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## PA371 MEASURING, CHECKING AND PRECISION INSTRUMENTS AND APPARATUS

The information in this report relates to businesses classified to the Measuring, checking and precision instruments and apparatus industry, Group 37 it the Sard Indrial Classification Revised 1980. The industry Group covers the following Activity Heading:-

Measuring, checking and precision instruments and apparatus
Manufacture of scientific and industrial instruments and precision measuring devices, including precision balances, thermometer
fluid flow meters, pressure gauges, altimeters, fluid flow meters, pressure gauges, altimeters, navigational instruments, drawing and other mathematical instruments and laboratory
apparatus for measuring strength, heat, etc. Also included are non-medical respiratory apoaratus including diving equipment and apparatus for measuring strength, heat, etc. Also included are non-medical respiratory apparatus including diving equipment and models or apparatus for educational or exhibition display purposes. Apparatus using electrical or electronic technology for sensing or
measuring is classified to Group 344 and apparatus using optical technology for sensing measuring is classified to Group 344 and apparatus using optical technology for sensing or measuring to Group 373.

For a tull description
otrice, price $£ 4.25$.
In mind the notes and definitions which commence on page 4 .

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EXPLANATORY NOTES AND DEFINITIONS
INTRODUCTION
These notes give basic information to help with the interpretation of tables in this Industry given in a separate Business Monitor - Report on the
Census of Production, Introductory Notes (PA 1001). Since 1980, Censuses have been conducted on
he Standard Industrial Classification Revised 1980 the Standard Industrial Classification Revised 1980
SIC(80). The Standard Industrial Classification exists to promote uniformity and comparability in the
official statistics of the United Kingdom. The official statistics of the United Kingdom. The
SIC( 80 ) is the result of an attempt to align the SIC(80) is the result of an attempt to align the
United Kingdom classification with the General
Industrial Classification of Economic Activities Industrial Classification of Economic Activities
within the European Communities (NACE). It is based on activity rather than commodities produced. Ataly
description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable rom HMSO, price $£ 4.25$.
reporting unit
3. From the earliest censuses of production until that for 1986 the reporting unit to the census
was the establishment. This was defined as the was the establ ishment.
smallest unit which could provide the full range of
data required for an economic census. Establ ishments data required for an economic census. Establishments were asked where possible to exclude from thei
returns to the census any non-production activity.
4. In 1987, for a number of administrative and statistical reasons, a new system of company-based reporting was introduced. Under the new system the
reporting unit to the census is, generally, the company, but there are some exceptions. These arise,
for example, for large mixed activity companies which for example, for large mixed activity companies which
are asked to make separate returns to the census for are asked to make separate returns to the census for
each of their production activities on an
estan each of their production ishment basis. Throughout this monitor this mixture of reporting units are referred to as
"businesses". These businesses are no longer asked bus exclude non-production activities.
5. In practice, since most businesses, both before and after the change, reported for the company as a whole, little difference to the
series has resulted from the change.

For most businesses, the returned data are appropriate to a single activity heading of SIC( 80 )
and fall within a single geographical region. Where information covers a mixture of activities, the business is classified according to the main activity. Where the business operates at a number of
different addresses then, in order to enable regional data to be compiled, separate information on employment and capital expenditure is sought for each the register
7. A register of businesses throughout the
United Kingdom is held on the CSO computer and United Kingdom is for con inquiries. For for each business the register contains identification particulars and information about its eligibitity for
inclusion in an inquiry, its relationship with other businesses in common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Re
and size analyses of manufacturing units are
published in Business Monitor PA1003 - Size analyses of United Kingdom businesses.
8. The Annual Census and other CSO inquiries provide a major source of information for checking the register and updating employment data. Where businesses do not make returns to these inquiries, turnover. For businesses which have an imputed employment of 11 or more, the estimates are checked
by means of register proving forms. For businesses on the register making returns to the Quarterly or
Annual Sales Inquiries, industrial classification is Anual Sales Inquiries, industrial classification is reviewed annually and is derived from businesses the
their commodity sales. For other busin classification is obtained either from VAT sources or
Estimates of from the register proving forms. Estimates of
employment made by the CSO and the Department of employment made by the separate inquiries and use different procedures and employment definitions.

