## PA349.1

Business Statistics Office

## Business Monitor

1976

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POLITICAL AND
CONOMIC SCIENCE

Report on the<br>Census of Production

Ball, roller, plain and other bearings

## PA349.1 <br> Business Monitor

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## Report on the Census of Production 1976

Ball, roller, plain and other bearings

Presented by the Secretary of State for Industry to Parliament in pursuance of the Statistics of Trade Act 1947 to Pariament in pursuance of
$(10 \&$ if Geo. 6 Cha. 39 sec 7$)$

Department of Industry
Business Statistics Office

List of Industry Reports, etc.

| PA1001 | Introductory notes |
| :---: | :---: |
| PA101 | Coal mining |
| PA102 | Stone and slate quarrying and mining Chalk, clay, sand and gravel extraction |
| PA104 | Petroleum and natural gas |
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| PA337 | Mechanical handling equipment |
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| PA339. 3 | Refrigerating machinery, space-heating, ventilating and air-conditioning equipment |
| PA339.5 | Scales and weighing machinery and portable |
| PA339.7 | power tools Food and drink processing machinery and |
|  | packaging and bottling machinery |
| PA339.9 | Miscellaneous (non-electrical) machinery |
| PA341 | Industrial lincluding process) plant and steelwork |
|  | Ordnance and small arms |
| PA349.1 | Ball, roller, plain and other bearings |
| PA349.2 | Precision chains and other mechanical engineering |
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| PA353 | Surgical instruments and appliances |
| PA354 | Scientific and industrial instruments and systems |
| PA361 | Electrical machinery |
| PA362 | Insulated wires and cables |
| PA363 | Telegraph and telephone apparatus and |
|  | Radio and electronic components |
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| PA365. 2 | Broadcast receiving and sound reproducing |
|  |  |
|  | Electronic |
|  |  |

The information in this report relates to establishments classiffed to the Ball, roller, plain and other
bear ings industry, minlmum tist heading 349.1 in the standard Industrial Classification (revised 1968).
The activities of the industry include:-

Manufacturing ball, roller, needle and similar bearings, including those for motor vehicles.

In interpreting the data in the tables it is essential to bear in mind the notes and
detinitions which commence on page (ili).

Capital Expenditure, 1973-1976
All United Kingdom establishments classified to the industry (a)(b)
$\begin{array}{lll}\text { All United Kingdom establitshments classified to the industry (a) (b) } & 1973 & 1974\end{array}$

|  | Unit | 1973 | 1974 | 1975 | 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprises (b) | Number | 55 | 127 | 137 | 128 |
| Establishments (b) | " | 60 | 134 | 146 | 140 |
| Sales of goods produced Receipts for work done and industrial | £ thousand | 153,382 | 178,137 | 219,264 | 251,486 |
| services rendered | " | (c) | (c) | (c) | 25 |
| Capital goods produced for establishments' own use | " | 713 | 672 | 644 | 906 |
| Non-industrial services rendered | " | 2,379 | 1,000 | 1,343 | 1,513 |
| Goods merchanted or factored | " | 23,247 | 30,784 | 35,310 | 44,137 |
| Total sales and work done (d) | " | 179,721 | 210,593 | 256,562 | 298,292 |
| Increase during the year, work in progress and goods on hand for sale | " | 1,892 | 8,467 | 16,493 | 10,351 |
| Gross output | " | 181,613 | 219,060 | 273,055 | 308,643 |
| Purchases of materials for use in production, and packaging and fuel | " | 58,047 | 72,688 | 90,246 | 95, 151 |
| Purchases of goods for merchanting or factoring | " | 18,223 | 24,285 | 30,599 | 40,904 |
| Increase during the year, stocks of materials, stores and fuel | " | 2,360 | 3,561 | 793 | 3,639 |
| Cost of industrial services received | " | 3,418 | 3,317 | 4,950 | 6,769 |
| Net output | " | 104,285 | 122,331 | 148,054 | 169,458 |
| Total employment (e) | Thousands | 34.1 | 34.7 | 33.7 | 32.0 |
| Net output per head | £ | 3,057 | 3,529 | 4,388 | 5,288 |
| Payments for non-industrial services |  |  |  |  |  |
| Rents, hire of plant and machinery ( $f$ ) (g) | £ thousand | 2,591 | 1,802 | 2,100 | 2,456 |
| Commercial insurance premiums | " | 886 | 978 | 1,152 | 1,605 |
| Bank charges | " | 76 | 88 | 133 | 120 |
| Other non-industrial services ( $h$ ) | " | 3,277 | 3,978 | 5,740 | 9,999 |
| Licensing of motor vehicles | " | 59 | 40 | 49 | 58 |
| Rates, excluding water rates | " | 1,251 | 1,699 | 2,539 | 2,729 |
| Gross value added at factor cost | " | 96,145 | 113,746 | 136,341 | 152,492 |
| Gross value added at factor. cost per head | £ | 2,818 | 3,281 | 4,041 | 4,758 |

