

## BOARD OF TRADE



# Report on the Census of Production 1963 

61
Shipbuilding and marine engineering

Report on the Census of Production 1963

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


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## Notes

These notes give the main information needed for
interpreting the figures in interpreting the figures in the industry report
(More detailed information about the Census
is is given in a separate booklet - 'Introductory
Notes': Part 1 of the Report on the Census of Production for 1963.)
general information
Changes in the 1963 census
There were few changes resulting from amendments only minor changes in the scope of certain industry reports compared with of certain the industry reports concerned or by footnotes to the tables.
Industrial Classification
Establishments were classified to industries on
the basis of major activity in conformity with the basis of major activity in conformity with the second edition of the Standard Industrial
Classification (Consolidated Edition 1963 incorporat ing Amendment 1). Each industry
basically def ined in ters. basically def ined in terms of its principal products, these being of a similar nature or
commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion
its total sales than did its sales of the principal products of any other industry. How-
ever, where the applicat ion of this rule would
have resulted in a change of classification between 1958 and 1963 , the establishment was reclassif ied only if the sales of principal products of the newly predominant industry was
more than one third greater than the sales of principal products of the previously predominant industry. This modif ication of the general
rule was introduced for 1958 to avoid disrule was introduced for 1958 to avoid dis-
cont inuit ies which would result from margina changes in sales between successive censuses. The principle of classification by major
output was also normally followed in comil output was also normally followed in compiling
the analysis by sub-divisions of an industry. In certain industries, classificat ion was
dealt with in a different way. Details of dealt with in a different way. Details of any
non-standard treatment are given in the intro-non-standard treatment are given in the int
ductions to the relevant industry reports.

TERMS USED IN THE CENSUS REPORT
Average number employed
Firms were required to state the number of persons on the payroll (i.e. whose Nat iona
Insurance cards were held by them) on the average during the year of return, whether full time or part-time employees. return, whether full-
were rearate figures were required for (a) admin istrative, technical and clerical employees and (b) operatives (se
below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the
average number employed relate to the sum of these averages. Firms were also required to
state the number of working and state the number of working propr retors (see
below) where appropriate and these are included below) where appropriate and these are included
in total employment figures. Outworkers are
excluded in total

The figures include persons engaged in
merchant ing or factoring and canteen workers where particulars in respect of these activities
could not be excluded from the return.
Working Proprietors
These include all persons regarded as 'selfemployed' for National Insurance purposes, and musiness without receiving a fixed wage or salary; but persons who worked less than half
the normal number of working hours are excluded. the normal number of working hours are excluded
For Great Britain, directors working in the For Great Britain, directors working in the
business but not in receipt of a definite wa salary or commission are included under this heading for 1963, but are excluded for 1958 .
For Northern Ireland, directors companies, other than those paid by fee only, are included for both years. (Directors paid
by fee only are not included in any of the by fee only are not included in any of
employment figures for either year.)
Employees
(i) Administrative, technical and clerical employees inc lude managers, super intendents
and works foremen; research, experimental. development, technical and design employees (other than operatives); draughtsmen and
tracers; editorial staff, staff reporters, canvassers, competition and advertising
staff; travellers; and off ice (including staff; travellers; and office (including
works of fice) employees. For Great works off fice) employees. For Great
Britain, but not for Northern Ireland, include also managing and other directors in rece ipt of a definite wage, salary or
(ii) omission
ii) Operatives include all other classes of
employees, that is broadly manual wage that is, broadly speaking, all
mempe include those
employed in and employed in and about the factory or
works; operatives employed in power houses, transport work, stores, warehouses
shops and cant shops and canteens; inspectors, viewers
and similar workers; mainteranc and similar workers; maintenance workers; ande work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by
the ir own homes. supplied by the firm) are excluded Information about the numbers of outworkers
employed was collected only for the gloves employed was collected only for the gloves
industry.

Capital Expenditure
This represents the cost incurred during
This represents the cost incurred dur in
the year of new building and other new
constructional work (including office
constructional work (including of f ice
buildings, buildings, canteens and the like used in
connection with the business covered by the return but not dwelling houses for employees). The value is that charged to
capital account during the year of return; capital account during the year of return; on the extension or reconstruct ion of old
buildings, the value or buildings, the value of work of a capital nature carried out by firms' own staff, and
the cost of any newly constructed buildings purchased. The figures shown include any
legal charges, stamp duties. legal charges, stamp duties, agents
commissions, etc. commissions, etc.

This Report on the Shipbuilding and Marine Engineer ing Industry relates to establishments engaged wholly or mainly in building and repairing ships (nava and merchant), boats, barges, lighters, etc., of an types and size, wher tackle self-propelled or not; making oars, masts and spars, rigging and other tackle and ships' models; manufacturing and repairing main and aux mand turbine) engines for ships, and marine boilers. The manufare or repair of internal combustion engines for ships and boats (including out-board motors) is included, as indicated below, if carried out at marine engineering establishments The manufacture of ships' capstans and winches is excluded
This industry corresponds to minimum list heading 370 in the Standard Industrial Classification (Consolidated edition, 1963).

## METHOD OF CLASSIFICATION

In classifying returns to this industry the standard procedure was modified so that when sales of marine internal combustion engines and marine gas turbine engines and parts were reported as the most important items of output and they were not accompanied by sales of any other principal products of this industry, the 95 per

In classifying returns to the seven sub-divisions of the industry shown in Table 2, returns showing ships as the most impor tant items of output were classif ied to 'Shipbuilding in association with marine engineering in they produced
marine engines for installation in ships of the ir own construction and to marine engines, for installation in Ships of the ir own construction 'Shipbuilding' if they did not. the sub-division repairing and maintenance work as the predominant activity was carried on in conjunction with general engineering repair and jobbing work or (b) ship repairing and maintenance work, and any lesser amount of repair and jobb work on marine engines, together accounted for 80 per cent. or more of total
Otherwise returns that showed ship repairing or repair and jobbing work output. Otherwise returns that showed ship repairing or repal
on marine engines as their main activity (al though less than 80 per cent, of total on marine engines as elassif ied to the residual sub-division 'Ships' or boats' fittings, etc.' The standard classification procedure was followed for the other sub-divisions.
interpreting the data in the tables it is essential to bear in mind In interpreting the data in the

