transmission equipment are available from Canadian production.</i>			
Pneumatic cylinders, actuators and air motors and parts	U.S.A.	121	53
	Group Total	9,378	2,636

moulding and casting systems and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Core making systems and equipment and parts	U.S.A.	20	184
	<i>Mainly core and shell blowing machines.</i>		
Sand conditioning machinery and equipment and parts	U.S.A.	18	183
	U.K.	—	5
	W. Germany	—	1
		<u>18</u>	<u>189</u>
	<i>Mainly aerators and aerator feeders, mixer-slingers and mullers.</i>		
Moulding machines, including jolts and jolt squeezes, and parts	U.S.A.	8	218
	<i>Mainly jolts and jolt squeezes.</i>		
Mechanized moulding systems and parts	U.S.A.	7	424
	Denmark	—	11
		<u>7</u>	<u>435</u>
Other moulding systems and equipment and parts	U.S.A.	18	880
	U.K.	—	9
	W. Germany	—	10
		<u>18</u>	<u>899</u>
Casting systems and equipment and parts	U.S.A.	37	236
	W. Germany	601	17
		<u>638</u>	<u>253</u>
	<i>Mainly automatic casting machines.</i>		
	Group Total	709	2,178

non-metallic mineral industry machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Cement, clay, and concrete products machinery equipment and parts	U.S.A.	901	500
	U.K.	114	57
	W. Germany	8	92
		<u>1,023</u>	<u>649</u>
<i>Mainly briquetting and extrusion equipment.</i>			
Glass industries machinery and parts (excluding furnaces and moulds)	U.S.A.	252	688
	Others	—	32
		<u>252</u>	<u>720</u>
<i>Mainly glass container production equipment.</i>			
Other non-metallic mineral industry machinery	U.S.A.	1,220	320
	Others	7	52
		<u>1,227</u>	<u>372</u>
Group Total		2,502	1,741

physical properties testing, inspection, and pollution abatement equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Hardness and strength of materials testing machines and parts	U.S.A.	90	185
	U.K.	6	5
		<u>96</u>	<u>190</u>
Dynamometer water brake (for testing diesel engines and electric engines) and parts	U.S.A.	36	149
	Others	1	2
		<u>37</u>	<u>151</u>
Autometrology systems and equipment and parts	U.S.A.	48	259
	U.K.	—	23
	Others	2	1
		<u>50</u>	<u>283</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other physical properties testing and inspection equipment and parts	U.S.A.	1,331	1,113
	U.K.	11	164
	Italy	4	11
	Norway	4	12
	W. Germany	27	19
	Others	5	11
		<u>1,382</u>	<u>1,330</u>
<hr/>			
Pollution abatement equipment and parts	U.S.A.	340	148
	<i>Most of this equipment now available from Canadian production.</i>		
	Group Total	1,905	2,102

chemicals and pharmaceuticals industries machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Petro-chemicals manufacturing machinery and equipment and parts	U.S.A.	79	916
	U.K.	—	26
		<u>79</u>	<u>942</u>
	<i>Mainly custom engineered machines—e.g. wiped wall vessels and glass lined stirred vessels.</i>		
<hr/>			
Paint manufacturing machinery and equipment and parts	U.S.A.	492	101
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Other chemicals and pharmaceuticals machinery, equipment and parts	U.S.A.	4,508	1,203
	U.K.	11	31
	France	4	12
	Japan	—	14
	Sweden	—	7
	W. Germany	—	123
	Others	3	3
		<u>4,526</u>	<u>1,393</u>
	<i>Mainly centrifuges for de-watering purposes.</i>		
	Group Total	5,097	2,436

industrial filters and water and sewage treatment equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Industrial filters and parts	U.S.A. <i>Most industrial filters now available from Canadian production.</i>	94	119
<hr/>			
Water and sewage treatment equipment and parts	U.S.A.	505	156
	Others	—	1
		<u>505</u>	<u>157</u>
	<i>Mainly segments of sewage systems.</i>		
	Group Total	599	276

industrial separators

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Industrial separators, centrifugal and parts (excluding air pollution abatement systems)	U.S.A.	152	194
	Others	—	7
		<u>152</u>	<u>201</u>
	<i>Mainly centrifugal separators or centrifuges.</i>		
<hr/>			
Other industrial separators and parts (excluding air abatement systems)	U.S.A.	12	82
	Group Total	164	283

industrial heat exchangers

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Industrial heat exchangers and parts	U.S.A. <i>For special purpose machines.</i>	4	74
	Group Total	4	74

pressure and vacuum vessels

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Pressure and vacuum vessels	U.S.A. <i>Special purpose equipment.</i>	6	38
	Group Total	6	38

industrial furnaces and furnace equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Driers, industrial, and parts	U.S.A. <i>Mainly driers for communications cable, double drum driers, flake board driers, food and pharmaceutical driers.</i>	160	366
Other industrial furnaces and furnace equipment and parts	U.S.A. U.K.	32 — <u>32</u>	211 4 <u>215</u>
	Group Total	192	581

hydraulic gates and operating mechanisms and governors

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Hydraulic gates and operating mechanisms and parts	U.S.A.	73	84
	Group Total	73	84

other miscellaneous custom engineered machines

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other miscellaneous custom engineered machines	U.S.A.	416	333
	U.K.	—	10
	Others	<u>30</u>	<u>14</u>
		446	357
	Group Total	446	357

bundling and strapping machinery (not agriculture)

