

## Report on the Census of Production 1963

46 contractors' plant and quarrying machinery

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46
Contractors' plant and quarrying machinery

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)

These notes give the main information needed for interpreting the figures in the industry rep
(More detailed information about the Census (More detailed separate booklet - Introducto
is given in a seat 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 amendment to the Standard Industrial Classif icat ion and only minor changes in the scope of certain
industry reports compared with 1958 . Any such changes are explained in the introductions to
the industry reports concerned or by footnotes the industry re
to the tables.
Industrial Classification
Establishments were classified to industries on
the basis of major activity in the basis of major act tivity in conformity with
the second edition of the Standard Industrial Classif icat ion (Consolidated Edi it ion 1963,
incorporat ing Amendment 1). Each industry incorporating Amendment 1). Each industry was
basically def ined in terms of its principal products, these being of a similar nature or
commonly associated in production. commonly, associated in product ion. 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. ever, where the application of this rule would
have resulted in a change of classif ication have resulted in a change of classification
between 1958 and 1963, the establishment was betwen 1958 and 1963 , the establishment was
reclassifified only if the sales of principal products of the newly predominant industry was
more than one third greater than the sales of more than one third greater than the sales of
principal products of the previously predominant Thdstry. This mod if ication of the general
rule was introduced for 1958 to avoid dis. rule was introduced for 1958 to avoid dis-
continuities which would result from marginal cont inuit ies which would result from marginal
changes in sales between successive censuses.
The pr inciles changes in sales between successive censuses.
The princ iple of classif ication by major
output output was also normally followed in compiling
the analys is 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
$\begin{aligned} & \text { persons on the payroll (i.e. whose Nat ional } \\ & \text { Insurance cards were held by them) on the }\end{aligned}$
$\begin{aligned} & \text { Insurance cards were held by them) on the } \\ & \text { average dur ing the year of return, whether full- } \\ & \text { time or part-time }\end{aligned}$
$\begin{aligned} & \text { average during the year of return, whether full } \\ & \text { time or part-time employees. } \\ & \text { Separate figures }\end{aligned}$
$\begin{aligned} & \text { were required for (a) administrative, technical } \\ & \text { and clerical employees and (b) operatives (see }\end{aligned}$
$\begin{aligned} & \text { below. Averages could be calculated from } \\ & \text { figures relating to the last }\end{aligned}$
igures relating to the last week of each
$\begin{aligned} & \text { calendar month; figures shown in respect of the } \\ & \text { average number employed relate to the sum of }\end{aligned}$
$\begin{aligned} & \text { these averages. Firms were also required to } \\ & \text { state the number of working proprietors (see }\end{aligned}$
state the number of working proprietors (see
$\begin{aligned} & \text { below) where appropriate and these are included } \\ & \text { in total employment figures. Outworkers are } \\ & \text { excluded. }\end{aligned}$ i

The figures include persons engaged in where particulars in respect of these activities could not be excluded from the return.
Working Proprietors
These include all persons regarded as 'selfemployed' for Nat ional Insurance purposes, and nembers of the ir families who worked in the business without receiving a fixed wage or
salary; but persons who worked less than half the normal number of working hours are excluded.
tor Great Britain, directors working in the For Great Britain, directors working in the
business but not in receipt of a definite wage susiness or commission are included under this head ing for 1963 , but are excluded for 1958 .
For Northern Ireland, directors of limited For Northern Ireland, directors of limited
companies, other than those paid by fee only, companies, other than those paid by fee only,
are included for both years.
by fee only are not inctuded in paret
by of the by fee only are not included in any of the
Employees
(i) Administrative, technical and clerical
employees include managers, superintendents
and works foremen; research, experimental, deve lopment, technical and des ign employees
(other than operat ives) (other than operatives); draughtsmen and
tracers; editorial staff, staff reporters, canvassers, competition and advertising taff; travellers; and office (including works off ice) employees. For Great
Britain, but not for Nor thern Ireland, they include also managing and other directors in rece ipt of a definite wage, salary or
(ii) Commissive

Operatives include all other classes of
employees, that is, broadly speaking, al mployees, that is, broadyy speaking, al
anual wage earners. They include those employed in and about the factory o
works; operatives employed in powe houses, transport work, stores, warehouses,
shops and canteens; inspectors, viewers and similar workers; maintenance workers. and cleaners. Operatives engaged in outside work of erection, fitting, etc. are persons employed by the firm who worked in their own homes, etc. on materials
upplied by the firm) are excluded
supplied by the firm) are excluded.
Information about the numbers of outworkers employed was collected only for the gloves
industry.

Capital Expenditure
(i) New building work

This represents the cost incurred dur ing onstructional work (includ other ne constructional work (including of fice
buildings, canteens and the like used in connection with the business covered by the
eeturn but not dwelling houses for return but not dwelling houses for
employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or n the extension or reconstruction of old nature carried out by firms, own staff, and the cost of any newly constructed build ings
purchased.
The figures shown include any purchased. The figures shown includ
legal charges, stamp duties, agents. Cegal charges, st
commiss ions, etc.

Notes - continued on pages iii and iv
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[HA 257$]$

This Report on the Contractors' Plant and Quarrying Machinery Industry relates to establishments engaged wholly or mainly in manufacturing excavating and earth-movin equipment such as excavators, crawler tractors, dozers, graders, scrapers, shovel
loaders and dumpers; roadmaking and maintenance equipment such as asphalt mixing and laying machines and road rollers, concrete mixers; pile drivers, etc.; and quarry crushing and screening plant. Rope-hauled drag scrapers, cableway dragline excavators, cranes, hoists and compressors are excluded.
This industry corresponds to minimum list heading 336 in the Standárd Industrial Classification (Consolidated edition, 1963).
An additional table (Table 5 Supplement) which is derived from short period information and which supplements the broader figures for sales given in Table 5 , is included in this report.

TREATMENT OF PARTS
In reports for this and other mechanical engineering industries, a distinction is made between parts sold in association with the sale of complete machines, and other parts sold. The only parts shown in Table 5 are those included on returns (whether classified to this or to other industries) which also shos classified another industry, these parts are also shown, together with the complete machines in Table 6.
Parts of contractors' plant and quarrying machinery included in returns which showed no sales of the complete machines are treated as principal products of Gengineering Mechanical Engineering Industry (Part 52) whether made by general
 Sales of all parts of contractors' plant and quarrying machinery (i.e., whet
not sold in association with the sale of the complete machines) are brought not sold in association with the in Table 14 in this report.