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| 14 | Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963 | $\begin{gathered} \text { DOES } \\ \text { NOT } \\ \text { APPLY } \end{gathered}$ |

TABLE 1 Industry summary: United Kingdom
Estimates for all firms, 1958 and 1963 (a)

(a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for
(a) For 1963 , estimates for small firms and for firms not making satisfactory ret about 4 per cent. of the total figures in which they were incorporated. (ere is in
comparable figure was 3 per cent.) A summary of the detailed returns received in Table 2 .
(b) The total value of new ships, etc. sold is not included in thes
work done during the year. For details of sales see Table 5 .
work done during the year. For details of sales see Table 5 .
(c) Including services rendered to other organisations (amounts charged for hiring out plant,
machinery and other goods, for providing transport, or for technical or other services rendered).
(d) Excluding ships, etc. completed during the year.
(e) The figures relate in the main to work in progress on marine machinery: they do not include the values of work in progress on ships, etc. sub-contract work, repair work, etc. which are shown
in Table 5, for firms employing 25 or more persons.
(f) Administrative, technical and clerical employees.
(g) Including pensions and gratuities paid other than in production.
(i) Acquisitions less disposals.

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963 Firms employing 25 or more persons: United Kingdom (a)

| Firms employing 25 or more persons: |
| :--- |
| United Kingdom (a) |


| Sub-divisions of the industry (b) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Shipbuilding and marine engineering (cont inued) |  | Boat building |  | Sub-contract work done on new ships under construction |  | Ship repairing |  |
| Mar ine eng ineer ing |  |  |  |  |  |  |  |
| 1958 | 1963 | 1958 | 1963 | 1958 | 1963 |  | 1963 |
| 54 | 54 | 54 | 48 | 22 | 19 | 174 | 108 |
| 83 | 82 | 62 | 59 | 25 | 39 | 258 | 192 |
| 84,703 | 95,425 | 5,840 | 7,754 | 5,817 | 7,254 | 110,201 | 108,903 |
| 34,666 | 46,366 | 2,928 | 3,931 | 3,166 | 3,911 | 71,962 | 73,944 |
| 934 | 1,197 | 702 | 954 | 999 | 1,013 | 816 | 1,077 |
| 77,749 | 91,927(f) | 5,538 | 7,381(f) | 5,882 | 7,320(f) | 109,303 | 108,875(f) |
| 887 | 1,349 | 149 | 358 | 88 | 261 | 885 | 393 |
|  | 65,609 |  | $\begin{array}{r} 5,306 \\ 72 \end{array}$ |  | 4,87367 | .. | 84,438 |
|  | 71 |  |  | . |  | $\ldots$ | 78 |
| 45,856 | 38,772 | 2,693 | 3,338 | 2,403 | 2,818 | 29,840 | 28,994 |
|  | 1,078 |  | 294 |  | 294 |  | 416 |
| 3,122 | 8,545 | 157 | 212 | 122 | 212 | 7,683 | 5,180 |
| 465 | 437 | 53 | 49 | 30 | 35 | 349 | 248 |
| 199 | - 180 | + 8 | 173 | - | 30 |  | - 41 |
| 1,013 | 1,052 | 53 |  | $-\quad 150$ | 77 | $\begin{array}{r}-\quad 2 \\ \hline\end{array}$ | 35 |
| + 5,868 | + 2,328 | + 145 | 173 $-\quad 12$ |  | - 297 | + 15 | - 325 |
| 51,343 | $\begin{array}{r} 42,987 \\ -\quad 227 \end{array}$ | 319 | $\begin{array}{r} -\quad 12 \\ -\quad 172 \end{array}$ | 240$-\quad 95$ | 1,303 | - 91 | 5,745 |
| - 594 |  | - 8 | + 70 |  | + 16 | - 366 | - 121 |
| 6,604 | $\begin{array}{r} 6,742 \\ 38,750 \end{array}$ | $\begin{array}{r} 660 \\ 4,173 \end{array}$ | $\begin{array}{r} 767 \\ 4,120 \end{array}$ | $\begin{array}{r} 440 \\ 3,170 \end{array}$ | 3573,862 | 5,341 | 3,297 |
| 37, 125 |  |  |  |  |  | 88,212 | 68,628 |
| 30,133 | $\begin{aligned} & 15,745 \\ & 14,362 \end{aligned}$ | 3,525 | $\begin{array}{r} 526 \\ 2,901 \end{array}$ | ) 2,776 | $\begin{array}{r} 843 \\ 2,505 \end{array}$ | \} 79,429 | $\begin{array}{r} 7,984 \\ 53,014 \end{array}$ |
|  |  |  |  |  |  |  |  |
| ) 6,989 | 3,718 | 642 | 78 | $\} \quad 389 \quad\{$ | 90417 | 8,766 | $\begin{aligned} & 1,044 \\ & 6,540 \end{aligned}$ |
|  | 4,903 |  | 572 |  |  |  |  |
| 18,379 | 23,280 | 1,829 | 2,128 | 1,947 | 2,783 | 50,038 | 47,355 |
| 5,114610 | $\begin{array}{r} 8,047 \\ 773 \end{array}$ | 466 | 561 | 301 | 456 | 7,135 | 7,351776 |
|  |  | 519 | 621 | 701 | 831 | 630 |  |
| 732 | $\begin{array}{r} 933 \\ 1,171 \end{array}$ | 726 | 863 | 774 | 900 | 814 | 969 |
| .. |  | .. | 119 | . | 127 | .. | 2,151 |
|  | 788 | 44 | 29 | 8 | 34 | 4,128 | 828 |
| 526 | 322220 |  | 69 |  | 19 |  | $\begin{array}{r} 2,153 \\ 128 \end{array}$ |
| .. |  |  | 110 | .. | 3 | 4,128 |  |
| .. | 236 | .. | 30 | .. | - | .. | 218 |
| 1,719 | 2,726 | 21 | 71 | 36 | 32 | 3,270 | 3,708 |
| 36 | 318 | 1 | 19 | - | - | 539 | 476 |
| 52 | 84 | 15 | 30 | 23 | 42 | 158 | 524 |
| 16 | 22 | 8 | 12 | 9 | 13 | 49 | 162 |


