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BOARD OF TRADE

THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 50
MISCELLANEOUS (NON-ELECTRICAL) MACHINERY

*Presented by the Board of Trade to Parliament in pursuance of the
Statistics of Trade Act, 1947 (10 & 11 Geo.6 Ch.39, Sec.7)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

1961

FOUR SHILLINGS NET

NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954 and 1958 figures.

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons.

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years the census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to merchanting or factoring, canteens operated by them, and other ancillary activities, such as bottling, packing, and the manufacture of containers for packing their own products, whether or not these activities were carried on at the same address as the works, unless

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchant goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958, but because of the changes described above the correspondence is not always exact.

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in Table 1.

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

EMPLOYMENT

(i) Working proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving fixed wages or salaries; but persons working less than half the normal hours are excluded.

(ii) Employees

Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses and, for 1958, canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included, but outworkers (i.e. persons employed by the firm who worked on materials

supplied by the firm in their own homes, etc.) are excluded.

(iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

ENTERPRISE

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

ENTRIES

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing

materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own work-people included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchanting or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are therefore excluded. Materials purchased overseas were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses, and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output.

Net output was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchanting and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

SALES

Sales include goods made by the business covered by the return, those made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission), and waste products sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchanted or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production.

The value shown for sales is the net selling

SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas, are included at the f.o.b. value. For work done on commission or for the trade, the value shown is the net amount charged. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchanting or factoring. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to subcontractors, and no deduction is made on account of progress payments received.

TRANSPORT PAYMENTS

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

WAGES AND SALARIES

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

WORK GIVEN OUT

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

ROUNDING OF FIGURES

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

The Report on the Census of Production for 1958

Part 50 MISCELLANEOUS (NON-ELECTRICAL) MACHINERY

This report on the Miscellaneous (Non-electrical) Machinery Industry relates to establishments engaged in the manufacture of boring and cutting machinery, underground conveyors, screening, washing and other machinery for mines; type-setting and composing room equipment, printing presses, ruling machines, bookbinding machinery (including book-binders' sewing machines), cardboard box, paper bag, envelope and paper goods making machinery; refrigerating machinery and all types of refrigerators (including domestic); equipment for space heating, ventilating and air-conditioning systems and dust extraction systems, including heater batteries, unit heaters, ventilators, hoods, cowls, ducting, etc., self-contained air-conditioning machines (but not thermostats and similar measuring and controlling apparatus nor establishments specialising in the installation of air-conditioning etc. equipment which are excluded as indicated below); pumps, industrial valves, air and gas compressors and exhausters, pneumatic control equipment and hydraulic accumulators and rams; scales, spring balances, weighing machinery, etc.; portable power tools of the hand held type (including flexible shaft drive tools) and of the type employed in civil engineering, mining and quarrying, boot and shoe machinery, bottling and packaging machinery, food and drink machinery, tobacco machinery, brick making machinery, paper and pulpmaking machinery, rubber and plastic working machinery, sewing machines (including domestic), rolling mills, wood-working machinery, fire extinguishing apparatus and other complete machines not reported on elsewhere. The industry corresponds to minimum list heading 339 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

Most of the machinery included in this report was reported on in Industry 4I (Mechanical Engineering (General)) in the reports on the last detailed Census of Production, for 1954; printing and book-binding machinery, formerly the subject of a separate industry report, 4H, and electrical portable power tools, formerly reported on in Industry 5A (Tool and Implement) are now included in this industry.

Thermostats and similar measuring and control apparatus for heating equipment form part of minimum list heading 351 and are included in the report on Scientific, Surgical and Photographic Instruments, etc. (Part 54).

For 1958, returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an important change from previous censuses when returns in full detail were required from firms employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

TREATMENT OF PARTS

In the 1958 Census reports for this and other mechanical engineering industries, a distinction is made between parts sold in association with the sale of complete machines, and other parts sold. The only parts shown in Table 4 are those included on returns (whether classified to this or to other industries) which also showed sales of miscellaneous (non-electrical) machinery; where a return was classified to another industry, these parts are also shown, together with the complete plant, in Table 5.

Parts of miscellaneous (non-electrical) machinery included on returns which showed no sales of the complete machines are treated as principal products of General Mechanical Engineering (Part 53) whether made by engineering firms or by specialist manufacturers of other types of machinery.

Sales of all parts of miscellaneous (non-electrical) machinery (i.e. whether or not sold in association with the sale of complete machines) are brought together in Table 9 at the end of this report.

METHOD OF CLASSIFICATION

This industry is defined in terms of its 'principal products' which are those shown in Table 4. A census return was classified to this industry if the sales of the principal products of this industry (excluding parts, etc. as mentioned below) accounted for a greater proportion of its output than the principal products of any other industry (with corresponding exclusions). Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. The rule was also modified in the case of returns with amounts totalling 50 per cent. or more at structural work headings, which include the value of materials supplied, or 80 per cent. or more at headings for installation work on, or sales of, air-conditioning, heating and ventilating plant (or a proportionate combination of these two groups of headings); these returns were classified to the Construction Industry (Part 128).

Sales of machinery parts, work done (other than structural and installation work), including repair work, were not taken into account in classifying returns except in cases where they exceeded 80 per cent. of the total output of the return (in which case the return was classified to the General Mechanical Engineering Industry (Part 53)) or where the return would otherwise have been classified outside the mechanical engineering group of industries.

In cases where the application of these rules would have resulted in the classification of a return to one of the mechanical engineering industries relating to a specific class of machinery (viz., Parts 42, 43, 45, 46, 47, 48, 49 and 51) and the sales of the principal products of the industry concerned accounted for less than 20 per cent. of the total sales and work done, the return was classified to this industry. Sales of merchantable products and of non-specific items such as waste products and canteen takings were not taken into account in classifying returns.

A procedure similar to that described above for classifying to the industry was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their 'characteristic products'. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. The total value of sales of characteristic products shown in Table 2 includes, besides the sales of complete machines, which were taken into account in determining the classification of the return, sales of parts of miscellaneous non-electrical machinery and the value of installation work reported on returns classified to the sub-division; but these items were not taken into account in determining the classification to sub-divisions.

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Industry summary: United Kingdom

TABLE 1 Estimates for all firms (a)

	Unit	1954	1958	
Number of enterprises	No.	..	1,752	
Number of establishments	"	..	2,083	
Sales	{ goods produced and work done	£'000	386,934	528,671
	{ merchantable goods and canteen takings	"	..	28,541
Purchases of materials and fuel (b)	"	161,739	251,085	
Products on hand for sale (b)	{ change during year	"	- 2,107	+ 3,967
	{ at end of year	"	28,120	39,627
Work in progress	{ change during year	"	+ 19	+ 1,130
	{ at end of year	"	61,082	95,405
Stocks of materials and fuel (b)	{ change during year	"	- 210	- 1,309
	{ at end of year	"	42,046	56,721
Payments for work done on materials given out	"	10,402	18,023	
Payments for transport	"	4,587	5,921	
Net output	"	207,908	285,971	
Average number employed (c)	{ operatives	Th.	175.8	186.4
	{ other employees	"	61.3	73.1
	{ total, including working proprietors	"	237.4	259.9
Wages and salaries	{ of operatives	£'000	81,047	108,615
	{ of other employees	"	35,977	54,870
Capital expenditure (d)				
New building work	"	3,419	5,147	
Plant and machinery	{ acquisitions	"	8,694	12,154
	{ disposals	"	342	566
Vehicles	{ acquisitions	"	1,310	2,443
	{ disposals	"	381	813

(a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 4 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.

(b) Goods for merchanting and canteen supplies are included for 1958 but excluded for 1954.

(c) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but excluded for 1954.

