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# PA325 1986

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Report on the Census of Production

Mining machinery, construction and mechanical handling equipment



**HMSO** 

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A publication of the Government Statistical Service

## **BUSINESS MONITORS**

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# PA325

# **BUSINESS MONITOR**

A publication of the Government Statistical Service

Report on the Census of Production 1986

Mining machinery, construction and mechanical handling equipment

Presented by the Secretary of State for Trade and Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Trade and Industry Business Statistics Office

London: Her Majesty's Stationery Office

### BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

The following is the list of Business Monitors making up the complete census report.

Shown alongside each title, where appropriate, is an indication of the change in the estimated employment in that industry that has arisen, between 1983 and 1984, from the introduction of a new, more up to date, register of businesses. The change shown reflects the increase or decrease between the old and new registers at a fixed point in time and does not in itself give any indication of the growth or contraction within any industry between 1983 and 1984. Over all manufacturing industry there was an increase between the two registers of 1.3%. Changes for individual industries have arisen not only from the addition of extra, mainly small, units but also from the reclassification of some small units from one industry to another.

Since estimates of census variables, based on register employment, are made for small establishments which are not required to complete census forms, the change will affect much of the data contained in the reports. This should be taken into account in interpreting the figures.

Employment percentage variation

PA1001	Introductory notes
PA111	Coal extraction and manufacture of solid fuels
PA120	Coke ovens
PA130	Extraction of mineral oil and natural gas
PA140	Mineral oil processing
PA161	Production and distribution of electricity
PA162	Public gas supply
PA170	Water supply industry
PA210	Extraction and preparation of metalliferous ores 3
PA221	Iron and steel industry —
PA222	Steel tubes
PA223	Drawing, cold rolling and cold forming of steel –
PA224	Non-ferrous metals industry
PA231	Extraction of stone, clay, sand and gravel —1
PA239	Extraction of miscellaneous minerals (including salt)
PA241	Structural clay products —
PA242	Cement, lime and plaster
PA243	Building products of concrete, cement or plaster —
PA244	Asbestos goods
PA245	Working of stone and other non-metallic minerals
PA246	Abrasive products —
PA247	Glass and glassware
PA248	Refractory and ceramic goods
PA251	Basic industrial chemicals
PA255	Paints, varnishes and printing ink
PA256	Specialised chemical products mainly for industrial and agricultural purposes
PA257	Pharmaceutical products
PA258	Soap and toilet preparations
PA259	Specialised chemical products mainly for household and office use
PA260	Production of man made fibres
PA311	Foundries
PA312	Forging, pressing and stamping
PA313	Bolts, nuts, etc; springs; non-precision chains; metals treatment
PA314	Metal doors, windows etc  Hand tools and finished metal goods  —
PA316 PA320	
PA321	Industrial plant and steelwork  Agricultural machinery and tractors
PA322	Metal-working machine tools and engineers' tools —
PA323	Textile machinery
PA324	Machinery for the food, chemical and related industries; process engineering contractors
PA325	Mining machinery, construction and mechanical handling equipment
PA326	Mechanical power transmission equipment 1
PA327	Machinery for printing, paper, wood, leather, rubber, glass and related industries; laundry and
171027	dry cleaning machinery —
PA328	Miscellaneous machinery and mechanical equipment
PA329	Ordnance, small arms and ammunition
PA330	Manufacture of office machinery and data processing equipment
PA341	Insulated wires and cables
PA342	Basic electrical equipment
PA343	Electrical equipment for industrial use, and batteries and accumulators
PA344	Telecommunication equipment, electrical measuring equipment, electronic capital goods and
	passive electronic components
PA345	Miscellaneous electronic equipment
PA346	Domestic-type electric appliances
PA347	Electric lamps and other electric lighting equipment 1
PA351	Motor vehicles and their engines
PA352	Motor vehicle bodies, trailers and caravans

# BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT (continued)

PA353 Motor vehicle parts PA361 Shipbuilding and repairing PA362 Railway and tramway vehicles PA363 Cycles and motor cycles PA364 Aprospace equipment manufacturing and repairing PA364 Aprospace equipment manufacturing and repairing PA365 Miscellaneous vehicles PA367 Miscellaneous vehicles PA368 Miscellaneous vehicles PA371 Medical and surgical equipment and orthopaedic appliances PA372 Medical and surgical equipment and orthopaedic appliances PA373 Detroic precision instruments and photographic equipment PA374 Clocks, watches and other timing devices PA415 Clocks, watches and other timing devices PA416 Clocks, watches and other timing devices PA417 Pa374 Clocks, watches and other timing devices PA418 Figure of an imais and production of meat and by-products PA419 PA375			Employmer percentage variation
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PA1002 Summary tables	PA1002	Summary tables	