|  | Unit | Sub-divisions of the industry (b) |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ships' or boats' fittings, etc. (c) |  |  |  |
|  |  | 1958 | 1963 | 1958 | 1963 |
| Number of enterprises (d) | No. | 20 | 29 | 385 | 267 |
| Number of establishments | " | 33 | 34 | 594 | 487 |
| Gross output | £ 000 | 5,334 | 4,310 | 488,764 | 405,549 |
| Net output | " | 3,215 | 2,569 | 221, 273 | 205,859 |
| Net output per head | \& | 991 | 1,158 | 825 | 1,060 |
|  | £'000 | 5,072 | 4,101(f) | 480,303 | 400,613 |
| done (e) $\begin{aligned} & \text { (erchanted goods and canteen takings }\end{aligned}$ | " | 433 | 210 | 3,298 | 2,823 |
| Sales of characteristic products and characteristic work done | " |  | (g) | .. | (g) |
| Index of specialisation (h) | Per <br> cent. | .. | .. | 97 | 92 |
| $\text { Purchases } \quad\left\{\begin{array}{l} \text { materials, for processing and } \\ \text { packaging, and fuel } \\ \text { goods for merchanting and canteen } \\ \text { purchases } \end{array}\right.$ | £'000 | 1,858 | 1,400 180 | 211,562 | 155,846 2,544 |
| $\begin{aligned} & \text { Payments } \\ & \text { to other } \\ & \text { torganisations } \end{aligned}\left\{\begin{array}{l} \text { for work done } \\ \text { for transport } \end{array}\right.$ | " | 169 59 | 124 38 | 51,924 1,446 | 39,136 1,091 |
| Stocks and work in progress |  |  |  |  | - 288 |
| $\begin{aligned} & \text { Goods on hand } \\ & \text { for sale (i) }\left\{\begin{array}{l} \text { change during year } \\ \text { at end of year } \end{array}\right. \end{aligned}$ | " | 51 $+\quad 171$ | $\begin{array}{r}144 \\ +\quad 5 \\ \hline\end{array}$ | 321 $+\quad 1,526$ | $1,854$ |
| $\text { Work in }\{\text { change during year }$ | " | - 222 | - 5 | + 4,842 | $+\quad 2,400$ |
| progress ( $j$ ) $\{$ at end of year | " | 409 | 278 | $72,382$ | 56,969 |
| $\left.\begin{array}{l}\text { Materials, } \\ \text { stores and }\end{array}\right\}$ change dur ing year | " | - 33 | + | - 2,559 | - 1,074 |
| stores and ${ }_{\text {fuel }}$ at end of year | " | 344 | 434 | 25,387 | 16,984 |
| $\int$ total, including working proprietors | No. | 3,244 | 2,219 | 268,333 | 194,268 |
| $\text { Average number }\left\{\begin{array}{l} \text { operatives } \\ \text { mainly on mar ine engineer ing work } \\ \text { other } \end{array}\right.$ | " | 2,798 | 170 1,658 | \}232,936 | 35,039 128,038 |
| other employees ( $k$ ) <br> mainly on marine engineering work other | " | $440$ | 1,658 25 347 | 35,339 | 128,038 7,083 23,947 |
| Wages and $\quad\left\{\begin{array}{l}\text { of operatives }\end{array}\right.$ | £ 000 | 1,868 | 1,304 | 142,250 | 121,771 |
| salaries $\quad$ of other employees ( k ) | " | 316 | 329 | 27,198 | 29,169 |
| Wages and \{operatives | \& | 668 | 713 | 611 | 747 |
| salaries per head $\quad\left\{\begin{array}{l}\text { ether employees ( } \mathrm{k} \text { ) }\end{array}\right.$ | " | 718 | 884 | 770 | 940 |
| Employers' contributions to National Insurance (1) | £'000 | .. | 72 |  | 6,139 |
| Employers' contributions to private pension schemes, etc. (m) | . |  | 30 |  | 2,828 |
| Capital expenditure ( $n$ ) New building work | " | 62 | 55 | 10,179 | 5,367 |
| Land and $\quad$ acquisitions | " | .. | * |  | 680 |
| existing buildings $\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | ${ }^{\prime \prime}$ | .. | - | . | 732 |
| Plant and \{ acquisitions | " | 31 | 42 | 11,301 | 10,735 |
| machinery $\{$ disposals | " | - | 1 | 692 | 1,403 |
| cles $\{$ acquisitions | " | 25 | 26 | 446 | 838 |
| cles $\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | " | 11 | 8 | 128 | 252 |