(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions
Firms employing 25 or more

TABLE 2

	Unit	Sub-divisions of the industry (b)			
		Mining machinery		Printing and bookbinding machinery	
		10	20	10	20
		1954	1958	1954	1958
Number of enterprises (c)	No.	38	48	81	71
Number of establishments	"	46	56	100	86
Sales	£'000	30,285	48,907	21,040	23,759
		goods produced and work done			
		merchanted goods and canteen takings	2,589	..	1,017
Sales of characteristic products	"	16,615	24,521	14,819	15,203
		complete machines			
		parts and installation work	17,212	3,759	4,376
Purchases of materials and fuel (d)	"	15,375	26,709	5,356	8,599
Products on hand for sale (d)	"	+ 579	+ 558	- 170	+ 595
		change during year			
		at end of year	3,508	2,893	3,567
Work in progress	"	- 231	+ 326	+ 17	+ 19
		change during year			
		at end of year	7,713	3,555	5,143
Stocks of materials and fuel (d)	"	- 378	- 736	- 148	+ 45
		change during year			
		at end of year	4,632	1,640	1,658
Payments for work done on materials given out	"	1,100	3,838	940	330
Payments for transport	"	351	601	145	175
Net output	"	13,429	20,497	14,298	16,331
Average number employed (e)	No.	10,124	12,466	12,209	11,498
		operatives			
		other employees	4,615	4,199	4,278
		total, including working proprietors	17,082	16,408	15,778
Net output per person employed	£	990	1,200	871	1,035
Wages and salaries	£'000	4,879	7,597	5,498	6,416
		of operatives			
		of other employees	3,675	2,711	3,292
Wages and salaries per head	£	482	609	450	558
		operatives			
		other employees	796	646	770
Capital expenditure (f)					
New building work	£'000	261	785	55	314
Plant and machinery	"	615	1,120	466	546
		acquisitions			
		disposals	42	29	32
Vehicles	"	88	155	67	106
		acquisitions			
		disposals	47	17	37

of the industry
persons: United Kingdom (a)

	Unit	Sub-divisions of the industry (b)							
		Refrigerating machinery		Space-heating, ventilating, and air-conditioning equipment		Pumps and pumping machinery		Industrial valves and cocks	
		30	40	51	52	30	40	51	52
		1954	1958	1954	1958	1954	1958	1954	1958
		24	25	125	121	65	69	77	81
		35	37	148	136	74	81	92	99
		33,732	49,781	24,032	34,759	37,005	49,314	34,856	51,928
		..	674	..	1,833	..	3,925	..	1,672
		26,171	43,214	17,130	25,577	21,456	26,823	26,337	38,475
		3,594	985	1,534	4,789	5,348	10	76	
		18,460	27,109	10,020	16,467	16,811	26,522	13,299	22,000
		+ 107	+ 631	+ 13	+ 4	+ 61	+ 41	- 105	+ 555
		2,880	3,889	261	641	1,869	2,499	2,622	4,641
		+ 395	+ 440	+ 147	+ 357	- 671	+ 187	+ 35	- 176
		5,188	6,842	4,050	5,163	6,946	10,135	4,615	7,391
		+ 372	+ 329	+ 59	- 56	- 26	+ 73	+ 120	+ 68
		4,196	5,120	2,363	3,366	3,238	5,078	4,620	7,070
		934	1,202	452	615	846	1,142	799	784
		493	617	303	455	356	546	489	649
		14,720	22,928	13,475	19,360	18,355	25,331	20,319	30,613
		11,007	11,267	11,478	12,276	13,774	14,764	17,873	21,090
		4,828	4,939	4,764	5,866	5,994	7,407	4,936	7,267
		15,835	16,206	16,259	18,156	19,770	22,172	22,817	28,361
		930	1,415	829	1,066	928	1,142	891	1,079
		5,752	7,770	5,340	7,643	6,384	8,832	8,075	12,157
		2,625	3,537	2,678	4,307	3,355	5,503	2,792	5,193
		523	690	465	623	464	598	452	576
		544	716	562	734	560	743	566	715
		155	319	226	221	195	320	207	450
		459	930	325	401	702	1,051	1,078	1,526
		23	23	9	8	31	45	40	39
		81	208	114	238	106	168	95	228
		16	63	28	84	24	61	48	67

Continued on next page

TABLE 2 (contd.)

	Unit	Sub-divisions of the industry (b)				
		Compressors, etc.		Scales and weighing machinery		
		53		60		
		1954	1958	1954	1958	
Number of enterprises (c)	No.	42	47	17	15	
Number of establishments	"	49	63	45	44	
Sales	{ goods produced and work done	£'000	18,978	29,703	7,781	7,582
	{ merchanted goods and canteen takings	"	..	1,685	..	265
Sales of characteristic products	{ complete machines	"	10,588	14,402	5,641	5,039
	{ parts and installation work	"	1,661	3,727	228	361
Purchases of materials and fuel (d)	"	8,642	15,172	2,452	2,736	
Products on hand for sale (d)	{ change during year	"	- 185	+ 97	- 115	+ 20
	{ at end of year	"	2,103	3,886	272	504
Work in progress	{ change during year	"	+ 181	- 96	- 29	- 81
	{ at end of year	"	2,281	4,446	794	1,020
Stocks of materials and fuel (d)	{ change during year	"	+ 23	+ 67	+ 60	- 76
	{ at end of year	"	1,886	3,308	965	1,165
Payments for work done on materials given out	"	382	438	98	121	
Payments for transport	"	166	389	133	122	
Net output	"	9,806	15,457	5,014	4,731	
Average number employed (e)	{ operatives	No.	7,232	9,230	4,273	4,135
	{ other employees	"	3,079	4,540	1,325	1,401
	{ total, including working proprietors	"	10,311	13,770	5,600	5,536
Net output per person employed	£	951	1,123	895	855	
Wages and salaries	{ of operatives	£'000	3,451	5,524	1,936	1,998
	{ of other employees	"	1,746	3,236	833	866
Wages and salaries per head	{ operatives	£	477	598	453	483
	{ other employees	"	567	713	628	618
Capital expenditure (f)						
New building work	£'000	275	368	148	36	
Plant and machinery	{ acquisitions	"	637	811	195	152
	{ disposals	"	22	27	11	7
Vehicles	{ acquisitions	"	85	196	17	40
	{ disposals	"	20	59	8	10

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

	1958
Number of returns	731
Average number of persons employed including working proprietors	
Males	7,031
Females	1,036

	Sub-divisions of the industry (b)						Total	
	Portable power tools		Pulp and paper-making machinery		Other			
	70	81	82	70	81	82	1954	1958
	1954	1958	1954	1958	1954	1958	1954	1958
	22	14	11	16	456	403	951	891
	34	34	14	19	646	557	1,283	1,212
	10,797	9,890	6,431	16,057	145,156	183,983	370,092	505,661
	..	399	..	522	..	12,715	..	27,298
	5,783	5,906	3,137	8,190	89,298	117,250		
	2,182	1,466	2,357	6,211	17,997	22,377		
	4,172	4,363	3,129	7,494	56,984	82,985	154,700	240,157
	- 179	- 52	+ 12	- 7	- 2,033	+ 1,353	- 2,015	+ 3,794
	1,630	1,445	34	106	9,793	13,215	26,896	37,902
	+ 41	- 203	- 297	- 177	+ 431	+ 485	+ 19	+ 1,080
	482	366	2,008	5,505	25,151	37,529	58,424	91,253
	- 45	+ 115	- 33	- 89	- 205	- 991	- 201	- 1,252
	1,044	1,164	419	1,268	16,755	20,424	40,216	54,253
	107	86	112	2,027	4,177	6,654	9,949	17,238
	111	119	55	109	1,785	1,882	4,387	5,663
	6,224	5,581	2,816	6,674	80,404	106,023	198,859	273,524
	3,922	2,784	2,034	3,582	74,411	75,432	168,337	178,524
	1,553	1,383	896	1,741	23,660	26,598	58,672	70,035
	5,475	4,167	2,933	5,323	98,099	102,056	227,070	248,607
	1,137	1,339	960	1,254	820	1,039	876	1,100
	1,687	1,580	898	2,188	33,720	42,318	77,620	104,023
	935	1,208	494	1,302	14,109	20,432	34,456	52,550
	430	567	441	611	453	561	461	583
	602	873	551	748	596	768	587	750
	61	107	160	226	1,318	1,714	3,062	4,861
	183	207	152	345	3,478	4,532	8,290	11,621
	11	4	1	3	133	312	327	541
	31	40	7	23	559	935	1,251	2,337
	8	6	2	6	173	337	364	778

(b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report; the characteristic products of each sub-division are identified in Table 4.

(c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.

(d) Goods for merchandising and canteen supplies are included for 1958 but excluded for 1954.

(e) Persons engaged in merchandising or factoring and canteen workers are included for 1958 but excluded for 1954.

(f) Excluding expenditure at establishments not yet in production.