### PA325 MINING MACHINERY, CONSTRUCTION AND MECHANICAL HANDLING EQUIPMENT

The information in this report relates to establishments classified to the Mining machinery, construction and mechanical handling equipment industry, Group 325 in the Standard Industrial Classification Revised 1980. The industry Group covers the following Activity Headings:-

Manufacture of mineral cutting machinery including loading machines, continuous miners and tunnelling machines. Manufacture of underground mineral transport machinery including conveyors and stationary hauling engines. Manufacture of support machinery including and winding machines, cage plant, pit bottom machines and mine roof supports (including powered roof supports). Manufacture of mineral dressing and other mining machinery including plant for on surface treatment and dressing of coal and other minerals. Mine railway equipment is classified to Group 362.

#### 3254 Construction and earth moving equipment

Earth moving equipment

Manufacture of excavators and diggers including trenchers, ditchers and similar digging machines, buckets, grabs and drag-line excavators. Manufacture of other earth moving equipment including earth levelling and land clearing equipment, wheeled loading shovels, crawler tractors, tractor winches, rippers, rooters, dumpers and powered barrows.

Equipment for concrete, crushing and screening and road works

2. Equipment for concrete, crushing and screening and road works

Manufacture of concrete mixing and placing machinery. Manufacture of road making and maintenance equipment including road rollers, gritting machines and snow ploughs. Manufacture of crushing, pulverising and screening plant.

Pile driving, well drilling and other construction equipment

Manufacture of pile driving, well drilling and earth boring machines, and other construction equipment.

#### 3255 Mechanical lifting and handling equipment

Conveyors, aerial ropeways, hoists and handling plant

Manufacture of continuous bulk and unit load mechanical handling equipment and live storage racks.

Cranes and transporters

Manufacture of cranes of all types and transporters.

Lifts and escalators

facture of passenger and goods lifts, escalators and other passenger conveyors.

Lifting and winding devices

Manufacture of electric hoists using wire, rope or chain, hand operated chain, rope or lever hoists, pulley and sheave blocks, power and hand operated travelling carriages, lifting jacks and tackle, capstans, winches and windlasses, including builders' hoists.

Powered industrial trucks

Manufacture of fork-lift and pallet trucks, elevating and fixed platform trucks and other industiral trucks and tractors.

For a full description of the 1980 classification see Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page 5.

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#### EXPLANATORY NOTES AND DEFINITIONS

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1. These notes give basic information to help with the interpretation of tables in this Industry Report. More general information about the Census is given in a separate Business Monitor Report on the Census of Production, Introductory Notes

2. Since 1980, Censuses have been conducted on 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 SIC(80) is the result of an attempt to align the United Kingdom classification with the General Industrial Classification of Economic Activities within the European Communities (NACE). It is based on activity rather than commodities produced. A full description of SIC(80) is given in Standard Industrial Classification Revised 1980, obtainable from Her Majesty's Stationery Office, price £3.95.

REPORTING UNIT

As far as possible the reporting unit in respect of which information is collected is one whose activities fall within a single activity heading of the classification and which is situated at a single geographical location. Frequently, however, the information required cannot be provided on this basis. Where information covering a mixture of activities is all that is available, the unit is classified according to the main activity. Where a unit operates at a number of locations and the full range of information is not available for each location, the reporting unit is deemed to cover a number of locations. In most cases, separate information on employment and net capital expenditure is obtained for each location (local unit) in order to enable regional data to be compiled. The reporting unit, usually called the establishment, is therefore defined as the smallest unit for which the information normally required in a production census can be provided.

Establishments are asked to exclude from their returns particulars relating to ancillary departments not engaged in production (such as merchanting or factoring organisations, transport organisations, canteens and warehouses) for which separate accounts are kept. Transfers of goods produced to such departments are treated as sales, valued as far as possible as if sold to an independent purchaser. Where separate accounts are not kept, establishments are allowed to include details in their returns Establishments are asked to include details relating to head offices engaged mainly in the administration of production units within the scope of the Census. Where head office activity covers more than one return, details are included in the principal return.

5. A register of production units throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries to the production sector. For each unit the register contains identification particulars and information about that unit's eligibility for inclusion in an inquiry, its relationship with other units in common ownership, its industrial classification, the nationality of its parent and location indicators for regional analyses. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 - Analyses of United Kingdom Manufacturing (Local) Units by Employment Size. During 1984 for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs

The annual Census and other inquiries provide a major source of information for updating and checking the register. For establishments on the register making returns to the Quarterly Sales Inquiry industrial classification is reviewed annually and is derived from an analysis of their commodity sales. Employment data are provided by the Quarterly Sales Inquiry and the Census of Production. Where establishments on the register do not make returns to these inquiries, employment is based mainly on information provided by the Department of Employment from Censuses of Employment. New additions to the register are obtained from various sources including HM Customs and Excise VAT records and Censuses of Employment.