[^0]TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963 (i) Output, employment, capital expenditure and stocks Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise industry (a) | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \end{aligned}$ | Estab- lishments | Average employed (a) | Gross output | Net output | Net output per head | Capital ture (b) | Total value of stocks and work in progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | £'000 | £.000 | \& | £'000 | £ 000 |
| 25-49 | 61 | 64 | 2,210 | 3,907 | 2,288 | 1,035 | 113 | 617 |
| 50-99 | 69 | 89 | 4,723 | 8,384 | 4,969 | 1,052 | 37 | 1,786 |
| 100-199 | 47 | 69 | 6,651 | 13,270 | 7.048 | 1,060 | 323 | 2,214 |
| 200-299 | 18 | 29 | 4,462 | 8,154 | 4,799 | 1,075 | 123 | 1,747 |
| 300-399 | 9 | 15 | 3,086 | 5,699 | 2,981 | 966 | 87 | 911 |
| 400-499 | 8 | 13 | 3,597 | 8,087 | 4,573 | 1,271 | 84 | 765 |
| 500-749 | 14 | 47 | 8,978 | 17,888 | 10,190 | 1,135 | 389 | 2,649 |
| 750-999 | 10 | 32 | 9,009 | 19,496 | 9,094 | 1,009 | 298 | 3,795 |
| 1,000-1,499 | 7 | 12 | 8,223 | 19,803 | 7,170 | 872 | 543 | 3,143 |
| 1,500-1,999 | 6 | 23 | 10,110 | 22,613 | 11,108 | 1,099 | 1,021 | 4,523 |
| 2,000-2,499 | 5 | 14 | 11,528 | 25,030 | 14,993 | 1,301 | 1,101 | 5,479 |
| 2,500-3,999 | 3 | 11 | 9,203 | 21,728 | 10,010 | 1,088 | 456 | 8,260 |
| 4,000-4,999 | 3 | 17 | 14,071 | 27,373 | 15,159 | 1,077 | 118 | 3,782 |
| 5,000-9,999 | 3 | 21 | 20,891 | 48,492 | 18,809 | 900 | 3,133 | 7,734 |
| 10,000 and over | 4 | 31 | 77,526 | 155,627 | 82,669 | 1,066 | 7,404 | 28,403 |
| Total | 267 | 487 | 194,268 | 405,549 | 205,859 | 1,060 | 15,232 | 75,808 |

(ii) Employees, wages and salaries, and employers' contributions Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in the industry (a) | Employees |  | Wages and salaries |  | Employers ${ }^{\circ}$ contributions |  | Wages and salaries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | $\begin{aligned} & \text { Others } \\ & \text { (c) } \end{aligned}$ | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | Others (c) | National <br> Insurance <br> (d) | Private pension schemes, etc. (e) $\qquad$ | $\begin{aligned} & \text { Oper- } \\ & \text { atives } \end{aligned}$ | $\begin{aligned} & \text { Others } \\ & \text { (c) } \end{aligned}$ |
|  | Number | Number | £ 000 | £'000 | £ 000 | \& 000 | £ |  |
| 25-49 | 1,844 | 310 | 1,227 | 280 | 68 | 16 | 666 | 903 |
| 50-99 | 3,936 | 736 | 2,718 | 671 | 143 | 41 | 691 | 911 |
| 100-199 | 5,560 | 1,069 | 3,902 | 1,044 | 197 | 74 | 702 | 977 |
| 200-299 | 3,624 | 827 | 2,649 | 717 | 137 | 62 | 731 | 867 |
| 300-399 | 2,565 | 519 | 2,153 | 497 | 106 | 32 | 839 | 958 |
| 400-499 | 3,075 | 522 | 2,323 | 442 | 122 | 36 | 755 | 848 |
| 500-749 | 7.594 | 1,380 | 6,462 | 1,284 | 320 | 138 | 851 | 931 |
| 750-999 | 7,432 | 1,575 | 5,260 | 1,368 | 285 | 127 | 708 | 869 |
| 1,000-1,499 | 6,818 | 1,403 | 5,176 | 1,307 | 266 | 86 | 759 | 932 |
| 1,500-1,999 | 8,197 | 1,913 | 5,579 | 1,765 | 313 | 132 | 681 | 923 |
| 2,000-2,499 | 9,121 | 2,407 | 7,129 | 2,434 | 410 | 251 | 782 | 1,011 |
| 2,500-3,999 | 7,560 | 1,643 | 5,719 | 1,456 | 278 | 164 | 756 | 886 |
| 4,000-4,999 | 12,154 | 1,917 | 10,608 | 1,967 | 483 | 378 | 873 | 1,026 |
| 5,000-9,999 | 17,560 | 3,331 | 12,593 | 3,029 | 657 | 269 | 717 | 909 |
| 10,000 and over | 66,037 | 11,478 | 48,274 | 10,908 | 2,355 | 1,023 | 731 | 950 |
| Total | 163,077 | 31,030 | 121,771 | 29,169 | 6,139 | 2,828 | 747 | 940 |

(a) Including working proprietors.
(b) Acquisitions less disposals.
(c) Administrative, technical and clerical employees
(d) Including both flat rate and graduated contributions.
(e) Including pensions and gratuities paid other than from pension funds. These amounted in total to $£ 678,000$.

TABLE $4 \begin{aligned} & \text { Percentage analysis of employees, by age and } \\ & \text { sex, all firms, 1963: United Kingdom (a) }\end{aligned}$

| Ages | Males | Females | All employees |
| :--- | :---: | :---: | :---: |
| Under 18 <br> 18 and over | Per cent. | Per cent. | Per cent. |
|  | 5 | - | 5 |
|  | 90 | 5 | 95 |
|  | Source: Ministry of Labour |  |  |  |

(a) The percentages relate to the numbers employed (excluding

The percentages relate to the numbers e
working proprietors) at mid-June, 1963 .

## Footnotes to Table 2.

(a) The following information relates to small firms (employing
fewer than 25 persons) in this industry.
It includes an fewer than 25 persons) in this industry. It includes an which account for 4 per cent. of the employment shown for
1963 and 6 per cent. for 1958 .

(b) The method of classifying returns to sub-divisions of the
industry is explained in the notes.
(c) This sub-division was described as 'Other' in 1958.
(d) 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.
(e) The total value of new ships, etc, sold is not included in these figures but only the value of work done during the
year. For details of sales see Table 5 ,
year. For details of sales see Table
(f) Including services rendered to other or ganisations (amounts
charged for hiring out plant, machinery and other goods charged for hir ing out plant, machinery and other goods,
for providing transport, or for technical or other service for provid
rendered).
(g) Characteristic products and character istic work done relate
sub-divisions of the industry.
(h) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods
produced and work done. For the industry as a whole, th is the ratio of total sales of principal products by the
(i) Excluding ships, etc, completed produced and wor
(j) The figures relate, in the main during the year. marine machinery; they do not include the value of work in progress on ships etc., sub-contract work, repair work etc. which are shown in Table 5, for firms employing 25 or more
persons.
(k) Administrative, technical and clerical employees
(1) Including both flat rate and graduated contributions.

