## PA353

## Business Statistics Office

## Business Monitor

Report on the<br>Census of Production

## Surgical instruments and appliances



## PA353

## Business Monitor

## Report on the Census of Production 1976

with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business $P$ (for production) followed first by A (indicating tha
it is an annual series) or Q (quarterly) or M (monthly):
and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are availa on standing order (details on application to Her
Majesty's Stationery Office, P.O. Box 569, London
SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

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Business Statistics Office
Newport, Gw
Newport 56111 (STD code 0633) ext 2455
Telex 497121
Telex 497121 BSOR Back BSONPT G

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    V Vegetable and animal oils and fats
    Starch and miscellaneous foods
    L Starch and miscellaneous
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        2. (Primary and secondary batteries 
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        Shipbuilding and marine engineerin
        Wheled tractor manufacturing 
    M Moto vericle manufacturing 
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    Metal furniture
    Drop forgings, etc. 
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The information in this report relates to establishments classified to the Surgical instruments and appliances industry. minimum list heading The information in this report relates to establishments classified to the Surgical instruments and app
353 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing surgical cutlery, dental instruments, splints, trusses, artificial eyes, artificial teeth and artificial limbs and other surgical and Manufacturing surgical cutlery, dental instruments, splints, trusses, artificial eyes, artificial teeth and artificial limbs and other surg
dental appliances except items made of plastics materials; spectacles, monocles, goggles, etc. including frames and lenses. Electro-
medical equipment and X-ray apparatus are excluded. dental appliances except items made of plastics materials; spectacles, monocles, goggles, etc. including frames and lenses. Electro-
medical equipment and X-ray apparatus are excluded.
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in mind the notes and definitions which commence on page (iii).
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Output and costs. 1973.1976
All United Kingdom establish

|  | Unit | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises | Number | 861 | 915 | 943 | 984 |
| Establishments |  | 918 | 977 | 1,005 | 1,064 |
| Sales of goods produced | £ thousand | 110.214 | 138.233 | 168.406 | 193,462 |
| Receipts for work done and industrial services rendered | " | (b) | (b) | (b) | 5,953 |
| Capital goods produced for establishments' own use | " | 560 | 527 | 850 | 681 |
| Non-industrial services rendered | " | 306 | 744 | 335 | 836 |
| Goods merchanted or factored | " | 17,171 | 22,833 | 28,492 | 29,924 |
| Total sales and work done (c) | " | 128,251 | 162,336 | 198,083 | 230,856 |
| Increase during the year, work in progress and goods on hand for sale | " | 2,305 | 8,632 | 5,233 | 2,418 |
| Gross output | " | 130,556 | 170,968 | 203,316 | 233,274 |
| Purchases of materials for use in production, and packaging and fuel | " | 41,687 | 55,729 | 63,947 | 77,247 |
| Purchases of goods for merchanting or factoring | " | 13,446 | 18,067 | 20,333 | 20,356 |
| Increase during the year, stocks of materials, stores and fuel | " | 3.132 | 6,156 | 1.919 | 2.912 |
| Cost of industrial services received | " | 2,273 | 3,278 | 4,032 | 5,158 |
| Net output | " | 76,282 | 100,050 | 116,923 | 133,425 |
| Total employment (d) | Thousands | 30.8 | 31.6 | 30.9 | 31.8 |
| Net output per head | £ | 2,480 | 3,169 | 3,780 | 4,197 |
| Payments for non-industrial services |  |  |  |  |  |
| Rents, hire of plant and machinery (e) (f) | £ thousand | 1,448 | 1,781 | 2,002 | 2,675 |
| Commercial insurance premiums | " | 779 | 861 | 924 | 1,241 |
| Bank charges | " | 98 | 118 | 114 | 127 |
| Other non-industrial services (g) | " | 3,326 | 5,563 | 6.178 | 7.618 |
| Licensing of motor vehicles | " | 257 | 53 | 101 | 76 |
| Rates, excluding water rates | " | 1,003 | 1,444 | 1,517 | 1,899 |
| Gross value added at factor cost | " | 69,371 | 90,230 | 106,088 | 119,789 |
| Gross value added at factor cost per head | £ | 2,255 | 2,858 | 3,430 | 3,768 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size.
Satisfactory returns accounted for 64 per cent of employment within the industry.
(b) Included in Sales of goods produced.
(c) A breakdown of manufacturers' sales of principal products are published regularly in Business Monitor PQ353
(d) Average number employed, including full and part-time employees (see table 7 ) and working proprietors
(e) 1973 figures include hire of venicles
(f) For 1973 -1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was $£ 2,129$
thousand. thousand.
(g) 1974-1976 figures include the cost of hiring goods vehicles.
tABLE 2
Capital expenditure, 1973-1976
All United Kingdom establishments classified to the industry (a) (b)