COVERAGE
The Census covers United Kingdom businesses engaged in industrial production, ie mining and quarrying, manufacturing, construction, and gas, loctricity and water supply industries (hanel Islands and the Isle of Man are excluded.
10. Under the sampling arrangements agreed for the 1991 Census, forms were despatched to alt
businesses with 100 or more employed and, for most businesses windustries, samples of 1 in 4 and 1 in 2 respectively being taken for businesses in the 20 to 49 and 50 to 99 employment size bands. It was
necessary to increase the sample in those industries where there were few businesses in the sample size where
band where response in earlier years was poor. About 16,600 forms were des
Kingdom for the 1991 Census.

PERIOD COVERED
11. Businesses were asked to make returns for the calendar year 1991 but, where this was not possible,
returns for business years ending between 6 Apri 1991 and 5 April 1992 were accepted. Return covering fewer than twelve months were accepted for businesses
the year.

## ESTIMATION

12. Al1 published Census results include estimates for non-responders, unsat fisfactory returns and businesses not selected for the census.
Estimates are also made for items not covered in the Estimates are also made for items not co
shorter form sent to smaller businesses.
13. Within employment size groups in each
industry, the "average per head" is calculated for each census variable by dividing the total return
value for each variable by the total returned value for each viriable is multiplied by the
employment. This value is employment thought to exist in each non-responding or
non-selected business to yield an estimated value for non-selected business to yield an est imated value for
that business. Estimates for items not collected on the shorter form are made in a similar way usin returned employment.
14. The accuracy of the totals produced by adding
together estimates and returned data is mainly dependent on the level of response. The extent to which businesses making satisfactory returns account
for the total employment of any industry is shown as for the total employment of any industry is shown as
a percentage in foomnote (a) to table 1. Thus the accuracy of the data published in an Industry Report where 95 per cent of the employment in the industry
is covered by the returns made will is covered by the returns made will, in general, be
better than that in an Industry Report where the coverage is only 70 per cent.

Additionally, the extent to which individual headings in an Industry Report are related to employment should be taken into account in assessing the accuracy of estimated data. Thus an estimate of total earnings which bears a close relationship to
total employment is likely to be more accurate than an estimate of capital expend iture where the
relationship to employment is not so clearly marked. SUPPRESSION OF InFORMATION RELATING TO INDIVIDUAL UPPRERTAKINGS
INETAS
16. Sub-section $9(5)(b)$ of the Statistics of The following provisions shall have effect with to the public of information other communicat ion oregoing provisions of this Act-
in compiling any such report, summary or
communication the competent authority shall so arrange it as to prevent any particular published therein from being identified as being particulars relating to any
individual person or undertaking the previous consent in writing of that
person or the person carrying on thit person or the person carrying on that undertaking, as the case may be; but this
provision shall not prevent the disclosure provision shall not prevent the disclosure
of the total quantity or value of any articles produced, sold or value of any 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 particular relating to him or to an undertaking carrie
on by him to be deducted from the on by him
disclosed.
Figures which would be likely to disclos published unless the contributor has given
publating to andividua tuen consent for their publication.
CHANGS MADE FOR 1991
The 1991 census like that that for 1990 was
slimline one. An additioinal breakdown on capital and current one. An additioinal breakdown on capital
costs associated with pollution nion and solid waste management was included MBOLS USED

The following symbols are used throughout the

$$
0
$$

not ava ilable
nil or less than half the final digit
shown
information suppressed to avoid
disclosure
$R$ disclosure

