



BOARD OF TRADE

5 42 [HA 25]

THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 53 GENERAL MECHANICAL ENGINEERING

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

PRICE 2s. 6d. NET

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 they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments Returns in full detail were required only from 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 The coverage of firms' returns for 1958 was in produce higher figures for employment etc., the reporting of separate figures for merchanted goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

census, which affect the comparability between 1954 and 1958 figures. firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons. 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

Changes made for 1958 in the instructions under the same ownership or management at a particular address (e.g. a factory or mine); but offices, governing the making of returns for two or more warehouses, laboratories, etc. at addresses separate establishments operated by the same firm permitted from the works were treated as part of the establcombined returns to be made more freely than in ishment. For 1958, but not for 1954, firms were previous censuses. Combined returns were accepted asked to include also, in all sections of their covering establishments in the same census industry, returns, particulars relating to merchanting or and situated in the same country (i.e. England, factoring, canteens operated by them, and other Scotland or Wales). ancillary activities, such as bottling, packing, and The 1954 figures have been re-tabulated to the manufacture of containers for packing their own correspond as closely as possible to those for 1958, products, whether or not these activities were but because of the changes described above the carried on at the same address as the works, unless correspondence is not always exact.

CAPITAL EXPENDITURE

The expenditure on new building work shown (iii) Total employment excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both This is the sum of the average number of emnew and second-hand items are included. The value ployees and the number of working proprietors; is that charged to capital account during the year, outworkers are excluded. including any transport and installation cost involved. Capital expenditure in respect of estab-ENTERPRISE lishments in Great Britain where production had not The term enterprise is used in this report to

started before the end of the year is included in mean one or more firms under common ownership or Table 1. control as defined in the Companies Act, 1948. An enterprise normally consists either of a single CHARACTERISTIC PRODUCTS (See the description of the firm, or of a holding company together with its method of classification before List of Tables) subsidiary companies.

EMPLOYMENT

(i) Working proprietors The number of entries shown in Tables 4, 5 and These include all persons regarded as 'self-7 is the number of returns on which figures against employed' for National Insurance purposes, and a particular output or production heading were members of their families who worked in the business recorded. The number of entries is less than the without receiving fixed wages or salaries; but corresponding number of establishments to the extent persons working less than half the normal hours are that combined returns were made covering more than one of the establishments concerned. excluded.

(ii) Employees

Employees are classified under the two main ESTABLISHMENT headings of (a) administrative, technical and In most cases an establishment comprises the clerical employees and (b) operatives. The figures whole of the premises under the same ownership or relate to persons on the pay-roll (i.e. whose management at a particular address (e.g. a factory National Insurance cards were held by employers), or mine). Offices, warehouses, laboratories and whether full-time or part-time employees. The other ancillary places of business at a separate figures for 1958 include, but those for 1954 address from the works were treated as part of the exclude, persons engaged in merchanting or factorestablishment. ing, and canteen workers.

Administrative, technical and clerical em-INTE RMEDIATE PRODUCTS ployees include managers, superintendents, and works For some industries figures are given showing foremen; research, experimental, development, the total quantities made during the year of importtechnical and design employees (other than operaant intermediate products, i.e. products which may tives); draughtsmen and tracers; travellers; and be further processed in the establishments in which office (including works office) employees. they are produced, whether or not they are also sometimes sold. They include also goods produced Operatives include all other classes of em-

ployees, that is, broadly speaking, all manual wage from materials supplied by other firms. earners. They include those employed in and about the factory or works; operatives employed in power MATERIALS AND FUEL houses, transport work, stores, warehouses and, for The totals shown include the cost of all pur-1958, canteens; inspectors, viewers and similar chases of materials and components for use in workers; maintenance workers; and cleaners. production, and of fuel (including oil, gas and Operatives engaged in outside work of erection. electricity) for all purposes including heating, fitting etc. are also included, but outworkers (i.e. lighting and transport (where carried out by firms' persons employed by the firm who worked on materials own staff included in the return); all packing

NOTES

TERMS USED IN THE CENSUS REPORTS

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

ENTRIES

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 workpeople 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 pro-prietors, 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

ii

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 53. GENERAL MECHANICAL ENGINEERING

This report on the General Mechanical Engineering Industry relates to establishments engaged in the manufacture of ball, roller, needle and similar bearings; transmission and other precision chains, including transmission chains for motor vehicles and cycles; machinery parts other than those made in association with complete machines; and to establishments undertaking general subcontract or repair work. The report includes particulars relating to establishments whose products are of such a mixed character that they cannot be allocated elsewhere among the mechanical engineering group of industries. The industry corresponds to minimum list heading 349 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry formed part of Industries 4I (Mechanical Engineering (General)) and 4J (Mechanical Engineering (Repairing)) in the reports on the last detailed Census of Production, for 1954. For 1958, the mechanical engineering industries have been reclassified and most of the machinery formerly included in Industry 4I is now included in the report on Miscellaneous (Non-electrical) Machinery (Part 50). In addition, certain other classes of machinery, formerly included in Industry 4I, are now the subject of separate reports as follows:- Agricultural Machinery (except Tractors) (Part 42); Industrial Engines (Part 45); Contractors' Plant and Quarrying Machinery (Part 47); Office Machinery (Part 49); and Industrial Plant and Steelwork (Part 51). Other items, formerly included in Industry 4I, are now reported on as follows:- detachable tools for rock drilling machinery in the report on Engineers' Small Tools and Gauges (Part 44); dictating machines in the report on Radio and Other Electronic Apparatus (Part 59); automatic wire-working machinery in the report on Metal-working Machine Tools (Part 43); ordnance in the report on Ordnance and Small Arms (Part 52) and the installation of air conditioning, heating and ventilating plant in the report on Construction (Part 128). Particulars relating to railway brake gear, formerly reported on in Industry 3L (Railway Locomotive Shops and Locomotive Manufacturing) are now included in this report.

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.

In the 1958 Census reports a distinction is made between parts sold in association with the sale of complete machines, and other parts sold. Parts sold other than in association with the sale of complete machines are treated as principal products of this industry and are shown in Table 4 whether included on returns classified to this or to other industries; where the return was classified to another industry, these parts are also shown in Table 5.

Parts included on returns which also showed sales of the complete machines are treated as principal products of the mechanical engineering industry to which the manufacture of the complete machines is classified. The reports on these industries are published as part numbers 42, 43, 45, 46, 47, 48, 49, 50 and 51. Each of these reports contains an additional table, 9, in which sales of all parts of the machines covered by the report are brought together.

TREATMENT OF PARTS

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 (in which case the return was classified to this industry) or where the return would otherwise have been classified outside the mechanical engineering group of industries. Sales of merchanted products and of non-specific items such as waste products and canteen takings were also 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 products which define the sub-divisions, other items of output assumed to be closely related to them, e.g. waste products, but such items were not generally taken into account in determining the classification to sub-divisions.