|  | 1973 | 1974 | 1975 | £ thousand |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1976 |
| Land and buildings |  |  |  |  |
| New building work | 904 | 451 | 694 | 351 |
| Land and existing buildings |  |  |  |  |
| Acquisitions | 253 | 291 | 576 | 241 |
| Disposals | 573 | 687 | 172 | 49 |
| Venicles |  |  |  |  |
| Acquisitions |  |  |  |  |
| Motor cars | 755 | $915!$ | 1.154 | 1.644 |
| Other vehicles | 75 | 601 |  |  |
| Disposals |  |  |  |  |
| Motor cars | 287 | 3521 | 419 | 606 |
| Other vehicles | 13 | $6)$ |  |  |
| Plant and machinery |  |  |  |  |
| Acquisitions | 5.199 | 5,006 | 4,817 | 6.386 |
| Disposals | 351 | 266 | 316 | 249 |
| Total net capital expenditure | 5,963 | 5.411 | 6,334 | 7,717 |

(3) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 64 per cent of employment within the industry.
(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is
included. included.

## table 3

Stocks and work in progress, 1973-1976
All United Kingdom establishments classified to the industry (a)

|  |  |  |  |  | £ thousan |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1973 | 1974 | 1975 |  |  |
|  |  |  |  |  | Value at end of year |
|  |  |  |  |  |  |
| Materials, stores and fuel | 3.132 | 6.156 | 1.919 | 2,912 | 26,032 |
| Work in progress | 2,024 | 3,544 | 1,378 | 749 | 15,679 |
| Goods on hand for sale | 281 | 5,088 | 3,855 | 1.669 | 19,611 |
| Total | 5,437 | 14,788 | 7,152 | 5,330 | 61,321 |

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Including estimates for establishments not making satisfactory returns, non-response
Satisfactory returns accounted for 64 per cent of employment within the industry.

Analysis of establishments by size, 1976 All United Kingdom establishments classified to the industry (a)

| Size group (b) | Estab. lishments | Enterprises <br> (c) | Employment |  |  | Wages and salaries (f) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total <br> (d) | Opera-tives | Others <br> (e) | Operatives |  | Others (e) |  |
|  |  |  |  |  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |


| $1-10$ | 747 | 732 | $3,106)$ |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $11-19$ | 105 | 100 | $1,522)$ |  |  |  |  |  |  |
| $20-49$ | 104 | 96 | $3,379)$ | 7,718 | 2,450 | 15,637 | 2,026 | 7,108 | 2,901 |
| $50-99$ | 43 | 43 | $2,988)$ |  |  |  |  |  |  |
| $100-199$ | 34 | 31 | 4.772 | 3,609 | 1,155 | 7,422 | 2,056 | 3,577 | 3,097 |
| $200-299$ | 10 | 9 | 2,496 | 1,875 | 620 | 4,231 | 2,257 | 1,923 | 3,101 |
| $300-399$ | 5 | 5 | 1,765 | 1,171 | 594 | 2,487 | 2,124 | 1,710 | 2,879 |
| $400-499$ | 5 | 5 | 2,267 | 1,685 | 582 | 4,489 | 2,664 | 2,303 | 3,956 |
| $500-749$ | 4 | 4 | 2,360 | 1,548 | 812 | 3,534 | 2,283 | 2,611 | 3,216 |
| 750 and over | 7 | 6 | 7,133 | 5,284 | 1,849 | 14,192 | 2,686 | 6,255 | 3,383 |


| Total | 1,064 | 984 | 31,788 | 22,890 | 8,062 | 51,992 | 2,271 | 25,487 | 3,161 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(a) Including estimates for establ ishments not mak ing satisfactory returns, non-response and establishments with fewer than 20 employees.
(b) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.
(d) Including working proprietors.
(e) Administrative, technical and clerical employees.