Analysis by size of enterprise within the industry, 1958

TABLE 3 Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in this industry (a)	Enterprises	Establishments	Total sales (b)	Net output	Employees		Wages and salaries		Capital expenditure (c)	Net output per person employed (a)
					Operatives	Others	Operatives	Others		
	Number	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
25 - 49	236	241	17,709	8,968	6,693	2,009	3,837	1,619	499	1,028
50 - 99	209	235	28,779	14,877	11,191	3,656	6,230	2,851	900	1,001
100 - 199	195	249	56,875	28,716	20,237	7,179	11,542	5,665	1,970	1,047
200 - 299	78	111	38,317	19,867	13,340	5,821	7,750	4,680	1,027	1,037
300 - 399	48	73	36,652	18,558	11,496	5,314	6,971	3,907	930	1,104
400 - 499	16	24	15,448	8,443	5,028	2,052	3,115	1,465	415	1,192
500 - 749	38	72	59,466	27,013	16,345	7,346	9,782	5,608	2,051	1,140
750 - 999	12	25	20,703	10,491	7,097	3,142	4,122	2,187	764	1,025
1,000 - 1,499	28	80	82,309	40,168	25,023	10,061	14,554	7,474	2,587	1,145
1,500 - 1,999	13	39	48,252	26,747	16,113	6,881	9,172	5,020	2,700	1,163
2,000 - 2,499	10	22	57,914	29,204	15,282	6,802	9,509	4,739	2,231	1,322
2,500 - 3,999	4	25	24,241	13,132	9,269	3,154	5,248	2,463	879	1,057
4,000 and over	4	16	46,293	27,339	21,410	6,618	12,192	4,872	1,864	975
Total	891	1,212	532,960	273,524	178,524	70,035	104,023	52,550	18,819	1,100

(a) Including working proprietors.

(b) Value of sales of goods (including merchanted goods), work done, and canteen takings.

(c) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

TABLE 4 Firms employing 25 or more persons: United Kingdom

Industry sub-division (a)	1954		1958		Enterprises	Entries
	Quantity	Value	Quantity	Value		
	Number	£'000	Number	£'000	Number	Number
10	MINING MACHINERY, NEW, other than portable power tools					
	COMPLETE MACHINES					
	Coal cutters, power operated	1,038	1,886	3,324	2,237	13 13
	Conveyors, underground	3,510	4,991	8,967	7,710	18 18
	Power loaders, including cutter loaders	282	484	785	3,568	12 12
	Winding machinery	..	1,045	..	3,141	19 20
	Hauling engines (stationary)	254	431	580	835	13 13
	Coal preparation plant	..	5,199	..	4,146	35 35
	Other	..	4,013	..	7,473	66 66
	Unclassified	..	486	-	-	- -
	Total mining machinery		19,469		29,110	.. ..
20	PRINTING AND BOOKBINDING MACHINERY					
	COMPLETE MACHINES, NEW					
	Typesetting (including keyboard and typesetting)	1,288	2,241	1,255	2,896	5 5
	Stereotyping and electrotyping	659	353	..	404	6 7
	Photo-engraving	600	216	..	345	7 8
	Printing					
	Newspaper rotary	25	1,797	37	2,562	.. ..
	Other reel-fed machines	232	1,124	270	1,640	14 14
	Sheet-fed machines					
	Letterpress	3,817	2,314	672	1,363	12 13
	Litho and litho-offset, weighing 2,000 lb. or more (b)	454	2,117	196	1,317	5 5
	Other	595	581	..	528	9 10
	Other new printing machinery	..	1,556	..	1,112	26 28
	Bookbinding, including blocking, embossing, stitching, ruling and cutting, folding, etc.	..	660	1,349	395	21 21
				..	61	

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
20	PRINTING AND BOOKBINDING MACHINERY (contd.)					
	COMPLETE MACHINES, NEW (contd.)					
	Paper-working, etc. machines					
	141	452	114	519	7	7
	..	178				
	1,551	1,152	1,237	1,475	17	17
	527	392	481	458	14	15
	2,165	900	2,270	630	27	27
	..	53	..	177		
	..	216	..	224	22	23
	..	484	..	909	16	16
	Total printing and bookbinding machinery		17,138	17,014	..	..
30	REFRIGERATING MACHINERY					
	COMPLETE MACHINES					
	Complete self-contained refrigerators					
	Mechanically operated					
	Domestic type					
			320,691	12,685	9	9
	Commercial types					
	Ice cream conservators					
			43,645	2,748	13	13
	Service cabinets, reach in type					
			10,206	1,246	14	14
	Food display cabinets and counters					
			19,381	2,401	14	14
	Beverage cooling cabinets					
			5,797	368	9	9
	Other					
	675,130	23,085	3,350	465	14	14
	..	4,810 (c)	..	64		
	Heat operated					
	..	..	197,838	6,649	5	5
	Complete condensing units, excluding heat operated					
	Sealed mechanical					
			88,721	2,435	9	10
	Other mechanical, prime mover not exceeding 10 h.p. capacity					
			17,811	1,780	6	6
	Machinery for mechanical operation, prime mover exceeding 10 h.p. capacity					
			..	3,217	8	8
	Other refrigerating machinery, including heat operated condensing units					
			..	5,990	29	29
	Complete machines and parts not separately distinguished					
			..	3,386	14	14
	Total refrigerating machinery		27,894	43,432	..	..

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
40	SPACE-HEATING, VENTILATING AND AIR-CONDITIONING EQUIPMENT					
	COMPLETE MACHINES					
	7,408	773	24,262	2,111	14	14
	..	445				
	34,299	369	..	1,951	17	17
	..	798				
	37,688	1,118	36,196	1,354	30	31
	..	295	..	487		
	21,256	436	20,043	493	35	36
	..	848	..	1,152		
	Other descriptions, not of cast iron, not elsewhere specified					
	..	3,567	..	4,325	43	43
	..	3,435	..	5,063	45	46
	Fans, industrial, with or without drivers					
	Axial					
			29,062	1,590	16	17
	Propeller					
	108,503	1,579	161,811	2,072	19	20
	..	3,376	23,565	3,654	23	24
	Unclassified					
			..	1,184	5	5
	Ventilators, hoods, booths, cowls, ducting and similar sheet metal work for air-conditioning, etc., plant					
	..	7,365	..	10,888	179	182
	Total space-heating, ventilating and air-conditioning equipment		24,405	36,323	..	..
51	PUMPS, COMPRESSORS, ETC.					
	PUMPS AND PUMPING MACHINERY					
	COMPLETE MACHINES					
	26,962	3,070	23,110	3,375	10	10
	44,067	181	103,259	620	36	36
	..	195				
	Other kinds					
	16,124	4,907	13,991	2,471	48	49
	..	518	..	835		
	75,935	11,242	113,528	15,773	71	76
	..	1,248	..	461		
	14,154	2,384	378	475	11	11
	23,637	2,280	35,330	2,837	43	45
	..	..	..	2,624		
	40,236	1,581	59,296	1,618	56	57
	..	170	..	2,882		
	Unclassified					
	..	1,218	..	1,001	7	7
	Total pumps and pumping machinery		28,994	34,972	..	..

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
	PUMPS, COMPRESSORS, ETC. (contd.)					
52	INDUSTRIAL VALVES AND COCKS for the control of liquids, steam and gases (excluding inlet and exhaust valves for internal combustion engines)					
	Wholly or mainly of iron or steel	.. 18,573	..	28,600	143	153
	Wholly or mainly of other metals and alloys, including copper alloys	.. 11,755	..	13,864	140	145
	Unclassified	.. 287	..	640	15	15
	Total industrial valves and cocks	30,615		43,104	..	..
53	COMPRESSORS, ETC.					
	COMPLETE MACHINES					
	Air compressors and exhausters					
	Reciprocating					
	Portable					
	Not exceeding 50 cu.ft. per minute	{ 4,906	2,958	..	389	14
	Exceeding 50 cu.ft. per minute	..	718(a)	2,184	1,490	10
	Stationary					
	Not exceeding 80 cu.ft. per minute	{ 22,669	4,165	15,539	924	25
	Exceeding 80 cu.ft. per minute	..	261	{ 4,084	3,545	24
				..	944	..
	Rotary					
	Portable					
		..	(e)	{ 2,416	460	9
				..	732	..
	Stationary					
	Not exceeding 80 cu.ft. per minute	{ 13,440	899	11,993	516	15
	Exceeding 80 cu.ft. per minute	..	..	..	1,760	18
				..	19	19
	Turbo-types					
		5,591	689(f)	..	2,327	12
				..	13	13
	Gas compressors and exhausters, complete					
		1,599	1,777	1,164	1,065	8
				..	10	10
	Other pneumatic appliances, complete, not elsewhere specified					
		..	1,517	..	2,105	20
				..	20	20
	Hydraulic machines, complete, not elsewhere specified, including hydraulic accumulators					
		..	2,130	..	4,379	43
				..	43	43
	Total compressors, etc.	15,114		20,636	..	..