LIST OF TABLES

Table No.	Title		Page
1	Industry summary: United Kingdom. Estimates for all firms		53/3
2	Analysis by sub-divisions of the industry		53/4
3	Analysis by size of enterprise within the industry, 1958		53/6
4	Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries		53/7
5	Sales of principal products of the industry by establishments classified to other industries		53/10
6 6	Sales of other than principal products by larger firms in the industry		53/12
7	Total make of intermediate products, 1958	Does	not app
8	Employment and salaries, etc. for the week ended October 25, 1958		53/14

	GENERAL MECH
	Industry summ
BLE 1	Estimates
(a) resaucas	- Star di se sa se re ibreuß
er of enterprises	
er of establishments	
100	goods produced and w
1 1845 SAR	lmerchanted goods and
hases of materials an	d fuel (b)
ucts on hand	Schange during year
sale (b)	lat end of year
in progress	∫change during year
	lat end of year
ks of materials	{change during year
fuel (b)	lat end of year
ents for work done on	materials given out
ents for transport	
output	
	operatives
nge number loyed (c)	other employees
	(total, including work
s and salaries	{of operatives
	lof other employees
tal expenditure (d) v building work	
Building work	(
ant and machinery	acquisitions disposals
	1884 48 996 29
nicles	acquisitions disposals
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(arshosars
For 1958, estimates	in respect of returns of the total figures in
at pos centi	

 (a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 17 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.
 (b) Code for percentioned end of the detailed in the total figures in the detailed in the total figures.

(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.

(94501)

TA

Num

Num

Sale

Purc

Prod

Work

Stoc

and

Pays

Paym

Net

Aver

Wage

Capi

PI

ANICAL ENGINEERING

mary: United Kingdom

for all firms (a)

Unit	1954	1958
No.	••	3,891
	•••	4,061
£.000	224,130	318,775
		15,666
	82,057	143,49].
	+ 154	+ 1.619
	11,181	18,453
	+ 337	+ 1.815
	20,466	35,207
	- 41	+ 1,359
	18,644	29,556
	5,784	6,228
	1,774	2.753
	134,965	186,761
Th.	131.9	144.6
	33.1	41.8
	166.0	187.4
£.000	60,690	84,333
	19,897	30,755
	1 22 Mar	
	2,745	4,256
	8,461	14,928
	512	743
	873	1,395
	233	492
	No. £'000 	No. £'000 224,130 82,057 + 154 11,181 + 337 20,466 41 18,644 5,784 1,774 134,965 Th. 131.9 33.1 166.0 £'000 60,690 19,897 2,745 8,461 512

Analysis by sub-divisions

Sub-divisions of the indust:

of the industry

<th best="" column="" development="" of="" second="" th="" the="" the<="" with=""><th>Firms</th><th>employing</th><th>25 or mor</th><th>e</th><th>persons:</th><th>United Kin</th><th>gdom (a)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th>Firms</th> <th>employing</th> <th>25 or mor</th> <th>e</th> <th>persons:</th> <th>United Kin</th> <th>gdom (a)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Firms	employing	25 or mor	e	persons:	United Kin	gdom (a)							
beliefly or reserver, all bit or reserver, all part or any all of the second or any all of the second and all of the second and all of the second all of	the indus	try (b)	and a second		The weat	the second and	Sub-di	visions of	the industr	ry (b)	10	Casedon .	area	radace ago	
1556 1954 1955 153 124	chains	mainly on and dev wo	research velopment ork		jobb	jobbers		rade	components and parts for sale		engine	eering	То	tal	
5 6 7 128 122 166 135 140 165 502 315 805 755 8 6 6 6 6 6 6 351 144 187 146 160 188 360 365 1,121 909 8,718 477 2,073 14,194 12,355 11,977 18,346 19,539 36,933 102,980 144,583 196,223 264,853 124 7 3,006 429 1,572 4,365 105,231 143,583 8,979 25,660 75,754 109,973 2,023 66 606 4,433 7,422 2,128 4,377 7,754 18,464 40,97 65,241 68,181 115,227 - 21 640 133 317 713 1,576 4,493 7,211 8,332 22 45 212 464 133 317 1,314 4,497 10 - 34 1,123 1,313	10 59	1			272 1 4	No. 20. 10 Control State	State of the second	DEVE .	8.5.5	180.0	-0.11	131,62 1	1054	10.59	
66683511451971461601883803801,1219951,1411,1,041,2,351,1,07715,34619,53935,393102,300144,583186,223264,8651,12473,0664281,5724,36613,0178,0234771,3544,0337,4222,1294,3777,75618,66655,734109,973119,22727,7618,66630,30775,754109,97313,31777,75618,66656,2375,24165,1215,321376713,3171,3584,443.7,2315,23115,32241,12117,00529,2411,1311,1211,1051,1311,1211,1051,1211,1051,1311,1211,1211,121	Devent in the Part														
1 477 2,075 14,144 12,355 11,077 16,346 18,539 36,933 102,369 144,589 186,229 24,869 124 7 1,954 10,954 10,956 10,233 14,958 8,979 26,660 75,754 109,973 1 3,020 666 666 4,033 7,422 2,129 4,377 7,756 18,646 40,397 65,241 65,181 119,227 - 2 - - - 12,966 10,233 14,939 1,353 4,433 7,223 64,033 7,222 2,129 4,377 7,756 18,646 40,397 65,241 65,311 1,532 - 7 - 7 - 7 - 7 - 7 - 7 11,315 4,433 7,223 4,43 7,224 4,431 7,224 4,433 7,224 4,431 7,424 7,44 1,434 14,477 17,005 2,22,54 - 7 + 7 7 5					TOR I.	23 3 1 2	12 0 1 3	na l-	110 0	ALLAY IN		ADA 25		The second second	
12473.0664281.5724.30613.0173.203666664.02314.9588.97925.66075.75.4105.9731-2712.44510.96610.23314.9588.97925.66075.75.4105.9731-2715 $^+$ 00-7 $^+$ 76-52 $^+$ 55 $^+$ 301 $^+$ 128 $^+$ 1,34587612966013331771.31.5764.4937.2519.29115.932+40+20+35-3-98-152+91+1.30+1.345+660+260+28.9+1.583-74.51-2-14-592.6516.0651.0714.97117.0022.254-7+2+4.649.57410.6451.7551.7551.7551.2713.214.97110-34+1.1521.03-3374402764905541.1426742.6443.0074.6665.17580-913412365132177623.96701.3641.7422.2871.4421.511.511.3451.		1212 142	A start has				10 5	at a l	2 49	100 m	n ni	202 00		1 000 0	
3.202 477 $1.9.54$ $1.2.445$ 10.666 10.233 14.958 6.979 25.660 75.754 109.973 109.973 109.973 3.202 66 606 4.023 7.422 2.129 4.377 7.756 18.646 40.397 65.241 66.161 119.227 -27 $ +$ 15 $+$ 0 $ 7$ $+$ 76 $ 52$ $+$ 55 $+$ 301 $+$ 135 $+$ 128 $+$ 1.345 676 -20 $+$ 35 -3 -98 -132 $+310$ $+1.365$ $+6.166$ $+5.000$ $+2.20$ $+1.558$ 726 45 212 -43 -531 922 939 2.651 6.106 9.137 14.971 17.005 29.294 -71 $+22$ $+46$ -22 -14 -539 $+26$ -114 $+1.145$ $+437$ $+10$ -34 $+1.129$ 1.315 25 136 -949 1.022 392 554 2.104 5.170 6.222 11.541 24.59 1.315 25 136 -949 1.022 392 554 1.142 674 2.694 3.007 4.666 5.175 1.44 254 476 60.099 112.142 15.171 1.561 1.957 1.964 2.164 4.613 8.999 27.611 3.697 1.444 254 476 <t< td=""><td></td><td></td><td></td><td></td><td>1.025</td><td>100 S</td><td>10</td><td>2.19</td><td>1.03</td><td>103.0</td><td>1011000</td><td>8,25</td><td>11 1 12</td><td>101,000</td></t<>					1.025	100 S	10	2.19	1.03	103.0	1011000	8,25	11 1 12	101,000	
3.202 66 666 $4,023$ $7,422$ $2,129$ $4,377$ $7,756$ $18,646$ $40,377$ $65,241$ $66,181$ $119,227$ -27 $ -$ <	124	••	7		120.1.	3,006	1.1 1	428	•• 1.57	1.572	ie.a ••	4, 306	1	13,017	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8,023	477	1,954		12, 445	10, 966	10,233	14,958	8,979	26,660	75,754	109,973		83.4 - 0	
876 121 640 133 317 713 $1,576$ $4,433$ $7,251$ $5,291$ $15,322$ 728 45 212 $+35$ -33 -98 -132 $+91$ $+130$ $+1,345$ $+666$ $+600$ $+280$ $+1,566$ 728 455 212 -46 -59 -22 -14 -59 $+26$ -114 $+1,145$ $+437$ $+10$ -34 $+1,129$ $1,315$ 225 136 944 $1,022$ 362 543 $2,104$ $5,170$ $6,212$ $11,544$ $15,491$ $24,558$ 103 $ 337$ 226 449 564 $1,142$ 674 $2,694$ $3,007$ $4,806$ $5,175$ 80 $ 9$ $3,177$ $7,526$ $9,076$ $11,894$ $10,428$ $21,401$ $5,774$ $80,099$ $112,142$ $125,79$ $4,020$ 263 425 $1,716$ $1,756$ $1,984$ $10,428$ $21,401$ $5,774$ $80,099$ $112,142$ $125,79$ $1,444$ 254 476 766 $1,975$ $1,984$ $10,428$ $21,401$ $5,752$ $100,115$ $127,792$ $1,444$ 254 476 $12,215$ $17,16$ $1,756$ $1,983$ $2,614$ $4,618$ $14,663$ $10,989$ $27,681$ $34,886$ $1,442$ 237 $1,716$ $1,727$ $1,966$ $4,715$ $9,378$ $25,680$ $36,971$ $50,680$ $70,424$	3,202	66	606		4,023	7.422	2,129	4,377	7,756	18,646	40,397	65,241	68,181	119.227	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- 27	fas sort	ataonessi		+ 15	+ 90	- 7	+ 76	- 52	+ 55	+ 301	+ 195	+ 128	+ 1.345	
7281.57.67	876	alaban ada	no liden lit		219	6 40	133	317	713	1, 578	4, 493	7.251	9,291	15,332	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 40	+ 20 .	+ 35		- 3	- 98	- 152	+ 91	+ 130	+ 1,345	+ 606	+ 600	+ 280	+ 1.508	
1,315 25 136 949 1,022 362 543 2,104 5,170 8,212 11,594 15,491 24,558 103 - 337 240 276 490 564 1,142 674 2,694 3,007 4,806 5,175 80 - 5 134 123 65 132 176 323 870 1,348 1,474 2,287 5,400 432 1,215 9,717 7,528 9,076 11,894 10,428 21,401 59,764 80,099 112,142 155,179 4,020 263 425 12,709 7,136 9,572 9,730 10,455 16,336 54,463 62,697 110,115 12,0760 1,444 254 478 15,011 8,866 11,342 11,727 13,060 21,169 69,157 81,710 137,921 155,725 986 836 1,345 647 847 800 1,014 797 1,011 864 960 613 966 2,152 142	728	45	212		491	531	922	939	2,651	6,106	9,137	14,971	17,005	29,254	
103 - 337 240 276 490 564 1,142 674 2,694 3,007 4,006 5,175 80 - 9 134 123 65 132 176 329 870 1,348 1,474 2,287 5,400 432 1,215 9,717 7,528 9,076 11,894 10,428 21,401 99,764 80,099 112,142 155,179 4,020 283 425 12,709 7,136 9,572 9,730 10,455 16,336 54,463 62,697 10,115 120,760 1,444 254 478 15,011 8,866 11,342 11,727 13,080 21,169 69,157 81,710 137,921 155,725 988 836 1,345 647 847 800 1,014 797 1,011 864 980 813 996 2,152 142 287 5,431 4,312 4,551 5,856 4,715 9,378 25,680 36,971 50,680 70,424 1,161	- 71	+ 2	+ 46		- 2	- 14	- 59	+ 26	- 114	+ 1,145	+ 437	+ 10	- 34	+ 1,129	
80 $ 9$ 134 123 65 132 176 329 170 1.348 1.474 2.287 5.400 432 1.215 9.717 7.528 9.076 11.894 10.428 21.401 59.764 80.099 112.142 155.179 4.020 263 425 12.709 7.136 9.572 9.730 10.455 16.336 54.463 62.697 110.115 120.760 1.444 254 478 2.235 1.716 1.756 1.983 2.614 4.618 14.663 18.999 27.681 34.886 $5,464$ 517 903 15.011 8.886 11.342 11.727 13.080 21.168 69.157 81.710 137.921 155.725 988 836 1.345 647 847 800 1.014 797 1.011 864 980 813 996 2.152 142 287 5.431 4.312 4.551 5.856 4.715 9.378 25.680 36.971 50.680 70.424 1.161 150 409 1.178 1.277 1.074 1.702 1.634 3.655 9.027 14.156 16.615 25.682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616	1,315	25	136		949	1,022	362	543	2,104	5,170	8,212	11, 594	15,491	24,558	
5.4004321.2159.7177.5289.07611.89410.42821.40150.76480.099112.142155.1794.02026342512.7097.1369.5729.73010.45516.33654.46362.697110.115120.7601.4442544782.2351.7161.7561.9832.6144.81814.66318.99927.68134.8885.46451790315.0118.88611.34211.72713.08021.16969.15781.710137.921155.7259888361.3456478478001.0147971.0118649808139962.1521422875.4314.3124.5515.8564.7159.37825.68036.97150.68070.4241.1611504091.1781.2771.0741.7021.6343.6559.02714.15616.61525.682535539674427604475602451574472590460583804590856527744611858625759616745600736285313175821791611066038841.5001.7343.4581.31315383123744811.0241.0602.2623.3915.3516.88612.389634	103	-	337		240	276	490	564	1,142	674	2,694	3,007	4,806	5,175	
4.020 263 425 12.709 7.136 9.572 9.730 10.455 16.336 54.463 62.697 110.115 120.760 1.444 254 478 2.235 1.716 1.756 1.983 2.614 4.818 14.663 18.999 27.681 34.888 5.464 517 903 15.011 8.866 11.342 11.727 13.080 21.169 69.157 81.710 137.921 155.725 988 836 1.345 647 847 800 1.014 797 1.011 864 980 813 996 2.152 142 287 5.431 4.312 4.551 5.856 4.715 9.378 25.680 36.971 50.680 70.424 1.161 150 409 1.178 1.277 1.074 1.702 1.634 3.655 9.027 14.156 16.615 25.682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1.500 1.734 3.458 1.313 15 38 312 374 481 1.024 1.060 2.262 3.91 5.351 <t< td=""><td>80</td><td>- 100 - 100</td><td>9</td><td></td><td>134</td><td>1 23</td><td>65</td><td>132</td><td>176</td><td>329</td><td>870</td><td>1,348</td><td>1,474</td><td>2,287</td></t<>	80	- 100 - 100	9		134	1 23	65	132	176	329	870	1,348	1,474	2,287	
1,444 254 478 2,235 1,716 1,756 1,983 2,614 4,818 14,663 18,999 27,681 34,888 5,464 517 903 15,011 8,886 11,342 11,727 13,080 21,169 69,157 81,710 137,921 155,725 988 836 1,345 647 847 800 1,014 797 1,011 864 980 813 996 2,152 142 287 5,431 4,312 4,551 5,856 4,715 9,378 25,680 36,971 50,680 70,424 1,161 150 409 1,178 1,277 1,074 1,702 1,634 3,655 9,027 14,156 16,615 25,682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 1	5,400	432	1,215		9,717	7,528	9,076	11.894	10,428	21,401	59,764	80,099	112,142	155,179	
5,464 517 903 15,011 8,886 11,342 11,727 13,080 21,169 69,157 81,710 137,921 155,725 988 836 1,345 647 847 800 1,014 797 1,011 864 980 813 996 2,152 142 287 5,431 4,312 4,551 5,856 4,715 9,378 25,680 36,971 50,680 70,424 1,161 150 409 1,178 1,277 1,074 1,702 1,634 3,655 9,027 14,156 15,615 25,682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1,500 1,734 3,458 1,313 15 38 312<	4.020	263	425		12,709	7.136	9,572	9,730	10,455	16,336	54,463	62,697	110,115	120,760	
988 836 1,345 647 847 800 1,014 797 1,011 864 980 813 996 2.152 142 287 5,431 4,312 4,551 5,856 4,715 9,378 25,680 36,971 50,680 70,424 1,161 150 409 1,178 1,277 1,074 1,702 1,634 3,655 9,027 14,156 16,615 25,682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1,500 1,734 3,458 1,313 15 38 312 374 481 1,024 1,060 2,262 3,391	1.444	254	478		2,235	1,716	1,756	1,983	2,614	4,818	14,663	18,999	27,681	34,888	
988 836 1,345 647 847 800 1,014 797 1,011 864 980 813 996 2.152 142 287 5,431 4,312 4,551 5,856 4,715 9,378 25,680 36,971 50,680 70,424 1,161 150 409 1,178 1,277 1,074 1,702 1,634 3,655 9,027 14,156 16,615 25,682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1,500 1,734 3,458 1,313 15 38 312 374 481 1,024 1,060 2,262 3,391	5 464	517	0.02		15 011	0 000	11 242	11 707	12 090	01.100	00.157		107 001		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$									-						
1.161 150 409 1.178 1.277 1.074 1.702 1.634 3.655 9.027 14.156 16.615 25.682 535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1.500 1.734 3.458 1.313 15 38 312 374 481 1.024 1.060 2.262 3.391 5.351 6.886 12.389 63 4 $ 18$ 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1.153					1						1000				
535 539 674 427 604 475 602 451 574 472 590 460 583 804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1.500 1.734 3.458 1.313 15 38 312 374 481 1.024 1.060 2.262 3.391 5.351 6.886 12.389 63 4 - 18 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1.153									1. 1						
804 590 856 527 744 611 858 625 759 616 745 600 736 285 3 13 175 82 179 161 106 603 884 1,500 1,734 3,458 1.313 15 38 312 374 481 1,024 1,060 2,262 3,391 5,351 6,886 12,389 63 4 - 18 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1,153	0	mes R.E. Fran	PER DI TRA				1.000.000	188.83							
285 3 13 175 82 179 161 106 603 884 1.500 1.734 3.458 1.313 15 38 312 374 481 1.024 1.060 2.262 3.391 5.351 6.886 12.389 63 4 - 18 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1.153	算体的上出成成为	de tot ab	中口出 人道声:			20日本11日7日 (1		254 1.6	in the second	a state a state	A TRUE TO	12 61 10 200		19. 19.	
1.313 15 38 312 374 481 1.024 1.060 2.262 3.391 5.351 6.886 12.389 63 4 - 18 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1.153	004	290	8 30		527	/44	611	8 58	625	7 59	616	745	600	7 36	
1.313 15 38 312 374 481 1.024 1.060 2.262 3.391 5.351 6.886 12.389 63 4 - 18 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1.153	00.5				175			232, 14 4, 55	-		3. 249	anis selone		No. 10	
63 4 - 18 23 44 95 130 174 194 209 425 617 85 8 11 119 126 67 160 77 150 355 525 721 1,153			The second second			S.S. Bernikk	1 Stringer	And the second second	225 GHRHS					a should be the second	
85 8 11 119 126 67 160 77 150 355 525 721 1,153			38			a tan a success	and want	a consider and	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and an in the	and the second se	an and a liter of		Line Provide and land	
						Sharper the	THE REAL PROPERTY	1440 T 1949	the open to	and a second second	i a hand the first	A STATE DALLAS IN			
20 (g) 4 37 41 19 66 24 55 89 197 194 408						et e under state of	Sector addition	1				and a start of the start of the		and the second sec	
	20	(g)	4		37	41	19	66	24	55	89	197	194	408	