METHOD OF CLASSIFICATION
In classifying returns to this industry sales of parts of contractors' plant and quarrying machinery and work done (other than structural and installation work), including repair work, were not taken into account unless they exceeded 80 per cent. of the total output of the return (in which case the return was casser
to General Mechanical Engineering (Part 52)). Exceptionally, however, parts of contractors' plant and quarrying machinery were taken into account where the contractors' plant and quarrying machissified outside the mechanical engineering group of industries. The standard classification procedure was further modified where a return would have been classified to one of the mechanical engineer in inclusive), but the sales of the principal products of the industry concerned accounted for less than 20 per cent. of the total output: in such cases the return was classified to the residual sub-division of the miscellaneous (Nonelectrical) Machinery Industry (Part 49).

For 1963, but not for earlier censuses, the amount charged for erecting and installing machinery and plant (other than air conditioning, heating and ventilat ing plant) was treated as part of the selling value of these items in determining the industrial classification of returns.

In interpreting the data in the tables it is essential to bear in mind In interpreting the data in the tabes and definitions which appear on pages (ii), (iii) and (iv).

| Table No. | Title | Page |
| :---: | :---: | :---: |
| 1 | Industry summary: United Kingdom. Estimates for all firms, 1958 and 1963 | 46/3 |
| 2 | Summary of returns received from larger firms, 1958 and 1963 | 46/4 |
| 3 | Analysis of larger firms by size of enterprise within the industry, 1963 | 46/5 |
| 4 | Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom | 46/6 |
| 5 | Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963 | 46/7 |
| 5 SUPPLEmENT | Manufacturers' deliveries of contractors' plant and quarrying machinery, 1958 and 1963 | 46/8 |
| 6 | Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963 | 46/9 |
| 7 | Sales of other than principal products by larger firms in the industry, 1958 and 1963 | 10 |
| 8 | Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 9 | Purchases of selected principal products of the industry by larger firms, 1963 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 10 | Purchases by larger firms in the industry, 1954 and 1963 | 46 |
| 11 | Transport costs and employment of larger firms, 1963 | 46/14 |
| 12 | Payments for certain services, etc. by larger firms, 1963 | 46/15 |
| 13 | Percentage analysis of twelve-month periods covered by returns from larger firms, 1963 | 46/15 |
| 14 | Sales of all parts of contractors' plant and quarrying machinery by larger firms, including sales by establishments classified to other industries, 1958 and 1963 | 46/16 |

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

|  | Unit | 1958 | 1963 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 129 | 134 |
| Number of establishments | " | 160 | 159 |
| Gross output | £.000 | 74,232 | 144,427 |
| Net output | " | 28,151 | 56,597 |
| Net output per head | $\varepsilon$ | 1,021 | 1,549 |
| Stes and grom produced and work done | \& 000 | 69,064 | 133,676(b) |
| Sales and work done $\quad\left\{\begin{array}{l}\text { gerchanted goods and canteen takings }\end{array}\right.$ | , | 6,145 | 12,015 |
| Purchases $\quad\left\{\begin{array}{l}\text { mater ials for processing and } \\ \text { packaging, and fuel } \\ \text { goods for merchanting and } \\ \text { canteen purchases }\end{array}\right.$ | * | 43,901 | 73,541 10,771 |
| Payments to other organisations $\quad\left\{\begin{array}{l}\text { for work done on materials given out }\end{array}\right.$ | - | 1,035 1,057 | $1,874$ |
| Stocks and work in progress |  |  |  |
| $\begin{aligned} & \text { Total stocks and work in } \\ & \text { progress } \end{aligned}\left\{\begin{array}{l} \text { change during year } \\ \text { at end of year } \end{array}\right.$ | " | $\begin{array}{r} -1,066 \\ 34,088 \end{array}$ | $\begin{array}{r} -1,500 \\ 48,624 \end{array}$ |
| Goods on hand for sale $\quad\left\{\begin{array}{l}\text { change during year }\end{array}\right.$ | * | - 212 | - 1,382 |
| at end of year |  | 7,833 | 10,739 |
| Work in progress $\quad\left\{\begin{array}{l}\text { change during year } \\ \text { at end of year }\end{array}\right.$ | * | 7865 $-\quad 12,260$ | $\begin{array}{r} +\quad 118 \\ 15,696 \end{array}$ |
|  | " | - 89 | - 236 |
| Materials, stores and fuel $\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | * | 13,995 | 22,189 |
| $\int$ total, including working proprietors | Th. | 27.6 | 36.5 |
| Average number employed $\quad\{$ operatives | * | 18.2 | 24.2 |
| other employees (c) |  | 9.3 | 12.2 |
| Wages and salaries $\quad\{$ of operatives | \& 000 | 10,738 | 18,336 |
| Wages and salaries $\quad$ of other employees (c) | - | 6,387 | 10,762 |
| Employers' contributions to National Insurance and private pension schemes, etc. (d) | * | . | 1,842 |
| Capital expenditure (e) |  |  |  |
| Total | * | .. | 4,770 |
| New building work | * | 2,454 | 856 |
| Land and existing buildings (f) | * | . | 309 |
| Plant and machinery (f) | * | 4,444 | 3,303 |
| Vehicles (f) | " | 194 | 303 |

(a) For 1963 , estimates for small firms and for firms not making satisfactory returns accounted for about 3 per cent. of the total figures in which they were incorporated. (For 1958 the
comparable figure was 4 per cent.) A summary of the detailed returns received is given in Taple 2.
(b) 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).
machinery and other goods, for providing transport, or for technical or other services rendere
(c) Administrative, technical and clerical employees.
(d) Including pensions and gratuities paid other than from pension funds.
(e) Excluding expenditure for establishments not yet in production.
(f) Acquisitions less disposals.