(a) Including estimates for establishments not making satisfactory returns, non response and
establishents exempt because of size. Satisfactory returns accounted for 96 per cent of emp loyment
within the industry.
(b) Increase from 1973 to 1974 largely attributable to the improved estimates of the number of establish-
ment with less than 20 employees, - see note on page (iii).
(c) Included with sales of good produced.
(d) Details of manufacturers' sales of principal products are published regularly in Business Monitor
(e) Average number employed, including full and part-time employees (see table 7) and working proprietors
(f) 1973 figures include hire of vehicles.

| Land and buildings | _ | 1,057 | 770 |
| :--- | :--- | :--- | :--- |


| New building work | 1,057 | 770 | 1,404 | 1,96 |
| :--- | :--- | :--- | :--- | :--- |
| Land and existing buildings <br> Acquisitions | 2,584 | 65 | 225 | 38 |


| Acquisitions | 2,584 | 65 | 225 | 384 |
| :--- | ---: | ---: | ---: | ---: |
| Disposals | 499 | 200 | 634 | 891 |

venicles
Acquisitions

| Acquisitions | 321 | 363 ) | 605 | 682 |
| :--- | :---: | :---: | :---: | :---: |
| Motor cars | 87 | 155 ) |  |  |

Disposals
Motor cars
Motor cars
Other vehicles

Plant and machinery
$\begin{array}{lllll}\text { Acquisitions } & 8,102 & 8,677 & 12,252 & 11,493\end{array}$
Disposals
Total net capital expenditure
11,250
,011
752
2,929
1,456
a) Including estimates for establishments not making satisfactory returns, non-response and
estabilishments exempt because of size. Satisfactory returns accounted for 96 per cent of employment
within the industry.

Capital expenditure in respect of manufacturing establishments where production had not commenced
before the end of the year, is included.

TABLE 3


| 1973 | 1974 | 1975 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Increase |  | Value at end of year |  |
| 2,360 | 3,561 | 793 | 3,639 | 20,577 |
| 1,006 | 4,263 | 4,487 | 3,202 | 37,500 |
| 886 | 4,204 | 12,006 | 7,149 | 45,579 |
| 4,252 | 12,028 | 17,287 | 13,990 | 103,656 |



Materials, stores and fuel
Work in progress
Goods on hand for sale
within the industry.
(g) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the
(h) 1974-1976 figures include the cost of hiring goods vehicles.