TA	ABLE	2

53/4

Ball and roller Precision chains Unit bearings 20 10 1954 1954 19 58 1958 No. 14 16 9 5 Number of enterprises (c) Number of establishments 27 28 10 8 .. £' 000 29,971 43,844 7,781 8,718 (goods produced and work done Sales merchanted goods and canteen 3, 57 5 124 takings Sales of characteristic products 28,929 42, 537 7,152 8,023 .. 2,466 Purchases of materials and fuel (d) 11,345 19.7 33 3,202 Products on hand f change during year 94 955 223 27 .. for sale (d) lat end of year 3,184 4,670 549 876 353 505 34 40 Change during year -.. Work in progress 5,767 at end of year 3, 247 511 728 .. 167 14 Stocks of (change during year 132 71 -.. materials and 4,778 fuel (d) lat end of year 2,919 919 1,315 -Payments for work done on materials given out 182 214 58 103 .. Payments for transport 155 267 75 80 .. 17,863 Net output 27,642 4,862 5,400 .. No. 18,576 roperatives 20,416 4.077 4.020 other employees 4.747 Average number 5,450 1,412 1.444 employed (e) total, including working proprietors 23, 325 25,866 5,489 5,464 .. Net output per person employed £ 766 1,069 988 886 £'000 fof operatives 8,255 11,468 1,906 2,152 Wages and salaries of other employees 2.461 3, 323 1,092 1,161 .. £ Wages and [operatives 444 562 468 535 salaries (other employees 518 per head 610 773 804 .. Capital expenditure (f) New building work £* 000 270 814 117 285 acquisitions 1,187 2,026 441 1,313 Plant and .. machinery disposals 25 53 10 63 .. (acquisitions 61 97 33 85 .. Vehicles disposals 16 25 (g) 20 ...