TABLE 2 Sumary of returns received from larger firms, 1958 and 1963
Firms employing 25 or more persons: United Kingdom (a)

|  | Unit | 1958 | 1963 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 63 | 75 |
| Number of establishments | - | 94 | 98 |
| Gross output | \& 000 | 71,387 | 140,236 |
| Net output | - | 27,072 | 54,954 |
| Net output per head | \& | 1,021 | 1,549 |
| Sales and work done $\quad\{$ goods produced and work done | \& 000 | 66,416 | 129,797(b) |
| Sales and work done $\quad$ merchanted goods and canteen takings | - | 5,910 | 11,666 |
| Index of specialisation (c) | $\begin{aligned} & \text { Per } \\ & \text { cent. } \end{aligned}$ | 87 | 82 |
| $\left\{\begin{array}{l} \text { materials for processing and } \\ \text { packaging, and fuel } \end{array}\right.$ | £ 000 |  | 71,407 |
| Purchases $\quad\left\{\begin{array}{l}\text { goods for merchanting and canteen } \\ \text { purchases }\end{array}\right.$ | - | 42,218 | 10,459 |
| Payments to other organisations $\quad\left\{\begin{array}{l}\text { for work done on materials given out }\end{array}\right.$ | , | 995 | 1,820 |
| organisations for transport $^{\text {d }}$, | * | 1,016 | 1,367 |
| Stocks and work in progress |  |  |  |
| Goods on hand for sale $\quad\left\{\begin{array}{l}\text { change during year } \\ \text { at end of year }\end{array}\right.$ | * | 204 $-\quad 7,533$ | $-1,342$ 10,428 |
| Work in progress $\quad\left\{\begin{array}{l}\text { change during year }\end{array}\right.$ | * | - 735 | + 115 |
| Work in progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | - | 11,790 | 15,241 |
| crials, stores and fuel $\{$ change during year | * | - 86 | - 229 |
| Materials, stores and fuel $\{$ at end of year | * | 13,458 | 21,545 |
| $\int$ total, including working proprietors | No. | 26,506 | 35,469 |
| Average number employed $\quad\left\{\begin{array}{l}\text { operatives }\end{array}\right.$ | * | 17,558 | 23,580 |
| other employees (d) |  | 8,948 | 11,853 |
| Wages and salaries $\quad\{$ of operatives | \& 000 | 10,338 | 17,844 |
| Wages and salaries $\left\{\begin{array}{l}\text { of other employees (d) }\end{array}\right.$ | * | 6,149 | 10,473 |
| Mages and salaries per head \{operatives | \& | 589 | 757 |
| Wages and salaries per head other employees (d) | * | 687 | 884 |
| Buployers' ${ }^{\text {contributions to National Insurance (e) }}$ | \&. 000 | . | 1,060 |
| Employers' contributions to private pension schemes, etc. (f) | * | .. | 732 |
| Capital expenditure (g) |  |  |  |
| New building mork | " | 2,360 | 831 |
| acquisitions | - | .. | 326 |
| Land and existing buildings $\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | " | . | 27 |
| Plant and machinery $\quad\left\{\begin{array}{l}\text { acquisitions }\end{array}\right.$ | - | 4,365 | 3,372 |
| Plat disposals | - | 92 | 165 |
| les $\{$ acquisitions | - | 296 | 465 |
| Ventes dieposals |  | 110 | 171 |

For notes to this table - see page $46 / 6$

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 in the industry (a) | Enter- | Estab- lish- ments | Average number employed (a) | Gross output | Net output | Net output per head | $\begin{gathered} \text { Capital } \\ \text { expendi- } \\ \text { ture (b) } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { value of } \\ \text { stocks and } \\ \text { pork in } \\ \text { progreas at at } \\ \text { end of year } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | \& 000 | \&'000 | $\varepsilon$ | \& 000 | \& 000 |
| 25-49 | 14 | 14 | 520 | 1,928 | 917 | 1,764 | 104 | 565 |
| 50-99 | 18 | 19 | 1,317 | 4,413 | 1,837 | 1,395 | 200 | 1,105 |
| 100-199 | 8 | 10 | 1,143 | 3,809 | 1,699 | 1,487 | 52 | 1,058 |
| 200-299 | 6 | 6 | 1,408 | 6,457 | 2,551 | 1,812 | 216 | 1,359 |
| 300-399 | 4 | 4 | 1,434 | 4,630 | 1,553 | 1,083 | 57 | 2,358 |
| 400-499 | 5 | 6 | 2,238 | 12,233 | 4,789 | 2,140 | 364 | 2,259 |
| 500-749 | 8 | 15 | 4,641 | 22,402 | 9,634 | 2,076 | 340 | 7,033 |
| 750-999 | 3 | 6 | 2,640 | 12,402 | 5,507 | 2,086 | 89 | 4,363 |
| 1,000-1,999 | 3 | 6 | 4,167 | 12,499 | 5,698 | 1,367 | 481 | 4,001 |
| 2,000-2,499 | 3 | 7 | 7,013 | 20,630 | 9,467 | 1,350 | 524 | 7,457 |
| 2,500 and over | 3 | 5 | 8,948 | 38,832 | 11,301 | 1,263 | 2,204 | 15,655 |
| Total | 75 | 98 | 35,469 | 140,236 | 54,954 | 1,549 | 4,632 | 47,213 |

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

| Average number employed by the enterprise industry (a) | Employees |  | Wages and salaries |  | Employers' 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 <br> (c) | National <br> Insurance <br> (d) | Private pension schemes etc. (e) | Operatives | Others (c) |
|  | Number | Number | \& 000 | \& 000 | \& 000 | \& 000 | \& | $\varepsilon$ |
| 25-49 | 363 | 147 | 278 | 142 | 16 | 4 | 766 | 964 |
| 50-99 | 948 | 354 | 601 | 305 | 39 | 22 | 634 | 861 |
| 100-199 | 775 | 385 | 608 | 356 | 39 | 26 | 782 | 977 |
| 200-299 | 942 | 486 | 698 | 441 | 45 | 30 | 740 | 946 |
| 300-399 | 1,000 | 433 | 740 | 414 | 36 | 28 | 740 | 957 |
| 400-499 | 1,630 | 608 | 1,240 | 560 | 84 | 37 | 761 | 922 |
| 500-749 | 3,001 | 1,633 | 2,063 | 1,518 | 139 | 60 | 688 | 930 |
| 750-999 | 1,641 | 999 | 1,603 | 971 | 77 | 54 | 977 | 972 |
| 1,000-1,999 | 2,668 | 1,499 | 2,121 | 1,402 | 132 | 80 | 795 | 935 |
| 2,000-2,499 | 4,759 | 2,254 | 3,319 | 1,675 | 179 | 129 | 697 | 743 |
| 2,500 and over | 5,853 | 3,095 | 4,576 | 2,688 | 273 | 264 | 782 | 869 |
| Total | 23,580 | 11,853 | 17,844 | 10,473 | 1,080 | 732 | 757 | 884 |