Analysis of establishments by size, 1976 , the industry (a)
Ail

| $\begin{aligned} & \text { SIree } \\ & \text { siroup } \\ & \text { fob } \end{aligned}$ | $\begin{gathered} \text { Estab- } \\ \text { STsph } \\ \text { mentit } \end{gathered}$ | $\begin{aligned} & \text { Entere } \\ & \text { proter } \\ & \text { (c) } \end{aligned}$ | Employment |  |  | Wages and salarles( $f$ ) |  |  |  |  | $\underset{\substack{\text { Gross } \\ \text { Output }}}{ }$ | $\underset{\text { Net }}{\text { Nutput }}$ |  | Gross value added atfactor cost |  | Not capitalexpenditure (h) | Total stocks <br> and work in <br> progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | (opera- | ${ }_{(0)}^{\text {Others }}$ | Operatives |  | Others(e) |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Total | head | Total | head |  |  | Total | fer head | Total | fer fead |  |  |
|  | Number | Number | Number | Number | Number | Ethousand | £ | £ thousand | £ | : thousand | £ thousand | $\overline{\text { £ thousand }}$ | £ | $\overline{\text { E thousand }}$ | £ | £ thousand | £ thousand |
| 1-10 | 75 | 75 | $324)$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-19 | 23 | 23 , 17 | 338 | 1,209 | 322 | 3,237 | 2,677 | 1,243 | 3,861 | 18,053 | 18,492 | 9,855 | 6,289 | (j) | (j) | 1,235 | 5,469 |
| 20-49 | 9 |  | 284 ; |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50-99 | 8 | 8 | 621 ) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100-199 | 6 | 6 | 853 | 681 | 170 | 1,829 | 2,686 | 522 | 3,068 | 7,515 | 7,655 | 4,366 | 5,119 | 12,293(j) | 5,080(j) | 429 | 1,810 |
| 200-399 | 4 | 3 | 1,341 | 942 | 399 | 2,305 | 2,447 | 1,385 | 3,471 | 16,074 | 16,413 | 7,187 | 5,359 | 6,249 | 4,660 | 587 | 5,296 |
| 400-749 | 3 | 3 | 1,519 | 1,077 | 442 | 3,161 | 2,935 | 1,504 | 3,403 | 13,752 | 13,934 | 9,273 | 6,105 | 8,674 | 5,710 | 864 | 2,504 |
| 750-1,499 | 5 | 4 | 5,820 | 4,282 | 1,538 | 12,215 | 2,853 | 5,145 | 3,345 | 45,459 | 44,899 | 27,243 | 4,681 | 25,150 | 4,321 | 4,522 | 19,866 |
| 1,500-2,499 | 4 | 3 | 8,336 | 6,225 | 2,111 | 19,767 | 3,175 | 8,188 | 3,879 | 72,319 | 74,728 | 46,866 | 5,622 | 41,710 | 5,004 | 737 | 15,988 |
| 2,500 and over | 3 | 3 | 12,611 | 9,110 | 3,501 | 27,562 | 3,025 | 12,394 | 3,540 | 125,120 | 132,523 | 64,668 | 5,128 | 58,416 | 4,632 | 4,516 | 52,723 |
|  |  |  |  |  |  |  | 78 |  |  |  | sen | - | 0.0 | - | 0.00 |  |  |
| Total | 140 | 128 | 32,047 | 23,526 | 8,483 | 70,076 | 2,979 | 30,381 | 3,581 | 298,292 | 308,643 | 169,458 | 5,288 | 152,492 | 4,758 | 12,890 | 103,656 |

(a) Including estimates for establi shments not making satisfactory returns, non-response and
(b) Average number employed, Including full and part-time amployees (see table 7 ) and working
(c) The sum of the flgures for the size groups may exceed the total for the industry because some
enterpl ises controi establi shments in more than one size group.
(d) Including working proprietors.
(e) Administrative, technical and clerical employees.

Sal os of goods produced, capital goods manufactured, buildings constructed by astabi ishments for
the ir omm use, work done, industrial and non-industr ial services rendered and merchanted goods.
New building work plus acquisitions less disposals of land and existing buildings, vehicles and
plant and machinery.
(3) Gross value added data relate to establishments employing 1-199.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor
cost AII United Kingdom establ ishments classified to the industry.