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Bundle forming and tying machinery and parts	U.S.A.	113	214
Strapping machinery and parts	U.S.A.	2,123	424
	Others	<u>95</u>	<u>73</u>
		2,218	497
			<i>Mainly pneumatic hand-held strapping machinery.</i>
Other bundling machinery and parts	U.S.A.	24	160
	Group Total	2,355	871

Section III

CONSTRUCTION AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

excavating, dredging and loading equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Excavator type cranes and shovels, crawler-mounted, and parts	U.S.A.	30	1,916
	<i>Mainly convertible crawler-mounted cranes with lifting capacities in excess of 100 tons.</i>		
Excavator type cranes and shovels, wheel-mounted, and parts	U.S.A.	17	403
	<i>Mainly self-propelled 4-wheel steering, 4-wheel drive, hydraulic excavators.</i>		
Other excavator type cranes and shovels, powered, including attachments, accessories, and parts	U.S.A.	38	1,055
	<i>Mainly integrated backhoe loaders, pipe layers, hydraulic excavators with straight telescopic booms.</i>		
Bulldozing and angle dozing equipment and parts	U.S.A.	10	210
Scrapers, dig-carry-haul type, and parts	U.S.A.	164	3,058
	<i>Excluding tow-type with struck-heaped capacity of 14/20 cu. yards.</i>		
Loaders, self-propelled, bucket type, and parts	U.S.A.	171	1,298
	<i>Mainly light duty skid steer front end loaders.</i>		
Other loaders, self-propelled, and parts	U.S.A.	47	692
	<i>Mainly integrated tractor and bucket loaders.</i>		
Other excavating, dredging and loading equipment and parts	U.S.A.	35	652
	Group Total	512	9,284

concrete construction equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Concrete mixer-agitators and parts	U.S.A.	15	142
	W. Germany	10	55
	Others	—	7
		<u>25</u>	<u>204</u>
<i>Mainly truck-mounted—on the job site mixers.</i>			
<hr/>			
Concrete, plaster and mortar mixers and parts	U.S.A.	65	137
	<i>Mainly those with a capacity in excess of 6 cu. yards.</i>		
<hr/>			
Concrete block, brick and drain tile machinery and parts	U.S.A.	15	427
	Others	—	12
		<u>15</u>	<u>439</u>
	<i>Most of this machinery is now available from Canadian production.</i>		
<hr/>			
Concrete pumps, placing machinery and mortar guns and parts	U.S.A.	39	279
	W. Germany	—	72
	Others	—	7
		<u>39</u>	<u>358</u>
<i>Mainly integrated mortar mixers and pumps.</i>			
<hr/>			
Other concrete construction equipment and parts	U.S.A.	351	385
	Sweden	—	12
		<u>351</u>	<u>397</u>
Group Total		495	1,535

road graders, sweepers, rollers and compactors

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Compacting rollers and dozers and parts (including vibratory compactors and sanitary fill compactors)	U.S.A.	81	558
	U.K.	—	23
	W. Germany	36	62
	Others	—	6
		<u>117</u>	<u>649</u>
<i>Excluding tow-type vibratory compactors with vibrational impact of between 30 and 40,000 lbs. and self-propelled fill compactors with a compaction weight of under 65,000 lbs.</i>			

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other road rollers and parts	U.S.A.	275	1,180
	France	21	61
	W. Germany	215	480
		<u>511</u>	<u>1,721</u>
<hr/>			
Other graders, sweepers and parts	U.S.A.	49	121
	U.K.	—	12
		<u>49</u>	<u>133</u>
Group Total		677	2,503