(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

| TABLE 4 | Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a) |  |  |
| :---: | :---: | :---: | :---: |
| Ages | Males | Females | All employees |
|  | Per cent. | Per cent. | Per cent. |
| Under 18 | 3 | 2 | 5 |
| 18 and over | 85 | 10 | 95 |
| All ages | 88 | 12 | 100 |

(a) The percentages relate to the numbers employed (excluding
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 estimate for small firms not making satisfactory returs estimate for small firms not making satisfactory returns
which account for 3 per cent. of the employment shown for
1963 and 16 per cent. for 1958.

$$
\begin{array}{cc}
1958 & 1963 \\
60
\end{array}
$$

Number of firms
$60 \quad 59$
Average number employed
Working proprietors Other persons employed

$$
\} 850\left\{\begin{array}{r}
82 \\
616
\end{array}\right.
$$

(b) 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 for providing transport, or for technical or other servic
rendered) endered).
(c) This is the ratio of total sales of principal products by
the industry to total sales of goods produced and work done. (d) Administrative, technical and clerical employees.
(e) Including both flat rate and graduated contributions.
(f) Including pensions and gratuities paid other than from

Incluaing pen
pension funds.
(g) Excluding expenditure for establishments not yet in production

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

(a) Including reconditioned civil engineering contracting and quarrying machinery and plant valued a
(a) 8880,000 for 1958 . Similar information was not collected for 1963 .
(b) For details of these parts see Table 14. Parts of track-laying tractors are included except
those made by firms classified to the Motor Vehicle Manufacturing Industry.
(c) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of estab
covering more than one establishment.

| E 5 SUPPLEMENT Manufacturers' deliveries of contractors' plant and quarrying machinery, 1958 and 1963 (a) <br> All firms in the United Kingdom |  |  |
| :---: | :---: | :---: |
|  | 1958 | 1963 |
|  | £'000 | £'000 |
| Excavators, trenchers, ditchers and similar digging machinery including buckets and grabs, excluding cableway dragline excavators and rope-hauled drag scrapers Complete |  |  |
| Single bucket excavators of the crawler-mounted friction-driven type, 6 cu.yd. capacity and under |  | 15,691 |
| Trench excavators (i.e. continuous bucket machines with either excavating wheel, vertical boom or ladder boom) Other | 14,228 | 727 13,198 |
| Parts | 5,929 | 6,306 |
| Other earth-moving, earth-levelling and land-clearing equipment, including dozers, graders, levellers, scrapers (other than rope-hauled drag scrapers) loaders and loading shovels, rippers and rooters, dumpers, dump trucks and powered barrows |  |  |
| Complete |  |  |
| Wheeled loading shovels |  | 14,838 |
| Motor graders |  | 1,911 |
| Dumpers and dump trucks |  |  |
| Under $5 \mathrm{cu} . \mathrm{yds}$. capacity | 23,432 | 3,623 |
| 5 cu.yds. capacity and over |  | 6,843 |
| Other |  | 8,402 |
| Parts |  | 6,296 |
| Concrete mixing and placing machinery, complete and parts Concrete mixers - all types |  | 6,340 |
| Concrete truck mixers and agitators | \} 6,604 | 1,689 |
|  |  | 2,387 |
| Asphalt, bitumen tar and tarmacadam boilers, distributors, sprayers, finishers and paddle-mixers, complete and parts | 3,152 | 6,506 |
| Crushing, pulverising and screening plant, complete and parts | 5,958 | 8,176 |
| Rollers |  |  |
| Complete |  |  |
| Dead weight |  | 2,258 |
| Other | 2,578 | 1,436 |
| Parts |  | 716 |
| Crawler tractors, including agricultural crawler tractors (full track), except market garden types (b) |  |  |
| Complete <br> 10 belt h.p. and under 50 belt h.p. | 4,248 | 3,675 |
| 50 belt h.p. and under 100 belt h.p. |  | 3,728 |
| 100 belt h.p. and over | ,10 | 6,941 |
| Parts, excluding engines | 8,927 | 11,273 |
| Total | 77,156 | 132,960 |

(a) This table, which is derived from short period information, supplement the information collected in the 1963 Census and should be read in
conjunction with Table 5 . It refers to the calendar years 1958 and 1963 . goods merchanted or factored (sold without being subjected to any further anuacturing process) are excluded.
(b) Crawler tractors delivered with major equipment mounted are shown as separate
items and the value of the equipment included at the appropriate heading.

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


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

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 | 1963 |
| :---: | :---: | :---: |
|  | Value | Value |
|  | £'000 | \&'000 |
| Agricultural machinery, other than tractors Complete <br> Parts | $\} 245$ | 1,757 214 |
| Metal-working machine tools, new Complete | 400(a) | 632 |
| Parts | 34 | 122 |
| Mechanical handling equipment Complete | 2,077 | 5,034 |
| Parts | 233 | 517 |
| Brick, tile and cement block making machinery, other than kilns Complete <br> Parts | 39 28 | 124 57 |
| Mining machinery, other than portable power tools Complete <br> Parts |  | 345 291 |
| Pumps, valves and compressors Complete and parts | 1,694 | 1,396 |
| Other machinery Complete |  | 1,202 |
| Parts |  | 162 |
| Industrial plant Complete and parts | 164 | 2,825 |
| Fabricated iron and steelwork |  | 1,356 |
| Motor vehicles and parts | 338 | 2,261 |
| Parts sold other than in association with the sale of complete machines | 656 | 435 |
| Iron castings, and wood and metal patterns Other products | \} 809 | $\begin{aligned} & 1,032 \\ & 1,467 \end{aligned}$ |
| Work done |  |  |
| Structural work carried out in Great Britain, excluding the erection of industrial machinery and plant (b) <br> As main contractors <br> As sub-contractors | $\begin{aligned} & 344 \\ & 192 \end{aligned}$ | 15 |
| Repair and jobbing work Other work done | \} 1,169 | 1,252 259 |
| Services rendered to other organisations (c) | .. | 683 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | 5,784 | 11,379 |
| Canteen takings | 126 | 288 |
| Total | 14,332(d) | 35,105 |

(a) Including reconditioned metal working machine tools.
(b) Less the estimated value of goods made and used in this work.
(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.
(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

This table is not applicable to this industry.