For footnotes to the table, see next page

Analysis by size of enterprise within the industry, 1958

TABLE 3			Firms emplo	oying 25 or	more person	s: Unite	d Kingdom	(6)、北部省的省)	語言なども可以見	Catholic Look
Average number employed by the enterprise	Enter-	Estab- lish-	Total	Net	Emplo	yees	Wages and	salaries	Capital	Net out- put per
in this industry (a)	prises	ments	sales (b)	ou tpu t	Operatives	Others	Operatives	Others	expendi- ture (c)	person employed (a)
	Number	Number	£'000	£,000	Number	Number	£,000	£,000	£,000	£
25 • 49	328	338	19,111	11,545	9,582	2.247	5,639	1,818	1,110	972
50 - 99	223	237	24,831	14,219	12,022	2,962	6,744	2,347	1,196	947
100 - 199	96	130	25,498	14,254	10,143	3,217	6,002	2,527	1,232	1.067
200 - 299	40	43	20,898	11,046	7,228	2,495	4,103	1,881	1,192	1,136
300 - 399	13	22	8,259	4,592	3,436	1,035	2,166	805	307	1.027
400 - 499	13	15	11,282	5,963	4,210	1,574	2,504	1,128	298	1,031
500 - 749	24	38	26,263	14,443	11,457	3,498	6.744	2,620	1,325	966
750 - 999	5	6	9,490	4,128	3,339	1,060	2,233	729	1,232	938
1,000 - 1,499	5	13	13,546	6,958	4,722	1,288	2,822	909	1,007	1,158
1,500 - 1,999	3	5	6,884	3,697	3,948	1,182	2,355	8 47	1,137	721
2,000 - 2,499	5	17	18,243	11,288	9,140	2,400	4,918	1.764	610	978
2.500 - 3.999	3	12	16,104	9,202	6,253	2,527	3,886	1,981	482	1.048
5,000 and over	7	33	77.477	43,844	35,280	9,403	20,308	6,328	5,873	981
Total	765	909	277,886	155,179	120,760	34,888	70,424	25,682	17,001	996

(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.

Footnotes to Table 2

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

1958 3,065

25,140

Number of returns Average number of persons working proprietors	employed	including	
Males Females			

4,556 (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 merchanting and canteen supplies are included for 1958 but excluded for 1954.
(a) Persons encoded in merchanting or factoring and conteen workers are included for 1958 but excluded.

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

(f) Excluding expenditure at establishments not yet in production.
(g) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

ndus try	000'3 000'3	1	1954 1958				
sub- ivision (a)	Remainstration parts of writer wetter	Quantity	Value	Quantity	Value	Enter- prises	Entries
80	Bearings and parts thereof		£,000	and inqui a	£,000	Number	Number
10	Ball and roller bearings and parts		7,185		13,144	1.4.9	
10	thereof (excluding non-precision balls)	18.0	28,459		41,976	36	40
35	Other bearings (e.g. plain) and bushes		9,562		13,004	39	42
35	Burners			8.6	AND I	P See an	1780
42	Oil fuel burning equipment		2,961	in .souit pai	6,226	54	57
	Other	. sob : sT	5 27		274	15	17
20	Chains			A notical a	uwar haa s	Pressur	3.5
12	Steel transmission			aleeds	and polley	Paliers	3.5
11	Roller type		(d) 10	ep ederd evis	and losses	Railway	35
	Up to and including 0.625 in. pitch		100	Last	a zo dori i	a elfost	3.4g
	Not over 0.2 in. width between plates	anor.di	1,115	ailin	688	207	
88	Over 0.2 in. width between plates	43.7	2,341		2,788	1000	
41	Over 0.625 in. pitch	1. 21.7	2,375		2,718	7	10
51	Other than roller type		266		296	10	12
18	Precision chains, other than transmission	0.8	paison lo	iker than abt	o systematics	For a	
	chains		739	aranbauq•beil	968		
484	Transmission chains of iron		440		1,136	5	5
35	Cylinder liners and inserts	Th. 1,341	1,085	Th. 2,020	1,838	6	10
35	Filters, other than water filters and	and the state	1	a second and a site		in a second	
	filter presses	of mercury a	Has be enco	1	analization of	States and	
(b) 50 (-) No H	0i1 {	225	255 882	}	3,705	20	21
(di Devi	Other	87.7	528	81.0	601	7 20	21
	The standard in the second method is a second secon	ne sette og	81 2		994	J 20	21
35	Gaskets and jointings including metallic packings (b)		4,693	aloot shide	4,609	16	17
35	Gears and gear wheels	199 a. a.		D	alpise (15)7:	t a patrice T	
	For vehicles	···	1,246	+	4,739	+ 22	25
	Other than for vehicles		8,315	e dad qudery	12,836	98	105
	Unclassified		1,247	treasin's pa	4,578	29	31
35	Lubricators and parts other than of			and an he for	erenidane	02566.60	
	railway wagon, etc. axle boxes not elsewhere specified (b)		1,438		2,383	10	10
35	Mechanical power transmission plant not				rmig inte	-	
	elsewhere specified		2 660		6 074		
	Complete Parts		3,660		6,374 2,015	33	24

GENERAL MECHANICAL ENGINEERING

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

53/8

Industry

sub-division (a)

...