The Census covers United Kingdom establishments engaged in industrial production, i.e. mining and quarrying, manufacturing, construction, and gas, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Establishments in the Channel Islands and the Isle of Man are excluded

Under the sampling arrangements agreed for the 1986 Census, forms were despatched to all establishments with 100 or more employed and, for most production industries, samples of 1 in 4 and 1 in 2 respectively being taken for establishments in the 20 to 49 and 50 to 99 employment size bands. For industries where there were few units in the sample size band or where response in earlier years was poor, it was necessary to increase the sample. About 16,200 forms were despatched to production establishments in the United Kingdom for the 1986 Census.

PERIOD COVERED

Establishments were asked to make returns for the calendar year 1986 but, where this was not possible, returns for business years ending between 6 April 1986 and 5 April 1987 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year

All published Census results include estimates for nonresponders, unsatisfactory returns and establishments not selected for the Census. Estimates are also made for items not covered on the shorter form sent to smaller establishments

Within employment size groups in each industry, the 'average per head" is calculated for each census variable by dividing the total returned value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or unselected establishment to yield an estimated value for that establishment. Estimates for items not collected on the shorter form are made in a similar way using returned employment.

The accuracy of the totals produced by adding together estimates and returned data is mainly dependent on two measures. The first of these is the extent to which establishments making satisfactory returns account for the overall total for any heading. In practice a measure of this is normally taken to be the employment of establishments making satisfactory returns expressed as a percentage of the total estimated employment (this is given in footnote (a) to Table 1). Thus the accuracy of data published in an Industry Report where 95 per cent of the employment in the industry is covered by returns made, will, in general, be better than that in an Industry Report where the coverage is only 70 per cent.

The second measure is the extent to which individual headings in an Industry Report are related to employment. 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 expenditure where the relationship to employment is not so clearly marked

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

Sub-section 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 communication to the public of information obtained under the foregoing provisions of this Act -

in compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars 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, sold 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 be deduced from the total disclosed.

Figures which would be likely to disclose particulars relating to an individual undertaking are not published unless the contributor has given written consent for their publication.

**CHANGES MADE FOR 1986** 

The 1986 Census, like that for 1985, was a slimline one. Additional questions were asked for numbers of computer employees, costs of computer equipment purchased and, for larger establishments only, costs of hiring, leasing or renting computer

SYMBOLS USED

The following symbols are used throughout the PA series of Business Monitors:

not available

nil or less than half the final digit shown

figures cannot be shown owing to the risk of disclosing information about individual enterprises

ROUNDING OF FIGURES

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 always agree exactly with the total

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

19. The notes and definitions given in this section are based on the instructions given to respondents as to the way in which returns were to be completed.

CAPITAL EXPENDITURE

This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation during the year to which each establishment's return related. 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. Where expenditure is spread over more than one Census year, payments are included in the years in which they were made. Capital expenditure during the year in respect of production units where production had not started before the end of the year and the value of CAPITAL GOODS PRODUCED FOR ESTABLISHMENTS' OWN USE by establishments' own staff are included. The value of any assets acquired in taking over an existing business are excluded. figures include non-deductible VAT but exclude deductible VAT. allowance is made for depreciation, amortisation or obsolescence.

### on LAND AND EXISTING BUILDINGS

This represents the value of freeholds and the value or premium payable or receivable for leaseholds acquired or disposed of. The figures for acquisitions include architects' and surveyors' fees, legal fees, stamp duties, agents' commissions and Land Registry The figures for disposals are net of any such professional fees payable.

#### on NEW BUILDING WORK

22. This represents the value of new building 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 fees.

#### on PLANT AND MACHINERY, VEHICLES

23. This represents the value of new and second-hand plant and machinery and vehicles acquired or disposed of. The figures for acquisitions are net of 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 ESTABLISHMENTS' OWN USF

This represents the value of all work of a capital nature carried out during the year by the establishments' own staff for use in the businesses covered by the returns.