| Total sales and work done (g) | Gross output | Net output |  | Gross value added at factor cost |  | Net capital expenditure (h) | Total stocks and work in progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
| £ thousand | £ thousand | f thousand | £ | £ thousand | £ | £ thousand | £ thousand |
| 75,343 | 76,442 | 44,048 | 4.006 | (j) | (j) | 1.914 | 12,601 |
| 34,975 | 36,016 | 20,003 | 4,192 | 58,679(j) | 3,722(j) | 1.153 | 8.431 |
| 14,640 | 14,972 | 10,005 | 4,008 | 8.975 | 3,596 | 325 | 3,504 |
| 13,062 | 13,348 | 8.121 | 4,601 | 7.046 | 3.992 | 273 | 4.028 |
| 21,511 | 22,528 | 13,259 | 5,849 | 12.410 | 5,474 | 1.099 | 7.720 |
| 18,294 | 17,473 | 9.679 | 4.101 | 8.695 | 3,684 | 1.057 | 6.142 |
| 53,031 | 52,496 | 28,310 | 3,969 | 23,983 | 3,362 | 1.896 | 18,895 |

$\begin{array}{llllllll}230,856 & 233,274 & 133,425 & 4,197 & 119,789 & 3,768 & 7,717 & 61,321\end{array}$
(f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is sstimated for the industry at $£ 9,728$ thousand. In addition the remuneration of outworkers on returns receive was $£ 124$ thousand.
(g) Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done
industrial and non-industrial services rendered and merchanted goods.
(h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery
(j) Gross value added data relate to establishments employing 1-199.
table 5
-2

| Area | Total employment (a) |  | Net capital expenditure (b) (c) |  | Net output, gross value added and employment in the region from returns received from establishments with more than 80 per cent of their employment in the region (d) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Net output | Gross value added at factor cost | Employment as a percentage of total regional employment in the industry |
|  | Thousands | per cent of <br> United <br> Kingdom |  |  | £ thousand | per cent of United <br> Kingdom | £ thousand | £ thousand |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 0.7 | 2.1 | 141 | 1.8 | 335 | 298 | 19.4 |
| Yorkshire and Humberside | 2.5 | 7.8 | 443 | 5.7 | * | * | * |
| East Midlands | 1.1 | 3.6 | 117 | 1.5 | 2,298 | 2,086 | 75.6 |
| East Anglia | . | . | * | * | * | * | * |
| South East | 16.9 | 53.2 | 3.599 | 46.6 | 41,500 | 35,926 | 54.8 |
| South West | . | * | * | * | * | * | * |
| West Midlands | 1.8 | 5.7 | 302 | 3.9 | * | * | * |
| North West | 2.0 | 6.3 | 274 | 3.6 | 2,183 | 1,998 | 39.5 |
| England | 26.5 | 83.3 | 5.142 | 66.6 | 58,440 | 51,557 | 51.7 |
| Wales | 2.2 | 6.8 | 418 | 5.4 | * | * | * |
| Scotland | 1.6 | 4.9 | 708 | 9.2 | * | * | * |
| Great Britain | 30.2 | 95.0 | 6,267 | 81.2 | 61.576 | 54,465 | 48.2 |
| Northern Ireland | 1.6 | 5.0 | 1,450 | 18.8 | 7.077 | 6,719 | 95.6 |
| Unallocated (e) | - | - | - | - | 64,772 | 58,604 | - |
| United Kingdom (b) | 31.8 | 100.0 | 7.717 | 100.0 | 133,425 | 119,789 |  |