Including pensions and gratuities paid other than from
pension funds.
(n) Excluding expenditure for establishments not yet in

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963
Firms employing 25 or more persons: United Kingdom

I SHIPS, BOATS, ETC., COMPLETED
War vessels
Other than war vessels
Steam vessels
of 100 gross tons and over Tankers
Others
Under 100 gross tons
Motor vessels
of 100 gross tons and over Passenger and passengercargo ships designed to
carry more
passengers
Refrigerated cargo ships
Refher cargo liners and
Other cargo
cargo tramps
Tankers
Fishing vessels
Other
Under 100 gross tons
Lifeboats
Cargo-carrying (including
passenger-cargo and fishing
passenger-cargo and fishin
vessels Other
Other vessels not self-propelled
Lifeboats
Cargo-carrying
Other
Other work of new construction,
e.g. float ing docks, pontoons,
caissons, etc.

Total value of ships, boats,
etc. compl
Less work in progress
beginning of the year
on war vessels and other vessels of 100 gross tons and over and other wo
of new construction of new construction
On vessels under 100 tons and other vessels no self-propelled
Total value of work done in
the year of return on ships
boats, etc., completed in


| TABLE 5 (cont inued) |
| :--- |



TABLE 5 (cont inued)

(a) Excluding fishing vessels in 1958.
(b) For 1963 in addition to marine machinery sold a value of $£ 8,970,000$ of marine machinery was recorded as made by firms for installation in ships of the ir own construction. In 1958 the
value was $£ 19,500,000$.
(c) Not was $£ 19,500,000$.
(c) Not recorded separately.
(d) Including steam reciprocating machinery in 1958.
(e) For 1958 sub-contract work, etc., on new ships only was specifically included
(f) Including research and development work.
( g ) This f igure 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.

TABLE 6 Sales of principal products of the industry by establishments classif ied to other industries, 1958 and 1963
Firms employing 25 or more persons: United Kingdon

| Firms employing 25 or more persons: United Kingdom |
| :--- |

[^1](c) Excluding parts in 1958.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963
Firms employing 25 or more persons: United Kingdom

|  | 1958 |  | 1983 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
|  | Th.tons | £ 000 | Th.tons | \&'000 |
| Iron and steel castings | 6.2 | 523 139 | 5.3 | 552 485 |
| Manufactures of non-ferrous metals | .. | 279 | .. | 243 |
| Industrial engines | .. | 3,209 | .. | 6,746 |
| Mechanical handling equipment | .. | 88 | .. | 337 |
| Pumps, valves, compressors, etc. | .. | 922(a) | .. | 873 |
| Other and unclassified machinery complete and parts | .. | 3,533 | .. | 1,295 |
| Industrial plant and steelwork |  |  |  |  |
| Boilers and boilerhouse plant | .. | 158 |  |  |
| Other | .. | 679 |  | 1,137 |
| General mechanical engineering |  |  | .. | 1,888 |
| Other goods |  |  |  | 5,695 |
| General engineering repair and jobbing work |  |  | .. | 9,937 |
| Building and civil engineering work (b) |  | 1.089 |  |  |
| Work done as main-contractors |  | 1,089 |  | 531 |
| Work done as sub-contractors |  |  |  | 2,223 |
| Services rendered to other organisations (c) |  |  |  | 918 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | .. | 3,031 | .. | 2,504 |
| Canteen takings |  | 267 |  | 319 |
| Total |  | 17,351(d) |  | 35,682 |

(a) Excluding valves in 1958
(b) Described in 1958 as Work Done.
(c) Including amounts charged for hiring out plant, machinery and other goods, for providing
transport, or for technical or other services rendered to other or ganisations.
(d) Excluding amounts charged for services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963 Firms employing 25 or more persons: United Kingdom

Particulars for this table cannot be giver
of quantities recorded were incomplete.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963 Firms employing 25 or more persons: United Kingdom

|  | 1954 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
|  | Th.tons | \&'000 | Th.tons | £ 000 |
| Materials for processing |  |  |  |  |
| Iron castings | 40.2 | 3,352 | 23.1 | 2,748 |
| Steel |  |  |  |  |
| Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (a) | 169 | 5,751 | 113 | 5,560 |
| Plates, 3mm. thick and over | 576 | 19,202(b) | 396 | 18,412 |
| Sheets under 3mm. thick (including electrical sheets) | 5.0 | 263 \{ | 5.2 | 364 52 |
| Forgings (except drop forgings) | 29.5 | 4,609 | 11.9 | 2,724 |
| Castings | 13.7 | 1,872 | 9.6 | 2,165 |
| Drop forgings (c) | 2.2 | 341 38 | 1.0 | 227 37 |
| Iron and steel not elsewhere specified except finished parts, wire and scrap (d) |  |  |  |  |
| Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc.) | 29.4 | 2,305 | 15.5 | 1,867 |
| Other | 31.5 | 1,338 \{ | 2.6 | ${ }_{212}^{227}$ |
| Chains and chain cable of iron and steel excluding transmission, timing and conveyor chains | .. | 832 | . | 430 |
| Steel wire (including cables and rope) | . | 833 | .. | 662 |
| Light metals and non-ferrous metals in all forms except finished parts, wire and scrap (d) |  |  |  |  |
| Aluminium and aluminium alloys | 5.1 | $\begin{array}{r}1,758 \\ \hline 235\end{array}$ | 3.8 | 1,775 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) |  |  |  |  |
| Castings in the rough | 8.9 |  | 1.8 | 741 |
|  | 8.9 | 3,088 | 4.4 | 1,728 |
| Copper (excluding blister) (e) | 6.2 | 2,170 | 1.8 | 722 |
| Nickel and nickel alloys (excluding nickel silver and cupro-nickel) |  | (f) $\{$ | 0.1 | 51 35 |
| Tin | $\begin{gathered} \text { Th. cwt. } \\ 5.6 \end{gathered}$ | ${ }_{81}^{196}(\mathrm{~g})$ | Th.cwt. 3.5 | 152 19 |
| Solder, soft | . | ${ }^{6}(\mathrm{~g})$ | . | 28 |
| Non-ferrous metal wire, not insulated | .. | $1(\mathrm{~g})$ | .. | 33 |
| Insulated wire and cables | .. | 74(g) | .. | 1,180 |
| Flux covered electrodes for electric arc welding (including continuous electrodes) | .. | (f) |  | 995 |
| Paint and varnish (including lacquers and stains) |  |  | $\begin{gathered} \text { Th.gal. } \\ 115 \end{gathered}$ | 202 |
| Anti-fouling and anti-corrosive paints and compositions for use below the water line only | 16.7 | $\left.\begin{array}{r}127 \\ 33\end{array}\right\}\{$ | $\begin{gathered} \text { Th.cwt. } \\ 10.0 \end{gathered}$ | 108 43 |