ROUNDING OF FIGURES
20. Figures in the tables have been rounded to the nearest final digit where necessary and, in these
instances, the sum of the constituent items may not instances, the sum of the constituent items may not EXPLANATION OF TERMS USED IN THE CENSUS REPORT
21. The notes and definitions given in this
section are based on the instructions section are based on the instructions given to
respondents as to the way in which returns were to be
completed. CAPITAL EXPENDITURE
22. This represents the value charged to capital account together with any other amounts which ranked
as capital items for taxation purposes during year to which each return related. From 1988 contributors were asked to include the value of assets acquired as lessees under finance leasing
arrangements. The value is inclusive of any arrangements. The value is inclusive of any amounts
received or expected to be received in grants and/or allowances from government sources, statutory bodies or local authorities. Capital expenditure during the
year in respect of production units where production year in respect of production units where production
had not started before the end of the year and the value of CAPITAL GOODS PRODUCED FFR USE WITHIN THE
BUSINESS by its own staff are included. The value of BUSINESS by its own staff are included. The value of any assets acquired in taking over an existing
business is excluded. The figures include nondeductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or
on LAND AND EXISTING bUiLDings
23. This represents the value of freeholds and leaseholds acquired or disposed of. The figures for acquisitions include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and
Land Registry fees. The figures for disposals ar Land Registry fees. The figures for disposals ar
net of any such professional fees payable.
on NEW BUILDING WORK
24. This represents the value of new building and
other constructional work such as the extension and other constructional work such as the extension and
reconstruction of old buildings, and the value of any newly constructed buildings acquired. The figures Include architects' and surveyors' fees, legal fees,
stamp duties, agents' commissions and Land Registry
on PLant and machinery, vehicles
25. This represents the value of new and seconddisposed of. The figures for vechicles acquired or any discounts received but include the cost of transport and installation and Customs and Excise car
tax. The figures for disposals exclude amounts written off for capital assets which are scrapped. CAPITAL GOODS PRODUCED FOR USE WITHIN THE BUSINESS
26. This represents the value of all work of a capital nature carried out during the year by the
staff of, and for use in, the businesses covered by staff of, and

COST OF Industrial services received
27. This includes amounts payable to other
organisations for work done on materials supplied by rganisations for work done on materials supplied by
the business completing the return, for repairs and maintenance including those in respect of rented buildings, and for contracts which have been sublet. ceital account are excluded
COST OF NON-INDUSTRIAL SERVICES RECEIVED
28. Up to 1987 contributors were asked to include annual payments for assets acquired on a finance
easing basis. From 1988 they were asked to include the total value of such assets as capital expenditure
during the ear in which they were acquired. The during the year in which they were acquired. The
cost of non-industrial services received includes cost of non-industrial services rece ived includes
commercial insurance premiums, bank charges and amounts payable to other organisations for the hire
of vehicles, plant and machinery, for the rent of of vehicles, plant and machinery, for the rent of
industrial and commercial buildings, for the services industrial and commercial buildings, for the services
of accountants, auditors, agents, solicitors and surveyors other than in connection with the
acquisition or disposal of capital assets, for postal acquisition or disposal of capital assets, for postal
and telecommunications services, for carriage by all forms of transport within the United Kingdom, for advertising, market research etc, for the right to use patents, trade marks, copyrights etc, for
manufacturing and quarrying rights and technical manufacturing and quarrying rights and technical
knowledge. Interest payments and amounts payable for know ange. air freight on goods exported and on
sea and
materials and fuel imported are excluded.
EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC
29. This includes employers' national insurance 975, commercial insurance premiums for policies providing pensions, superannuation or other
retirement benefits, sickness benefits, personal retirement benefits, sickness benefits, personal
accident benefits, disability
benefits or death accident benefits, disability benefits or deat
benefits for employees, including former employees,
or their dependants. Also included are contributors benef lhe dependants. Also included are contributors
or to canteens, social centres, children's and holiday
to to canteens, social centres, children's and holiday
homes etc and the cost of supplying luncheon EMPLOYMENT
30. This is the average number of ADMINISTRATIVE,
TECHNICAL AND CLERICAL EMPLOYEES AND OPERATIVES on the payroll and the number of ANB OPERG PRTPVERES on employed during the year of return. Full-time and part-time employees are included but outworkers (ie supplied by the business) and casual employees such as jobbers are excluded. The average number of employees returned by individual businesses may have
been calculated by, for example, the average of the been calculated by, for example, the average of the
number of employees on the payroll for the last week of each calendar month.