(a) Average number employed, including full and part-time employees (see table 7 ) and working proprietors.
(b) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.
(c) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
(d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output and gross value added at each address covered by a return was proportional to employment at
the address.
(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for
table 6
Percentage an
persons. 1976

| Accounting year ended | Percentage of total returns received | Percentage of total number employed |
| :---: | :---: | :---: |
|  | per cent | per cent |
| 1976 April (a) | 3.8 | 3.2 |
| May | 2.3 | 0.5 |
| June | 5.3 | 7.5 |
| July | 0.8 | 0.2 |
| August | 3.0 | 1.0 |
| September | 6.1 | 5.5 |
| October | 0.0 | 0.0 |
| November | 8.4 | 18.6 |
| December | 48.1 | 37.9 |
| 1977 January | 6.1 | 6.8 |
| February | 0.8 | 0.2 |
| March (b) | 15.3 | 18.5 |

(a) From 6th April.
(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7
Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

| Sex | Full-time | Part-time | All employees |
| :---: | :---: | :---: | :---: |
|  | per cent | per cent | per cent |
| Male | 56 | 2 | 58 |
| Female | 30 | 12 | 42 |

Female

Source: Department of Employmen
(a) The percentages relate to the numbers employed lexcluding working proprietors) in the United Kingdom at end June, 1976

Notes
These notes give the main information needed for Interpreting the figures in the Industry Business Monitors: more detailed information about the
census is given in a separate Business Monitor PA 1001 (Introductory Notes) of the Report on the
general information
Changes made for 1976
The Census for 1976 is in line with similar
Inquiries being conducted in other member countries Inquiries being conducted in other member countries
of the European Economic Communities. There was a of the European ef changes in the scope of the
small number of
Industry reports compared with 1975. These include small number of changes
Industry reports compared
separate headings for:
Sales of goods produced
Recelpts for work done and industrial services rendered
Amounts pald for hire of plant and machinery
Amounts paid for rent of industrial and Amounts paid for
commerctal building
Spectitic changes are explained in the introductions
to the industry reports or by footnotes to the to the industry reports or by footnotes to the tables
Suppression of information relating to individual undertakings
Sectlon $9(5)$ (b) of the Statistics of Trade Act 1947
states - "The following provisions shall have effect with respect to any report, summary or other commun cation the public of information obtained under the foregoing provisions of this Act or
in compliling any such report, summary, or
communication the competent authority shall so arrange it as to prevent any particulars
published therein from being identifled as being puarticulars relating to any individual person or undertaking except with the previous consent in
writing of that person or the person carrying on that undertaking, as the case may be; but this
provision shall not prevent the disclosure of the total quantity or value of any articles produced, sol or delivered; so, however, that before
disclosing any such total the competent authority
shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating
to him or to an undertaking carried on by him to to him or to an undertaking carried on
If a figure involved disclosure. the contributor
concerned was sometimes asked to give permission concerned was sometimes asked to give permission
for its publicatlon. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with
other figures, or as the regional tables, by
omitting the figure altogether.
Symbols used
The fol lowing symbols are used throughout the PA
serles of Business Monitors:
.. not avallable

* nll or less than half the final digit shown
figures cannot be shown owing to the risk of
disclosing information about individual enterprises
revised

Rounding of figures
Figures in the tables have, where necessary, been rounded to the nearest final digit. Where fligures items may not always agree exactly with the total
ndustrial classification United KIngom Standard Industr
The Inssification (siC) was first Issued in 1948
was subsequently revised in 1958 and 1968 it xists to promote uniformity and comparabili official statistics of the United Kingd he general principles followed are those of the
international Standard Industrial of all Economic Activities of the United Nation statistical Office but the United Kingdom Sic eflects the organisation and structure
industry and trade as it exists in the Unit Kingdom. The SIC is a classification by activi and is not a commodity classification. However,
an index of all commodity headings for which sales data are provided in the Quarterly Business
Monitors, is published in Business Monitor PQ1000.