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
60	Number	£'000	Number	£'000	Number	Number
	SCALES AND WEIGHING MACHINES, complete (excluding precision balances)					
	..	6,165	..	5,374	32	32
70	PORTABLE POWER TOOLS					
	COMPLETE MACHINES					
	Of the hand-held type (including flexible shaft drive tools), as employed in the general engineering, metal-working, wood-working, stone-working and building industries					
	Electric					
	{ 270,228	2,256	432,987	4,244	} 23	23
	..	1,817	..	527		
	Pneumatic					
	{ 64,964	1,292	59,961	1,519	} 11	11
	..	666	..	291		
	Petrol					
	2,814	190	..	34	..	..
	Of the type (including hand-held) employed in civil engineering, mining and quarrying (including rock drills)					
	Electric					
	..	132	..	374	..	..
	Pneumatic and other					
	{ 19,267	939	31,287	1,752	} 16	16
	..	303	..	362		
	Portable power driven saws					
	..	174	..	475	7	7
	Total portable power tools			7,769	9,578	..
				
	OTHER MACHINERY					
	COMPLETE MACHINES					
81	Pulpmaking and paper and board (including chipboard) making machinery					
	..	3,764	..	8,740	30	32
82	Automatic slot machines, other than weighing machines					
	Amusement					
	{ 2,210	48	2,081	414	} 10	10
	..	154	..	137		
	Vending					
	..	..	..	1,102	5	5
82	Battery and cell making machinery, not elsewhere specified					
	..	250	..	136	5	5
82	Bottle washing machinery					
	..	1,453	..	1,785	17	17
82	Boot and shoe making and repairing machinery, other than sewing machines					
	..	1,324	..	3,164	17	19
82	Bottling, packing, canning, packeting and labelling machinery					
	Bottling and capping					
	..	1,770	..	1,889	31	31
	Canning					
	..	642	..	921	8	14
	Filling and closing machinery for solids and semi-solids					
	..	842	..	545	14	14
	Packing, wrapping and labelling					
	..	2,876	..	8,857	62	62
	Total bottling, packing, canning, packeting and labelling machinery			6,130	12,212	..
				

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
82 OTHER MACHINERY (contd.)						
COMPLETE MACHINES (contd.)						
Brick, tile and cement block making machinery, other than kilns	..	1,230	..	968	31	31
Cable making machinery	..	2,028	..	1,599	14	16
Carpet sweepers, not electrically operated	485,289	913	774,222	1,539	8	8
Cement making machinery, other than kilns	..	1,506	..	664	14	14
Centrifuges, other than cream separators and hydro-extractors for use in laundries	2,539	1,959	1,968	2,555	21	21
Dishwashing machinery (excluding domestic type)	..	336	..	331	8	8
Drying machinery, not elsewhere specified	..	1,556	..	1,924	32	33
Electric lamp and electronic valve making machinery	..	331	..	548	10	10
Filter presses	..	417	..	478	10	10
Food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated						
Bakery and biscuit ovens	{ 366	{ 720	{ 424	1,774	12	12
	..	1,337	..			
Bakery, biscuit and flour confectionery machinery	..	5,876	..	4,178	33	33
Cocoa preparation, chocolate and sugar confectionery making machinery	..	1,376	..	891	24	24
Dairy machinery and plant, other than milking machines	..	2,859	..	1,481	33	33
Complete machines and parts not separately distinguished	-	-	..	2,164	..	..
Sugar making and refining machinery, other than centrifuges	..	2,993	..	2,733	13	14
Mineral water making machinery and plant	..	229	..	282	10	10
Brewing and distilling machinery and plant	..	1,860	..	1,234	21	21
Complete machines and parts not separately distinguished	-	-	..	781	5	5
Other machinery for the preparation, processing and sterilising						
Of food, including heavy duty cooking apparatus	..	5,644	..	6,975	77	78
Of drink, including canteen and café boiler, etc. sets	..	1,528	..	1,647	24	24
Total food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated		24,422		24,140	..	..

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
82 OTHER MACHINERY (contd.)						
COMPLETE MACHINES (contd.)						
Founding and diecasting machinery	..	1,310	..	2,085	30	30
Gas appliances (other than meters) pipes and fittings						
Water heaters, other than of cast iron	{ 376,227	{ 3,261	{ 245,680	2,896	7	7
	..	411	..			
Other	..	508	..	1,054	16	16
✓ Gas meters						
Domestic	714,091	4,406	..	3,888	15	24
Other	..	566	4,962	317	10	13
Glass making and glass working machinery and plant, other than furnaces	..	932	..	1,205	16	17
Laundrying and dry-cleaning machinery (including hydro-extractors and other drying machines used in laundries, excluding machinery for textile finishing)						
Wringers and mangles for domestic use	739,956	2,768	492,575	2,231	9	10
Washing machines (other than hand and electrically operated) not exceeding 250 lb. net weight	..	339	1,170	899	13	13
Dry cleaning washers	241	285	457	1,101	9	9
Industrial drying equipment, including hydro-extractors	1,165	636	976	596	12	13
Industrial ironing machines	284	448	241	604	8	9
Steam presses	{ 1,903	{ 465	{ 1,975	771	11	11
	..	60	..			
Other laundrying and dry-cleaning machinery	..	458	..	832	21	22
Lawn mowers						
Hand driven	735,761	2,125	687,211	2,374	9	13
Animal and mechanically driven, including gang mowers	49,687	1,970	103,106	2,967	12	15
Lighting appliances, not elsewhere specified	..	210	..	408	6	6
Paint spraying, metal spraying and similar machines	..	1,134	..	1,514	16	16
Plastics working machinery, other than presses	..	684	..	2,505	37	37
Pottery and other ceramic making machinery, other than furnaces and kilns	..	468	..	288	14	14

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
82 OTHER MACHINERY (contd.)						
COMPLETE MACHINES (contd.)						
Presses (other than metal-working and wood-working)						
Tableting and pelleting presses, other than for powder metallurgy	..	191	..	579	10	10
Plastics moulding, other than tableting and pelleting	879	1,391	807	1,764	22	22
Baling presses	..	290	205	387	17	17
Pulverising machinery and plant (other than crushing machinery for quarry products)	..	921	..	1,463	24	24
Rubber working machinery	..	1,858	..	4,647	36	36
Sewing machines (including machine heads)						
New						
Industrial	91,697	2,404	64,825	1,855	11	11
Domestic	639,068	7,529	..	7,586	..	5
Reconditioned	..	25	..	19	5	5
Steel and non-ferrous metal rolling mills, etc.						
Tube mills, tube welding machinery and cold drawing machinery for bars and tubes (except extrusion presses, swaging machines and tube and section cold forming machines)	..	950	..	1,330	14	15
Other rolling mills (hot and cold)						
For steel	..	3,496	..	11,090	13	13
For non-ferrous metals	..	875	..	981	7	7
Total steel and non-ferrous metal rolling mills, etc.		5,321		13,401	..	..
Stone working machinery, not elsewhere specified	..	103	..	37	5	5
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	..	534	..	440	8	8
Tea plantation and factory machinery and plantation machinery, not elsewhere specified	..	689	..	1,013	14	14
Tobacco processing and cigar and cigarette making machinery	..	4,827	..	4,121	15	15
Wood-working machinery (including veneer and plywood presses, cutter and knife grinders and saw doctoring equipment, but excluding chipboard presses, portable power tools, and small tools for use in machine tools)						
New	16,838	3,998	..	3,764	52	52
Reconditioned, including parts	..	288	..	350	13	13

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
82 OTHER MACHINERY (contd.)						
COMPLETE MACHINES (contd.)						
Testing machinery and equipment	..	1,923	..	2,054	23	23
Other new machinery, not elsewhere specified	..	7,943	..	8,870	127	136
Reconditioned machinery, not elsewhere specified	..	1,287	..	430	5	5
Complete machines and parts not separately distinguished	..	1,584	..	4,087	87	93
TOTAL OTHER MACHINERY		114,818		148,025	..	..
PARTS of miscellaneous (non-electrical) machinery sold in association with the sale of complete machines (g)	..	66,569	..	78,972	..	..
OTHER PRINCIPAL PRODUCTS OF THE INDUSTRY						
82 Cutting tools for use on wood-working machines, other than saw blades	..	618	..	739	14	14
82 Fairground equipment	..	72	..	45	5	5
82 Fire extinguishing apparatus (other than fire engines, etc., and hand-operated chemical extinguishers, sold separately)	..	4,201	..	5,077	18	18
82 Garage equipment and plant, not elsewhere specified	..	1,988	..	3,529	39	40
Other principal products	..	4,756	..	1,800	183	190
WASTE PRODUCTS SOLD						
Iron and steel scrap	Th. tons	394	Th. tons	638	521	543
Brass scrap	88.6	84	90.2	223	334	349
Copper scrap	3.8	532	4.8	493	160	166
Other scrap metals	..	232	..	180	266	276
Other waste products	..	157	..	117	75	79
Other waste products	..	420	..	420	..	..
WORK DONE						
Machinery and plant erected and installed		1,546		7,668	127	130
Research and development work		135		2,750	47	47
Total		374,279		490,357	..	..
Sales in other industries (see Table 5)		66,159		72,575	..	..
Principal products of this industry sold by establishments in the industry		308,120		417,781	891	958(h)

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.
- (b) Litho and litho-offset machines weighing less than 2,000 lb. are included in the report on the Office Machinery Industry.
- (c) Owing to the alteration in headings, separate details are not available for 1954.
- (d) Including all portable air compressors and exhausters in 1954.
- (e) Not separately recorded in 1954.
- (f) Stationary turbo-types only in 1954.
- (g) For details of these parts see Table 9.
- (h) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown in Table 2 on account of combined returns covering more than one establishment.