| Area | Total employment (a) |  | $\begin{array}{ll} \text { Not capital } \\ \text { expenditure } & \text { (b) (c) } \end{array}$ |  | Net output, gross value added and employment in the region from returns recelved from estabit ments employment in the region (d) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Net output | Gross value added at factor cost | Emp loyment as a percent age of total |
|  | Thousands | per cent of United Kingdom |  |  | £ thousand | $\begin{aligned} & \text { per cent } \\ & \text { of United } \\ & \text { Kingdom } \end{aligned}$ | $\overline{\text { £ thousand }}$ | $\overline{\text { £ thousand }}$ |  |
| Standard regions of England |  |  |  |  |  |  |  |
| North | 2.9 | 8.9 | 1,304 | 10.1 | * | * | * |
| Yorkshire and Humberside | * | * | * | * | * | * | * |
| East Midlands | * | * | * | * | * | * | * |
| East Anglia | * | * | * | * | * | * | * |
| South East | 9.8 | 30.4 | 2,001 | 15.5 | * | * | * |
| South West | 1.9 | 5.9 | 840 | 6.5 | * | * | * |
| West Midlands | 3.7 | 11.9 | 1,944 | 15.1 | 13,254 | 12,273 | 72.2 |
| North West | 0.6 | 1.8 | 1,582 | 12.3 | * | * | * |
| England | 28.2 | 88.1 | 11,177 | 91.4 | 83,027 | 76,474 | 53.5 |
| Wales | * | * | * | * | * | * | * |
| Scotland | * | * | * | * | * | * | * |
| Great Britain | * | * | * | * | * | * | * |
| Northern Ireland | * | * | * | * | * | * | * |
| Unallocated (e United Kingdom (b) | - | - | - | - | 75,925 | 66,098 | - |
|  | 32.0 | 100.0 | 12,890 | 100.0 | 169,458 | 152,492 |  |

(a) Average number employed, including full and part-time employees (see table 7) and working
proprletors.
(b) Including estimates for establishments not making satisfactory returns, non-response and
(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
estaut ishmentrs employees were ocated. th 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 emp loyment ostabt and gross value added at each address covered by a return was proportional to employment at
outpuatdress.
the ad
(e) Unal located net output and gross value added cover ing establishments with addresses in two or more
regons, plus estimates for unsatisfactory returns, non-response and establishments exempt because
of size.


| Accounting year ended |  | Percentage of total returns received |  |
| :--- | :--- | :--- | :--- |

(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) General mechanical
engineering industries, min inum ist heading 349. ex 349 .

| Sex | Full-time | Part-time |  |
| :--- | :--- | :--- | :--- |
|  | per cent | per cent | $\frac{\text { All employees }}{\text { per cent }}$ |
| Male | 81 | 1 | 82 |
| Female | 14 | 4 | 18 |

a) The percentages relate to the numbers employed (excluding working propr ietors) in the united


Notes
These notes give the main information needed for These notes give the maln information needed for
interpreting the tigures in the Industry Business
Monitors: Monitors: more detailed information about th
census is given in a separate Business N.nitor census is given in a separate Business Ncnitor
PA1001 (Introductory Notes) of the Report on the
Census of Production, 1976.
general information
Changes made for 1976
Census for 1976 is in line with similar
inquiries being conducted in other member countries of the European Economic Communities. There was small number of changes in the scope of the
Industry reports compared with 1975. These include Industry reports compar
separate headings for:
Sales of goods produced
Recelpts for work done and industrial services rendered
Amounts paid for hire of plant and machinery Amounts pald for rent of industrial
commerclal buildings commercial buildings
Specific changes are explained in the introductions
to the industry reports or by footnotes to the to the
tables.
Suppression of information relating to individual undertakings
Section $9(5)(b)$ of the Statistics of Trade Act 194 Sectlon 9 (5) (bhe of tollowing provislons shall have offect with respect to any report, summary or other
communication to the public of informat ion obtained under the foregoing provisions of this Act
in complling any such report, summary or n compling any such report, summary or
ommunicatlinn the competent authority. shall so arrange it as to prevent any particulars
published therein from being identified as being published therein from being identifled as being
particulars relating to any individual person of particulars relating to any individual person or
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disclosing any such totai the competent authority
shall hat hall have regard to any representations made to them by any person who alleges that the disclosure thereot would enable particulars relating o him or to an undertaking carrled on by him to If a figure involved disclosure the contributor concerned was sometimes asked to give permission
or its publication. for its publication. In the majority of cases where contributors were not approached the figure as been suppressed, either by combining it with other figures, or as in the regional tables, by
omit+ing the figure altogether.