GENERAL MECHANICAL ENGINEERING

1958

Value

£.000

Quantity

Enter-prises Entries

Number Number

TABLE 4(c

contd.)		
d to orthor analysistics	19	54
	Quantity	Value
	A martine and a second	£'000
oulds, metal (other than moulds and dies for use with metal-working machine tools	Quanta and	

35	Moulds, metal (other than moulds and dies for use with metal-working machine tools or for diecasting, moulds for use in			appendet vez	Catheres		
	civil engineering, and ingot moulds and bottoms)		1,283	Brodein da	1,533	37	37
		Th.tons		Th.tons		5	
35	Moulding boxes and parts thereof	3.2	384 {	2.6	450 65	} 7	7
35	Oil seals		2, 491	Autoig.pla	3,544	13	13
35	Pistons		5,224		7.212	11	15
35	Piston rings, packing rings, etc.	••	4,352	i panao si a pa	4,254	21	26
	537 3774 15	Th.doz.		Th.doz.		CREAS	
35	Pressure and vacuum gauges 🗸 🗧 🗧	138	1,186 543	238	2,143 907	} 45	47
35	Pulleys and pulley wheels		1,288		1,432	34	34
35	Railway and locomotive brake gear (b)		2,685		6,089	10	11
35	Rolls of iron or steel		doting the s	20.6 pulleds	al hear all q		
	For metal rolling mills	Th.tons	Bill a best mile:	Th.tons	Nor th Breeze C	and an	
	Cast iron	43.7	4,016	41.6	5,065	23	26
	Cast steel	21.7	2,619	38.6	5,355	17	19
	Forged steel		(c)	5.5	1,736	14	15
	For machinery, other than metal working	6.0	588	8.3	1,176	28	31
35	Other and unclassified products of the industry		17,948	n Seen takin	29,653	402	444
35	Plant and machinery unclassified			ADAL DE SUL	nad "Boand In	a ngang Janaman	
	Complete	Lat , L	798	ndrenari d	5,931	58	65
	Parts		499	a las restor o	2,149	33	38
34	Parts not elsewhere specified sold other than in association with the sale of complete machines (d)				新市业工作 工作	110	
	Agricultural machinery other than tractors	••	1,837	in an er en an in	4,404	74	116
	Metal working machine tools		932	anpillati aba	1,086	66	67
	Industrial engines	••	1,679		6,296	54	61
	Textile machinery		986		2,898	74	86
	Contractors' plant and quarrying machinery		1,465	the second	5,406	105	143
	Mechanical handling equipment	••	642	••	2,932	110	150
	Office machinery	••	229	6 (hi.) 1.	1,293	16	24
	Other machinery		6,385	id) by	18,479	264	530
	Industrial plant	••	2,621	ESTRE MERCET	8,537	143	236
			and a star star and the second star and the star			CARL PROPERTY OF THE PARTY OF T	a show one we we we we we

.

Indus try sub-	A CARLER AND A CARLE	19	54		1958		
division (a)	kas: United Lingdom	Quantity	Value	Quantity	Value	Enter- prises	
35	Non-electrical parts of motor vehicle		£,000	\$* 000	£,000	Number	Number
So bate	engines (b)	•••	8,361	••••	6,290	21	21
35	Other non-electrical parts of internal combustion reciprocating engines	000 '34	7,181	78	13,125	15	16
cobar 4	Waste products sold	Th.tons 106	526	Th.tons 103	765	6	t i sit
Padon Sa	Iron and steel scrap	82.E ···	114		330	354	372
Elbedd o Codl	Brass scrap	3.7	547 126	3.6	443 158	} 169	172
PATES	Copper scrap	••••	58		51	58	61
Sar (88)	Other scrap metals	694	780	••	821	140	145
n maines Philase	Other	** 53.6	54	••	48	43	44
35	Machinery and plant erected and installed and other installation work (excluding marine machinery and air conditioning,		100	und other	aojastasjon Ež ki	frate and and	anto (C) de esta de
31	heating and ventilation plant)		109	arri[2]113	2,395	32	32
31	Research and development work done for customers (including Gevernment Departments)		1,362	1,050	2, 329	32	33
32	Repair and jobbing work		39,534	and a	48,816	1,230	1,350
33	Other work done on commission, etc.	存1的。よ	37,342	1. pintes	38,265	681	733
20	Total		234,305		358,611	noeba	
Chart	Sales in other industries (see Table 5)	1947 1229	80,533	ter product and States and the	1 29, 292		e lanut
Cadear	Principal products of this industry sold by establishments in the industry		153,772	anala noi	229,319	765	8100
st (b) So (c) No (d) De	e number given is that of the sub-division of ales shown are total sales by larger firms, ub-division. far as recorded separately. t recorded separately. tails of these parts are given in Table 9 at f the complete machines.	not merely	item is a cl sales by esta	iblishments o	c product. classified	The to the tion	810
(e) Thi	is figure represents the total number of ret ess than the total number of establishments overing more than one establishment.	urns made b shown in Ta	y larger firm ble 2 on acco	ount of combi	ined return	8	

GENERAL MECHANICAL ENGINEERING

53/9

Sales of principal products of the industry by establishments classified to other industries

	19	54		1958					
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a			
		£'000	Engrada	£,000	Number	alaan Tiddo aa			
Bearings and parts thereof	101.9.1	Ch. Street	6.00.	ions palin	rocipted	acticudesoo			
Ball and roller bearings and parts	888	anna . aT			pina adb	Raste produ			
thereof (excluding non-precision balls)	611	158		138	14	46, 50, 52, 63			
Other bearings (e.g. plain) and	5.67	N. R.	Ben and		1.2298	Breau apre			
bushes		831		810	16	41, 42, 45, 50			
Burners					and a start	and souther			
Oil fuel burning equipment		769		1,929	38	50, 51, 59, 63			
Other	•••	515		155		40, 50, 51, 75			
Chains, steel transmission and other		140	interesting	100		40 50 51 50			
precision chains	601	148	10 000 • • • 00 C •	126	9	48, 50, 51, 63			
Tilters, other than water filters and filter presses			ini ensi	show task	pleveb b	ii Busearch at			
Oil	289.1	533		2,020	13	50, 61, 63, 71			
Other	123.634	501		526	13	45, 50, 51, 62			
askets and jointings including	27, 343		-1.12 .52 H	. no ise immo	ad each	Stor ratio			
metallic packings		1,316		1,376	7	51, 63, 89, 127			
ears and gear wheels	204.902	1,371		5,631	64	51, 56, 63, 65			
ubricators and parts other than of railway wagon, etc. axle boxes not	80.553		CANAL ANT	and an inter		a allering			
elsewhere specified	••	129		177		41, 50			
echanical power transmission plant	159,772		VIII VIII	who: and a	i agusada	lidatag ti			
not elsewhere specified	n r. n.t. 2003 ž	237	a no tala th-di	739	12	43, 48, 50, 75			
Complete	tee ya sala)	a Arecemica	.uarli repr	il yd abipa	18	2 1140 25 4 年 1 25 8			
Parts		222		474	10	43, 48, 51, 54			
oulds, metal (other than moulds and dies for use with metal-working	ciación equ	to bes edi :	n Table 5 of	devip eth	er porte	(d) Details of the			
machine tools or for diecasting, moulds for use in civil engineering,	targer fil	nine sode By	ion 3 on 1 octum	the lotel	12458834	a arabi sidi (a)			
and ingot moulds and bottoms) including moulding boxes and parts	and the state	and the survey	. 2 10 0 2 10 0 1 20 0 2	daidao reda	ano) doku	tion officers			
thereof		438		209	20	44, 50, 52, 126			
il seals		102		21	e. #61	50, 63, 121			
Pistons, piston rings, packing rings, etc.		324		613	14	45, 47, 51, 63			
	Th.doz.		Th.doz.		3.400	1.18			
Pressure and vacuum gauges	53.7	471 148	43.1	479 393	} 33	44, 50, 54, 75			
diffue sanksings			22.5	263	19	42, 48, 50, 52			
ulleys and pulley wheels	••	275	1	203	15	42, 40, 30, 32			
olls of iron or steel			1.345		8,532	and the			
For metal rolling mills	Th.tons		Th.tons						
Cast iron	10.2	977	10.2	1,277	13	38, 40, 43, 50			
Cast steel	4.3	1,012	6.4	1,994	14	38, 40, 44, 50			
Forged steel		(b)	5.4	1,734		38, 40, 43, 50			