COST OF INDUSTRIAL SERVICES RECEIVED

This includes amounts payable to other organisations for work done on materials supplied by the establishment completing the return, for repairs and maintenance including those in respect of rented buildings, and for contracts which have been sublet. Direct payments to outworkers and amounts charged to capital account are

COST OF NON-INDUSTRIAL SERVICES RECEIVED

This includes commercial insurance premiums, bank charges and amounts payable to other organisations for the hire of vehicles, plant and machinery, for the rent of 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 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 'know-how'. Interest payments and amounts payable for sea and air freight on goods exported on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC. 27. This includes employers' national insurance contributions under the Social Security Pensions Act 1975, commercial insurance premiums for policies providing pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability benefits or death benefits for employees, including former employees, or their dependants. Also included are contributions to canteens, social centres, children's and holiday homes etc. and the cost of supplying luncheon vouchers.

EMPLOYMENT

28. This is the average number of ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and OPERATIVES on the payroll and the number of WORKING PROPRIETORS employed during the year of return. Full-time and part-time employees are included but outworkers (i.e. people who worked in their own homes on materials supplied by establishments) and casual employees such as jobbers are excluded. The average number of employees returned by individual establishments may have been calculated by, for example, the average of the number of employees on the payroll for the last week of each calendar month.

# ADMINISTRATIVE, TECHNICAL AND CLERICAL

29. This includes directors who received a definite wage, salary or commission, managers, foremen, draughtsmen, editorial and advertising staff, travellers, all office employees and research and design employees other than operatives.

#### OPERATIVES

This includes all manual wage earners including operatives in power stations, operatives engaged in outside work of erecting, fitting, etc., inspectors, maintenance workers and cleaners. Staff engaged in transport (including roundsmen) and employed in warehouses, stores, shops and canteens are, in general, excluded.

#### WORKING PROPRIETORS

31. These are people who are regarded as self-employed for national insurance purposes, members of their families who worked in the business without receiving a definite wage or salary for at least half the normal working hours and directors who worked in the business but did not receive a definite wage, salary or commis-Part-time directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

GROSS OUTPUT

32. This is calculated by increasing (or decreasing) the value of TOTAL SALES AND WORK DONE by the rise (or fall) during the year of WORK IN PROGRESS and GOODS ON HAND FOR

GROSS VALUE ADDED AT FACTOR COST

33. This is calculated by deducting from NET OUTPUT the COST OF NON-INDUSTRIAL SERVICES RECEIVED, RATES and the cost of LICENSING OF MOTOR VEHICLES. estimate of gross value added approaches more closely than NET OUTPUT the definition of net output or value added in national accounts statistics.

GROSS VALUE ADDED AT FACTOR COST PER HEAD 34. This is calculated by dividing GROSS VALUE ADDED AT FACTOR COST by total EMPLOYMENT.

NET CAPITAL EXPENDITURE

This is calculated by adding to the value of NEW BUILDING WORK acquisitions less disposals of LAND AND EXISTING BUILDINGS, VEHICLES and PLANT AND MACHINERY.

This is a traditional census measure calculated by deducting from GROSS OUTPUT the cost of PURCHASES OF MATERIALS FOR USE IN PRODUCTION AND PACKAGING AND FUEL and PURCHASES OF GOODS FOR MERCHANTING OR FACTORING, the COST OF INDUSTRIAL SERVICES RECEIVED and is adjusted for net duties and levies etc. where applicable. Purchases are adjusted for changes during the year of STOCKS OF MATERIALS, STORES AND FUEL.

NET OUTPUT PER HEAD

37. This is calculated by dividing NET OUTPUT by total EMPLOYMENT.

NON-INDUSTRIAL SERVICES RENDERED

This includes amounts charged for the hire of vehicles, plant and machinery, for the rent of industrial and commercial buildings, for the right to use patents, trade marks, copyrights etc., for manufacturing and quarrying rights, for technical 'know-how' and for the provision of transport to other organisations. It also includes revenue from staff facilities such as canteens.

**OPERATING RATIOS** 

These ratios are calculated using industry totals, i.e. including the estimates for establishments not responding to or not selected for the Census. Respondents are able to compare the ratios for their own businesses with those for the industry as a whole.

PURCHASES OF MATERIALS FOR USE IN PRODUCTION, AND PACKAGING AND FUEL. PURCHASES OF GOODS FOR MERCHANTING OR FACTORING

These include the cost of raw materials components semimanufactured goods and workshop materials, replacement parts and consumable tools not charged to capital account, packaging materials of all types, stationery and printed matter, fuel, electricity and water, materials of all types used by the establishments or given out to other establishments for the production of machinery or other capital items for the establishments' own use and materials for use by the establishments when working on goods supplied by customers. The figures exclude VAT, purchases of machinery and plant, which are included in CAPITAL EXPENDITURE, and amounts payable to transport firms or credited to establishments' own transport departments for delivery of materials. The figures are net of the value of goods or packaging materials returned to suppliers and trade discounts receivable. Materials purchased duty-paid are included at their duty-paid value less drawbacks, rebates etc. Imported goods are included at their full delivered cost, If the transport from docks or airport of imported goods is not included in the cost of goods purchased, the cost is entered at cif plus duty, if applicable. Transfers of goods to an establishment from other departments of the organisation not covered by the return are included at the estimated selling value recorded by the other departments.