Symbols used
The fol lowing symbols are used throughout the PA
serites of Business Monitors:

- not avallable
- nil or less than half the final digit shown
figures cannot be shown owing to the risk of
disclosing information about individual enter
prises
revised
Rounding of flgure
Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent
items may not al ways agree exactly with the total
shown
ndustrial classification
United Kingdom Standard Industria was subsequently revised in 1958 and $19680^{\circ}$
exists to promote uniformity and comparably exists to promote uniformity and comparability
the official statistics of the United Kingdo The general principlas fol lowed are those of then International Standard Industrial Classitication
of all Economic Activities of the United Nation fall Economic Activities of the United Natlo
Statistical Office but the United Kingdom enflects the organisation and structure inlustry and trade as it exists in the Unit
Kingdom. The SIC is a classification by actlvity Kingdom. The SIC is a classification by activit
and is not a commodity classification. However, an index of all commodity headings for whic sales data are provided in the Quarterly Business
Monitors, is published in Business Monltor PQ 1000 Statistical units
he statistical unit for the purpose of the cen is the establishment which is desined in the sic
s the smallest unlt which can provide the
 ensus, for example, employment, expenses, turn activitles carried on in an establishment ithin a single heading of the classificati e.g. steel making or sugar refining). Typical
the establishment embraces all the activiti carried on at a single address e.g. a farm, a ming carried on at a single address e.g. a farm, a min
or a factory, including those which are anclilar
o the principal activities. Frequently distinc O the principal activities. Frequently distinc
activities characteristic of different industrie
are carried on at one address, but normally are carried on at one address, but normally +
are not classified separately and the are not classified separately and the
establishment is classified according to t activity. If, however, the required rang can be provided for each activity, eact
to constitute a separate establishment. to constitute a separate establishment
activities which are conducted as business are carriled on at a a number of addresse Where this is so, businesses are asked to provi the full range of separate information in respe
of each address; whether or not the activities ar ifferent. Their activities may, however, integrated to such an extent that they constith
single establishment. In the latter case single establishment. In the latter case
establishment is defined to cover the combin activities at these addresses (termed loa employment and net capital expenditure at ea unit in order to complie regional tables.
fforts are made by the Business Statistics Offic to ensure, by negotiating with respondents, to the return from an establishment does not cove
local units or addresses in more than one of +1 countries of the United Kingdom. Further information about the statistical unit appeared in an article "The statistical unit 1971.

Establishments are asked to exclude from the eturns particulars relating to any department
engaged in production e.g. merchanting, transpor warehousing, for which they keep a separate set accounts. Transfers of goods produced
departments are treated as sales and re are asked to value them as far as possible as sold to an independent purchaser. Where separate accounts are not kept they are asked to inclure
detalls of all these activities in their return particulars relating to head offices maini angaged in the administration of the production
nits with the scope of the census wer units with in the scope of the census wer
included. Where more than one return was made the included. Where more than one return was made
information in respect of the head offlce was information in respect
apportioned among them.
for cartaln purposes in
production (especially the enterprise analyses of
Panitor Business med. For these purposes an entarlishments
are combined group may be defined as a burpiness an enterprise elther a single establishment or two or more
establishments under common ownership or control. estabing together establishments into enterprise
Bringing atso necessary for the purpose of groups is also necessary for the purpose of
ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of
establishments, the changing structure of oroups obtained from many sourcems, including the stock Exchange Year Book, company reports, press reports
and information supplied by individual establish-

THE REGISTER
direct to the reporting establishment on which the atter can include information relating to all
the manufacturing (or local) units which it The inquirles provide a major source of information
keeping the register continuously up-to-date for keeping the register continuously up-to-date
and act as a check on its detail and structure for the establishments on the register making returns to the quarterly inquiries, the industrial sales of commodities and is reviewed annually, returns to the annual census of production. In cases where an establishment does not make a return
to these inquir ies the employment data are based on o these inquiries the employment data are based on
information provided by the Department of Employment from the annual censuses of employment.
Establishments with 20 or more employees are Establishments with 20 or more employees are
included in the censuses each year and the informincluded in the censuses each year and the inform
ation they supply to the census is supplemented by
then the returns that those with 25 or more employees
provide to the quarterly inquiries. Information provide to the quarterly inquiries. Information
about establishments with fewer than 20 employees
竍 Increasing use has been made of data on these
small establishments supplied by the Department of small establishments supplied by the Department of
Employment. One benetit of using this information
Is an Employment.
Is an impovement in the estimates of the number of
smal ler establishments and enterprises, but there is little effect on other aggregates (e.g. employ