other construction and maintenance machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Bituminous mixing and paving equipment and parts	U.S.A.	94	460
<hr/>			
Railway car dumpers or unloaders and parts	U.S.A.	7	338
	<i>Mainly automatic railway car hopper unloaders.</i>		
<hr/>			
Other railway construction and maintenance of way equipment and parts (excluding maintenance of way cars)	U.S.A.	542	1,209
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Pneumatic hammers, construction type, and parts	U.S.A.	52	118
	Others	22	13
		<u>74</u>	<u>131</u>
<i>Mainly light weight, self-contained, gasoline engine propelled type.</i>			
<hr/>			
Augers and parts	U.S.A.	873	256
	<i>Excluding digger derricks designed for light duty operation.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Rock drills and parts	U.S.A.	3,961	272
	U.K.	123	36
	Japan	105	22
	Others	—	7
		<u>4,189</u>	<u>337</u>
	<i>Excluding hand-held, stoper or feed-leg mounted types.</i>		
<hr/>			
Drilling rigs and equipment and parts	U.S.A.	275	2,784
	Sweden	14	50
	Others	—	3
		<u>289</u>	<u>2,837</u>
	<i>Excluding rigs for diamond core drilling and soil sample drilling.</i>		
<hr/>			
Other specialized construction and maintenance machinery and parts	U.S.A.	735	430
	W. Germany	347	169
	Sweden	97	47
	Others	—	3
		<u>1,179</u>	<u>649</u>
	Group Total	7,247	6,217

conveyors, conveyor systems, and crushing plants

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Bulk conveyors, mechanical, and parts	U.S.A.	—	209
	<i>Most of this equipment now available from Canadian production.</i>		
<hr/>			
Bulk conveyors, pneumatic, and parts	U.S.A.	115	137
	Others	—	7
		<u>115</u>	<u>144</u>
	<i>Mainly certain specialized components — e.g. large size rotary valves, rotary positive blowers, two-stage blowers and filters.</i>		
<hr/>			
Aggregate classifying and washing plants, equipment and parts	U.S.A.	9	175
	<i>Application for equipment and accessories — e.g. treatment of barite ore.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other conveyors and conveyor systems and parts	U.S.A.	1,247	903
	W. Germany	161	21
	Others	—	3
		<u>1,408</u>	<u>927</u>
			<i>Mainly special purpose conveyors—e.g. light duty units designed for construction industry in the handling of building materials such as aggregate, felt paper and other similar roofing materials.</i>
Portable crushing plants and parts	U.S.A.	12	540
			<i>Mainly large capacity portable crushing plants.</i>
	Group Total	1,544	1,995

hoisting machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Elevators, escalators and parts (excluding construction and mining industry types)	U.S.A.	—	9
	Others	—	145
		<u>—</u>	<u>154</u>
			<i>Mainly sophisticated components used in the manufacture of elevators.</i>
Truck-mounted cranes and parts	U.S.A.	—	2,428
	Others	—	16
		<u>—</u>	<u>2,444</u>
			<i>Excluding hydraulic cranes with lifting capacity of less than 50,000 lbs. and lattice boom type with capacities under 70 tons.</i>
Wheel-mounted cranes (self-propelled) and parts	U.S.A.	73	3,051
	Others	15	16
		<u>88</u>	<u>3,067</u>
			<i>Excluding hydraulic type with lifting capacities of less than 15 tons.</i>
Crawler-mounted cranes and parts	U.S.A.	18	885
Tower and climbing cranes and parts	U.S.A.	20	333
	U.K.	6	413
	Sweden	9	19
	Others	3	13
		<u>38</u>	<u>778</u>
			<i>Mainly large capacity units not available from Canadian production in early 1968.</i>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Locomotive-mounted cranes and parts	U.S.A.	—	218
Mobile lifts and parts	U.S.A. <i>Mainly articulated boom type hydraulic loaders with large capacities.</i>	433	135
Gantry type cranes and parts	U.S.A. <i>Mainly full revolving diesel electric mobile cranes.</i>	—	232
Winches, general purpose, and parts	U.S.A. Japan	1,519 330 <u>1,849</u>	279 13 <u>292</u>
			<i>Mainly worm-end gear type designed for use by the automotive and trucking industries.</i>
Other hoisting machinery and parts	U.S.A. Denmark France Others	906 8 1,090 112 <u>2,116</u>	918 19 55 47 <u>1,039</u>
	Group Total	4,542	9,244

industrial trucks, tractors, trailers and stackers

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Lift trucks, industrial, internal combustion engine and parts	U.S.A. Others	24 — <u>24</u>	729 3 <u>732</u>
			<i>Excluding lift trucks with lifting capacity of 25,000 lbs. and under.</i>
Lift trucks, industrial, electrically powered and parts	U.S.A.	16	343
			<i>Mainly large mill duty type trucks designed for use in steel and aluminum industries.</i>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Tractors, industrial, materials handling, and parts	U.S.A.	39	296
	<i>Mainly aircraft towing tractors with auxiliary power units.</i>		
Log and timber skidders and parts	U.S.A.	21	262
	<i>Mainly diesel electric log stackers with very large lifting capacities.</i>		
Other industrial trucks, tractors, trailers, stackers and parts	U.S.A.	37	391
	Others	—	18
		<u>37</u>	<u>409</u>
	Group Total	137	2,042