TABLE 5	(contd.)
---------	----------

	1954		1958			
1938	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Rolls of iron or steel (contd.)	Th.tons	£, 000	Th.tons	£, 000	Number	
For machinery, other than metal { working	2.8	205 24	4.2	477 75	} 24	38, 40, 50, 56
Railway and locomotive brake gear]	ſ		3, 531	9	51, 56, 63, 66
Other and unclassified products of the industry	}	6.745		14,226	205	50, 62, 63, 71
Plant and machinery unclassified				Lange and the second		
Complete		706		3,990	52	45, 50, 59, 60
Parts		576		2,514	31	31, 59, 60, 67
Parts not elsewhere specified sold other than in association with the sale of complete machines (c)	ad per la			nagan kan ng n	e suitenu 21 suite sui	
Agricultural machinery other than tractors		513		2,534	62	50, 51, 63, 68
Metal-working machine tools		368		431	37	50, 51, 70, 75
Industrial engines		1,219		1,065	35	44, 45, 50, 51
Textile machinery		226		635	46	46, 50, 51, 75
Contractors' plant and quarrying machinery	••	440		1,408	80	38, 50, 51, 52
Mechanical handling equipment		402	in an	2,028	108	50, 51, 72, 75
Office machinery		57	here .	348	13	44, 50, 56, 75
Other machinery	••	2,047		7,758	270	50, 51, 60, 75
Industrial plant		1,431		5,488	141	43, 48, 50, 51
Non-electrical parts of motor vehicle engines	••	2,885		4,148	12	43, 50, 63, 65
Other non-electrical parts of internal combustion reciprocating engines		708	e stantis	745	5	43, 63, 71, 78
Repair and jobbing work		25,813		35,632	1,063	46, 48, 50, 51
lesearch and development work done for customers (including Government Departments)		872	1	inter here an	tinan kina utinan ba	
ther work done on commission, etc.		24,818	5	21,173	489	44, 50, 51, 52
Total		80,533	had termulat	129,292	a a a la la la la la la	Part Lan Alla Appart

(a) The references given are to the list of industries at the back of this report.
(b) Not recorded separately.
(c) Details of these parts are given in Table 9 at the end of the reports relating to the production of the complete machines.

(94501)

GENERAL MECHANICAL ENGINEERING

53/11

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

TA	DIF	6	1000	td.)
10		0		LU.)

quantity Value Entries industries in	-auticri]	.954	1958	
	Quantity	Value	Quantity	Value
(canetters)	- Markenski	£,000	· pitteri · Tasaa .	£.000
Castings of iron	502	995(a)	other mail and	1,282
Castings, forgings and ingots of steel		937		1,096
lood and metal patterns	× 845.8.	21	······	10
Castings of brass and other copper alloys		221		309
igricultural machinery and parts	· · · ·	375	ary anglossifie	317
fachine tools, metal working, and parts, new and reconditioned	h	5	24 42.	998
Velding and cutting machinery and accessories	} ···	1.341	dans.	369
ingineers' small tools and parts		1	diff nalfolioaa	
Cutting and press tools		301	(a) searcable as	299
Jigs and fixtures	618 349	31.5	Tente Tierricous	219
Other	826	299	adout entites	664
ingineers' gauges and measuring instruments	alr.1	72		31
industrial engines, complete and parts	226	2, 377		420
extile machinery, parts and accessories		2,480	erraup ber faste	1,141
Livil engineering and contracting machinery and	CONS.	1.37	· · · · · · · · · · · · · · · · · · ·	Tiestion .
plant		279	apaginb. 6 47194	10
echanical handling equipment and parts, new and reconditioned		457	1	894
lining machinery and parts		1,962		571
Printing, book-binding, paper-working, etc.,	Line, L		1.00	ig inkytani.
machines and parts, new and reconditioned	ses.e	241	1 267-08 612BC	155
pace heating, ventilating and air-conditioning equipment		375	lo stren facto	489
Pumps and parts	401	217	ting and marking	925
ir compressors and exhausters and parts	25,813	250	free per	284
ndustrial valves and cocks		131	eniopenent work -	118
Bottling, packing, canning, packeting and	872			
labelling machinery and parts	24,050	138	.notestimes ab-	182
rick, tile and cement block making machinery and parts	éez.,08.	170		162
ood and drink preparation, processing and sterilising machinery and parts	elijanbol.jo in	494	ie references gi	1,164
ounding and diecasting machinery and parts	i to 8 midst :	56	ausda 3 s. Los	143
teel and non-ferrous metal rolling mills and parts		31 0	·····	360
Boiler-house plant and parts		205(b)		63
urnaces and kilns, complete and parts		63		218

Plant and machinery, complete and parts Chemical making machinery Water treatment plant Waterworks equipment Gas works plant Other Grain processing machinery and parts Fabricated iron and steelwork Arms, ammunition and naval, military and air force stores Cinematographic, optical, dental and medical equipment Scientific and industrial instruments Watches and clocks, complete and parts Electrical goods and machinery Radio and television apparatus and parts Marine machinery and parts Motor vehicles and trucks, complete Tractors and trailers, complete and parts Motor bodies, chassis and other parts of motor vehicles Motor cycle and cycle parts Aircraft parts and accessories Parts of aero-engines Other Handtrucks, trolleys and parts Stampings and pressings of iron and steel Drop forgings Other manufactures Work done Structural work carried out Work done as main or direct contractors Work done as sub-contractors Erection and installation of air-conditioning, heating and ventilating machinery and plant Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)

Canteen takings

GENERAL MECHANICAL ENGINEERING

53/13

19	1954		1958		
Quantity	Value	Quantity	Value		
States in	£.000	Linday of Proces	£,000		
		og factoria			
TT Salah		f Children Pleas			
75 Manuary 75 Manuary		a and a distance of			
···	842	••	978		
M. Mariana		and recorded			
A State of the second	-)				
is not fors	7 548	Energian Contractor	22		
	540		6 21		
25 15 este per	823		628		
	26		163		
	304		348		
No. Normal	24	idi Ozofia rimani Izikindi Geogeniyang e	16		
Die Greekender Die Die Kaander	ſ	The second second	122		
	339 {	an disert. Indeed	222		
··· ···	608		264		
In Laser N	230	in luciustant and			
101 Canada	230		572		
	985		4,921		
	(c)		1 5 5		
ALL STREET	an inclusion an	ipoindour .ert			
	69		210		
	482		991		
	66		42		
	228	aning, Trobanal	0.40		
	440	••	242		
	11,006	Equit room :	11,260		
Last Carrola	and the second second	nar ing ting			
126 Curry 1244	and the second second second	and and barada			
120 Disector	395	- (163		
100 Later a	106		206		
134 Sumar	285		509		
			12,106		
	••		911		
			48,567		

Total (a) Includes a small amount of finished wrought iron.(b) Includes a small amount for boiler furnaces.(c) Not recorded separately.