Coverage
A return
return was required in the 1976 Census from each
establishment with 20 or more employees. establishment is classified to an industry, as
detined in the defined in the SIC, whose principal products form Reglons
he regions defined in Table 5 take account of the boundary changes arising out of the Local
Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in
April 1974 in England and Wales and May 1975 in totland
terms used in the census report
Average number employed
Establ lishments were required to state the number of persons on the payroll on average during the
year of return, whether full-tme or part-time
(a) administrative, technical and clerical
(b) emp loyees

Averages could be calculated from the figures relating to the last week of each calendar month.
Establishments were also required to state the
number of working proprletors where approprlate
and these are included in total employment figures. Outworkers ( 1. .e. persons. employed by
establishments who worked in their establishments who worked in their own homes etc.
on mater lals supplied by the establishment) are on materlals supplied by the establishment) are
excluded. The figures include persons engaged on
merchanting or factoring and canteen workers where merchanting or factoring and canteen workers where
particulars in respect of these activities could particulars in respect of thes
not be excluded from the return.
Working proprietors
hese include all persons regarded as "self-
employed" for national insurance purposes and members of their families who worked in the
business without recelving a wage or salary. but business without recelving a wage or salary; but
such persons who worked less than half the normal sumber of working hours are excluded. Cirectors
nurking in the business but not in recelpt ot working in the business but not in recelpt of a definite wage, salary or commission are included
under this heading: directors paid by fee only are not included.
Emp loyees
Adm in istr
Administrative, technical and clerical employees salary or commission, managers, superintendent's and works foremen; research and design employees
(other than staff, advertising staff, travellers and all
office employees. office emp loyees.
Operatives Include Operatives include all other classes of employees,
that is, broadly speaking, all manual wage earners. They include operatives employed in
power stations, transport (Including roundsmen), power stations,
warehouses, stores, shops and cans canteens, Inspectors, maintenance workers and cleaners.
Ond Operatives engaged in outside work of erecting,
fitting etc. are also included, but outworkers fit+ing edc.
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 Establ ishments were asked not to deduct from the value of capital expenditure amounts recelved or
expected to be received in grants or allowance expected Government or any statutory body or local
from the Govern Establishments with 100 or more
authority. authority. Establishments with 100 or more
employees were asked to Include a total net
capital expenditure figure for each calentar employees were asked to include a total net. (a) New bullding work This represents the cost incurred during the year
of new building and other constructing the of new building and other constructional work to
be used in connection with the business covered by
the the return. The value is that charged to capital expenditure on new buildings and on the extensio or reconstruction of old bullings, the value o works of a capital nature carried out by the
establishmentry own staft $f$ and the cost of any
newly construct newly constructed buildings purchased. Figures
shown include legal charges, stamp duties, commissions, etc.
(b) Land and existing buildings
The tems shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of assets acquired in taking over an existing
business), and the amounts receivable for free holds or leaseholds disposed of. The value is
ho the holds or leaseholds disposed of. The value is
that charged to capltal 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 amount received for items disposed of during the year. The value of plant
and machinery acquired includes plant, etc. which
firms produced for thelr own use in connection with
the business covered by the return The value of 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 discounts received, but Including the cost of
transport and installation. Deductible value added tax is excluded but non-deductille value added tax
on motor cars acquired is included. No deduction on motor cars arquired is included. No deduction
is made for depreciation, amortization or obsolesis made for depreciation, amortization or obsoles-
cence. The proceeds of items disposed of during the year exclude amounts written-off for items
scrapped.

Cost of industrial services
This includes amounts payable to other firms for
work done on materials supplied by the establishwork done on materials supplied by the establish-
ment, payments for repairs and maintenance ment, payments for repairs and maintenance
(Incluiding those in respect of rented bulidings)
and amounts pald to other firms for contracts which and amounts pald to other firms for contracts which
have been sublet. Payments to outworkers are
excluded.