## Statistical units

The statistical unit for the purpose of the Census
is the establishment which is defined in the sic is the establishment which is defined in the sic as the smallest unit which can provide
information normally required for an economic census, for example, employment, expenses, turn-
over, capital formation. Usual ly the principal over, capital formation in an establishment fall
activities carried on in an within a single heading of the classification (e.g. steel making or sugar refining). Typically
the establishment embraces all the activities carried on at a single address e.g. a farm, a mine to the principal activities. Frequently distinct
activities characteristic of different industries ctivities characteristic of different industries are carried on at one address, but normally these
re not classified separately and the whole establishment is classifled according to the maln
activity. If, however, the required range of data ctivity. If, however, the required range of data
can be provided for each activity, each is taken can be provided for each activity, each is taken
o constitute a separate establishment. Sometimes activities which are conducted as a single
business are carried on at a number of addresses. business are carried on at a number of addresses.
Where this is so, businesses are asked to provide Where this is so, businesses are asked to provide
the full range of sparate information in respect of each address; whether or not the activities are
different. Their activities may, however, be integrated to such an extent that they constitut single establishment. In the latter case tio establishment is defined to cover the combin
activities at these addresses (termed loc at tivities at these addresses (termed
Sits).
Separate figures are obtalned employment and net capital expenditure at eat unit in order to compile regional tables.
Iftorts are made by the Business Statistics offic Efforts are made by the Business Statistics Office o ensure, by negotlating with respondents, t
he return from an establishment does not co local units or addresses in more than one of countries of the United Kingdom.
urther information about the statistical un ppeared in an article "The statistical unlt

Establishments are asked to exclude from the eturns particulars relating to any department no engaged in production e.g. merchanting, transpor arehousing, for which they keep a separate set accounts. Transters of goods produced to sut
departments are treated as sales and respondent departments are lreated as sar as possilble as
are asked to value them as far
sold to an independent purchaser. Where separa sold to an independent purchaser. Where separa
accounts are not kept they are asked to Inclu accounts are not kept they are asked to inclu
detalls of ali these activities in their retur articulars relating to head offices maci units within the scope of the census wer
included. Where more than one return was made included. Where more than of retion in respect of the head office apportioned among them.
production (especially the enterprise analyses of business Mon related establishments are combined. For these purposes an enterprise
group may be defined as a business consisting of group may be defined as a business consisting of
either single establishment or two or more
establishments under common ownershit or establishments under common ownership or control.
bringing together establishments into enterprise 3ringing together establishments into enterprise
groups is also necessary for the purpose of ensur ing that there will be no disclosure of the
activities of any one enterprise group.
 obtained from many sources, including the stock Exchange Year Book, company reports, press reports
and information supplied by individual establish-
nents.

THE REGISTER
The register permits a questionnaire to be sent
direct to the reporting establishment on which
the latter can include information relating to all the latter can include information relating to all
the manufacturing (or local) units which it comprises.
The inquiries provide a major source of information
for keeping the register continuously up-to-dote and act as a check on its detall and structure. or the establishments on the register making returns to the quarterly inquiries, the industrial
classification is derlved from an analysis oftrair classification is derived from an analysis of their
sales of commoditios and is reviewed annually. sales of conmed are entered on the register from
Enployment data
ceturns to the coturns to the annual census of production. In cases where an establishment does not make a return
to these inquiries the employment data are based on
Information provided by the information provided by the Department of Employnent from the annual censuses of employment. intablishments with 20 or more employees are
included in the censuses each year and the information they supply to the census is supplemented by
ane the returns that those with 25 or more employees
provide to the quarterly rovide to the quarterly inquirles. Information
bout establishments with fewer than 20 employes in most industries is less securely based, but ncreasing use has been made of data on these snall establishments supplied by the Department of
Employment. One benefit of using this information Emp oymment. One benefit of using this information
is an improvement in the estimates of the number of snal lir establishments and enterprises, but there is little effect on other aggregates (e.g. employ-
nent, output, net capital expenditure) coverage
Coverage was required in the 1976 Census from each
return establ ishment with 20 or more employees.
establishment is
Each afined in the SIC, whose principal products form major part of the estabilishment's sales.

