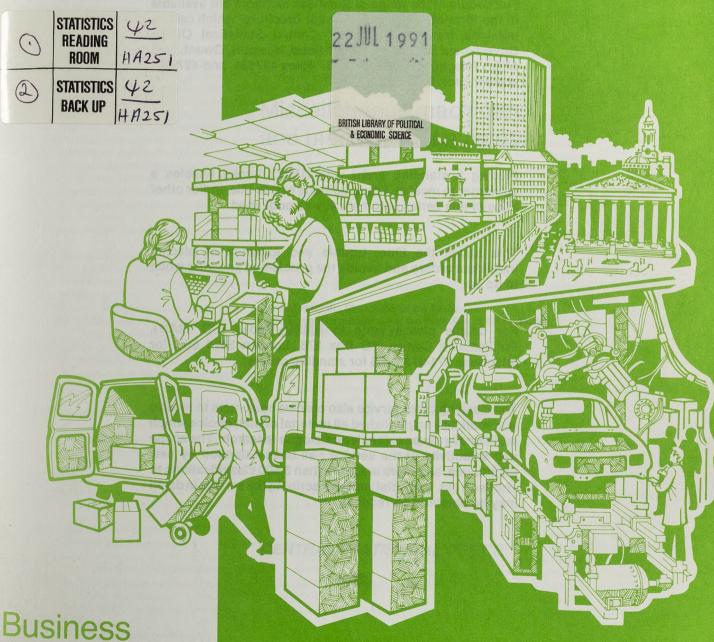
Central Statistical Office

PA328

1989

Business Monitor Report on the Census of Production

Miscellaneous machinery and mechanical equipment



Business Statistics Office

A publication of the Government Statistical Service



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BUSINESS MONITOR

A publication of the Government Statistical Service

Report on the Census of Production 1989

Miscellaneous machinery and mechanical equipment

Presented by the Chancellor of the Exchequer to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

CENTRAL STATISTICAL OFFICE

London: Her Majesty's Stationery Office

BUSINESS MONITORS MAKING UP THE COMPLETE CENSUS REPORT

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PA328 MISCELLANEOUS MACHINERY AND MECHANICAL EQUIPMENTPA328

The information in this report relates to businesses classified to the Miscellaneous machinery and mechanical equipment industry, Group 328 in the Standard Industrial Classification Revised 1980. The Industry Group covers the following Activity Headings:-

3281 Internal combustion engines (except for road vehicles, wheeled tractors primarily for agricultural purposes and aircraft) and other prime movers

1. Industrial internal combustion engines

Manufacture of internal combustion reciprocating engines other than for road vehicles, wheeled tractors primarily for agricultural purposes, ships and aircraft. Included are stationary engines for machinery and generators, and engines for mobile equipment such as pumps, com pressors, agricultural machinery, construction, earthmoving and mechanical handling equipment, and for rail traction engines.

2. Marine engines

Manufacture of internal combustion engines and steam and gas turbines for propulsion and other marine uses, including freshwater vessels.

3. Other prime movers

Manufacture of steam and gas turbines and other prime movers for all applications except for road vehicles, ships, aircraft and electricity generation.

3283 Compressors and fluid power equipment

1. Compressors

Manufacture of air and gas compressors and exhausters other than compressors for commercial refrigeration machinery.

2. Oil hydraulic equipment

Manufacture of equipment for operating machinery by hydraulic means including actuators, control valves, hydraulic pumps and motors.

3. Pneumatic control equipment

Manufacture of equipment for operating machinery by pneumatic means including actuators and control valves.

3284 Refrigerating machinery, space heating, ventilating and air conditioning equipment

1. Refrigerating machinery

Manufacture of refrigerating machinery, commercial refrigerators and commercial refrigerating equipment including deep freeze and quick freeze machinery but excluding domestic type refrigerators and deep freeze units which are classified to Group 346.

2. Space heating equipment

Manufacture of warm air generators, central heating boilers, heat emitters and other water, steam and radiant heating equipment but excluding domestic type gas heaters and domestic type electric heaters which are classified to Groups 316 and 346 respectively.

3. Fans and other ventilating equipment

Manufacture of fans, ventilators and ventilating units including hoods, cowls and ducting. Fans for industrial purposes are included. Domestic type electric fans are classified to Group 346.

4. Air conditioning equipment

Manufacture of air conditioning and dust extraction systems including major components thereof. Air treatment and distribution equipment is included.

5. Burners

Manufacture of domestic and industrial oil fuel and other burners.