Cost of non-industrial services
This includes rent of industrial and commercial buldings, hire of plant and machinery, commerclal
Insurance premiums, bank charges and amounts paid
for professlonal for professional services, post office services,
transport, advertising etc. Amounts payable on transport, advertising etc. Amounts, payable on
royalties for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights

Gross output
In the calculation of gross output the value of
total sales and work done is increased by the rise total sales and work done is increased by the rise
(or reduced by the fall) during the year in the (or reduced by the fall) during the year in the
value of work in progress and goods on hand for
sale.

Net output
Net output, a customary census measure, is
Nalculated by deducting from gross output the cost calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by
the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

Net output per head
The figures of net output per head are derived by
dividing the net output by the average number of
persons employed (full and part-time) on all persons employed (full and part-time) on all
activities covered by the returns, including operatives, administrative, techical and clerical
employees and working proprietors, but excluding outworkers.

Gross value added at factor cost
Gross value added at factor cost is calculated by deducting from net output the cost of non-
Industrial services ce.g. rent of buildings, hire of plant and machinery, commerclal insurance
premiums, bank charges and amounts paid for
 transport and advertising), rates (excluding water rates) and the cost of licensing motor venicles.
This estimate of gross value added approaches more This estimate of gross value added approaches more
closely than census net output to the definition closely than census net output to the definition
of net output or value added in national accounts statistics.
Gross value added at factor cost per head
The tigures of head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activitites covered by the technical and clerical employees and working proprletors, but excluding outworkers.

Purchases
Purchases
Include the cost of raw materials,
components, semi-manufactured goods and worksho materials; of replacement parts and consumable
tools not charged to caplal account; of packaging
materlals of all types; of stationery and printe materials of all types; of stationery and printe
matter; of tuel, electricity and water;
materials to be used by the establishment or materials to be used by the establishment or give
out to other establishments for the product go
machinery or other capital items for the machinery or other capltal items for the ostab
I ishment's own lishment's own use; of materlals for use by the
establishment when working on goods suppled customers; and of food, etc. for any cante covered by the establishment's return. Transefrs
of goods to the establishment from another depart of goods to the establishment from another depart
ment of the same firm not covered by the ment of the same firm not covered
establishment's return are included at
corresponding to the estimet corresponding to the estimated selling val
recorded by the other department. Amounts payab
to recorded by the other department. Amounts payab
to transport firms or oredited to the tirm's
transport department for delivery of materlals transport department for dellivery of materlals ar
excluded, as are all purchases of machinery excluded, as are all purchases of machinery a
plant charged to capital account. Purchases
goods for merchantin goods for merchanting or factoring have be collected separately since 1973. The values
exclude VAT. They include, in addition actual purchase price, the value of packaging
material charged to the establishment. The value of returned goods or packaging material returned
to suppliers and any trade discounts are excluded. to suppliers and any trade discounts are exclude
Mater ials purchased duty-paid are Included at the
duty-pald value, less any drawback duty-pald value, less any drawback, rebate, etc The cost of transport is included only if
included with the purchase price in the accounts. Imported goods are included at the
full delivered cost. It in the firm's accounts
transport from docks of airport is transport from docks or airport is not Included the cost of goods purchased, the cost is entered
c.i.f. plus duty (if applicable). Leasing, renti Col.f. plus duty (if applicable). Leas
and hire purchase charges are excluded.