MISCELLANEOUS (NON-ELECTRICAL) MACHINERY
Sales of principal products of the industry by establishments
classified to other industries

TABLE 5 Firms employing 25 or more persons: United Kingdom

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Mining machinery, other than portable power tools	Number	£'000	Number	£'000	Number	
Coal cutters, power operated						
Complete	..	78	..	164	..	42, 47, 53, 63
Parts (b)	..		..	152	7	44, 52, 53, 75
Conveyors, underground						
Complete	..	615	..	142	6	38, 42
Parts (b)	..		..	287	17	38, 48, 51, 52
Winding machinery						
Complete	..	207	..	509	5	45, 62, 66
Parts (b)	..	452	..	120	8	45, 51, 62
Coal preparation plant						
Complete	..	1,193	..	1,460	22	45, 51, 53, 128
Parts (b)	..	460	..	783	23	46, 51, 53, 128
Other and unclassified						
Complete	..	1,035	..	1,985	36	45, 51, 56, 128
Parts (b)	..	2,202	..	361	34	41, 43, 51, 53
Total mining machinery, other than portable power tools		6,242		5,961	..	
Printing and bookbinding machinery, new						
Typesetting (including keyboard and type-casting) and photo-engraving						
Complete	..	80	..	25	..	(c)
Parts (b)	..		-	-	-	
Printing						
Newspaper rotary and other reel-fed machines						
Complete	..	29	..	177	..	43, 52, 53
Parts (b)	..		..
Sheet-fed machines						
Letterpress						
Complete	..	599	..			
Parts (b)	..		..
Litho and litho-offset, weighing 2,000 lb. or more (d)						
Complete	..	428	..	207	10	43, 52, 75
Parts (b)	..		..
Other						
Complete	146	170				
Parts (b)	..	75				

TABLE 5 (contd.)

	1954		1958			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
Printing and bookbinding machinery, new (contd.)	Number	£'000	Number	£'000	Number	
Printing (contd.)						
Other new printing machinery						
Complete	..	436	..	211	10	43, 49, 51, 120
Parts (b)	..	73	..	4	..	(c)
Bookbinding, including blocking, embossing, stitching, ruling and cutting, folding, etc.						
Complete	..	101	..	100	8	52, 53, 125
Parts (b)	..		..
Paper-working, etc. machines						
Bag and envelope making						
Complete	..	19	..			
Parts (b)	..		..	687	12	43, 51, 52
Cardboard box and carton-making						
Complete	..	209	..			
Parts (b)	..		..
Guillotines						
Complete	148	98	..	48	..	43, 53
Parts (b)	..	8	..			
Other						
Complete	138	58	..	164	11	48, 53, 54, 118
Parts (b)	..	137	..			
Printing, bookbinding, paper-working, etc. machines, reconditioned						
Complete	..	14	..	53	..	51, 53, 75
Parts (b)	..		..
Printers' accessories, e.g. wood and metal furniture	..	150	..	242	5	41, 49, 70
Total printing and bookbinding machinery		2,687		1,919	..	
Refrigerating machinery						
Complete self-contained refrigerators	..		..	2,507	12	43, 47, 60, 75
Other refrigerating machinery						
Complete	..	2,236	..	728	27	47, 51, 63, 75
Parts (b)	..		..	868	12	43, 60, 63, 75
Total refrigerating machinery		2,236		4,103	..	

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Number	£'000	Number	£'000	Number	
Space-heating, ventilating and air-conditioning equipment						
Sectional boilers for central heating						
Complete	..	282	322	71	7	51
Parts (b)	..	88	..	14	7	(c)
Hot air, water and steam radiators, other than those for use with gas or electricity						
Complete	..	303	..	205	8	56, 60
Parts (b)	..	77	..	8	..	..
Heater batteries and unit heaters						
Complete	..	34	} ..	262	10	43, 51, 53, 128
Parts (b)	..	171				
Air filters, washers and scrubbers						
Complete	} ..	76	} ..	148	8	51, 53, 62, 128
Parts (b)						
Other descriptions, not of cast iron, not elsewhere specified						
Space heating plant and appliances						
Complete	..	755	..	1,078	10	51, 75, 128
Parts (b)	..	129	..	29	..	51
Other						
Complete	..	901	..	614	13	51, 53, 62, 128
Parts (b)	..	62	..	380	10	51, 53, 60
Fans, industrial, with or without drivers						
Complete	} ..	719	..	2,509	15	51, 60, 110
Parts (b)						
Ventilators, hoods, booths, cowls, ducting and similar sheet metal work for air-conditioning, etc. plant	..	2,507	..	3,944	86	48, 51, 75, 128
Total space-heating, ventilating and air-conditioning equipment		6,104		9,274	..	
Pumps, compressors, etc.						
Pumps and pumping machinery						
Kerbside and hand pumps						
Complete	37,831	524	..	554	13	51, 52, 63, 67
Parts (b)	..	300	..	63	9	52, 69

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Number	£'000	Number	£'000	Number	
Pumps, compressors, etc. (contd.)						
Pumps and pumping machinery (contd.)						
Other kinds						
Reciprocating						
Complete	1,035	335	..	407	12	48, 51, 53
Parts (b)	..	282	..	91	7	48, 51
Centrifugal and turbine						
Complete	..	1,474	15,681	1,607	22	45, 47, 51, 56
Parts (b)	..	318	..	282	18	45, 47, 51, 53
Rotary						
Complete	} 5,096	903	} ..	1,048	11	48, 52, 53, 67
Parts (b)						
Other						
Complete	25,012	1,109	} 5,759	787	22	43, 44, 48, 51
Parts (b)	..	239					..	272	14	48, 51, 62
Unclassified						
Complete	..	1,197	} ..	444	..	53, 54
Parts (b)	..	30				
Total pumps and pumping machinery		7,000		6,086	..	
Industrial valves and cocks for the control of liquids, steam and gases (excluding inlet and exhaust valves for internal combustion engines)						
Wholly or mainly of iron and steel	..	796	..	1,605	63	39, 51, 53, 75
Wholly or mainly of other metals and alloys, including copper alloys	..	2,555	..	1,646	57	42, 48, 51, 75
Unclassified	..	240	..	194	8	51, 54, 62, 63
Total industrial valves and cocks		3,591		3,445	..	
Compressors, etc.						
Air compressors and exhausters						
Complete	..	759	..	2,442	23	45, 51, 56, 62
Parts (b)	..	243	..	502	12	45, 51, 53, 63
Gas compressors and exhausters						
Complete	} ..	504	} ..	351	6	40, 45, 51
Parts (b)						