## a. ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES <br> CLERICAL EMPLOYEES

31. This includes directors who received foremen, draughtsmen, editorial and advertising staff, travellers, all office employees and research

OPERATIVES
32. This includes all manual wage earners engaged in outside work of erecting, fitting etc, engaged in outside work of erkers and cleaners. Staff engaged in transport (including roundsmen) and
employed in warehouses, stores, shops and canteen are employed in
included.

## ORKING PROPRIETORS

33. These are people who are regarded as selfemployed for national insurance purposes, members of receiving a definite wage or salary for at least half the normal working hours and directors who worked in㲘 salary or commission. part-time irectors and ind directors who received a definite wage, alary or commission are excluded.

## ENTERPRISE

34. This is defined as one or more businesses GROSS OUTPUT
35. This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes dur ing the
year of WORKING PROGRESS and GOOOS ON HAND FOR SALE. gROSS VALUE ADDED AT FACTOR COST
36. This is calculated by deducting from NET RATES and the cost of LICENSING OF MOTOR VEHICLES. his estimate of gross value added approaches more losely than NET OUTPUT the definition of net output GROSS VALUE ADDED AT FACTOR COST PER HEAD
37. This is calculated by dividing GROSS VALUE NET CAPITAL EXPENDITURE
38. This is calculated by adding to the value of EW BUILDING WORK acquisitions less disposals of LAND
ND EXISTING BUILDINGS, VEHICLES and PLANT AND MACHINERY.
NET OUTPUT
39. This is calculated by deducting from GROSS PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST O INDUSTRIAL SERVICES RECEIVED and is adjusted for ne uties and levies etc where applicable. Purchases are adjusted for changes dur
MATERIALS, STORES AND FUEL.
NET OUTPUT PER HEAD
. This is calculated by dividing NET OUTPUT by total EMPLOYMENT.
vOV-INDUSTRIAL SERVICES RENDERED
vehicles, plant and machinery, for the rent of industrial and commercial build dings, for the rent of use patents, trade marks, copyrights etc, for
manufacturing and quarrying rights, for now-how and for the provision of transport to other organisations. It also includes revenue from staff dPERATING RATIOS
40. These ratios are calculated using industry responding to or the estimates for businesses not lespondents are able to compare the ratios for their own bus
whole.
PURCHASES OF MATERIALS FOR USE IN PRODUCTION, AND PACKAGING AND FUEL.
MERCHANTING OR FACTORING
41. These include the cost of raw materials, rampenials, replacement parts and consumable worksho charged to capital account, packaging materials of 11 types, stationery and printed matter, fuel the business or given out to others, for by the business, and mater other capital items used the business, and materials used when working on AT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to the business's own
transport departments for delivery of materials. The figures are net of the value of goods or packaging naterials returned to suppliers and trade discounts included at Materials purchased duty-paid are relates etc. Imported duty-paid value less drawbacks,
Impoods are included at the rebates etc. Imported goods are included at the ir
full del ivered cost. If the transport from docks or irport of imported goods is not included in the cost goods purchased, the cost is entered at cif plus
duty, if applicable. Transfers of goods from pthe departments of the business not covered by the retur the luded at the estimated selling value recorded