Sales of goods produced
Sales for the purposes of the annual censuse
means deliveries on sale of goods made by estat means deliveries on sale of goods made by estab-
lishments in the United Kingdom covered by the Iishments in the United Kingdom covered by the
inquiry. Sates of goods made for these estab
IIshments by IIshments by outworkers or by other establishments
from materials iven from materlals given out to them and sales
waste products are included. New building work waste products are included, New bulding wor
and machinery or other capital items produced establishments for hiring out or leasing are
regarded as sales, the value included in regarded as sales, the value included in the
return being that adopted in the establishments' capltal asset accounts. Forward sales and canteen takings are excluded. Al 1 the inquiry are included irrespective of when the
goods were manufactured. Goods produced in one goods were manutactured. Goods produced in one
establishment and transferred el ther to ancllary
departments not engaged in production for which departments not engaged in production for which
there are separate accounts, or to another there are separate accounts, or to another
establlshment of the same firm not covered by the return, are treated as sales by the producing
establilshment and valued as far as possible as establishment and valued as far as possible as if
they had been sold to an independent purchaser, they had been sold to an independent purchaser
Goods transferred to wholesale or retall selling organisations, for which separate accounts are kept are valued on the same basis.
The value shown for sales is the "net selling The value shown for sales is the "net selling
value" defined as the amount (excluding value
added tax) charged to customers whether on an added tax) charged to customers whether on an
ex-works or delivered basis, after any trade discounts and agents! basis, after deducted. The cost of packing materlals le
allowance industries where products attract Exclse Duty
ind value stated is usually inclusive of duty if sold
duty-pald duty-paid
exported.
Work done and industrial services rendered Figures for work done represent the amount chargel
for work carried out on materlals supplled by
industries this heading covers a wide variety of activities, for example, within the food sector
. butter pasked aking up of garments, fur dressing and textlle finishing; within printing and pub-
Iishing - preparatory work on type-setting, block lishing - preparatory work on type-setting, block
making and binding. Work done is also significant mak the electrical machinery and heavy engineering
in tovering erection, installation and
industries, cover ing Industries, covering erection, installation and
repair and jobbing work. other activities within this heading include exploration work, research and development, glass cutting and dressing and planing Industrial services rendered include repairs and maintenance, installation work, and technical
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' own out during the year by
staff for their own use.

Non-industrial services render
This inctudes rents recelved for commercial and Industrial buildings, amounts charged for hiring
out plant, machinery and other goods and amounts charged to other organisations for the provision o
transport. it also includes amounts recelved for transport. It also includes amounts received for
the right to use patents, trademarks, copyrights right to use patents, trademarks, copyrights
.inanufacturing and quarrying rights and tech-
al ${ }^{\text {mownowhow" and revenue from such staft }}$ nical "know-how" and revenue from such staf facilities as canteens.

Goods merchanted or factored
Merchanted goods are those
Merchanted goods are those (excluding canteen
sales) sold without having been subjected to any sales) sold without having been sub
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 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
merchanting or factoring. Work in progress is
When merchanting or factor which have been partially
defline as matelals whe
processed by the establishment but which are not processed by the establishment but which are not
usully sold or transferred to another estabusually sold or transferred to another estab-
Iishment wlthout further processing. The values
Include the cost of materlals consumed and labour Include the coust of mater lals consumed and latuour
used, together with a margin of overhead costs and used, together with a margin of overhead costs and
profits. Progress payments made to sub-
contractors are profits. Progress payments made to sub-
contractors are excluded and progress payments
recelived from other organ isations are not received
deducted.
Wages and salarles
These
These are amounts pald during the year to
operatives and to administrative, technical and
tiol operatives and to administrative, technical and
clerical employees. $\begin{aligned} & \text { Payments to torking } \\ & \text { proprietors, whether called salarles or not, are }\end{aligned}$ excluded. The values shown include all overt Ime
payments, bonuses and commissilas. whether pald payments, bonuses and commissions, whether paid
regularly or not, and no deduction is made for
income tor Income tax, Insurances, contributory penstons etc.
The value of redundancy payments less any ame
rel relmbursed frem Government sources is included The value of any payments in kind, is travelling
expenses etc. is excluded. Remuneration paid to outworkers
The remuneration pald to outworkers (1.e. persons
employed by to omplomed by the ostablishment who do their work in
thelr own homes) is generally on a their own homes) is generally on a plece-work
basis. Only amounts paid to outworkers whose names
apper basis. Only amounts paid to outworkers whose names
appear on the establishment's payroll are included.
Amoints Amounts paid to outworkers by sub-contractors are
excluded. excluded.
Employers' Insurance and wel fare contributions
Thls Item Includes employers contr butions to
natlonal ins ind natlonal insurance and graduated pensions (and/or
earnings related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide penslons, super-
annuation or other retirement beneftits, slckness benefits, personal accident benefits, disablility or death beneflts for employees, or former
employees or their dependants. Contributions to employees or the ir dependants, cons, contial contres,
the running costs of canteens, social or omployees,
children's and hol iday homes, etc. or children
former
included

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