The regions defined in Table 5 take account of the oundary changes arising out of the Local
overnment Act 1972 and the Local Government Act Scotland) 1973. These changes came into effect in
Sct pril 1974 in England and Wales and May 1975
terms used in the census report
iverage number employed
stablishments were required to state the number persons on the payroll on average during the ear of return, whether full-time or part-tim
enployees. Separate figures were required for:
(a) administrative, technical and clerical
(b) all other employees (operatives)
verages could be calculated from the figures Avages could be calculated from the figures
elating to the last week of each calendar month.
istablishments were also required to state the
number of working proprletors where appropriate and these are included in total employment
tigures. outworkers (i.e. persons emp oyed by
establishments who worked in their own homes) on materials supplied by the establishment) are excluded. The figures incluce persons engaged on merchanting or factoring and canteen workers where
particulars in respect of these activities could
not particulars in respect of the
not be excluded from the return.
Working proprietors
These
include al
employed" for national Insurance purposes and
members of their tamilies who worked in the members of their familles who worked in the
business without receiving a wage or salary; but
such persons who worked less than half the bus ness without receiving a wage or salary; but
such persons who worked less than halt the normal
number of working hours are excluded number of working hours are excluded. Directors
working in the business but not in receipt of definite wage, salary or commission are Included
under this heading: directors paid by fee only are not included.
Emp loyees
Adm in Istr
include dive, technical and clerical employees salary or commission, managers, superintendents and works foremen; research and design employees
(other than operatives): draugtsmen edity staff, advertising staff, travellers and al office emp loyees.
Operatives include
that
Operatives include a! other classes of employees,
that is, broadly speaking, all manual wage
earners. They earners. They include operatives employed
power itations, transport (including power stations, transport (including roundsmen),
warehouses, stores, shops and canteens, warehouses, stores, shops and canteens,
Inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting,
fitting etc. are also included, but outworkers are excluded.

Capital expenditure
Capital expenditure during the year in respect of manufacturing . units where production had not
started before the end of the year is included. Establishments were asked not to deduct from the
value of capital expenditure amounts recel value of capital expenditure amounts recelved or
expected to be received in grants or allowances expected to be received in grants or allowances
from the Government or any statutory body or local authority. Establishments with 100 or more
employees were asked to include a total net (a) New building wor

This represents the cost incurred during the year of new building and other constructional work to
be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes
expenditure on new buildings and on the extension expenditure on new buildings and on the extenslo
or reconstruction of old buildings, the value o works of a capital nature carried out by the
establishment's own staff and the cost of any establishment's own staff and the cost of any
newly constructed buldings purchased. Figures
shown ins shown include lega
comissions, etc.
(b) Land and existing buildings purchased and the caplal cost or premium payable
for leaseholds acquired (excluding the value of for leaseholds acquired coxcluding the value of
assets acquired in taking over an existing assets acquired in taking over an existing
business), and the amounts recelvable for freeholds or leaseholds disposed of. The value is
that charged to capital account during the year of return.
(c) Plant, machinery and vehicles The items shown are the value of plant and
machinery and of vehicles acquired, both new, and
second-hand and the second-hand, and the amount recelved for items
disposed of during the year. The value of plant disposed of during the year. The value of plant
and machinery acquired includes plant, etc. which
flrms produced for the ir oun 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
discounts recelved, but including the cost of transport and instal iation. Deductibl eve vas addod
tax is excluded but non-deductible value added tax tax is excluded but non-deduct ible value added tax
on motor cars acquired is included. No deduction in motor cars acquired is included. No deduction
is made for deppeciation, amortization of obsoloscence The proceeds of items disposed of during
the year excluce amounts written-otf for items the year
scrapped.
Cost of industrial services
This Incluces amounts pasable to other firms for
work done on materials supplied by the establ ishwork done on materials supplied by the establish-
ment payments for repairs and maintenance minciucing those in respeet of rented muildings)
(and amounts pald to other firms for contracts which
and
 have been
excl uded.
Cost of non-industrial services
This includes rent of industrial and commercial
 Insurace, premilums, bank charges and amounts pald
lor protessional services, post of fice services, for professional services, post offlce services,
transport, advert sin ,
 copyrlights etc., manufactur Ing and quarrying rights
and technical "know-how" are al so included.
Gross output
In the calculation of gross output the value of
total sales and work done is increased by the rise total salus and work done is increased by the rise
(or reacuce oy the fall) during the year in the
ovilue of work in progress and goods on hand for value
sale.
Not output
Not output oy adertomary census measure, is
calculated by deducting from gross output the cost
 the fall, during the year of stocks of materials
etc.) and the cost of industrial services received, etc.) and the cost of industrial
and where applicable, duties etc.
Not output per head
The figures of net output per head are der ived by
dividing the net output by the average number of
 acperatives, coveren oy the returns, including
administrative, technical and clericai employes, add working proprletors, but excluding
outworkers. outworkers.
Gross value added at factor cost
Gross value added at factor cost is calculated by deducting from net output the cost of not
Industrial services ent Industrial services (e.g. rent of buildings, hire
of plant and machinery, commercial insurance