EMMNERATION PAID TO OUTWORKERS
This represents amounts paid to outworkers, ie people who do work in their own homes generally on
piece-work basis, whose names appear on the
 SERVICES RECEIVED. Estimates are not made for Completing Census returns.
ES OF GOODS PRODUCED
This represents sales of goods during the the return. It also includes sales of goods mad Whorkers and sales of waste products and or to he value of sales is the 'net selling value', ie the Wunt charged to customers whether values 'ex-works' demissions etc less VAT, trade discounts, allowances on returned are products attract Excise duty, the value udes duty if attract Excise duty, the value
the sold 'duty-paid', but
excludes it if they are sold in bond or exported.
The cost of packaging materials less allowances for The cost of packaging materials less allowances for assets and exceptional receipts are excluded. Transfers of goods produced by a business to
departments not covered by the ret departments not covered by the return (including
other businesses in the same enterorise group) are other businesses in the same enterprise group) are
treated as sales, valued as if sold to an independent purchaser
stocks
46. This represents the value of goods on hand
for sale, including goods for merchanting or for sale, including goods for merchanting or factoring and of materials, stores and fuel held by
businesses, whether held in the United Kingdom or abroad. Values include any duty payable but exclude
VAT.

WAGES AND SALARIES
47. This represents amounts paid during the year and to OPERATIVES. All overtime payments, bonuses comissions, holiday pay and redundancy payments, less any amounts reimbursed for this purpose from made for income tax or employees ' No deduction is contributions etc. Payments to WORKING PROPRIETORS, payments in kind, travelling expenses, lodging
allowances etc and EMPLOYERS'
NATIONAL INSURANCE CONTRIBUTIONS ETC are excluded.

## WORK DONE AND INDUSTRIAL SERVICES RENDERED

48. This includes amounts charged for work carried out including that done by sub-contractors on
customers' materials and amounts charged for materials supplied in the course of such work
Industrial services such as repa installation work and technical research and studies rendered to other organisations is also included. For certain industries this heading covers a wide variety
of activities, for example, butter packed on commission in the food industries packed on garments, fur dressing and textiles, finishing in the textile industries, and preparatory work on and publishing industries. Work done is the printing part of the activities of the electrical machinery and heavy engineering industries, and includes
erection, installation and repair and jobbing work. WORK IN PROGRESS
49. This represents materials which have been partially processed and are awaiting further rogress payments made to sub-contractors ar excluded and progress payments received from other
organisations are not deducted.
$\qquad$

TABLE 1
Output and costs, 1987-1991
All United Kingdom businesses classified to the industry (a)

|  | Unit | 1987 | 1988 | 1989 | 1990 | 1991 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enterprise groups | Number | 1,499 | 1,511 | 1, 592 | 1,454 | 1,398 |
| Businesses | " | 1,551 | 1,564 | 1,640 | 1,502 | 1,443 |
| Sales of goods produced | £ million | 1,306. 5 | 1,445. 2 | 1,627.9 | 1.722. 6 | 1,706. 1 |
| Work done and industrial services rendered | " | 53.6 | 66.7 | 93.4 | 86.5 | 82.6 |
| Capital goods produced for use within the business | " | 3. 3 | 4. 0 | 1. 8 | 2. 4 | 2.2 |
| Non-industrial services rendered | " | 3. 3 | 4.3 | 3.0 | 3. 8 | 5.5 |
| Goods merchanted or factored | " | 188.1 | 208.3 | 192.6 | 198.2 | 168.3 |
| Total sales and work done | " | 1,554.7 | 1,728.5 | 1,918.8 | 2,013. 5 | 1,964.6 |
| Increase during the year, work in progress and goods on hand for sale | " | 12.2 | 13.5 | 3.1 | -1. 3 | -7. 8 |
| Gross output | " | 1,566.9 | 1,741.9 | 1,921.9 | 2, 012.2 | 1,956.8 |
| Purchases of materials for use in production, packaging and fuel | " | 522.9 | 571.6 | 690.0 | 703.3 | 634.9 |
| Purchases of goods for merchanting or factoring | " | 126.7 | 143.7 | 122.4 | 139.3 | 112.4 |
| Increase during the year, stocks of materials, stores and fuel | " | 4. 6 | 18.1 | 5. 8 | 3.4 | -5. 9 |
| Cost of industrial services received | " | 37.6 | 53. 6 | 56. 6 | 54.7 | 50.9 |
| Net output | - | 884. 2 | 991.2 | 1,058.7 | 1,118.3 | 1,152.8 |
| Total employment | Thousand | 43.9 | 45.3 | 46.3 | 45. 2 | 41.3 |
| Net output per head | £ | 20,163 | 21,872 | 22,878 | 24, 734 | 27,942 |
| Cost of non-industrial services received |  |  |  |  |  |  |
| Hire of vehicles, plant and machinery | £ million | 9. 3 | 9.1 | 11.2 | 14. 5 | 14. 6 |
| Rents of industrial and commercial buildings | " | 12.8 | 15. 2 | 21.3 | 23.4 | 25.3 |
| Commercial insurance premiums | " | 9. 6 | 11.0 | 11.2 | 11.5 | 11.4 |
| Bank charges | " | 2.2 | 2.2 | 2.7 | 2.9 | 3.1 |
| Other non-industrial services | " | 121.7 | 136.0 | 161.5 | 165. 9 | 180.8 |
| Licensing of motor vehicles | " | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 |
| Rates, excluding water rates | " | 12.7 | 14.1 | 16.1 | 15.9 | 15.4 |
| Gross value added at factor cost | " | 715.5 | 803.1 | 834.2 | 883.7 | 901.9 |
| Gross value added at factor cost per head | £ | 16,315 | 17, 722 | 18,027 | 19,546 | 21,859 |