rubber working and plastic industry machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Tire vulcanizers and retreading machines and parts	U.S.A.	39	293
Other vulcanizers and parts	U.S.A.	—	130
Rubber belt making machinery and equipment and parts	U.S.A.	—	2
	W. Germany	—	190
		<u>—</u>	<u>192</u>
	<i>Mainly reinforced wire rubber belt making machinery.</i>		
Other rubber working machinery and parts	U.S.A.	14,012	1,308
	Others	4	11
		<u>14,016</u>	<u>1,319</u>
	<i>Mainly new tire manufacturing machinery.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Injection moulding machinery (including injection moulds) and parts	U.S.A.	131	3,011
	U.K.	5	47
	Austria	5	57
	Italy	18	144
	W. Germany	14	228
		<u>173</u>	<u>3,487</u>
	<i>Mainly large injection moulding machines in excess of 250-ton clamp capacity.</i>		
<hr/>			
Blow moulding machinery and parts	U.S.A.	4	107
	Austria	9	42
	W. Germany	3	72
	Others	—	39
		<u>16</u>	<u>260</u>
	<i>Mainly machines capable of blowing containers in excess of one gallon.</i>		
<hr/>			
Vacuum forming machinery and parts	U.S.A.	12	159
	Others	—	85
		<u>12</u>	<u>244</u>
<hr/>			
Plastic extruders and parts	U.S.A.	23	98
	W. Germany	5	179
		<u>28</u>	<u>277</u>
	<i>Mainly twin-screw plastic compounders.</i>		
<hr/>			
Presses, moulding and laminating, and parts	U.S.A.	34	434
	Switzerland	2	37
		<u>36</u>	<u>471</u>
	<i>Mainly fully automatic moulding presses.</i>		
<hr/>			
Other plastics industry machinery and equipment and parts	U.S.A.	480	1,679
	U.K.	17	994
	Austria	6	42
	Finland	4	49
	W. Germany	6	314
	Others	7	28
		<u>520</u>	<u>3,106</u>
	<i>Mainly granulators, heating and drying equipment, and rotary expanded polystyrene machines.</i>		
	Group Total	14,840	9,779

mills and mixing machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Mills, grinding and pulverizing and parts	U.S.A.	39	311
	Others	—	14
		<u>39</u>	<u>325</u>
	<i>Excluding ball mills, ink and pigment roller mills, grain and feed mills and rubber mills.</i>		
Mixing machinery and parts, including batch-type mixers	U.S.A.	1,001	346
	W. Germany	201	38
	Others	4	21
		<u>1,206</u>	<u>405</u>
	<i>Excluding propeller mixers, ribbon mixers, banbury mixers, transit concrete mixers, and mix mullers with capacities of 2,000 lbs. or less.</i>		
Group Total		1,245	730

metal rolling mill equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Metal rolling mill equipment and parts	U.S.A.	1,071	1,740
	U.K.	326	589
	W. Germany	—	607
	Others	—	70
		<u>1,397</u>	<u>3,006</u>
Group Total		1,397	3,006

hydraulic turbines and self-contained electric generating sets

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Hydraulic turbines, gas and steam, and parts	U.S.A.	55	364
	U.K.	2	3
	Others	3	109
		<u>60</u>	<u>476</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Self-contained electricity generating sets and parts	U.S.A.	326	652
	Group Total	386	1,128

grain elevator machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Grain treating and processing machinery equipment and parts	U.S.A.	123	187
	Others	—	2
	Group Total	123	189

Section IV METAL WORKING AND HAND POWER TOOL MACHINERY

metal cutting machine tools

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Boring machines, precision (including jig borers) and parts	U.S.A.	—	128
	U.K.	—	28
	Italy	—	36
	Japan	—	76
	W. Germany	—	93
	Switzerland	—	30
	Others	—	7
		—	398

Excluding high production, single and double-ended types.

Boring machines, horizontal and vertical, and parts	U.S.A.	17	250
	U.K.	4	85
	Belgium-Lux.	—	28
	Czechoslovakia	6	77
	East Germany	4	87
	Italy	9	283
	Japan	—	35
	Sweden	4	25
	W. Germany	15	333
	U.S.S.R.	—	40
		59	1,243

Drilling machines, bench, floor and pedestal and parts	U.S.A.	2,294	657
	U.K.	—	13
	Sweden	65	28
	W. Germany	183	53
	Others	26	34
		2,568	785

Mainly of capacity over 2 ins.; high precision sensitive; single head multi-spindle.