 transport and advertising) irates (excluding water
rates) and the cost of licensing motor veni cles.
Ths ate rites) and the cost of il censing motor venicles. closely than census net output to the definilion
of net output or value ddded in national accounts of not output
statistics.
Gross value added at factor cost per head
The tigures of gross value
The tlyures of gross
head are derived by dividing the ar fastor cost per by the average number of persons anployed (fuli and
part-t part+ime) on all activities covered by the
returns,
ancluding operatives,
armin istrative, returns, including operatives, administrative,
technica! and clerical employees and working technical and clerlcal enployees, and working
proprietors, but exclucing outworkers.

[^0]components, semi-manufactured goods and workshop
materlals; of replacement parts and consumable
tools not charged to capital accunt; tools not charged to capital account; of packaging
materials of all types; of stationery and printed matter; of fuel, electricity and water; materials to be used by the establishment or give
out to other establishments for the productlon out to other establishments for the production of
machinery or other capital items for the estab machinery
lishment's establishment when of materials for use by the the
th goods supplled by customers; and of food, etc. for any canteen
covered by the establishment's return. Transfers of goods to the establishment from another department of the same tirm not covered by the establishment's return are included at a cost
corresponding to the estimated selling value
 transport department for dolivery of the firm's own
trals are excluded, as are all purchases of machinery goods for merchanting or factoring have be collected separately since 1973. The values shown
exclude VAT. They include, in addition to the actual purchase price, the value of packaging actual purchase price, the value of packaging
materlal charged to the establishment. The value
of returned goods or packaging materlal returned of returned goods or packaging materlal returned
to suppliers and any trade discounts are excluded o suppliers and any trade discounts are excluded,
Materials purchased duty-paid are included at thelr aterpald value, less any drawback, rebate, etc. The cost of transport is included only it it it accounts. Imported goods are included at their accounts. Imported goods are included at the
fill delivered cost. If in the firm's accounts t $t$ transport from docks or airport is not included
the cost of goods purchased, the cost is entered the cost of goods purchased, the cost is entered at
c. i.t. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.
Sales of goods produced
sales for the
Sales for the purposes of the annual censuses
means deliveries on sale of goods made by estabIshments in the United Kingdom covered by by the
co IIshments by outworkers or by other establishments from materials given out to them and sales waste products are included. New bullding work and machinery or other capital items produced by
astablishments for hiring out or leasing are regarded as sales, the value included in the
return being that adopted in the establishments' capital asset accounts. Forward sales and canteen
takings are excluded. All sales in the perlod of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one
establlishment and transferred either to ancillary departments not engaged in production for which
there are separate accounts, or to another ther are separate accounts, or to another
thtablishment of the same firm not covered by the establishment of the same firm not covered by the
return, are treated as sales by the producing return, are treated as sales by the producing they had been sold to an independent purchaser.
Goods transferred to wholesale or retail selling Goods transterred to wholesale or retall selling kept are valued on the same basis.
The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on an
exworks or dellivered basis, after any trade ex-works or discounts and agents, commissions have
disducted. The cost of packing materials deducted. The cost of packing materials
a! lowance for returnable cases is included. industries where products attract Excise Duty value stated is usually inclusive of duty if so duty-paid and exclusive of duty if sold in bond or exported.