(a) Satisfactory returns accounted for 67 per cent of employment within the industry in 1991.

TABLE 2
Capital expenditure, 1987-1991 (a)
All United Kingdom businesses classified to the industry

a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance easing arrangements. The total value of these assets is estimated to be $£ 6$ million for 1991 .

TABLE 3
Stocks and work in progress, 1987-199
All United Kingdom businesses classified to the industry


Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1991
All United Kingdom businesses classified to the industry (a)

| $\begin{aligned} & \overline{\text { Size }} \\ & \text { group } \end{aligned}$ | $\begin{aligned} & \text { Busin- } \\ & \text { esses } \end{aligned}$ | Enterprise groups <br> (b) | Employment |  |  | Wages and salaries (c) |  |  |  | $\begin{aligned} & \text { Total sales } \\ & \text { and work } \\ & \text { done } \end{aligned}$ | Gross output | Net output |  | Gross value added at <br> factor cost |  | Net capital expenditure (d) | Total stocks and work in progress at end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total including working proprietor | Opera-tives | Administrative, technical and clerical | Operatives |  | Administrative, technical and clerical |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  | Total | per head | Total | $\begin{aligned} & \text { per } \\ & \text { head } \end{aligned}$ |  |  |
|  | Number | Number | Thousand | Thousand | Thousand | £ million | £ | £ million | £ | fmillion | £ million | £ million | £ | £ million | £ | £ million | £ million |
| 1-9 | 901 | 897 | 2. 4) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10-19 | 149 | 148 | 2.1) | 10.4 | 7.8 | 111.1 | 10,654 | 133.3 | 16, 982 | 822. 2 | 813.8 | 461.6 | 24, 816 | (e) | (e) | 28.0 | 164.1 |
| 20-49 | 213 | 210 | 6. 8) |  |  |  |  |  |  |  |  |  |  |  |  | 28.0 | 164.1 |
| 50-99 | 101 | 99 | 7.3) |  |  |  |  |  |  |  | 8.15 |  |  |  |  |  |  |
| 100-199 | 42 | 42 | 5.7 | 3. 1 | 2.6 | 29.1 | 9,495 | 44.0 | 16,747 | 252.2 | 253.3 | 150.5 | 26,453 | 469. 4(e) | 19,317(e) | 13.1 | 48.5 |
| 200-299 | 13 | 13 | 3.4 | 1.9 | 1. 5 | 21.0 | 11,235 | 24. 6 | 16, 422 | 174.4 | 179.4 | 108.2 | 32,066 | 87.7 | 26, 002 | 6. 1 | 51. 9 |
| 300-399 | 8 | 8 | 2.7 | 1.6 | 1.2 | 17.4 | 11,187 | 21.5 | 18, 174 | 141.7 | 140.6 | 84.1 | 30,692 | 67.0 | 24,457 | 6. 2 | 28.6 |
| 400-499 | 7 | 7 | 3. 1 | 1.5 | 1. 5 | -17.2 | 11,282 | 26.3 | 17,052 | 182.7 | 181.7 | 108.4 | 35, 264 | 87.7 | 28,532 | 6.2 | 31.0 |
| 500-749 | 4 | 4 | 2.3 | 1. 4 | 0.9 | 17.6 | 12,506 | 15.7 | 17, 109 | 91.4 | 91.4 | 55.6 | 23, 950 | 44.2 | 19,036 | 3. 0 | 28.0 |
| 750-Plus | 5 | 5 | 5. 5 | 4.0 | 1. 5 | 46. 9 | 11,822 | 29.7 | 19,861 | 300.0 | 296.6 | 184.4 | 33,793 | 145. 9 | 26, 732 | 11.6 | 51.1 |
|  |  |  |  |  |  |  |  |  |  | reer | 0eet | e8er | Sel | ser |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 5 c | 188. is | 23i ${ }^{\text {a }}$ | d8 |  |  | 199 गuatue zeoro |
|  |  |  |  |  |  |  |  |  |  |  | acanel | $818: 8$ |  | $\frac{91.05}{98107}$ |  | (0) |  <br> 9btos oulgy zeato |
| Total | 1,443 | 1,398 | 41.3 | 23.8 | 17.1 | 260.3 | 10,930 | 295.1 | 17,243 | 1,964. 6 | 1,956. 8 | 1,152.8 | 27,942 | 901.9 | 21,859 | 74.2 | 403. 2 |