Drilling machines, radial, and parts	U.S.A.	13	27
	U.K.	24	157
	East Germany	9	36
	Czechoslovakia	23	85
	Italy	28	57
	Japan	10	34
	Sweden	8	15
	W. Germany	33	95
Others	10	25	
		158	531

Excluding radial drilling machines with radius of up to 30 ins.

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Milling machines, precision, and parts	U.S.A.	36	90
	Switzerland	3	185
	W. Germany	32	854
	Others	—	22
		<u>71</u>	<u>1,151</u>

Mainly die sinkers with table size in excess of 10 ins. by 50 ins.

Milling machines, production, and parts	U.S.A.	49	790
	U.K.	17	28
	Czechoslovakia	4	31
	France	11	186
	Italy	9	106
	Japan	4	32
	Spain	24	29
	Sweden	33	82
	W. Germany	16	97
	<u>167</u>	<u>1,381</u>	

Mainly planer mills; bed-type mills; milling machine sizes 5 and larger; and light production milling machines.

Milling machines, special and parts	U.S.A.	9	351
	Czechoslovakia	—	25
	Switzerland	16	524
	Others	5	24
		<u>30</u>	<u>924</u>

Other boring, drilling and milling machines and parts	U.S.A.	—	123
	U.K.	—	131
	W. Germany	—	24
	Others	—	43
		<u>—</u>	<u>321</u>

Grinding machines, production type and parts	U.S.A.	420	1,850
	U.K.	33	379
	Czechoslovakia	11	74
	Italy	16	69
	Japan	7	75
	Switzerland	25	210
	W. Germany	22	264
	Others	23	124
		<u>557</u>	<u>3,045</u>

Mainly cylindrical and surface grinders 10 ins. by 24 ins. and over.

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Tool and cutter grinders and parts	U.S.A.	332	210
	U.K.	11	28
	Japan	9	21
	W. Germany	50	89
	Others	16	72
			<u>418</u>
Other grinders and grinding machines and parts	U.S.A.	258	261
	Czechoslovakia	12	42
	Denmark	14	34
	Italy	5	52
	Sweden	28	72
	W. Germany	70	247
	Others	21	57
			<u>408</u>
Shapers (excluding gear shapers) and parts	U.K.	31	309
	Others	36	59
		<u>67</u>	<u>368</u>
Planers, slotters and broaching machinery and parts	U.S.A.	35	233
	Others	11	24
		<u>46</u>	<u>257</u>
			<i>Excluding slotters with a capacity of 1¹/₄ ins. by 8 ins.</i>
Threading machinery, including thread rolling machines, and parts	U.S.A.	824	389
	Others	8	18
		<u>832</u>	<u>407</u>
Tapping machinery and parts	U.S.A.	210	71
	Others	—	2
		<u>210</u>	<u>73</u>
		<i>Excluding self-contained tapping units.</i>	
Cut-off machinery and parts	U.S.A.	118	136
	W. Germany	91	29
	Others	14	4
		<u>223</u>	<u>169</u>
		<i>Excluding abrasive cut-off machines with wheel diameters in excess of 22 ins.</i>	

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Sawing machinery, band-saw type, and parts	U.S.A.	1,355	331
	W. Germany	115	75
	Others	17	12
		<u>1,487</u>	<u>418</u>
<i>Mainly horizontal band-saws with capacity in excess of 6 ins. by 12 ins. Mainly vertical band-saws equipped for friction sawing.</i>			
Sawing machinery, circular blade type, and parts	U.S.A.	91	50
	U.K.	13	85
	W. Germany	8	40
	Others	—	5
		<u>112</u>	<u>180</u>
Other sawing and filing machinery and parts	U.S.A.	999	292
	W. Germany	48	68
	Others	30	16
		<u>1,077</u>	<u>376</u>
Lathes, engine and parts	U.S.A.	20	267
	U.K.	3	127
	Bulgaria	8	21
	Czechoslovakia	—	106
	Italy	9	51
	Japan	20	124
	Sweden	3	18
	W. Germany	27	169
	Others	12	60
		<u>102</u>	<u>943</u>
<i>Mainly in excess of 21 ins. swing and 10 h.p., or high precision lathes.</i>			
Lathes, turret and parts	U.S.A.	43	1,053
	U.K.	50	393
	Japan	19	215
	Others	22	86
		<u>134</u>	<u>1,747</u>
Lathes, special, and parts	U.S.A.	381	419
	U.K.	17	225
	Switzerland	19	28
	W. Germany	14	245
	Others	14	58
		<u>445</u>	<u>975</u>
<i>Excluding railroad wheelset turning and burnishing lathes and metal spinning lathes up to 26 ins.</i>			