3285 Scales, weighing machinery and portable power tools

1. Scales and weighing machinery

Manufacture of scales, spring balances and other weighing machines other than analytical and other precision balances which are classified to Group 371.

2. Portable power tools

Manufacture of portable power tools including those used in civil engineering, mining and quarrying. Flexible shaft drive tools are included.

3286 Other industrial and commercial machinery

1. Industrial and commercial machinery and service equipment

Manufacture of non-electronic testing machines and equipment, coin or token operated automatic slot machines, garage equipment, fire-fighting equipment, hand, power and tractor operated mowers for lawns, parks and sports grounds. Electronic testing equipment is classified to Group 344 and measuring, checking and precision testing instruments and apparatus to Group 371. Hand held fire extin guishers are classified to Group 316 and agricultural mowers to Group 321.

2. Machinery for foundries and rolling mills

Manufacture of founding and die-casting equipment and metallurgical rolling mills.

3. Manufacture of other machinery and mechanical equipment not elsewhere specified

3287 Pumps

Manufacture of centrifugal reciprocating, rotary and other pumps for liquids including hand metering and petrol station pumps and excluding pumps for internal combustion engines, which are classified according to the type of engine.

3288 Industrial valves

Manufacture of industrial type valves, taps and cocks. Valves for internal combustion engines are excluded and classified according to the type of engine.

3289 Mechanical, marine and precision engineering not elsewhere specified

1. Marine engineering

Manufacture of auxiliary marine machinery (other than engines and turbines), diving and underwater engineering equipment not elsewhere specified.

2. Precision components for engines and machinery not elsewhere specified

Manufacture of precision components common to wide ranges of engines and machinery eg pistons, gaskets, lubricators.

Mechanical engineering working not elsewhere specified

Manufacture of gas welding and cutting machines and torches. Electric welding equipment is classified to Group 343. Establishments manufacturing mechanical engineering products (including machinery parts) not elsewhere specified, or of such a mixed character that they cannot be placed elsewhere in Class 32.

For a full description of the 1980 classification see Standard Industry Classification Revised 1980, obtainable from Her majesty's Stationery Office, price £4.25.

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 INTRODUCTION

- 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 (PA 1001).
- 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 £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 smallest unit which could provide the full range of data required for an economic census. Establishments were asked, where possible, to exclude from their 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 are asked to make separate returns to the census for each of their production activities on an establishment basis. Throughout this monitor this mixture of reporting units are referred to as "businesses". These businesses are no longer asked to 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 main economic series has resulted from the change.
- 6. 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 address.

THE REGISTER

- 7. A register of businesses throughout the United Kingdom is held on the BSO computer and provides the basis for BSO inquiries. For each business the register contains identification particulars and information about its eligibility 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. Regional and size analyses of manufacturing units are published in Business Monitor PA1003 Size analyses of United Kingdom businesses. During 1984, for production inquiries, the BSO moved to an updated register which makes fuller use of information obtained from HM Customs and Excise VAT records.
- 8. The Annual Census and other BSO inquiries provide a major source of information for checking the register and updating employment data. Where businesses do not make returns to these inquiries, estimates of employment are imputed from VAT 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 Sales Inquiry, industrial classification is reviewed annually and is derived from an analysis of their commodity sales. For other businesses the classification is obtained either from VAT sources or from the register proving forms. Estimates of employment made by the BSO and the Department of Employment differ because they are derived from two 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, electricity and water supply industries (Divisions 1 to 5 of SIC(80)). Businesses in the Channel Islands and the Isle of Man are excluded
- 10. Under the sampling arrangements agreed for the 1989 Census, forms were despatched to all establishments with 20 or more employed except for those in the 20 to 49 employment size band located in England where, in general a sample of 1 in 2 was taken. For industries where there were few units in the sample sizeband or where response in earlier years was poor, it was necessary to increase the sample. About 23,300 forms were despatched in the United Kingdom for the 1989 Census.

PERIODCOVERED

11. Businesses were asked to make returns for the calendar year 1989 but, where this was not possible, returns for business years ending between 6 April 1989 and 5 April 1990 were accepted. Returns covering fewer than twelve months were accepted for businesses which had started or ceased trading during the year.

ESTIMATION

- 12. All published Census results include estimates for non-responders, unsatisfactory returns and businesses not selected for the Census. Estimates are also made for items not covered in the 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 returns value for each variable by the total returned employment. This value is multiplied by the employment thought to exist in each non-responding or non-selected business to yield an estimated value for that business. Estimates for items not collected on the shorter form are made in a similar way using 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 a percentage in footnote (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, in general, be better than that in an Industry Report where the coverage is only 70 per cent.
- 15. 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 expenditure where the relationship to employment is not so clearly marked.