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value £'000	Quantity Number	Value £'000	Entries Number	Principal industries in which produced (a)
Pumps, compressors, etc. (contd.)						
Compressors, etc. (contd.)						
Other pneumatic appliances, not elsewhere specified						
Complete	..	295	..	211	7	43, 51, 53
Parts (b)	..	22	..	25	8	51
Hydraulic machines, not elsewhere specified, including hydraulic accumulators						
Complete	..	631	..	997	17	43, 63, 65, 67
Parts (b)	..	193	..	143	..	52, 53
Total compressors, etc.		2,647		4,671	..	
Scales and weighing machines and parts thereof (excluding precision balances)						
Complete	..	245	..	95	8	42, 53, 54
Parts (b)	..	40	..	65	9	55, 63
Portable power tools						
Of the hand-held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries						
Electric						
Complete	..	70	{ 455 ..	25 31	9	43, 53, 75
Parts (b)	..	39	..	84	7	53
Pneumatic and petrol						
Complete	..	204	{ ..	246	5	38, 48, 53
Parts (b)	..	21	..			
Of the type, including hand-held, employed in civil engineering, mining and quarrying (including rock drills) and portable power driven saws						
Complete	..	566	..	603	12	44, 53, 61, 69
Parts (b)	..	250	..	255	7	43, 47, 61, 69
Total portable power tools		1,150		1,244	..	
Other machinery						
Pulpmaking and paper and board (including chipboard) making machinery						
Complete	..	342	..	417	6	40, 46, 51
Parts (b)	..	1,557	..	698	19	46, 48, 51, 53

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value £'000	Quantity	Value £'000	Entries Number	Principal industries in which produced (a)
Other machinery (contd.)						
Automatic slot machines, other than weighing machines						
Amusement and vending						
Complete	..	(e)	..	1,155	11	49, 63, 65, 75
Parts (b)			
Bottle washing machinery						
Complete	..	34	..	(e)	..	
Parts (b)	..	88	..	35	6	51, 128
Boot and shoe making and repairing machinery, other than sewing machines						
Complete	..	91	..	53	5	} 53
Parts (b)	..	126	..	229	5	
Bottling, packing, canning, packeting and labelling machinery						
Bottling and capping						
Complete	..	425	}	747	12	52, 75
Parts (b)	..	143				
Canning						
Complete	..	150	}	549	11	43, 44, 52, 75
Parts (b)	..					
Filling and closing machinery for solids and semi-solids						
Complete	..	56	..	78	6	48, 51, 53
Parts (b)	..	9	..	21	7	(c)
Packing, wrapping and labelling						
Complete	..	280	}	458	21	43, 46, 52, 53
Parts (b)	..	22				
Total bottling, packing, canning, packeting and labelling machinery						
Complete	..	1,085	..	1,853	..	
Parts (b)			
Brick tile and cement block making machinery, other than kilns						
Complete	..	475	..	343	16	43, 47, 51, 66
Parts (b)	..	359	..	400	21	44, 51, 53, 66
Cable making machinery						
Complete	..	1,275	}	834	12	43, 46, 57, 58
Parts (b)	..	131				

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Other machinery (contd.)						
Cement making machinery, other than kilns						
Complete	..	1,413	}	393	9	47, 51, 62, 128
Parts (b)	..	296				
Centrifuges, other than cream separators and hydro-extractors for use in laundries						
Complete	..	338	..	528	10	51, 52, 53, 71
Parts (b)	..	81	..	94	9	51, 52, 53
Drying machinery, not elsewhere specified						
Complete	..	240	..	606	13	46, 48, 51, 75
Parts (b)	..	80	..	55	9	51
Electric lamp and electronic valve making machinery						
Complete	..	50	..	49	..	61
Parts (b)	..	52	..	1	..	(c)
Food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated						
Bakery, biscuit and flour confectionery machinery						
Complete	..	122	..	101	8	63, 75
Parts (b)	..	23	..	4	..	(c)
Cocoa preparation, chocolate and sugar confectionery making machinery						
Complete	..	299	..	84	9	45, 51
Parts (b)	..	72	..	48	10	51
Dairy machinery and plant, other than milking machines						
Complete	..	513	..	556	15	42, 45, 47, 51
Parts (b)	..	120	..	60	11	42, 45, 47
Sugar making and refining machinery, other than centrifuges						
Complete	..	705	}	1,615	13	12, 51, 53
Parts (b)	..	164				
Mineral water making machinery and plant						
Complete	..	8	}	47	5	44, 53
Parts (b)	..	2				

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Other machinery (contd.)						
Food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated (contd.)						
Brewing and distilling machinery and plant						
Complete	..	263	..	68	5	47, 51, 52
Parts (b)	..	144	..	7	6	(c)
Complete and parts not separately distinguished	-	-	..	159	..	..
Other machinery for the preparation, processing, and sterilising						
Of food, including heavy duty cooking apparatus						
Complete	..	1,146	..	1,248	30	42, 51, 53, 75
Parts (b)	..	223	..	50	18	(f)
Of drink, including canteen and café boiler etc., sets						
Complete	..	660	}	118	10	13, 51, 75
Parts (b)	..	11				
Total food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated						
Complete		3,716	}	4,165	..	
Parts (b)		759				
Founding and diecasting machinery						
Complete	..	220	..	520	12	41, 43, 53, 75
Parts (b)	..	71	..	169	10	43, 52, 53, 75
Gas appliances (other than meters)						
Complete	}	504	..	691	8	75
Parts (b)						
Glass making and glass working machinery and plant, other than furnaces						
Complete	..	560	}	802	9	52, 106
Parts (b)	..	296				

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Number	£'000	Number	£'000	Number	
Other machinery (contd.)						
Laundering and dry-cleaning machinery (including hydro-extractors and other drying machines used in laundries, excluding machinery for textile finishing)						
Wringers and mangles for domestic use						
Complete	..	108	..	83	..	52, 60, 75
Parts (b)						
Other laundering and dry cleaning machinery						
Complete	..	174	..	112	6	48, 65, 75
Parts (b)	..	227	..	45	9	(c)
Lawn mowers						
Hand driven						
Complete	74,515	360	}	372	6	42, 46, 53, 63
Parts (b)	..	108				
Animal and mechanically driven, including gang mowers						
Complete	19,152	974	18,037	847	6	42, 47, 52, 63
Parts (b)	..	193	..	259	5	42, 52, 53
Lighting appliances, not elsewhere specified						
Complete	}	111	..	173	..	52, 61
Parts (b)						
Plastics working machinery, other than presses						
Complete	..	205	..	492	18	43, 44, 51, 53
Parts (b)	..	33	..	147	9	44, 51, 53
Pottery and other ceramic making machinery, other than furnaces and kilns						
Complete	..	26	..	25	6	}
Parts (b)	..	16	..	13	..		(c)
Presses (other than metal and wood working)						
Complete	..	787	..	1,272	14	43, 46, 53, 75
Parts (b)	..	128	..	219	8	43, 53, 75
Pulverising machinery and plant (other than crushing machinery for quarry products)						
Complete	..	564	..	992	14	38, 43, 51, 52
Parts (b)	..	432	..	347	9	43, 48, 51

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Other machinery (contd.)						
Rubber working machinery						
Complete	..	721	..	462	13	46, 51, 75, 108
Parts (b)	..	131	..	135	16	48, 51, 52, 53
Steel and non-ferrous metal rolling mills, etc.						
Complete	}	2,320	..	2,757	34	40, 43, 48, 53
Parts (b)						
Tanning and leather working machinery, other than boot and shoe making and repairing machinery						
Complete	..	26	..	10	..	}
Parts (b)	..	10	..	4	..		(c)
Tea plantation and factory machinery						
Complete	..	419	..	710	5	}
Parts (b)	..	109	..	298	..		40, 42, 47
Testing machinery and equipment						
Complete	..	418	}	480	15	43, 53, 56, 65
Parts (b)	..	152				
Tobacco processing and cigar and cigarette making machinery						
Complete	..	267	}	208	6	51, 53
Parts (b)	..	83				
Wood-working machinery (including veneer and plywood presses, cutter and knife grinders and saw doctoring equipment, but excluding chipboard presses, portable power tools and small tools for use in machine tools)						
Complete	..	898	..	637	18	42, 43, 47, 51
Parts (b)	..	127	..	54	8	(c)
Other machinery, not elsewhere specified						
New						
Complete	..	4,711	..	4,629	..	(f)
Parts (b)	..	1,073	..	707	..	(f)
Complete and parts, not separately distinguished	..	1,544	..	3,333	..	42, 63, 64, 65
Reconditioned, complete and parts	..	533	..	264	5	53, 56, 65
Total other machinery		32,229		34,179	..	

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Other principal products of the industry						
Cutting tools for use on wood-working machines, other than saw blades	..	279	..	337	..	44, 51, 60
Fire extinguishing apparatus (other than fire engines, etc., and hand-operated chemical extinguishers, sold separately)	..	169	..	22	..	(c)
Garage equipment and plant, not elsewhere specified	..	1,419	..	1,059	22	43, 48, 51, 75
Other principal products	..	120	..	114	..	(c)
Total		66,159		72,575	..	

(a) The references given are to the list of industries at the back of this report.