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Lathes, automatic and parts	U.S.A.	62	1,363
	U.K.	23	602
	W. Germany	4	122
	Others	8	40
		<u>97</u>	<u>2,127</u>
Automatic screw machines and parts	U.S.A.	17	321
	U.K.	11	311
	Czechoslovakia	5	39
	W. Germany	12	45
	Others	3	9
		<u>48</u>	<u>725</u>
Other lathes and parts	U.S.A.	80	131
	U.K.	93	67
	Italy	8	57
	Japan	18	60
	Switzerland	6	30
	W. Germany	53	403
	Others	14	30
		<u>272</u>	<u>778</u>
Gear cutting and finishing machines and parts	U.S.A.	—	363
	W. Germany	—	101
	Others	—	24
		<u>—</u>	<u>488</u>
Assembly machines and parts	U.S.A. <i>Mainly custom-built machinery.</i>	22	886
Numerically controlled machining centres and parts	U.S.A.	17	3,811
	Italy	—	406
		<u>17</u>	<u>4,217</u>
Numerically controlled boring machines and parts	U.S.A.	13	808
	France	—	152
	Italy	—	90
		<u>13</u>	<u>1,050</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Numerically controlled drilling machines and parts	U.S.A.	4	337
	Japan	—	22
		<u>4</u>	<u>359</u>
<hr/>			
Numerically controlled milling machines and parts	U.S.A.	16	3,026
	<i>Excluding numerically controlled ram-type turret milling machines.</i>		
<hr/>			
Other numerically controlled machine tools and metal cutting machinery and parts	U.S.A.	—	152
	France	—	350
		<u>—</u>	<u>502</u>
<hr/>			
Other metal cutting machine tools and metal cutting machinery and parts	U.S.A.	1,109	328
	W. Germany	3,661	84
	Others	7	13
		<u>4,777</u>	<u>425</u>
Group Total		14,437	31,460

metal forming machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Presses, hydraulic, extrusion moulding and powdered metallurgy and parts	U.S.A.	8	281
	W. Germany	—	8
		<u>8</u>	<u>289</u>
<i>Mainly extrusion and powdered metal presses.</i>			
<hr/>			
Other presses, metal working, hydraulic and pneumatic and parts	U.S.A.	41	230
	<i>Mainly special small type presses.</i>		
<hr/>			
Presses, horizontal, including extruders and cold headers and parts	U.S.A.	18	295
	U.K.	3	1,030
		<u>21</u>	<u>1,325</u>
<i>Mainly cold header presses.</i>			

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Numerically controlled turret punch presses and parts	U.S.A.	3	181
	W. Germany	—	91
		<u>3</u>	<u>272</u>
Other presses, powered, and parts	U.S.A.	453	449
	U.K.	—	26
	Switzerland	—	30
	W. Germany	5	52
	Others	4	39
		<u>462</u>	<u>596</u>
<i>Mainly special auxiliary equipment.</i>			
Plate, sheet, bar rod and angle shears and parts	U.S.A.	49	61
	U.K.	21	17
	Italy	15	43
	W. Germany	54	79
	Others	2	5
		<u>141</u>	<u>205</u>
<i>Mainly universal iron workers and alligator shears.</i>			
Punching machinery and parts	U.S.A.	315	264
	Italy	13	51
	Sweden	9	10
	W. Germany	49	171
	Others	2	8
		<u>388</u>	<u>504</u>
<i>Excluding punch presses.</i>			
Other punching, shearing and slitting machinery and parts	U.S.A.	115	206
	Others	7	7
		<u>122</u>	<u>213</u>
<i>Mainly special auxiliary equipment.</i>			
Sheet metal forming, folding, seaming machinery and parts	U.S.A.	165	144
	<i>Small sheet metal equipment.</i>		
Plate rolls	W. Germany	—	301
	Others	—	28
		<u>—</u>	<u>329</u>
<i>In excess of 10 ft. by 1/4 in. thick.</i>			