SUPPRESSION OF INFORMATION RELATING TO INDIVIDUAL UNDERTAKINGS

- 16. Sub-section 9(5)(b) of the Statistics of Trade Act 1947 states that:
- "The following provisions shall have effect with respect to any $\ r \ e \ p \ o \ r \ t$, 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 onthat 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 deducted from the total disclosed."

Table 11 Operating ratios by activity heading, 1989

17. 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 1989

18. The 1989 Census was a benchmark one with a larger number of businesses receiving inquiry forms than had been the case with the previous 4 Censuses. Additional questions, for larger businesses only, asked for information on road transport costs and postal and telecommunications costs. The questions relating to computer costs included in the 1988 Census, were discontinued, but those relating to the cost of assets leased under the finance leasing arrangements were retained.

SYMBOLS USED

- 19. The following symbols are used throughout the PA series of Business Monitors:
 - .. not available
 - nil or less than half the final digit shown
 - * information suppressed to avoid disclosure
 - R revised

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 always agree exactly with the total shown.

EXPLANATION OF TERMS USED IN THE CENSUS REPORT

21. 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

22. This represents the value charged to capital account together with any other amounts which ranked as capital items for taxation purposes during the 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 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 had not started before the end of the year and the value of CAPITAL GOODS PRODUCED FOR USE WITHIN THE BUSINESS by its own staff are included. The value of any assets acquired in taking over an existing business is excluded. The figures include non-deductible VAT but exclude deductible VAT. No allowance is made for depreciation, amortisation or obsolescence.

a. on LAND AND EXISTING BUILDINGS

23. 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 fees. The figures for disposals are net of any such professional fees payable.

b. on NEWBUILDING WORK

24. 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.

c. on PLANT AND MACHINERY, VEHICLES

25. 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 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 the returns.

COST OF INDUSTRIAL SERVICES RECEIVED

27. This includes amounts payable to other organisations 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. Direct payments to outworkers and amounts charged to capital 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 leasing basis. From 1988 they were asked to include the total value of such assets as capital expenditure during the year in which they were acquired. The cost of non-industrial services received 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 and on materials and fuel imported are excluded.

EMPLOYERS' NATIONAL INSURANCE CONTRIBUTIONS ETC.

29. 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

30. 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 (ie people who worked in their own homes on materials 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 number of employees on the payroll for the last week of each calendar month.

a. ADMINISTRATIVE, TECHNICAL AND CLERICAL EMPLOYEES

31. 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 except operatives.

b. OPERATIVES

32. 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 canteen are included.

c. WORKING PROPRIETORS

33. 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 commission. Part-time Directors paid by fee only and directors who received a definite wage, salary or commission are excluded.

ENTERPRISE

34. This is defined as one or more businesses under common owner-ship or control

GROSS OUTPUT

35. This is calculated by adjusting the value of TOTAL SALES AND WORK DONE by the changes during the year of WORK IN PROGRESS and GOODS ON HAND FOR SALE.

GROSS VALUE ADDED AT FACTOR COST

36. This is calculated by deducting from NET OUTPUT the COST OF NON-INDUSTRIAL SERVICES RECEIVED, RATES and the cost of LICENSING OF MOTOR VEHICLES. This 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

37. This is calculated by dividing GROSS VALUE ADDED AT FACTOR COST by total EMPLOYMENT.

NET CAPITAL EXPENDITURE

38. 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.

NET OUTPUT

39. This is 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

40. This is calculated by dividing NET OUTPUT by total EMPLOY-MENT.

NON-INDUSTRIAL SERVICES RENDERED

41. 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

42. These ratios are calculated using industry totals, ie including the estimates for businesses 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

43. These include the cost of raw materials, components, semi-manufactured 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 business or given out to others, for the production of machinery or other capital items used in the business, and materials used 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 the business's 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 from other departments of the business not covered by the return are included at the estimated selling value recorded by the other departments.

REMUNERATION PAID TO OUTWORKERS

44. This represents amounts paid to outworkers, ie people who do work in their own homes generally on a piece-work basis, whose names appear on the payroll. Amounts paid to outworkers by subcontractors are included in the COST OF INDUSTRIAL SERVICES RECEIVED. Estimates are not made for remuneration of outworkers for businesses not completing Census returns.