REMUNERATION PAID TO OUTWORKERS

41. This represents amounts paid to outworkers, i.e. people who do work in their own homes generally on a piece-work basis, whose names appear on establishments' payrolls. Amounts paid to outworkers by subcontractors are included in the COST OF INDUSTRIAL SERVICES RECEIVED. Estimates are not made for remuneration of outworkers for establishments not completing

SALES OF GOODS PRODUCED

This represents deliveries on sale of goods produced by establishments in the United Kingdom coming within the scope of the Census irrespective of whether or not they were produced in the year of the return. It also includes sales of goods made for establishments from materials given out by them to other organisations or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', i.e. the amount charged to customers whether valued 'ex-works' or 'delivered' less VAT, trade discounts, agents' commissions, etc. and allowances on returned goods. Where products attract Excise duty, the value is inclusive of duty if goods are sold 'duty-paid' and exclusive of duty if goods are sold in bond or exported. The cost of packaging materials less allowances for returnable containers is included. Sales of fixed assets and exceptional receipts are excluded. Transfers of goods produced by an establishment to departments not covered by the return (including other establishments in the same enterprise group) are treated as sales, valued as if sold to an independent

This represents the value of goods on hand for sale, including goods for merchanting or factoring and of materials, stores and fuel held by establishments coming within the scope of the Census, whether held in the United Kingdom or abroad. Values include any duty payable but exclude VAT.

WAGES AND SALARIES

This represents amounts paid during the year ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES and to OPERATIVES. All overtime payments, bonuses, commissions, holiday pay and redundancy payments, less any amounts reimbursed for this purpose from government sources, are included. No deduction is made for income tax or employees' national insurance 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

This includes amounts charged for work carried out including that done by sub-contractors on customers' materials including amounts charged by establishments for materials supplied by them in the course of such work and for industrial services such as repairs and maintenance, installation work and technical research and studies rendered to other organisations. For certain industries this heading covers a wide variety of activities, for example, butter packed on commission in the food industries, making up of garments, fur dressing and textile finishing in the textile industries, and preparatory work on typesetting, block making and binding in the printing and publishing industries. Work done is an important part of the activities of the electrical machinery and heavy engineering industries, and includes erection, installation and repair and jobbing work.

WORK IN PROGRESS

This represents materials which have been partially processed and are awaiting further processing before being sold or transferred. Progress payments made to sub-contractors are excluded and progress payments received from other organisations are not deducted

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Output and costs, 1982-1986 All United Kingdom establishments classified to the industry (a)

	Unit	1982	1983	1984	1985	1986
Enterprises	Number	927	936	1,666(b)	1,728	1,757
Establishments		1,070	1,080	1,809(b)	1,877	1,906
Sales of goods produced	£ million	2,579.3	2,465.4	2,470.3	2,878.6	3,003.2
Work done and industrial services rendered		207.0	244.0	259.6	258.3	279.2
Capital goods produced for establishments' own use		3.3	2.9	2.2	3.2	4.4
Non-industrial services rendered	•	19.1	10.9	35.7	35.6	42.3
Goods merchanted or factored		313.3	329.6	325.1	399.1	392.4
Total sales and work done		3,121.9	3,052.9	3,093.0	3,574.8	3,721.6
Increase during the year, work in progress and goods on hand for sale		26.1	-53.9	43.2	65.7	10.0
Gross output		3,148.0	2,999.0	3,136.1	3,640.5	3,731.5
Purchases of materials for use in pro- duction, packaging and fuel		1,406.1	1,343.1	1,425.9	1,749.3	1,806.7
Purchases of goods for merchanting or actoring		229.7	217.8	236.2	282.7	263.7
ncrease during the year, stocks of naterials, stores and fuel		-9.7	-9.5	1.2	20.2	14.9
Cost of industrial services eceived		105.2	107.3	102.6	112.3	121.9
Net output		1,397.2	1,321.2	1,372.6	1,516.4	1,554.1
Total employment	Thousand	102.1	92.6	84.8(b)	83.8	81.2(c
Net output per head	£	13,687	14,272	16,188	18,090	19,147
Cost of non-industrial services received						
Hire of vehicles, plant and machinery	£ million	19.9	22.4	20.0	21.8	24.1(d)
Rents of industrial and commercial buildings		13.0	12.1	12.9	14.3	14.4
Commercial insurance premiums		14.1	14.1	13.8	15.7	18.9
Bank charges		2.3	2.5	2.7	3.3	3.2
Other non-industrial services		151.0	150.0	163.6	182.8	175.9
icensing of motor vehicles		1.2	1.3	1.4	1.4	1.3
Rates, excluding water rates		23.8	25.8	25.8	26.0	28.8
Gross value added at factor cost		1,172.0	1,093.0	1,132.4	1,251.0	1,287.4
Gross value added at factor cost per head	£	11,480	11,806	13,354	14,924	15,862

(a) Satisfactory returns accounted for 68 per cent of employment within the industry in 1986.