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Rolls and benders, bars, shapes, tubes and pipes	U.S.A.	723	144
	Others	4	9
		<u>727</u>	<u>153</u>
<hr/>			
Other bending, forging, forming machinery and parts (including press brakes)	U.S.A.	243	585
	W. Germany	6	23
	Others	6	19
		<u>255</u>	<u>627</u>
<i>Mainly forging presses.</i>			
<hr/>			
Drawing machines and draw benches and parts	U.S.A.	27	603
	U.K.	3	137
	W. Germany	3	110
	Others	—	11
		<u>33</u>	<u>861</u>
<i>Drawing machinery now available from Canadian production.</i>			
<hr/>			
Wire cable making machinery and parts	U.S.A.	85	275
	W. Germany	6	131
	France	2	60
	Others	2	22
		<u>95</u>	<u>488</u>
<i>Cabling and stranding machinery now available from Canadian production.</i>			
<hr/>			
Spring making machinery and parts	U.S.A.	23	162
	U.K.	—	37
		<u>23</u>	<u>199</u>
<hr/>			
Wire fabric-making machinery (including wire weaving machines) and parts	U.S.A.	39	96
	W. Germany	9	171
	Others	—	5
		<u>48</u>	<u>272</u>
<hr/>			
Other wire and ribbon forming machinery and parts	U.S.A.	160	363
	W. Germany	9	85
	Others	—	19
		<u>169</u>	<u>467</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Other die casting machinery and equipment and parts	U.S.A.	19	401
	U.K.	—	17
	Others	—	4
		<u>19</u>	<u>422</u>
<i>Machinery and equipment in excess of 8 ozs. capacity mainly for aluminum.</i>			
<hr/>			
Welding equipment and parts	U.S.A.	7	73
	U.K.	—	1
		<u>7</u>	<u>74</u>
<i>This equipment now available from Canadian production.</i>			
<hr/>			
Other metal forming machinery and equipment and parts	U.S.A.	61	307
	W. Germany	6	42
	Others	—	1
		<u>67</u>	<u>350</u>
Group Total		2,794	8,020

cutting and forming tools for metal working machinery

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Taps, threading chasers and threading dies	U.S.A.	24,761	291
<hr/>			
Saw blades, knives and shear blades	U.S.A.	21,195	158
	W. Germany	331	21
	Others	—	1
		<u>21,526</u>	<u>180</u>
<hr/>			
Dies—punching, forming, drawing	U.S.A.	50,294	129
	U.K.	67	8
	W. Germany	134	7
		<u>50,495</u>	<u>144</u>

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Cutting and forming tools, metallic carbide, high speed and other tool steel, and parts	U.S.A.	39,940	194
	U.K.	2,091	42
	Others	1,176	20
		<u>43,207</u>	<u>256</u>
<i>Mainly gun drills, gun reamers, spade drills and micrometer adjustable boring tools.</i>			
Other cutting and forming tools and parts	U.S.A.	120,585	463
	W. Germany	370	36
	Others	6,996	1
		<u>127,951</u>	<u>500</u>
Group Total		267,940	1,371

power operated hand tools, pneumatic or electric

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Power operated hand drills and parts	U.S.A.	27,700	794
	U.K.	—	297
	Japan	862	52
	Sweden	112	7
	W. Germany	741	69
		<u>29,415</u>	<u>1,219</u>
<i>Mainly pneumatic machines.</i>			
Power operated hand hammers and parts	U.S.A.	2,850	351
	U.K.	18	1
	Japan	133	10
	Sweden	54	2
		<u>3,055</u>	<u>364</u>
<i>Mainly pneumatic machines.</i>			
Power operated hand grinders and parts	U.S.A.	1,594	158
	U.K.	139	7
	Japan	364	19
	Sweden	50	3
	W. Germany	1,344	97
		<u>3,491</u>	<u>284</u>
<i>Mainly pneumatic machines.</i>			
Power operated hand nut setters and parts	U.S.A.	9,627	1,318
	U.K.	—	190
	Japan	1,006	73
	Sweden	53	21
	W. Germany	43	8
		<u>10,729</u>	<u>1,610</u>
<i>Mainly pneumatic machines.</i>			

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Power operated hand riveters and parts	U.S.A.	500	38
	Sweden	—	7
	W. Germany	<u>1,302</u>	<u>62</u>
		1,802	107
	<i>Mainly pneumatic machines.</i>		
<hr/>			
Power operated hand routers and parts	U.S.A.	1,417	90
	<i>These machines available from Canadian production as of October 1, 1968.</i>		
<hr/>			
Power operated hand sanders and polishers and parts	U.S.A.	3,133	227
	U.K.	92	3
	Japan	<u>50</u>	<u>2</u>
		3,275	232
	<i>Mainly disc sanders and polishers, and belt sanders in excess of 3 ins.</i>		
<hr/>			
Power operated hand saws and parts	U.S.A.	12,366	224
	W. Germany	<u>115</u>	<u>7</u>
		12,481	231
	<i>Mainly pneumatic machines.</i>		
<hr/>			
Power tool attachments	U.S.A.	82,576	737
	U.K.	5,949	45
	Japan	2,060	6
	Netherlands	18	3
	W. Germany	<u>76</u>	<u>18</u>
		90,679	809
	<i>Mainly paint stirrers, angle heads, chucks etc.</i>		
<hr/>			
Other power operated hand tools and parts	U.S.A.	1,422	152
	W. Germany	<u>1,075</u>	<u>45</u>
		2,497	197
	<i>Mainly pneumatic machines.</i>		
	Group Total	158,841	5,143