TABLE 10 (cont inued)

|  | 1954 |  | 1983 |  |
| :---: | :---: | :---: | :---: | :---: |
| \%388 | Quantity | Cost | Quantity | Cost |
|  | Th.cwt. | \&'000 | Th.gal. | \& 000 |
| Materials for processing (continued) <br> Paint and varnish (including lacquers and stains) (cont inued) |  |  |  |  |
|  |  |  |  |  |
|  |  |  | 745 | 1,208 |
| Other (including composition for deck sheathing) | 149 | 1,230 707$\}$ | $\begin{array}{r} \text { Th.cwt. } \\ 20.2 \end{array}$ | 93 |
| Gases, compressed | . | (f) | .. | 1,060 |
| Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms including finished parts | .. | 63(g) | .. | 381 |
|  |  |  | Th.tons |  |
| Glass in all forms, including finished parts | .. | (f) | .. | 333 |
| Asbestos |  |  |  |  |
| Millboard |  | $60(8)$ | .. | 84 |
| All other kinds including finished parts |  | $60(\mathrm{~g})$ | .. | 332 |
| Timber | Th.stds. |  | Th.stds. |  |
| Softwood, sawn or planed, but not further prepared or manufactured | 25.8 | 2,787 | 11.6 | 1,270 |
|  | Th.cu.ft. |  | Th.cu.ft. |  |
| Hardwood, sawn or planed, but not further prepared or manufactured | 1,345 | 2,042 | 520 | 791 378 |
|  | Th.sq.ft. |  | Th.sq.ft. |  |
| Plywood, including blockboard, laminboard and bat tenboard | 10,967 | 1,298 | $\begin{array}{r}7,608 \\ \hline .\end{array}$ | 665 188 |
| Chipboard | .. | (f) | 0.8 | 91 178 |
| Cork in all forms | .. | 195 | .. | 225 |
| Bolts, rivets, nuts and washers, screws, nails, tacks, etc. |  | 2,025 |  | 1,611 |
| Purchased components for incorporation in firms' finished products or for use in repair and maintenance work on customers' ships, etc. |  |  |  |  |
| Propelling machinery complete |  |  |  |  |
| Internal combustion engines (including engine and boiler room auxiliaries) |  |  |  |  |
| $1,500 \mathrm{~b} . \mathrm{h} . \mathrm{p}$. and less | . | 1,928 | .. | 3,737 |
| Exceeding 1,500 b.h.p. | .. | 18,890 | . | 13,996 |
| Steam turbines (including engine and boiler room auxiliaries) | .. | 11,847 | .. | 5,028 |
| Marine boilers | . | 1,956 | .. | 830 |
| Pumps | .. | 4,044 | . | 3,409 |
| Propellers and propeller blades for ships | .. | 417 | . | 1,197 |
| Industrial valves | .. | 1,794 | .. | 1,881 |
| Ball and roller bearings and parts thereof ( h ) | . | 224 | . | 328 |
| Ships' boats (lifeboats, etc.) | .. | 638 | . | 433 |
| Radio communication and navigational aid (including radar) equipment | . | 284 | .. | 1,146 |
| Electric motors | .. | 1,378(g) | .. | 1,507 |


| TABLE 10 (continued) |
| :--- |


| TABLE 10 (continued) |
| :--- |

(a) 'Pillars rolled (not fabricated), including tube rounds and squares' were not included in 1954 (b) Includes 'Hoop and strip' (including tape of all thicknesses).
(c) Described in 1954 as 'Iron and steel'.
(d) 'Wire' was not specifically excluded in 1954.
(e) 'Blister' was not specifically excluded in 1954.
(f) Not recorded separately
(g) So far as separately recorded in 1954.
(h) 'Parts' not specifically included in 1954.
(i) The total quantity of electricity generated in firms' own establishments in this industry
was 45,101 Th. kWh in 1954 and 5,818 Th. kWh in 1963 .

TABLE 11 Transport costs and employment of larger firms, 1963
Firms employing 25 or more persons: United Kingdom

|  | Unit | 1963 |
| :---: | :---: | :---: |
| Average number employed mainly on transport | No. | 760 |
| Transport costs |  |  |
| Wages and salaries | £'000 | 551 |
| Derv fuel and motor spirit | " | 302 |
| Payments to other organisations for transport | " | 1,091 |
| Costs of operating road goods vehicles |  |  |
| Insurance | " | 45 |
| Vehicle licences | " | 42 |
| Depreciation | " | 287 |
| Payments to other organisations for repairs and maintenance | " | 84 |
| Total | " | 2,402 |

TABLE 12 Payments for certain services, etc. by Payments for certain ser
larger firms, 1963 (a) Firms employing 25 or more persons:
United Kingdom

|  | Amounts <br> payable |
| :--- | ---: |
| Repairs and maintenance to | $£, 000$ |
| Buildings | 2,144 |
| Road goods vehicles | 84 |
| Plant, machinery, and other capital equipment | 659 |
| Insurance, licensing and depreciation of road | 374 |
| goods vehicles (b) |  |
| Rates, excluding water rates | 2,709 |
| Hire of plant and machinery | 534 |
| Postage, telephone, telegrams and cables | 667 |
| Total | 7,172 |

(a) No deduction is made for these payments to arrive at the
figures of net output given in this report. (b) For details see Table 11.