(b) Use of a new register of businesses for 1984 has affected the number of enterprises and establishments. This has led to the estimated total employment being increased by 3% in this industry. Estimates for other variables are dependent upon employment and the change should be taken into account when interpreting the figures in this publication. Further information is given on page 2.

(c) Returned figures gave a total of 734 employees directly employed for all of their time on computer work. This figure was collected separately for 1986.

(d) Returned figures gave a total of £3,921 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

TABLE 2

Capital expenditure, 1982-1986
All United Kingdom establishments classified to the industry

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						£ million
Tentes Great (a) sarrows	1982	1983	1984	1985	1986	min tritanis
Land and buildings				(a)	2000	
New building work	8.5	6.3	7.0	13.1	5.4	
Land and existing buildings						
Acquisitions	7.2	6.2	5.0	2.9	2.9	
Disposals	7.5	7.3	7.0	4.5	7.5	
Net	8.2	5.2	5.0	11.4	0.8	
Plant and machinery						
Acquisitions	64.1	52.3	64.9	80.2	63.0(a)	
Disposals	7.7	8.3	12.5	8.5	7.0	
Net	56.4	44.0	52.4	71.7	56.0	
/ehicles						
Acquisitions	12.3	14.5	19.4	16.0	18.4	
Disposals Annual Company	4.5	5.2	4.4	7.1	9.8	
Net	7.8	9.3	15.0	9.0	8.6	
Total net capital expenditure	72.5	58.6	72.4	92.1	65.4	

(a) Returned figures gave a total of £7,629 thousand for computer and associated data communications equipment. This figure was collected separately for 1986.

TABLE 3

Stocks and work in progress, 1982-1986 All United Kingdom establishments classified to the industry

						£ million
	1982	1983	1984	1985	1986	Value at end of 1986
		Inc	crease during y	ear		
Materials, stores and fuel	-9.7	-9.5	1.2	20.2	14.9	309.0
Work in progress	28.1	-46.7	34.0	62.7	-1.1	450.4
Goods on hand for sale	-2.0	-7.2	9.2	3.0	11.1	248.5
Total	16.3	-63.4	44.4	85.9	24.8	1,007.9

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1986

All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish- ments	Enter- prises (b)	Employmen	1,070		Wages and	salaries (c)		
			Total including working proprietors	Opera- tives	Administr- ative,tech- nical and clerical	Operatives	equito (	Administra technical a clerical	
						Total	per head	Total	per head
	Number	Number	Thousand	Thousand	Thousand	£ million	f	£ million	£
1-9	1,186	1,166	3.8)						
10-19	230	225	3.2)	13.4	8.1	111.6	8,313	83.6	10,364
20-49	222	215	7.0)	13.4	0.1		0,0.0		zeloutel/
50-99	117	113	8.0)						
100-199	71	66	10.4	6.3	4.0	54.8	8,672	42.8	10,612
200-299	24	24	6.2	3.7	2.5	33.8	9,154	26.1	10,369
300-399	13	13	4.5	2.6	1.9	23.1	9,048	20.3	10,614
400-499	6	6	2.7	1.7	1.0	16.0	9,228	10.3	10,289
500-749	20	19	11.8	7.6	4.2	69.9	9,219	46.6	11,054
750-999	5	5	4.2	2.1	2.1	20.7	9,897	22.3	10,614
1,000-1,499	7	7	8.8	4.8	4.0	47.9	10,017	44.3	11,018
1,500-Plus	5	5	10.6	6.7	3.9	67.3	10,069	45.7	11,643

Total	1,906	1,757	81.2	48.9	31.8	445.0	9,109	341.9	10,757

<sup>(</sup>a) Establishments employing fewer than 20 persons are not required to complete census returns. Because of this, data for these establishments should be regarded merely as the best estimates available and used with caution.