SECTION V INDUSTRIAL CONTROL EQUIPMENT

industrial control equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Numerical control equipment and read-out accessories and parts	U.S.A.	244	670
	<i>Two and/or three axis n.c. equipment available from Canadian production since June or July, 1969.</i>		
Humidity or moisture detecting, indicating, recording, controlling or transmitting devices and parts	U.S.A.	54,284	112
Other process control equipment and parts	U.S.A. U.K.	520 56 <hr/> 576	188 19 <hr/> 207
	<i>Excluding paper mill control, steel mill control, refinery control equipment and certain other special purpose automation systems.</i>		
Core storage static computer memories and parts	U.S.A.	82	3,774
Drum computer memory units and parts	U.S.A.	6	202
	<i>System components.</i>		
Disc computer memory units and parts	U.S.A.	7,354	1,098
Disc memory drives and control units for disc and drum memories and parts	U.S.A.	19	107
Other random access mass magnetic computer memories and parts	U.S.A.	9	196
Digital magnetic tape equipment and parts	U.S.A.	192	597
	<i>Excluding magnetic tape cleaners.</i>		

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
On-line readers, accessories and parts	U.S.A. <i>Excluding paper tape readers.</i>	239	1,079
On-line optical scanning readers and parts	U.S.A.	18	616
Other on-line computer read-in equipment and parts	U.S.A.	10	29
On-line card punch equipment and parts	U.S.A.	65	353
On-line computer printers and print-out equipment and parts	U.S.A.	30	160
Other on-line computer read-out equipment and parts	U.S.A. Others	35 <u>4</u> 39	355 <u>3</u> 358
Card read/punch equipment and parts, excluding on-line computer types	U.S.A.	127	479
Other combination read-in/read-out equipment and parts, excluding on-line computer types	U.S.A.	122	702
Paper tape preparation equipment and parts, other than typewriters	U.S.A. Sweden	73 <u>12</u> 85	104 <u>7</u> 111
Card preparation equipment and parts	U.S.A. U.K.	3,155 <u>267</u> 3,422	2,505 <u>631</u> 3,136
Card sorters and printers and parts	U.S.A.	12,466	611

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Data transmission equipment and parts	U.S.A.	35	124
Typewriters/flexowriters, automatic and special purpose for paper tape or punch card, and parts	U.S.A. Netherlands	260 <u>125</u> 385	616 <u>203</u> 819
Code and character recognition equipment and devices and parts	U.S.A. <i>Excluding optical paper tape readers.</i>	14	346
Other proof and encoding equipment and parts	U.S.A.	132	817
Automatic filing systems and parts	U.S.A.	196	201
Full voltage manual starters, AC single phase and DC fractional horsepower, 1 h.p. max., 250 v. max., and parts	U.S.A. <i>Special custom units</i>	5	246
Other industrial control equipment and parts	U.S.A. U.K. Italy	863 10 <u>7</u> 880	682 89 <u>14</u> 785
	<i>Mainly special purposes custom designed equipment.</i>		
	Group Total	81,036	17,935

electrical motors, generators and power conditioning equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Electrical motors and generators and parts	U.S.A.	3	19
	U.K.	5	89
		<u>8</u>	<u>108</u>
<hr/>			
Power conditioning equipment and parts, including disconnect switches and parts	U.S.A.	68	988
	<i>Excluding motor generator sets, s.c.r. controls, battery chargers, rectifiers, transformers and auto transformers.</i>		
	Group Total	76	1,096

special purpose electrical/electronic machinery and equipment

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Radio frequency production machinery and parts	U.S.A.	11	106
<hr/>			
Electrical component winding and forming machinery and parts	U.S.A.	24	79
	Japan	—	12
		<u>24</u>	<u>91</u>
<hr/>			
Other special purpose electrical/electronic machinery and equipment and parts	U.S.A.	4,986	415
	U.K.	—	15
	W. Germany	—	11
		<u>4,986</u>	<u>441</u>
<i>Mainly production equipment for solid state/integrated circuits.</i>			
	Group Total	5,021	638

electrical appliances

DESCRIPTION	COUNTRY OF ORIGIN	QUANTITY	VALUE (\$,000)
Garbage disposal units and parts	U.S.A.	13,789	433
<hr/>			
Food grinders and parts	U.S.A.	9,738	159
	W. Germany	<u>5,329</u>	<u>15</u>
		15,067	174
	<i>Mainly hamburger type units.</i>		
<hr/>			
Juice extractors, centrifugal, and parts	U.S.A.	454	13
	Japan	5,000	85
	W. Germany	<u>1,000</u>	<u>15</u>
		6,454	113
<hr/>			
Other electrical appliances and parts	U.S.A.	22,088	303
	Japan	28,456	37
	Sweden	300	1
	Switzerland	30,180	35
	W. Germany	<u>1,700</u>	<u>30</u>
		82,724	406
	Group Total	118,034	1,126



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