TABLE 13 Percentage analysis of twelve-month period Percentage analysis of twelve-month periods
covered by returns from larger firms, 1963 Firms employing 25 or more persons:
United kingdom

| Year ended | Percentage of total number employed | Year ended | Percentage of total number employed |
| :---: | :---: | :---: | :---: |
| 1963 | Per cent. | $\begin{gathered} 1963 \\ (\text { contd.) } \end{gathered}$ | Per cent. |
| April (a) | 0.7 | November | 0.3 |
| May | 0.4 | December | 47.4 |
| June | 6.6 |  |  |
| July | 2.6 | 1964 |  |
| August | 0.1 | January | 0.3 |
| September | 7.3 | February | 0.2 |
| October | 0.5 | March | 33.7 |
|  |  | Total | 100 |

(a) Including returns made for twelve-month periods ended
1st to 5 th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by estab lishments classified to other industries

This table is not applicable to this industry

Capital Expenditure (continued)
ii) Land and existing buildings.

The items shown are the capital cost of
freeholds purchased and the capital cost remium payable for leaseholds acquired excluding the value of any assets acquired n taking over an exist ing business), and
he amounts receivable for any freeholds or caseholds disposed of. The value is that
charged to capital account during the year charged to
of return.
(iii) Plant, machinery and vehicles.

The items shown are the value of plant and ew and second-hand, and the amount eceived for items disposed of dur ing the ear. The value of plant and machinery roduced for the ir own use in connection ith the business covered by the return. The value of plant, etc. acquired is the
xpend iture charged to cap xpenditure charged to capital account
during the year of return less any disounts received, but including the cost ransport and installation. No deduction bsolescence. The The incoceeds is istion or isposed of during the year exclude amounts isposed of during the year exc-
written of f for items scrapped. Capital expenditure dur ing the year in respect f manufactur ing establ ishments where pro-
uction had not started before the end of duction had not started before the end of the
year is excluded in this report for both 1958 ynd 1963 .
Characteristic Products
The characteristic products of a sub-division
are those in terms of which the sub-division is
re those in terms of which the sub-division is defined. They are products commonly associa-
ted in production and are usually similar in nature or manner of production. In most cases the character istic products of each sub-
division are indicated in Table 5 of the ivision are indicated in Table 5 of the
industry reports. For those industries which an analysis by sub-divisions has been made, Table 2 shows the total sales of such
characteristic products for each sub-division characterist ic products for each sub-division.
The totals include, besides the products which def ine the sub-division, other items of outpu assumed to be closely related to them, e.g.

Enterprise
The term enterprise is used in this report to antrol. Ane firms under common ownership or an enterprise normally consists her of a single firm, or of a parent company

Entries
The number of entries shown in Tables 5, 6 and
uction
eading is the number of returns on whic
igures were recorded for that item.
Establishment
The census was based on the establishment,
comprising in most cases the whole of the remises under the same ownership or managem $t$ a part icular address (e.g. a factory or nine); but firms were asked to exclude fro
all sections of their returns particulars elat ing to any department not engaged in pr uction for which they kept a separate set of accounts. Where separate accounts were not
kept, they were asked to include merchant ing or
factor ing, canteens operated by them and other
ancillary activities such as bottling, packing and the manufacture of containers for packing he ir own products, whether or not these as the works. Building and engineering as the works. Bulding and engineering port departments were treated similarly.
Gross Output
The gross output of an industry is the aggregate value of goods made and other work done fied to the industry. It is derived classitracting from the value of sales and work done the value of stocks of goods on hand for sale nd work in progress at the beginning of the year
year.

Larger Firms
These are firms in which twenty-five or more
persons were employed on the average during the
et Outpu
The net output of an industry represents the duction. It includes the gross margin on any erchanted or factored goods sold; it constitutes the fund from which wages, salaries nsurance, pensions, hire of plant and achinery, payments for repairs and maintenance, costs of operating road vehicles, rents,
rates and taxes, advertising and other selling rates and taxes, advertis ing and other selling
expenses and all other similar charges have to expenses and all other similar charges have t
be met, as well as depreciation and prof its. There is no appreciable duplication in net out
put. Net output has been obtained by deducting from the gross output obe cost of dedurchase ng from the gross output the cost of purchase
diusted for stock changes, payments for work justed for stock changes, payments for wor
iven out to other firms, and payments for

Normally any customs or excise duty on naterials purchased is included in the cost o materials. Similarly, finished goods sold ave been valued as they were sold, duty paid or
uty free. The amounts of duty, subsidies. llowances and levies receivable or payable where of substantial importance in the industry, tems were taken into account when calculating net output.
Net output per person employed
The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time
and part-time) on all activities covered by th and part-time) on all activities covered by t
eturns, including operatives, administrative technical and cler ical employees and working

Principal Products
in terms of which the industry is def ined. in terms of which the industry is def ined They are products commonly associated in pro-
duction, and are usually similar in nature or anner of production.
Production
This means the total quantity of a product made dur ing the year, whether sold in the year, added
to stock, transferred to another department of the same f irm, or used in the manufacture of ther products within the business covered by the return. It includes goods produced from materials supplied by other firms.