(b) Parts sold in association with the sale of complete machines characteristic of this industry.

(c) No significant production was recorded in other industries.

(d) Litho and litho-offset machines, weighing less than 2,000 lb. are reported in the Office Machinery Industry.

(e) Owing to the risk of disclosure relating to individual enterprises separate details cannot be given and have been included with 'Other machinery, not elsewhere specified'.

(f) Production is widely distributed.

Sales of other than principal products by larger firms in the industry

TABLE 6 Firms employing 25 or more persons: United Kingdom

	1954	1958
	Value	Value
	£'000	£'000
Mechanical engineering		
Agricultural machinery (except tractors)		
Grain and grass driers		
Complete	152	} 28
Parts (a)	6	
Other machinery		
Complete	253	569
Parts (a)	127	121
Metal-working machine tools, and engineers' small tools and gauges		
Metal-working machine tools		
New		
Complete	2,081	2,415
Parts (a)	492	532
Reconditioned	338	161
Welding and cutting machinery and equipment		
Complete	} 30	550
Parts (a)		
Engineers' cutting and forming small tools	759	1,226
Other engineers' small tools and gauges	502	1,398
Industrial engines		
Internal combustion reciprocating engines		
Complete	271	213
Parts (a)	143	114
Steam turbines, other than marine		
Complete	349	389
Parts (a)	96	62
Other		
Complete	1,070	1,199
Parts (a)	181	189
Textile machinery and accessories		
Textile machinery		
Complete	1,242	1,645
Parts (a)	224	315
Textile machinery accessories	81	116

TABLE 6 (contd.)

	1954	1958
	Value	Value
	£'000	£'000
Mechanical engineering (contd.)		
Contractors' plant and quarrying machinery		
Complete	760	1,195
Parts (a)	354	486
Mechanical handling equipment		
Conveyors and elevators, other than hay and corn elevators		
Belt		
Complete	535	741
Parts (a)	183	344
Other		
Complete	200	329
Parts (a)	43	35
Cranes and bridge transporters		
Complete	259	} 1,595
Parts (a)	71	
Hoists (other than skip hoists) and other lifting machinery including winches and capstans		
Complete	754	210
Parts (a)	25	32
Other equipment		
Complete	769	1,059
Parts (a)	83	79
Office machinery		
Complete	} 20	339
Parts (a)		
Industrial plant and steelwork		
Boilers and boiler-house plant		
Complete	1,187	1,219
Parts (a)	303	226
Chemical making machinery, not elsewhere specified		
Complete	1,310	1,872
Parts (a)	398	426
Furnaces and kilns		
Complete	482	314
Parts (a)	127	74
Gas works plant, not elsewhere specified		
Complete	100	} 173
Parts (a)	119	

TABLE 6 (contd.)

	1954	1958
	Value	Value
	£'000	£'000
Mechanical engineering (contd.)		
Industrial plant and steelwork (contd.)		
Grain processing machinery and plant, not elsewhere specified		
Complete	} 221	148
Parts (a)		
Iron, steel and non-ferrous metal works plant, not elsewhere specified		
Complete	1,037	136
Parts (a)	366	12
Water treatment plant, other than plant for waterworks		
Complete	1,066	3,757
Parts (a)	120	146
Other industrial plant		
Complete	1,020	555
Parts (a)	88	65
Fabricated iron and steelwork, including similar work in other metals	1,214	2,805
Ordnance and small arms	3,854	1,845
General mechanical engineering		
Parts sold other than in association with the sale of complete machines		
For agricultural machinery (except tractors)	144	530
For metal-working machine tools	58	215
For textile machinery	153	465
For contractors' plant and quarrying machinery	30	224
For mechanical handling equipment	50	154
For industrial plant		
Boilers and boiler-house plant	362	70
Chemical making machinery	78	51
Gas works plant	103	38
Other industrial plant	78	275
For other machinery	113	386
Other and unclassified mechanical engineering	3,090	7,589
Products of other industries		
Iron and steel general	398	811
Iron castings	2,813	3,680

TABLE 6 (contd.)

	1954	1958
	Value	Value
Products of other industries (contd.)	£'000	£'000
Non-ferrous metals		
Castings of aluminium and aluminium alloys	130	136
Castings of brass and other copper alloys		
Rough castings sold as such	466	190
Other	39	147
Other non-ferrous metal manufactures	99	183
Scientific surgical and photographic instruments, etc.	672	1,250
Electrical engineering		
Electrical machinery, new		
Complete	} 2,297	1,418
Parts		
Domestic electrical appliances		
Complete	} 2,737	6,065
Parts		
Other electrical engineering	214	576
Shipbuilding and marine engineering		
Complete	} 3,461	3,148
Parts		
Motor vehicles and motor cycles, three-wheel vehicle and pedal cycle manufacturing		
Complete	} 405	684
Parts		
Aircraft manufacturing and repairing	132	154
Locomotives and railway track equipment: and railway carriages, wagons and trams	125	1,227
Perambulators, hand-trucks, etc.	99	28
Tools and implements	105	97
Miscellaneous metal manufactures		
Stampings and pressings	145	432
Hollow-ware of wrought iron and steel	260	89
Engineers' and mechanics' goods	1,522	2,391
Machinery guards of sheet metal	32	33
Other	1,992	3,605
Other products	1,020	284
Total goods sold	48,884	68,082

TABLE 6 (contd.)

	1954	1958
	Value	Value
Work done	£'000	£'000
Erection and installation of air-conditioning, heating and ventilating plant	2,768	1,425
Repair and jobbing work (b)	7,697	13,345
Other work done on commission	2,160	3,621
Structural work carried out		
As main or direct contractors and specialist work	334	1,531
As sub-contractors	130	634
(Less) estimated value of goods made and used in the contract work	-	759
Total work done exclusive of goods made and used in the contract work	13,089	19,797
Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)	..	26,136
Canteen takings	..	1,163
Total	..	115,178

(a) Parts sold in association with the sale of complete machines.

(b) Exclusive of the value of goods used by firms and recorded as their output.

TABLE 7 - Total make of intermediate products, 1958

This table is not applicable to the industry.

Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

	Males		Total
	Number	Number	
Working proprietors	44	4	48
Operatives	157,512	18,932	176,444
Administrative, technical and clerical employees	48,348	22,192	70,540
Total employees	205,860	41,124	246,984
Average salaries, etc. paid per head for the week to administrative, technical and clerical employees	£ 16.8	£ 7.3	£ 13.8

Sales of all parts of miscellaneous (non-electrical) machinery by larger firms, including sales by establishments classified to other industries

TABLE 9 Firms employing 25 or more persons: United Kingdom

(i) Parts sold in association with the sale of complete machines characteristic of this industry (a) (ii) Other parts sold (b)	1954		1958	
	(i)	(ii)	(i)	(ii)
	£'000	£'000	£'000	£'000
For mining machinery, other than portable power tools				
Coal cutters, power operated	1,921	571	2,517	749
Conveyors, underground	6,040		8,487	475
Power loaders, including cutter loaders	416	49	2,425	345
Winding machinery	594		805	
Hauling engines (stationary)	472		268	-
Coal preparation plant	1,292	315	1,504	257
Other	3,113	354	1,595	1,651
Unclassified	31	-		
Total mining machinery	13,881	1,288	17,601	3,477
For printing and bookbinding machinery				
Typesetting (including keyboard and type-casting)	1,740	233	1,987	-
Stereotyping and electrotyping	41		79	-
Photo-engraving	36			
Printing				
Newspaper rotary	364		359	801
Other reel-fed machines	315		552	
Sheet-fed machines				
Letterpress	311		173	
Litho and litho-offset, weighing 2,000 lb. or more (c)	276		121	
Other	154		102	
Other new printing machinery	192		134	
Bookbinding, including blocking, embossing, stitching, ruling and cutting, folding, etc.	137		216	
Paper-working, etc. machines				
Bag and envelope making	81		107	186
Cardboard box and carton making	234		383	
Guillotines	55		83	
Other	397		212	
Printing, bookbinding, paper-working, etc. machines, reconditioned	9		74	
Total printing and bookbinding machinery	4,343	233	4,584	986
For refrigerating machinery	4,168	397	937	2,398

TABLE 9 (contd.)