	1318911341	and the same of th	100	Control amend on taken	NAME OF TAXABLE PARTY.		
Total sales and work	Gross	Net		Gross value		Net capital	Total stocks
done	output	output		added at factor cost		expenditure	and work in
				ractor cost			progress at end of year
							end or year
		Total	per	Total	per		
			head		head		
Newton							
million	£ million	£ million	£	£ million	£	£ million	£ million
807.0	812.7	367.1	16,675	(d)	(d)	16.2	188.3
430.1	435.1	185.0	17,847	452.0(d)	13,951(d)	7.7	99.4
269.8	271.2	111.8	18,005	94.9	15,278	3.6	63.6
190.8	189.1	77.2	17,279	63.1	14,128	2.7	82.6
125.4	117.4	35.6	13,030	21.8	7,959	0.8	30.8
569.9	569.0	217.7	18,456	178.6	15,144	9.9	188.4
251.0	249.6	84.1	20,101	69.9	16,694	2.6	57.4
544.1	544.8	236.4	26,880	212.2	24,136	11.6	172.9
533.6	542.5	239.2	22,561	194.9	18,384	10.2	124.4

3,721.6	3,731.5	1,554.1	19.147	1 297 4	15,862	maginishing in	TOPPER
				1,201.7	10,002	05.4	1.007.9

<sup>(</sup>b) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the establishments shown in each size group. Because an enterprise may own establishments in more than one size group, the sum of individual enterprise counts may exceed the total for the industry.

<sup>(</sup>c) The cost of employers' contributions to the national insurance, pensions and welfare schemes and the running costs of canteens are excluded from the table but were estimated for the industry at £109.0 million.

<sup>(</sup>d) Gross value added data relates to establishments employing 1-199.

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TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1986 Census by number of returns and total employment

Accountin	ng year ended		Perce recei	entage of total re ived	eturns		entage of total loyment	
1986	April 6-30	Aleksania Aleksania Aleksania	Taken Taken	4.6		er v annymmetri	7.2	ione
	May			0.9			0.2	
	June			5.5			4.0	
	July			2.3			0.6	
	August			2.3			0.7	
	September			9.2			9.0	
	October			5.5			3.9	
	November			1.4			2.4	
	December			42.4			45.1	
1987	January			4.6			3.5	
	February			0.5			0.1	
	1 March - 5 Apr	il		20.7			23.4	
							1 290 F 42 B	1.00

TABLE 6

Operating ratios, 1982-1986

All United Kingdom establishments classified to the industry

	Unit	1982	1983	1984	1985	1986
		<u> </u>				
Gross output per head	£	30,837	32,395	36,986	43,430	45,975
Net output per head	£	13,687	14,272	16,188	18,090	19,147
Gross value added per head	£	11,480	11,806	13,354	14,924	15,862
Gross value added as a percentage of gross output	×	37	36	36	34	35
Ratio of gross output to stocks		3.2	3.1	3.3	3.6	3.7
Wages and salaries as a percentage of gross value added	×	62	65	61R	61	61
Ratio of operatives to administrative, echnical and clerical employees		1.6	1.6	1.5	1.6	1.5
Wages and salaries per operative	£	6,697	7,130	7,659R	8,471	9,109
Wages and salaries per administrative, technical and clerical employee	£	7,820	8,461	9,115R	10,138	10,757
Net capital expenditure per head	£	710	633	854	1,098	805
Net capital expenditure as a percentage of gross value added	×	6	5	6	7	5

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1986 All United Kingdom establishments classified to the industry

Area		Total employm (a)	ent	Net cap expend (b)		Net out	out	Gross v added a factor o (c)	it
T. COS. F Land and anything building AppRoffEss	30.3	Thousand	per cent of United Kingdom	f million	per cent of United Kingdom	£ million	per cent of United Kingdom	£ million	per cent of United Kingdom
Standard regions of Engl	and S						Hausen wat		ong katoka zwo lutekan
North		5.1	6.3	4.1	6.3	98.7	6.4	85.9	6.7
Yorkshire and Humberside		7.1	8.7	5.1	7.8	125.6	8.1	105.8	8.2
East Midlands		12.0	14.8	5.7	8.7	214.1	13.8	174.7	13.6
East Anglia		1.8	2.2	-0.6	-1.0	24.5	1.6	18.8	1.5
South East		17.1	21.1	12.0	18.3	311.1	20.0	255.2	19.8
South West		6.9	8.4	2.1	3.2	155.8	10.0	135.8	10.6
West Midlands		9.8	12.1	15.6	23.9	220.6	14.2	187.8	14.6
North West		8.2	10.1	6.6	10.1	148.1	9.5	125.1	9.7
England		67.9	83.7	50.5	77.3	1,298.4	83.5	1,089.0	84.6
Wales		1.7	2.1	0.8	1.2	27.6	1.8	22.3	1.7
Scotland	\$.504	10.2	12.6	12.4	19.0	195.0	12.5	150.0	11.7
Great Britain		79.8	98.4	63.7	97.5	1,520.9	97.9	1,261.3	98.0
Northern Ireland	1000	1.3	1.6	1.6	2.5	33.1	2.1	26.1	2.0
United Kingdom	eronus elas 9.8	81.2	100.0	65.4	100.0	1,554.1	100.0	1,287.4	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.
- (c) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost was treated similarly.