Purchases
Purchases include the cost of materials and components bought for use in product ion; of
fuel and electricity for all purposes; of pack aging materials, including the full cost of
turnable cases and containers when first purchased; of workshop materials, off ice materials and materials for repairs to firms'
own buildings, plant and vehicles when carried out by the in own workpeople included in the
return; of consumable tools; and of parts for return; of consumable tools; and of parts for
mach inery purchased during the year as replacemachinery purchased during the year as replace-
ments. Warter charges are also included. In
general purchases of goods for merchant ing or general purchases of goods for merchanting or
factor ing and canteen supplies are included. Materials supplied by customers for processing are excluded.
The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed The cost of transport is included in the cost of materials as invoiced; amounts paid to transport organisa-
tions, including firms. own separate transpar organisations, for del ivery of materials and organisations, ore, therefore, excluded. Materials
fuel are,
purchased overseas are purchased overseas are included at their c.i.
cost plus any duty payable if the cost of cost plus any duty payable was the cost of
transport from the docks was included in the invoiced price, but at the ir full delivered cost
if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are
included at the estimated selling value recorded
by the other department. Sales
Sales are in respect of goods made by the business covered by the return, goods made for
it by outworkers or by it by out workers or by other firms from
mater ials given out to them (somet ines described
as goods made materials given out to them (somet imes described
as goods made on commission) and waste products. Any machinery or other capital items produced
for use in the business covered by the return for use in the business covered by the return
are included, the value being that adopted in are included, the value being that adopted in
the firm capital asset account. Goods sold
without being subjected without being subjected to any manufactur ing
process (merchanted or factored) and canteen process (merchanted or factored) and canteen
takings are included as in 1958. The value shown for sales is the net selling
value, def ined as the amount charged to value, def ined as the amount charged to
customers whether on an ex-works or del ivered customers whether on an ex-works
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 packing materials is included. Goods charged
on a dellivered bas is to customers overseas are on and
included at the f.o.b. value. For work done on
commission or for the trade the value shown is commission or for the trade the value shown is Where goods produced in one department were transferred to another department of the same
firm not covered by the return, these transfers firm not covered by the return, these transfers
were treated as sales by the producing departwere treated as sales by the producing depart-
ment and valued as far as possible as if they
had been sold to an independent purchaser. hod been sold to an independent purchaser.
hoods transferred to wholesale or retail sellGoods transferred to wholesale or retail sell-
ing organisations for which separate accounts ng organisations for which separate acc
ere kept were valued on the same basis. stimations of a similar kind were also sometimes necessary in valuing transfers betwee
different firms belong ing to the same enter prise. To the extent that the sales on
finished products of tene inished products of one establ ishment may
constitute the materials purchased by another constitute the materials purchased by another
total figures of the value of sales (and of nater
naterials and fuel purchased) include an element of duplicatio
Services rendered This represents the amounts charged for hiring
out plant, machinery and other goods, providing ransport, or for any technical or other
services rendered to other organisations. It
includes amounts credited for similar services includes amounts credited for similar services
rendered to other departments of the same firm
not covered by the return.
Small Firms
These are $f$ irms in which fewer than twenty-five
persons were employed on the average during the persons were employed on the average during the

Stocks and Work in Progress
Values are given of stocks of goods on hand for sale, and end of the
ging ing and end of the return, including any stocks of goods held for merchanting or
factoring. The values include duty in the factoring. The values include duty in the case
of dutiabie goods held out of bond. The value of work in progress at the two dates is also
usually shown. This excludes any progress usually shown. This excludes any progress
payments made to sub-contractors, and no depayments made to sub-contractors, and no de-
duction is made on account of progress payments
received. 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 finished goods sold and inwards
transport of materials and fuel purchased. transport of materials and fuel purchasen.
They include payments to other firms, and to any separate transport organisation of the same
firm, not covered by the return, but exclusd firm, not covered by the return, but exclude
the value of transport services provided by business covered by the return. provided by the included are payments for hired cartage and for
inwards and outwards carriage by all forms of inwards and outwards carriage by all forms of
inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc.
Payments made for sea freight on goods sold to Payments made for sea freight on goods sold to
customers over seas and on materials and fuel
purchased from overseas suppliers are excluded purchased from overseas suppliers are excluded. Wages and Salaries
These are the amounts paid during the year to and clerical employees. Payments to working proprietors, whether called salar ies or not,
are excluded; in Northern Ireland this are excluded; in Northern Ireland this
exclusion extends also to payments to excusion extends also to payments to
directors of limited companies. The values
shown include all overtime payments, bonuses shown include all overtime payments, banuses
and commissions, whether paid regularly and commissions, whether paid regularly or no
and no deduction is made for income tax.
insurances. insurances, contributory pensions, tetc.
value of any payments in kind, travelling value of any payments in kind, travelling
expenses, lodging allowances, etc. and employers' contributions to National Insurance
and pension schemes is excluded.

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 nade. They do not include payments to ndividual outworkers or payments for business and other service
Symbols used
The following symbols are used throughout the
Not available
Nil or negligible (less than half the

- final digit shown)

Figures cannot be shown owing to the
risk of disclosing information about
individul individual enterprises.
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 eay, there, be apparent slight discrepancies eet ween the sums
he totals shown

List of Industry Reports, etc

```
Part No. and title
1 Introductory Notes
2 Introductory No
l
4 Chalk, Clay, Sand and Gravel Extraction
```



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6 Mit and anscellan
8 Brain Milling
9 Biscuits 
0 Bacon Curing,
12 Sugar Chocolate and Sugar Confectionery
4 Fruit and Vegetable Produc
5 Animal and Poultry Foods
\ Margarine Miscellaneous Foods
8 Brew ing and Malting
8 Brewing and Malting Comoundin
l
22 Coke Ovens and Manufactured Fuel
lol
* Dyestuffs 
7% General Chemicals
28 Pharmaceutical Preparation
29 Toilet Preparations
31 Paint and Printing Ink
$2 Vegetable and Animal Oils and Fats
33 Soap, Detergents, Candles and Glycerine
35 Polishes
$ Prolishes, Adhesives, etc.
37 Iron and Ste
l
40 Non-ferrous Metals
41 Agricultural Machinery (except Tracto
42 Metal-working Mach ine Tools 
M
45 Textile Machinery and Accessories 
46 Contractors' Plant and Quarrying
48 Office Machinery 
49 Miscellaneous (Non-electrical)
50 Industrial Plant and Stre
52 General Mechanical Eng ineering
    Instruments, etc.
54 Watches and Clocks
55 Electrical Machinery
56 Insulated Wires and Cables 
```



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59 Domest ic Electrical Appliances
60 Miscellaneous Electrical Goods 
l
Cycle Manufacturing
64 Aircraft Manufacturing and Repairing
65 Locomot ives and Railway Track Equipment
66 Railway Carriages and Wagons and
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[^0]:    For notes to this table - see page 61/8

[^1]:    (a) The references given are to the 1 ist of industries at the back of this report
    (b) Described as steam reciprocating and steam turbine parts in 1958.