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 pers	ons: United Kingdom	is the "self-regard being to	e 4 ? . Clauser Street.
Salaman Jamin Sana	Males	Females	Total
1. The second seco	Number	Number	Number
Working proprietors	73	arealfoog bar a	77
Operatives	98,360	19,692	118,052
Administrative, technical and clerical employees	23,595	11,604	35,199
Total employees	121,955	31,296	153,251
Average salaries, etc. paid per head for the week to administrative, technical and clerical employees	£ 17.0	£ 7.1	£ 13.7

Part 1 Introductory Notes

2 Coal Mining 3 Stone and Slate Quarrying and Mining 4 Chalk, Clay, Sand and Gravel Extraction

5 Metalliferous Mining and Quarrying 6 Salt and Miscellaneous Non-metalliferous

Mining and Quarrying

- 7 Grain Milling 8 Bread and Flour Confectionery
- 9 Biscuits

10 Bacon Curing, Meat and Fish Products 11 Milk Products

12 Sugar

13 Coca, Chocolate and Sugar Confectionery 14 Fruit and Vegetable Products 15 Animal and Poultry Foods

16 Margarine

17 Starch and Miscellaneous Food Industries

18 Brewing and Malting

- Spirit Distilling and Compounding
 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco 22 Coke Ovens and Manufactured Fuel 23 Mineral Oil Refining 24 Lubricating Oils and Greases

- 25 Dyestuffs
- 26 Fertilizers, and Chemicals for Pest Control

27 Coal-tar Products 28 Chemicals (General)

29 Pharmaceutical Preparations 30 Toilet Preparations

31 Explosives and Fireworks 32 Paint and Printing Ink 33 Vegetable and Animal Oils and Fats

33 vegetable and Animal offs and Algorine 34 Soap, Detergents, Candles and Glycerine

35 Synthetic Resins and Plastics Materials

36 Polishes

37 Gelatine, Adhesives, etc. 38 Iron and Steel (General)

39 Steel Tubes

40 Iron Castings, etc.

40 From Castings, etc.
41 Non-ferrous Metals
42 Agricultural Machinery (except Tractors)
43 Metal-working Machine Tools
44 Engineers' Small Tools and Gauges

45 Industrial Engines

46 Textile Machinery and Accessories 47 Contractors' Plant and Quarrying Machinery 48 Mechanical Handling Equipment

A9 Office Machinery
 50 Miscellaneous (Non-electrical) Machinery
 51 Industrial Plant and Steelwork

- 52 Ordnance and Small Arms

53 General Mechanical Engineering 54 Scientific, Surgical and Photographic Instruments, etc. 55 Watches and Clocks

56 Electrical Machinery 57 Insulated Wires and Cables 58 Telegraph and Telephone Apparatus 59 Radio and Other Electronic Apparatus

-60 Domestic Electrical Appliances

61 Miscellaneous Electrical Goods

62 Shipbuilding and Marine Engineering

63 Motor Vehicle Manufacturing 64 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing

65 Aircraft Manufacturing and Repairing

66 Locomotives and Railway Track Equipment

67 Railway Carriages and Wagons and Trams
68 Perambulators, Hand-trucks, etc.
69 Tools and Implements

53/14

LIST OF INDUSTRY REPORTS, ETC.

```
Part
  70 Cutlery
71 Bolts, Nuts, Screws, Rivets, etc.
   72 Wire and Wire Manufactures
73 Cans and Metal Boxes
   74 Jewellery, Plate and Refining of Precious
  Metals
75 Miscellaneous Metal Manufactures
76 Production of Man-made Fibres
77 Spinning and Doubling of Cotton, Flax and
Man-made Fibres
   78 Weaving of Cotton, Linen and Man-made Fibres
   79 Woollen and Worsted
   80 Jute
   81 Rope, Twine and Net
   82 Hosiery and Other Knitted Goods
   83 Lace
  84 Carpets
  85 Narrow Fabrics
   86 Household Textiles and Handkerchiefs
  87 Canvas Goods and Sacks
88 Textile Finishing
  89 Asbestos
90 Miscellaneous Textile Industries
  91 Textile Converting
92 Leather (Tanning and Dressing) and
  Fellmongery
93 Leather Goods
  94 Fur
  95 Weatherproof Outerwear

95 Weatherproof Outerwear
96 Men's and Boys' Tailored Outerwear
97 Women's and Girls' Tailored Outerwear
98 Overalls and Men's Shirts, Underwear, etc.
99 Dresses, Lingerie, Infants' Wear, etc.
100 Hats, Caps and Millinery
101 Corsets and Miscellaneous Dress Industries

 102 Gloves
 103 Footwear
 104 Bricks, Fireclay and Refractory Goods
 105 Pottery
 106 Glass
 107 Cement
108 Abrasives
109 Miscellaneous Building Materials, etc.
110 Timber
 111 Furniture and Upholstery
112 Bedding, etc.
113 Shop and Office Fitting
114 Wooden Containers and Baskets
 115 M_scellaneous Wood and Cork Manufactures
116 Paper and Board
117 Cardboard Boxes, Cartons and Fibre-board
Packing Cases
118 Miscellaneous Manufactures of Paper and Board
119 Printing and Publishing of Newspapers and
Periodicals
120 General Printing, Publishing, Bookbinding,
Engraving, etc.
121 Rubber
122 Linoleum, Leathercloth, etc.
123 Brushes and Brooms
124 Toys, Games and Sports Equipment
125 Miscellaneous Stationers' Goods
126 Plastics Moulding and Fabricating
127 Miscellaneous Manufacturing Industries
128 Construction
129 Gas
129 Gas
130 Electricity
131 Water Supply
132 Index of Products
133 Summary Volume
134 Summary Volume
135 Summary Volume
```

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; nonferrous 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.

3 Separat Machanical Kadiamaring
4 Salaantita, Surgiaal and Bhotographic
5 Servicel Machiner,
6 Facturel Machiner,
7 Servicel Markiner,
8 Selection and Cables
9 Domestic Elections Spectrum
9 Domestic Elections Cooks
9 Domestic Elections
9 D



© Crown copyright 1961

Printed and published by HER MAJESTY'S STATIONERY OFFICE

To be purchased from York House, Kingsway, London w.c.2 423 Oxford Street, London w.1 13A Castle Street, Edinburgh 2 109 St. Mary Street, Cardiff 39 King Street, Manchester 2 50 Fairfax Street, Bristol 1 2 Edmund Street, Birmingham 3 80 Chichester Street, Belfast 1 or through any bookseller

Printed in England