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 |  |  |  |  |
|  |  |  |  |  |
| Pig iron, including refined pig iron and other irons for re-melting (a) | 3.9 | 69 | 11.9 | 288 |
| Castings \{ | 17.1 | ${ }^{1,138} 14$ | \} 25.9 | 2,528 |
| Stee 1 |  |  |  |  |
| Ingots, blooms, billets, slabs, and sheet and tinplate bars | 2.7 | 150 | 7.4 | 342 |
| Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (b) | 45.5 | 1,740 | 68.0 | 3,779 |
| Plates, 3mm. thick and over |  |  | 74.5 | 3,686 |
| Hoop and strip (including tape of all thicknesses) | 33.2 | 1,204 | 4.1 | 199 |
| Sheets under 3mm. thick (including electrical sheets) | 4.1 | 190 | 6.5 $\cdots$ | 367 41 |
| Forgings (except drop forgings) \{ | 1.7 | 235 320 | \} 4.1 | 520 |
| Castings | $\stackrel{26.6}{ }$ | 3,434 605 | $\}^{35.3}$ | 6,262 |
| Tyres, wheels and axles (rail type) | .. | 22 | .. | 587 |
| Drop forgings (c) | . | 162 | 9.0 | 1,362 |
| Iron and steel not elsewhere specified except finished parts, wire and scrap |  |  |  |  |
| Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc.) | $\}\left\{\begin{array}{l}1.1 \\ . .\end{array}\right.$ | $\left.\begin{array}{l}76 \\ 30\end{array}\right\}\{$ | $\left\{\begin{array}{c}3.4 \\ .0 \\ 1.8\end{array}\right.$ | 320 268 142 |
| 0 Other (d) |  |  | 1.8 | 142 |
| Precision chain (e.g. transmission and timing) | .. | 386 | . | 553 |
| Springs, laminated and other types | .. | 67 | . | 265 |
| Steel wire and wire manufactures (excluding insulated wires and cables (e) | . | 159 | . | 214 |
| Ferro-alloys | . | 20 | . | 223 |
| Iron and steel scrap | .. | 65 | . | 234 |
| Light metals and non-ferrous metals in all forms except finished parts, wire and scrap |  |  |  |  |
| Aluminium and aluminium alloys | 0.1 | 52 | 0.4 | 134 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) | 1.2 | 467 | 1.1 | 403 |
| Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc.) | .. | (f) | -• | 161 |
| Paint and varnish (including lacquers and stains) | . | 200 \{ | Th.gal. $\substack{\text { 232 }}$ . | 365 42 |
| Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics) | . | (f) | .. | 12 |
| Refractory materials | .. | 13 | . | 44 |

TABLE 10 (continued)

|  | 1954 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
|  |  | \&'000 |  | \& 000 |
| Materials for processing (continued) |  |  |  |  |
| Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms, including finished parts | . | 838 | .. | 1,622 |
| Timber |  |  | Th.stds. |  |
| Softwood, sawn or planed, but not further prepared or manufactured |  | f | 1.5 | ${ }_{34}^{181}$ |
| Hardwood, sawn or planed, but not further prepared or manufactured |  | ${ }^{48}\{$ | Th.cu.ft. | ${ }_{14}^{14}$ |
| Insulated wires, cables, strips and strands (g) |  | 30 | . | 91 |
| Bolts, rivets, nuts and washers, screws, nails, tacks, etc. | . | 353 | .. | 875 |
| Machinery bought for installation | .. | (f) | . | 1,849 |
| Purchased components for incorporation in firms' own products |  |  |  |  |
| Ball and roller bearings and parts thereof | . | 415 | . | 1,044 |
| Electric motors |  |  |  |  |
| of less than $1 \mathrm{~h} . \mathrm{p}$. |  |  | .. | 163 |
| of $1 \mathrm{~h} \cdot \mathrm{p}$. and over |  | 6 | . | 930 |
|  | Number |  | Number |  |
| Internal combustion engines | 26,400 | 3,355 1,219 | 39,411 | 7,576 1,192 |
| Industrial valves |  | 73 | .. | 1,095 |
| Gear and gear wheels of metal |  | 324 | .. | 1,076 |
| Pumps |  | 102 | . | 759 |
| Measuring instruments and gauges and parts |  |  |  |  |
| Industrial process measuring and control instruments and equipment |  |  | .. | 241 |
| Other |  |  |  | 948 |
| Plastic goods moulded and fabricated |  |  | .. | 116 |
| Other components not elsewhere specified except those of rubber and asbestos ( h ) |  | 3,378 | .. | 19,027 |
| Purchased second-hand machinery for reconditioning |  | (f) |  | 538 |
|  | Th.gal. |  | Th.gal. |  |
| Lubricating oils and greases (including cutting oils and emulsions) | 112 | ${ }_{25}^{28}$ | 531 | 154 38 |
| Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement | .. | 666 | . | 1,546 |
| All other materials for processing | . | 4,865 | . | 4,645 |
| Packaging materials |  |  |  |  |
| Timber |  |  |  |  |
| Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates |  |  | . | 61 |
| Timber (sawn or planed) for manufacture into packing cases, etc. |  | , | $\begin{array}{r}287 \\ \hline\end{array}$ | 142 21 |
| All other packaging materials | .. | 41 | . | 98 |

46/14
TABLE 10 (continued)

|  | 1954 |  | 1983 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
| Fuel and electricity | Th.tons | £ 000 | Th.tons | $\varepsilon^{\prime} 000$ |
| Coal | 29.3 | 112 \{ | 17.9 .9 | 110 13 |
| Coke (including screenings) and manufactured fuel | 12.3 | 80 | 15.8 | 170 |
|  | Th.gal. |  | Th.gal. |  |
| Derv fuel and motor spirit for use in road vehicles | 454 | 89 \{ | 822 <br> .0 | 172 35 |
| Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases) | $\stackrel{619}{ }{ }^{-}$ | 30 8 8 | \} 8,826 | 374 |
| Gas | $\begin{gathered} \text { Th.therms } \\ 1,797 \\ . . \end{gathered}$ | ${ }_{16}^{106}$ | $\begin{array}{\|r\|} \text { Th. therms } \\ 2,844 \\ \cdots \end{array}$ | 188 39 |
|  | Th. kWh |  | Th.kwh |  |
| Electricity | 31,299 | 160 86 | $\} 221,950$ | 902 |
| Total cost of materials and fuel |  | 28,108 |  | 71,407 |
| Goods purchased for merchanting |  | . |  | 10, 183 |
| Canteen purchases |  | .. |  | 276 |
| Total cost of purchases |  | .. |  | 81,866 |