(i) Parts sold in association with the sale of complete machines characteristic of this industry (a)	1954		1958		
	(i)	(ii)	(i)	(ii)	
(ii) Other parts sold (b)	£'000	£'000	£'000	£'000	
For space-heating, ventilating and air-conditioning equipment					
Sectional boilers for central heating	138	476	210	225	
Hot air, water and steam radiators, other than those for use with gas or electricity	82		100		
Heater batteries and unit heaters	219		256		75
Air filters, washers and scrubbers	239		317		32
Other descriptions, not of cast iron, not elsewhere specified					
Space-heating plant and appliances (including plenum systems)	288		97	463	
Other	280		712	50	
Fans, industrial, with or without drivers	422		688	14	
Total space-heating, ventilating and air-conditioning equipment	1,669	476	2,380	858	
For pumps, compressors, etc.					
Pumps and pumping machinery					
Kerbside petrol and oil measuring	843	380	584	1,103	
Hand pumps, other than kerbside petrol and oil measuring	44	-	68		
Other kinds					
Reciprocating	1,929	74	1,263		
Centrifugal and turbine	2,694		3,628		
Axial flow	605	115	66		
Rotary	435		885		
Other	450		595		
Unclassified	30				
Total pumps and pumping machinery	7,031	569	7,089	1,103	
Compressors, etc.					
Air compressors and exhausters					
Reciprocating				247	
Portable	2,084	59	1,034		
Stationary			2,153		
Rotary					
Portable			601	885	
Stationary			376		
Turbo-types			161		
Gas compressors and exhausters	222	-	208		
Other pneumatic appliances, not elsewhere specified	75	221	278		
Hydraulic machines, not elsewhere specified, including hydraulic accumulators	502	-	455	108	
Total compressors, etc.	2,883	280	5,266	1,240	

TABLE 9 (contd.)

(i) Parts sold in association with the sale of complete machines characteristic of this industry (a)	1954		1958	
	(i)	(ii)	(i)	(ii)
(ii) Other parts sold (b)	£'000	£'000	£'000	£'000
For scales and weighing machines (excluding precision balances)	307	22	454	-
For portable power tools				
Of the hand-held type (including flexible shaft drive tools), as employed in the general engineering, metal-working, wood-working, stone-working and building industries				
Electric	1,062	31	1,202	328
Pneumatic	1,204		914	
Petrol			142	
Of the type (including hand-held) employed in civil engineering, mining and quarrying (including rock drills)				
Electric	178		142	
Pneumatic	930		1,626	
Petrol				
Total portable power tools	3,375	31	4,025	328
For other machinery				
Pulpmaking and paper and board (including chipboard) making machinery	4,249	610	7,352	1,113
Automatic slot machines, other than weighing machines				
Amusement	31	-	50	-
Vending			271	
Battery and cell making machinery, not elsewhere specified	33	6	36	122
Bottle washing machinery	349	34	237	14
Boot and shoe making and repairing machinery, other than sewing machines	1,243	1	1,410	(d)
Bottling, packing, canning, packeting and labelling machinery				
Bottling and capping	708	7	893	16
Canning		10	11	
Filling and closing machinery for solids and semi-solids	123	12	112	81
Packing, wrapping and labelling	506		1,510	
Total bottling, packing, canning, packeting and labelling machinery	1,337	29	2,515	108
Brick, tile and cement block making machinery, other than kilns	1,087	61	1,076	39
Cable making machinery	321	48	293	38

TABLE 9 (contd.)

(i) Parts sold in association with the sale of complete machines characteristic of this industry (a)	1954		1958	
	(i)	(ii)	(i)	(ii)
(ii) Other parts sold (b)	£'000	£'000	£'000	£'000
For other machinery (contd.)				
Carpet sweepers, not electrically operated	25	..	158	..
Cement making machinery, other than kilns	472	54		
Centrifuges, other than cream separators and hydro-extractors for use in laundries	777	-	439	(d)
Dishwashing machinery (excluding domestic type)	46	(d)	25	-
Drying machinery, not elsewhere specified	235	-	220	59
Electric lamp and electronic valve making machinery	99	10	120	
Filter presses	126	(d)	237	-
Food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated				
Bakery and biscuit ovens	130	-	207	19
Bakery, biscuit and flour confectionery making machinery	1,123	(d)	797	
Cocoa preparation, chocolate and sugar confectionery making machinery	265	(d)	213	38
Dairy machinery and plant, other than milking machines	192	636	197	20
Sugar making and refining machinery, other than centrifuges	1,332		1,763	152
Mineral water making machinery and plant	64	-	158	-
Brewing and distilling machinery and plant	333	8	199	275
Other machinery for the preparation, processing and sterilising				
Of food, including heavy duty cooking apparatus	661	195	807	218
Of drink, including canteen and café boiler etc. sets	101	4	85	84
Total food and drink preparation, processing and sterilising machinery, not elsewhere specified, other than portable mechanical appliances, electrically operated	4,201	1,033	4,426	806
Founding and diecasting machinery	349	9	456	7
Gas appliances (other than meters) pipes and fittings				
Water heaters, other than of cast iron	293	-	557	-
Other	192	-		
Gas meters				(d)
Domestic	1,093	(d)	596	56
Other	117	-	8	
Glass making and glass working machinery, other than furnaces	561	63	353	467

TABLE 9 (contd.)

(i) Parts sold in association with the sale of complete machines characteristic of this industry (a)	1954		1958	
	(i)	(ii)	(i)	(ii)
(ii) Other parts sold (b)	£'000	£'000	£'000	£'000
For other machinery (contd.)				
Laundrying and dry-cleaning machinery (including hydro-extractors and other drying machines used in laundries, excluding machinery for textile finishing)				
Wringers and mangles for domestic use	33	(d)	41	-
Washing machines (other than hand and electrically operated) not exceeding 250 lb. net weight	70	-	122	-
Dry cleaning washers	8	-	54	-
Industrial drying equipment, including hydro-extractors	132	(d)	134	-
Industrial ironing machines	80	-	59	-
Steam presses	166	-	226	-
Other laundrying and dry-cleaning machinery	184	4	165	(d)
Lawn mowers				
Hand driven	191	61	386	41
Animal and mechanically driven, including gang mowers	295			
Lighting appliances, not elsewhere specified	72	(d)	3	3
Paint spraying, metal spraying and similar machines	468	2	262	30
Plastics working machinery, other than presses	115	52	510	65
Pottery and other ceramic making machinery, other than furnaces and kilns	46	(d)	151	(d)
Presses (other than metal-working and wood-working)				
Tableting and pelleting presses, including those for plastics moulding	497	3	690	5
Baling presses	59			
Pulverising machinery and plant (other than crushing machinery for quarry products)	538	14	701	(d)
Rubber working machinery	556	111	636	213
Sewing machines (including machine heads)				
New				
Industrial	1,030	(d)	1,067	(d)
Domestic	526	-	1,962	(d)
Reconditioned	1	-	-	-
Steel and non-ferrous metal rolling mills, etc.				
Tube mills, tube welding machinery and cold drawing machinery for bars and tubes (except extrusion presses, swaging machines and tube and section cold forming machines)				
	129	31	726	1,621
Other rolling mills (hot and cold)				
For steel	1,897	189	3,210	919
For non-ferrous metals	164	-	253	-
Total steel and non-ferrous metal rolling mills, etc.	2,190	220	4,189	2,540

MISCELLANEOUS (NON-ELECTRICAL) MACHINERY

TABLE 9 (contd.)

(i) Parts sold in association with the sale of complete machines characteristic of this industry (a)	1954		1958	
	(i)	(ii)	(i)	(ii)
(ii) Other parts sold (b)				
For other machinery (contd.)	£'000	£'000	£'000	£'000
Stone working machinery, not elsewhere specified	17	7	308	-
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	304	1		(d)
Tea plantation and factory machinery and plantation machinery, not elsewhere specified	136	-	349	(d)
Tobacco processing and cigar and cigarette making machinery	1,153	13	872	(d)
Wood-working machinery (including veneer and plywood presses, cutter and knife grinders and saw doctoring equipment but excluding chipboard presses, portable power tools, and small tools for use in machine tools)	405	28	520	(d)
Testing machinery and equipment	304	-	186	-
Other machinery	2,103	444	1,610	1,376
Total other machinery	28,913	3,089	36,634	8,088
TOTAL	66,569	6,385	78,972	18,479

(a) Principal products of this industry.

(b) Principal products of the General Mechanical Engineering Industry.

(c) Litho and litho-offset machines weighing less than 2,000 lb. are included in the report on the Office Machinery Industry.

(d) Owing to the risk of disclosure of information relating to individual enterprises details cannot be given.

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CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-

ferrous metals; paint; plastics materials;

cotton and rayon, nylon, etc. textiles; timber;

packing materials; replacement parts for plant

etc. (Information about purchases of other

materials is given in The Report on the Census

of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

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