Work done and industrial services rendered Figures for work done represent the amount charged
for work carried out on materlals supplied by
customer and include repalr work. Within certaln

Industries this heading covers a wide variety of
activities, for example, within the food sector activities, for example, within the food sector
butter packed on commission; within the textile buttur packed on commission; within the textile and textile finishing; within printing and pub-
inshing - preparatory work on type-setting, block lishing - preparatory work on type-setting, block
making and binding. Work done is also slignificant naking and binding. Work done is also significant
in the electrical machinery and heavy engineering Industries, covering erection, installation and
repair and jobbing work. Other activities within epair and jobbing work. Other activities within
his heading include exploration work, research and this heading include exploration work, research and
development, glass cutting and dressing and planing of timber, industrial services rendered include repairs and
naintenance, installation work, and technical maintenance, installation work, and techn
research and studies for other organisations.
Capital goods produced for establishments' own use This includes all work of a capital nature carried
out during the year by the establishments 1 own out during the year by
staff for their own use.
von-Industrial services rendered
includes rents received
This includes rents recelved for commercial and
industrial bulldings, Industrial bulldings, amounts charged for hiring
out plant, machinery and other goods and amounts charged to other organ Isations for the orovision of
transport. It also includes amounts received for transport. to also includes amounts recelved for
the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and tech-
nical "know-how" and revenue from such staff nical "know-how" and
facllities as canteens.
Goods merchanted or factored
Merchanted goods are those (excluding canteen
sales) sold without having been subjected to any manufacturing process by the seller.
Stocks and work in progress
values are given of stocks
values are given of stocks of goods on hand for
sale and of materials, stores and fuel, at the end of the year of return and of the change during the
year, including any stocks of goods held for year, including any stocks of goods held for
nerchanting or factoring. Work in progress is
defint merchanting or factoring. Work in progress is
defined as materlals which have been partially
processed by the establishment but which are not processed by the establishment but which are not
usually sold or transferred to another estab-
ilshment without further processing. The values Inhment without further processing. The values
include the cost of materlals consumed and labour used, together with a margin of overhead costs and proftr. Progress payments made to sub-
contractors are excluded and progress payments received from other organisations are not deducted.
Mages and salarles
These are amounts pald during the year to
operatives and to administrative, tectical
operatives and to administrative, technical and
clerical employees.
Payments to working
proprietors, whether called salaries or not are excluded. The values shown salarles or not, are
include all overtime payments, bonuses and commissions, whether pald
regularly or not, and no deduction is made for egularly or not, and no deduction is made for
income tax. Insurances, contributory pensions etc. The value of redundancy payments less any amounts reimbursed from Government sources is included.
The value of any payments in kind, travelling The value of any payments in kind, travelling
expenses etc. Is excluded.

Remuneration paid to outworkers
The remuneration pald to outworkers (1.e. persons
employed by the establishment who do their work thp liyed by the establishment who do the ir work in
the generaly on a plece-work
basis. Only amounts pald to autworkers basis. Only amounts paid to outworkers whose names
appear on the establishment's payroll are included. appear on the establishment's payro-core included.
Amounts paid to outworkers by sub-contractors are Amounts pladed.
excluded
Employers' Insurance and welfare contributions This item includes employers' contributions to national Insurance and graduated penslons (and/or
earnings related basic contributions under the

Social Security Act, 1973 ) as well as commerclal
Insurance premiums to provide pensions, superinsurance premiums to provide pensions, super-
annuation or other retirement benefits, annuation or other retirement benelts, slckness
benefits, personal accident benefits, disability
 employees or their dependants. Contributions to
the running costs of canteens, soclal contres the running costs of canteens, soclal contres,
children and hol 1 day homes, etc. for employees,
tormer former employees and their dependants are also
included.
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    Purchases

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