(a) Described in 1954 as 'Pig iron except refined pig-iron'.
(b) 'Pillars rolled (not fabricated) including tube rounds and squares' were not included in 1954. (c) Described in 1954 as 'Drop forgings of iron and steel'.
(d) Heading in 1954 covered 'iron' only.
(e) Described as covering iron and steel in 1954.
(f) Not recorded separately in 1954
(g) 'Strips and strands' were not included in 1954.
(h) Components of rubber and asbestos were not excluded in 1954.

|  | Unit | 1963 |
| :---: | :---: | :---: |
| Average number employed mainly on transportTransport costs | No. | 309 |
|  |  |  |
| Wages and salaries | £'000 | 253 |
| Derv fuel and motor spirit |  | 207 |
| Payments to other organisations for transport | " | 1,367 |
| Costs of operating road goods vehicles |  |  |
| Insurance | " | 25 |
| Vehicle licences | " | 24 |
| Depreciation | " | 127 |
| Payments to other organisations for repairs and maintenance | " | 77 |
| Total | , | 2,080 |

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

|  | Amounts <br> payable |
| :--- | :---: |
| Repairs and maintenance to | $\varepsilon^{\prime} 000$ |
| Buildings | 202 |
| Road goods vehicles | 77 |
| Plant, machinery, and other capital equipment | 205 |
| Insurance, licensing and depreciation of road <br> goods vehicles (b) | 176 |
| Rates, excluding water rates | 593 |
| Hire of plant and machinery | 131 |
| Postage, telephone, telegrams and cables | 529 |
| Total | 1,913 |

(a) No deduction is made for these payments to arrive at the (b) For details nee output giv

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 <br> total number <br> employed | Year ended | Percentage of <br> total number <br> employed |
| :--- | :---: | :---: | :---: |
| 1963 | Per cent. | 1963 <br> (contd.) | Per cent. |
| April (a) | 0.1 | November | 0.4 |
| May | 0.1 | December | 53.9 |
| June | 11.5 |  |  |
| July | 0.1 | 1964 |  |
| August | 1.6 | January | 0.4 |
| September | 16.4 | February | 0.0 |
| October | 0.5 | March | 14.9 |

[^0]TABLE 14 Sales of all parts of contractors' plant and quarrying machinery by arger firms, including sales of establishments classified to other , 1958 and 1963
Firms employing 25 or more persons: United Kingdom

| (i) Parts sold in association with the sale of complete machines characteristic of this industry (a) <br> (ii) Other parts sold (b) | 1958 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | (i) | (ii) | (i) | (ii) |
|  | £'000 | £ 000 | £ 000 | \& 000 |
| PARTS of civil engineering, contracting and quarrying machinery and plant |  |  |  |  |
| For excavators, dozers (i.e. equipment without tractors), graders, scrapers, shovel loaders, dumpers, asphalt mixing and laying machines, road rollers, concrete mixers, pile drivers and quarry crushing and screening plant, etc, but excluding cableway dragline excavators and rope-hauled drag scrapers, cranes, hoists, compressors and tractors <br> 11,813 <br> 1,597 <br> 19, 050 <br> 3,884 |  |  |  |  |
| For well drilling machinery |  |  |  |  |
| For petroleum |  |  | 896 |  |
| For other | 1,555 | 2,926 | 325 |  |
| For track-laying tractors (including three-wheel tractors but excluding works tractors) (c) | 1,744 | 883 | 1,676 | 1,251 |
| Total | 15,112 | 5,406 | 21,948 | 5,500 |

(a) Principal products of this industry
(b) Principal products of General mechanical Engineering.
(c) Excluding parts of track-laying tractors made by firms classified to the Motor venicle Manufacturing Industry.

Capital Expenditure (cont inued)
(ii) Land and existing buildings.

The items shown are the capital cost of freeholds purchased and the capital cost o premium payable for leaseholds acquired
(excluding the value of any assets acquire excluaing the value of any assets acquired
in taking over an existing business), and
the amounts receivable for any freeholds he amounts receivable for any freeholds o easeholds disposed of. The value is tha
charged to capital account during the yea charged to
of return.
(iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicless acquired, both new and second-hand, and the amount
received for items disposed of during year. The value of plant and machinery acquired includes plant, etc. which firms
produced for the ir own use in connect ion produced for the ir own use in connection
with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account
during the year of return less any dis-
counts received, but including the cost o
transport and installation. No dedest of ion
is made for depreciation, amortisation or
is made for depreciation, amor $r$ isation or
obsolescence.
The proceeds of items
disoles
obsolescence. The proceeds of items
disposed of during the year exclude amounts
written off for items scrapped. ital expenditure during the year
of manufactur ing establ ishments where prouction had not started before the end of the year is ex
and 1963.
Characteristic Products
The characteristic products of a sub-division
are those in terms of which the sub-division is defined. They are products commonly associaed in production and are usually similar in Ine character ist ic product $s$ of each most
tubivision are indicated in Table 5 of the industry reports. For those industries for
which an analys is by sub-divisions has been nade, Table 2 shows the total sales of such character istic products for each sub-division.
The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g

Enterprise
The term enterprise is used in this report to ean one or more firms under common ownership or An enterprise normally consists either of a single firm, or of a parent company

Entries
The number of entries shown in Tables 5, 6 and against a particular output or productio f igures were recorded for that item.
Establishment
The census was based on the establishment
comprising in most cases the whole of the premises under the same ownership or managemen at a part icular address (e.g. a factory or
mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in pro-
duction for which they kept a separate duction for which they kept a separate set
accounts. Where separate accounts were not
kept
factoring canteens to include merchanting or
ancillary activities such as bottling, packing and the manufacture of containers for packing
their own products, whether ar mot their own products, whether or not these
activities are carried on at the same addres as the works. Building and engineering maintenance departments and selling and trans-
port departments were treated similarly