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TABLE 9

PA325

Output and costs, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

	Unit	3251	3254	3255
Enterprises(a)	Number	167	330	1,277
Establishments		181	344	1,381
Sales of goods produced	£ million	761.6	1,031.9	1,209.7
Work done and industrial services rendered		9.0	30.3	240.0
Capital goods produced for establishments' own use		0.6	2.5	1.4
Non-industrial services rendered		0.9	23.0	18.3
Goods merchanted or factored		54.5	190.0	148.0
Total sales and work done		826.5	1,277.7	1,617.3
Increase during the year, work in progress and goods on hand for sale		5.9	-6.7	10.8
Gross output		832.4	1,271.0	1,628.1
Purchases of materials for use in production, packaging and fuel		415.8	696.3	694.6
Purchases of goods for merchanting or factoring		38.6	112.1	113.1
Increase during the year, stocks of materials, stores and fuel		3.1	3.6	8.2
Cost of industrial services received		40.3	26.9	54.6
Net output		340.8	439.2	774.0
Total employment	Thousand	17.8	19.5	43.9
Net output per head	£	19,182	22,549	17,625
Cost of non-industrial services received				
Hire of vehicles, plant and machinery	£ million	3.7	6.9	13.6
Rents of industrial and commercial buildings		1.9	4.0	8.4
Commercial insurance premiums		3.6	5.5	9.8
Bank charges		0.4	1.3	1.5
Other non-industrial services		32.2	63.3	80.4
Licensing of motor vehicles		0.2	0.3	0.8
Rates, excluding water rates		5.2	9.6	14.1
Gross value added at factor cost		293.5	348.3	645.6
Gross value added at factor cost per head	£	16,519	17,880	14,701

<sup>(</sup>a) The count of enterprises shown in each column represents the number of enterprises owning the establishments shown for each activity heading. Because an enterprise may own establishments in more than one activity heading, the sum of the enterprise counts may exceed the total for the industry.

Capital expenditure, 1986
All United Kingdom establishments classified to each Activity Heading within the industry

		3251	3254	3255	
Land and buildings					
New building work		0.7	3.7	0.9	
Land and existing buil	dings				
Acquisitions		0.4	0.5	2.0	
Disposals		0.5	3.8	3.2	
Net		0.6	0.4	-0.2	
lant and machinery					
Acquisitions		12.9	28.1	22.0	
Disposals		0.6	4.0	2.4	
Net		12.3	24.0	19.7	
ehicles					
Acquisitions		2.8	7.7	7.9	
Disposals		1.3	6.3	2.1	
Net		1.5	1.4	5.8	
Total net capital exp	enditure	14.4	25.8	25.2	

TABLE 10

Stocks and work in progress, 1986 All United Kingdom establishments classified to each Activity Heading within the industry

The Management of the same time and	core data (La 1921			£ million
Moulton format. This int	3251	3254	3255	and the same
10a Increase during year	igures).			
Materials, stores and fuel	3.1	3.6	8.2	
Work in progress	1.8	-11.4	8.5	
Goods on hand for sale	4.2	4.7	2.3	
Total	9.0	-3.2	19.0	
	Card	III Road		
10b Value at end of year				
Materials, stores and fuel	49.9	135.9	123.2	
Vork in progress	74.2	73.6	302.5	
Goods on hand for sale	38.2	149.7	60.6	
Total	162.4	359.2	486.3	

Operating ratios, 1986

All United Kingdom establishments classified to each Activity Heading within the industry

	Unit	3251	3254	3255
	the self-			
Gross output per head	£ .	46,850	65,248	37,073
Net output per head	£	19,182	22,549	17,625
Gross value added per head	£	16,519	17,880	14,701
Gross value added as a percentage of				
gross output	%	35	27	40
Ratio of gross output to stocks		5.1	3.5	3.3
Wages and salaries as a percentage of gross value added	%	60	57	64
gross value added			3,	10.0
Ratio of operatives to administrative, technical and clerical employees		1.5	1.6	1.5
Wages and salaries per operative	£	9,054	9,484	8,960
Wages and salaries per administrative,				
technical and clerical employee	£	11,229	11,430	10,281
Net capital expenditure per head	£	808	1,322	575
Not conital expanditure as a paraentage				
Net capital expenditure as a percentage of gross value added	%	5	7	4

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