(a) Businesses employing fewer than 20 persons are not required to complete census returns. Because of this, data (a) Businesses employing fewer than 20 persons are not required to complete census returns. Because of ther
for these businesses should be regarded merely as the best estimates available and used with caution.
(b) The count of enterprise groups shown in each row represents the number of enterprise groups, irrespective of size, owning the businesses shown in each size group. Because an enterprise group may own busines
size group, the sum of individual enterprise group counts may exceed the total for the industry.
(c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running The cost of employers' contributions to the nationa insurance, ped for the industry at $£ 73$ million.
costs of canteens are excluded from the table but were estimated
The remuneration of outworkers on returns received - also excluded from the table-was $£ 270$ thousand.
(d) Net capital expenditure includes the value of assets acquired under finance leasing arrangements - see Table 2 .
(e) Gross value added data relate to businesses employing 1-199.

Percentage analysis of twelve-month periods covered by returns received for the 1991 Census
by number of returns and total employment

| Accounting year ended | Percentage of total returns <br> received | Percentage of total <br> employment |  |
| :--- | :--- | :---: | :---: |
| 1991 | 3.5 | 1.5 |  |
|  | April 6-30 | 2.9 | 2.1 |
|  | May | 8.7 | 5.3 |
|  | June | 0.6 | 0.1 |
|  | July | 2.3 | 0.7 |
|  | August | 9.8 | 12.1 |
|  | September | 2.3 | 4.8 |
|  | October | 4.0 | 5.2 |
|  | November | 39.3 | 44.4 |
|  | December | 2.3 | 1.5 |
|  | January | 1.2 | 0.4 |
|  | February | 23.1 | 21.8 |

TABLE 6
Operating ratios, 1987-1991
All United Kingdom businesses classified to the industry