Gross Output
The gross output of an industry is the aggregate value of goods made and other work done during the year by the establ ishments classi-
fied to the industry. It is derived by subtracting from the value of sales and work done the value of stocks of goods on hand for sale and work in progress at the beginning of the
year and adding the value at the end of the year.
Larger Firms
These are firms in which twenty-five or more
persons were employed on the average during the year.
Net Output
The net output of an industry represents the value added to materials by the process of pro-
duction. merchanted or factored goods sold; it con- any merchanted or factored goods sold; it con-
stitutes the fund from which wages, salaries, insurance, pensions, hire of wages, salaries
int and machinery, payments for repairs and mainten-
ance, costs of operating road vehicles, rents, ance, costs of operating road vehicles, rents,
rates and taxes, advertising and other sell ing expenses and all other similar charges have to
be met, as well as depreciation and profits. be met, as well as depreciation and profits.
There is no appreciable duplication in net out put. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work
given out to other firms, and payments for
transport.
Normally any customs or excise duty on
materials purchased is included in the cost of materals purchased is included in the cost of
materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies,
allowances and levies receivable or payable, where of substantial importance in the industry vere required to be stated separately, and thes items were
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 the and part-time) on all activities covered by the
returns, including operatives, administrative, technical and clerical employees and working
proprietors, but excluding outworkers.

Principal Product
The princ ipal products of an industry are those
in terms of which the industry is defined. in terms of which the industry is defined They are products commonly associated in pro-
duction, and are usually similar in nature or
manner of product ion. manner of production
Production
This means the total quantity of a product made
during the year, whether sold in the year, added during the year, whether sold in the year, added to stock, transferred to another department
the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced fro materials supplied by other firms. turnable cases and containers when first
purchased; of workshop materials, of $f$ ice purchased; of workshop mater repairs to firms'
materials and materials for
own buildings, plant and vehicles when carried own buildings, plant and vehicles when carried
out by their own workpeople included in the out by their own workpeople included in the
return; of consumable tools; and of parts fo return, of consumable tools; and of parts for
machinery purchased dur ing the year as replace-
ments. Water charges are also included. In ments. Water charges are also included. In
general purchases of goods for merchant ing or general purchases of goos for mer ing and canteen supplies are included.
factor Mater ials supplied by customers for processing The values shown include any duty paid (less rebate, etc.) but exclude trade discounts
allowed. The cost of transport is included
only if included in the cost of materials as only if included in the cost of materials as
invoiced; amounts paid to transport organisa tions, including firms' own separate transpor
organisations, for del ivery of materials and organisations, for delivery of materials and
fuel are, therefore, excluded. Materials purchased overseas are included at their c.i.f.
cost plus any duty payable if the cost of in the cost plus any duty payable if the cost of in the
transport from the docks was not included in
invoiced price, but at the ir full delivered cost nvoiced price, but at the ir full delivered cast
if invoiced 'carriage paid home'. Materials and fuel transferred from another department of he firm not covered by the same return are
included at the est $i$ mated selling value recorded the other department.

Sales
Sales are in respect of goods made by the
business covered by the return, goods made for business conved
it by out workers or by other firms from it by outworkers or by other (somet imes described
mater ials given out to the (some as goods made on commission) and waste product
Any machinery or other capital items produced Any mach inery or other capital items produced
for use in the business covered by the return are included the value being that adopted in
the firm's capital asset account. Goods sold the firm's capital asset account. Goods sol
without being subjected to any manufactur ing
process (merchanted or factored) and canteen without being subjected to any manuf actur ing
process (merchanted or factored) and canteen
takings are included as in 1958 . takings are included as in 1958 .
The value shown for sales is the netling The value shown for sales is the net selling
value, def ined as the amount charged to
customers whether on an ex-works or del ivered customers whet her on an ex-works or del ivered
casis, net of any trade discounts. bas is, net of any trade discounts, agents
commissions, allowances for returnable cases, commissions, all
purchase tax, etc:
the net amount charged for purchase tax, etc. the net amount charged
packing mater ials is included. Goods charged
on a delivered basis to customers overseas are on a delivered basis to customers overseas are
included at the foob. value. For work done on included at the f.o.b. value. For work done on
commission or for the trade the value shown is the net amount charged.
Where goods produced Where goods produced in one department were
transferred to another department of the same transferred to another department of the same
firm not covered by the return, these transfers
were treated as sales by the were treated as sales by the producing depart-
ment and valued as far as possible as if they ment and valued as ar ar an to an independent purchaser.
had been Goods transferred to wholesale or retail sell ing or ganisations for which separate acco
were kept were valued on the same basis. Estimations of a similar kind were also some$t$ imes necessary in valuing transfers between
different firms belonging to the same enterdifferent firms belonging to the same enter
prise. To the extent that the sales of prise.
finished products of one establishment may
constitute the materials purchased by anothe constitute the materials purchased by another
total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

Services rendered
This represents the amounts charged for hiring out plant, machinery and other goods, providing
transport, or for any technical or other

List of Industry Reports, etc

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Part No. and title
l
3 Stone and Slate Quarrying and Mining
4 Chalk, Clay, Sand and Gravel Extraction
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Mining and Qua
7 Grain Milling
% Biscuits 
O Bacon Curing, Meat and Fish Product 
2 Sugar (rouc,
l
4. Fruit and Vegetable Produc
l
l
17 Starch and Miscellaneous Foods 
17 Starch and Miscell aneous Foods 
2 Coke Ovens and Manufactured Fuel
23 Mineral Oil Refining
6 Fertilizers and Chemicals for Pest Control
7 General Chemicals 
$8 Pharmaceut ical Prepa
o Explosives and Firework
O Explosives and Fireworks
$ Yegetable and Animal Oils and Fats
33 Soap, Detergents, Candles and Glycerine
$ Polishes,Adesives, etc.
36 Gelatine, Adhesives, etc,
$,
lol
lol
42 Metal-working,Mach ine Tools
*)
44 Industrial Engines 
*)
Mechanical Handling Equipment
48 Of fice Nachinery 
50 Ordnance and Small Arms
$2 General Mechanical Enineer ing
53 Scientific, Surgical
54 Watches and Clocks
55 Electrical Mach inery
6 Insulated Wires and Cables
\
$( Te legraph and Telephone Apparatus 
58 Radio and Other Electronic Appa
60 Miscellaneous Electrical Goods 
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lol
64 Aircraft Manufactur, ing and Repairing
lol
l
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Part No

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Part No
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Part No
Cut1
Cut1
Cut1
Bolts, Nuts, Screws, Rivets, et
Bolts, Nuts, Screws, Rivets, et
Bolts, Nuts, Screws, Rivets, et
. Wire and wire Mcrews, Rivets,
. Wire and wire Mcrews, Rivets,
. Wire and wire Mcrews, Rivets,
Cans and Metal Boxes
Cans and Metal Boxes
Cans and Metal Boxes
lallol
lallol
lallol
lu Merals (1aneous Metal Manufacture
lu Merals (1aneous Metal Manufacture
lu Merals (1aneous Metal Manufacture
la Prouction of Ma-made Fibtres S
la Prouction of Ma-made Fibtres S
la Prouction of Ma-made Fibtres S
Spinning and Doubling of Cotton, Flax and
Spinning and Doubling of Cotton, Flax and
Spinning and Doubling of Cotton, Flax and

* w
* w
* w
Twine and Net
Twine and Net
Twine and Net
81 Hosiery
81 Hosiery
81 Hosiery
l
l
l
Household Text iles and Handkerchiefs
Household Text iles and Handkerchiefs
Household Text iles and Handkerchiefs
Canvas Goods and Sack
Canvas Goods and Sack
Canvas Goods and Sack
Asbestos
Asbestos
Asbestos
Miscellaneous Textile Industries
Miscellaneous Textile Industries
Miscellaneous Textile Industries


# 

# 

# 

Leather Goods
Leather Goods
Leather Goods
Meatherproof Outerwear
Meatherproof Outerwear
Meatherproof Outerwear
M 's and Boys' Tailored Outerwear
M 's and Boys' Tailored Outerwear
M 's and Boys' Tailored Outerwear
Overalls and Nen's'Shirts, Uuderwear, etc.
Overalls and Nen's'Shirts, Uuderwear, etc.
Overalls and Nen's'Shirts, Uuderwear, etc.
l
l
l
l
l
l
3 Pottery
3 Pottery
3 Pottery
5 Glass
5 Glass
5 Glass
l
l
l
Timber (lure and Upholstery
Timber (lure and Upholstery
Timber (lure and Upholstery
F
F
F
Bedding and Soft Furnishings
Bedding and Soft Furnishings
Bedding and Soft Furnishings
li. Shop and Office Fitting
li. Shop and Office Fitting
li. Shop and Office Fitting
14 Paper and Board, Cartons and Fibre-board
14 Paper and Board, Cartons and Fibre-board
14 Paper and Board, Cartons and Fibre-board
Macking Cases
Macking Cases
Macking Cases
1% Miscel laneous Manufactures of Paper and Boarc
1% Miscel laneous Manufactures of Paper and Boarc
1% Miscel laneous Manufactures of Paper and Boarc
Meriodicals
Meriodicals
Meriodicals
18 Genera
18 Genera
18 Genera
Rubber
Rubber
Rubber
20 Linoleum, Leathercloth, etc
20 Linoleum, Leathercloth, etc
20 Linoleum, Leathercloth, etc
\$20 Linoleum, Leatherc
\$20 Linoleum, Leatherc
\$20 Linoleum, Leatherc
22 Toys,Games and Sports Equipmen
22 Toys,Games and Sports Equipmen
22 Toys,Games and Sports Equipmen
l
l
l
24 Plastics Moulding and Fabricating
24 Plastics Moulding and Fabricating
24 Plastics Moulding and Fabricating
125 Miscel laneous Manufacturing Industrie
125 Miscel laneous Manufacturing Industrie
125 Miscel laneous Manufacturing Industrie
126 Construction
126 Construction
126 Construction
27 Gas
27 Gas
27 Gas
lom
lom
lom
l29 Water Supply
l29 Water Supply
l29 Water Supply
32 Summary Volume

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32 Summary Volume
```

32 Summary Volume

```
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art No. and title

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art No. and title
```

art No. and title
Twine and Net
Twine and Net
Twine and Net
<-3)
<-3)
<-3)
art No. and titie
loke ovens and Manufactured Fuel
ing
ing
ing
Dyestuffs
Pharmaceutical Preparation
3 Motor Cycle, Three-wheel Vehicle and P

```
services rendered to other organisations. It
includes amounts credited for similar services includes amounts credited for similar services rendered to other departme.
not covered by the return.
Small Firms
These are firms in which fewer than twenty-five
persons were employed on the average during the
tocks and Work in Progress
alues are given of stocks of goods on hand for ale, and of materials and fuel, at the beginning and end of the year of return, including factoring. The values include duty in the case of dutiable goods held out of bond. The value work in progress at the two dates is also 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 payment eceived.
Transport Payments
These represent the total amount paid or
credited during the year for both outward credited during the year for both outwards
transport of \(f\) in ished goods sold and inwards transport of materials and fuel purchased. They include payments to other fircs, and to
any separate transport or ganisation of the same any separate transport organisation of the same
firm, not covered by the return, but exclude the value of transport services provided by th business covered by the return. The items
included are payments for hired cartage and for ncluded are payments for hired cartage and for
nwards and outwards carriage by all forms of nland transport, i.e. 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
Wages and Salaries
These are the amounts paid during the year to and clerical employees. Payments to working and crier ical employees. Payments, salaries or not, propr ietors, whether caled Irland this
are excluded; in Northern Ireland exclusion extends also to payments to
directors of limited companies. The values shown include all overtime payments, bonuses
and commissions, whether paid regularly or not and commissions, whe ther paid regularly or not
and no deduction is made for income tax, insurances, contr ributory pensions, etc. The insur ances, contributory pensions, etc.
value of any payments in kind, travellin
expenses, lodging allowances, etc. and expenses, lodg ing allowances, etc. and
employers. contributions to National Insurance amp pension schemes is excluded.
Work given out
The figures shown represent the total amount The figures shown represent the total amount
paid for work done by other firms on, materials
supplied to them, and also by firms supplied to them, and also by firms' own
establ ishments for which separate returns were nade. They do not include payments to individual outworkers or payments for business and other services.
Symbols used
The following symbols are used throughout the
.. Not available
Not ar negligible (less than half the
Ninal digit shown)
final digit shown)
Figures cannot be shown owing to the risk of disclosing information about
individual enterpr ises. 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
bet teen the sums of the constituent items and
the totals shown. other departments of the



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[^0]:    (a) Including returns made for twelve-month periods ended 1st to 5 th April, 1964 .