|  | Unit | 1987 | 1988 | 1989 | 1990 | 1991 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gross output per head | £ | 35,729 | 38,439 | 41,531 | 44,507 | 47,429 |
| Net output per head | £ | 20,163 | 21,872 | 22,878 | 24, 734 | 27, 942 |
| Gross value added per head | £ | 16,315 | 17,722 | 18,027 | 19,546 | 21,859 |
| Gross value added as a percentage of gross output | \% | 46 | 46 | 43 | 44 | 46 |
| Ratio of gross output to stocks |  | 4. 2 | 4.1 | 4. 5 | 4. 5 | 4.9 |
| Wages and salaries as a percentage of gross value added | \% | 58 | 58 | 63 | 63 | 62 |
| Ratio of operatives to administrative, technical and clerical employees |  | 1. 3 | 1.3 | 1.4 | 1. 3 | 1.4 |
| Wages and salaries per operative | £ | 8,027 | 8,603 | 9, 390 | 10,033 | 10,930 |
| Wages and salaries per administrative, technical and clerical employee | £ | 11,625 | 12,606 | 14, 255 | 15,740 | 17, 243 |
| Net capital expenditure per head (a) | £ | 1,483 | 1,505 | 1,600 | 1. 948 | 1,798 |
| Net capital expenditure as a percentage of gross value added (a) | \% | 9 | 9 | 9 | 10 | 8 |

[^0]Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1991 All United Kingdom businesses classified to the industry

| Area | Total employment <br> (a) |  | Net capital expenditure (b) |  | Net output <br> (c) |  | Gross value added at factor cost <br> (c) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousand | per cent of United Kingdom | $\underset{\text { million }}{ }$ | $\begin{aligned} & \text { per cent } \\ & \text { of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ | £ million | $\begin{aligned} & \text { per cent } \\ & \text { of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ | f million | $\begin{aligned} & \text { per cent } \\ & \text { of } \\ & \text { United } \\ & \text { Kingdom } \end{aligned}$ |
| Standard regions of England |  |  |  |  |  |  |  |  |
| North | 2.1 | 5. 1 | 6. 7 | 9.1 | 64.5 | 5.6 | 54.0 | 6. 0 |
| Yorkshire and Humberside | 1. 1 | 2.6 | 1. 4 | 1. 9 | 25. 9 | 2.2 | 19.8 | 2.2 |
| East Midlands | 2.4 | 5.7 | 5.2 | 7. 0 | 58.8 | 5.1 | 47.5 | 5. 3 |
| East Anglia | 1.9 | 4. 5 | 2.8 | 3.8 | 50.4 | 4. 4 | 38.1 | 4. 2 |
| South East | 18.4 | 44. 6 | 30.4 | 40.9 | 527. 9 | 45.8 | 409. 3 | 45.4 |
| South West | 4.1 | 9. 8 | 5.3 | 7. 2 | 99.5 | 8.6 | 78.7 | 8.7 |
| West Midlands | 2.9 | 6. 9 | 4. 0 | 5. 4 | 79.2 | 6. 9 | 61.8 | 6.9 |
| North West | 4. 5 | 10.9 | 11.8 | 15.9 | 145. 2 | 12.6 | 112.0 | 12.4 |
| England | 37.2 | 90.1 | 67.7 | 91.2 | 1,051.5 | 91.2 | 821. 2 | 91.1 |
| Wales | 1. 5 | 3. 6 | 2. 5 | 3.4 | 33.4 | 2. 9 | 26.1 | 2.9 |
| Scotland | 2.4 | 5.8 | 3. 7 | 5. 0 | 62.3 | 5. 4 | 50.2 | 5. 6 |
| Great Britain | 41.0 | 99.5 | 73. 9 | 99. 6 | 1,147. 2 | 99.5 | 897.5 | 99.5 |
| Northern Ireland | 0.2 | 0.5 | 0.3 | 0.4 | 5.6 | 0.5 | 4.3 | 0.5 |
| United Kingdom | 41.3 | 100.0 | 74. 2 | 100.0 | 1,152. 8 | 100. 0 | 901. 9 | 100.0 |

(a) Average number employed during the year, including full and part-time employees and working proprietors
(b) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and
machinery. The value also includes assets acquired under finance leasing arrangements - see Table 2. machinery. The value also includes assets acquired under finance leasing arrangements - see Table 2 .
() Where a census return covered addresses in two or more regions, an estimate of the net output attributable to region was obtained by aggregating estimates of net output for addrate to employment. An estimate for each added at factor cost was treated similarly.


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[^0]:    (a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance
    leasing arrangements - see Table 2.