SALES OF GOODS PRODUCED

45. This represents sales of goods during the year, whether or not they were produced in the year of the return. It also includes sales of goods made from materials given out to other firms or to outworkers and sales of waste products and residues. The value of sales is the 'net selling value', ie the amount charged to customers whether values 'ex-works'or 'delivered' less VAT, trade discounts, agents' commissions etc and allowances on returned goods. Where products attract Excise duty, the value includes duty if the goods are sold 'duty-paid', but excludes it if they 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 a business to departments not covered by the return (including 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 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 to 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

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 repairs and maintenance, 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, 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

49. 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.

Output and costs, 1985-1989
All United Kingdom businesses classified to the industry (a)

galles betaut as est in behaldet ere munic	Unit	1985	1986	1987	1988	1989
Enterprises	Number	8, 434	8,756	8,878	9,278	9,813
Businesses	ii ii	8,865	9, 172	9, 215	9,611	10, 141
Sales of goods produced	£ million	6, 460.5	6, 445.2	6,645.2	7,598.9	8,542.6
Work done and industrial services	raci elamanana autar II. cas O gr	489.6	568.5	594.9	723.2	887.9
Capital goods produced for use within he business	rapen scope seles contro	7.2	7.5	5.9	5.1	6.6
Non-industrial services rendered	o voew, acti ni čes s nevig zdohena:	43.4	58.1	41.4	29.9	49.7
Goods merchanted or factored	steam (arma sebase)	620.8	620.0	643.4	749.6	880.9
Total sales and work done	shind", TAV sax	7,621.5	7,699.2	7,930.8	9,106.6	10,367.7
ncrease during the year, work in progress and goods on hand for sale	estation in the second	-22.9	-176.0	55.3	126.1	239.0
Gross output	io, atrinosudoreto	7,598.5	7,523.2	7,986.1	9,232.8	10,606.7
Purchases of materials for use in production, packaging and fuel	emembergeb p roap!lassunch #	3,128.6	3,053.4	3,221.6	3,767.8	4,213.0
Purchases of goods for merchanting or actoring	e se elle di seprepi	450.8	440.8	448.5	528.4	621.4
ncrease during the year, stocks of materials, stores and fuel	or arti, stresserve, act re-powerform accommodate to second	49.0	3.2	23.4	36.1	40.9
Cost of industrial services eceived	of but paper that	218.6	226.8	220.6	259.1	308.8
Net output	13/1 - 10 - 0	3,849.6	3,805.5	4,118.9	4,713.4	5,504.4
Total employment	Thousand	217.0	210.3	201.5	209.5	215.8
Net output per head	£	17,740	18,093	20,443	22,501	25,509
Cost of non-industrial services eceived						
Hire of vehicles, plant and machinery	£ million	53.0	62.1	58.8	61.1	62.3
Rents of industrial and commercial buildings	TEUCHI CVA B	43.3	45.5	46.7	49.4	52.5
Commercial insurance premiums	no ergifossinoo liiti ni liiti ka Romanii	36.9	44.5	47.2	53.6	53.6
Bank charges	Many Office and St.	5.9	6.7	7.2	7.5	8.6
Other non-industrial services	et piett a state des	458.9	443.2	468.1	534.6	608.7
icensing of motor vehicles	tecepagage out vis., for deexlog	2.7	2.8	2.5	2.5	2.7
Rates, excluding water rates	iony workups by	67.8	73.7	75.9	81.4	, 89.0
Gross value added at factor cost	und lag Carta d'Artago	3,181.1	3,127.0	3,412.6	3,923.2	4,627.0
Gross value added at factor cost per head	£	14,660	14,867	16,937	18,728	21,443

⁽a) Satisfactory returns accounted for 70 per cent of employment within the industry in 1989.

Capital expenditure, 1985-1989 (a) All United Kingdom businesses classified to the industry

TABLE 2

								£ million
otakantes	Gross	d saladins (c)	1985	1986	1987	1988	1989	uBetal stocks of
Land and building				fecto	onst		(d) (d)	
New building we	ork		30.6	28.6	18.9	18.7	37.8	
Land and existing	ng building	s						
Acquisitions			19.5	13.7	15.5	29.2	27.8	
Disposals			26.1	14.1	23.8	25.3	42.3	
Net			24.0	28.2	10.6	22.5	23.3	
Plant and machin	ery							
Acquisitions			242.0	229.1	221.2	279.0	318.6	
Disposals			20.5	18.8	13.3	16.7	24.8	
Net			221.5	210.3	207.9	262.2	293.8	
Vehicles								
Acquisitions			36.1	36.4	42.0	52.0	59.3	
Disposals			11.6	13.4	16.1	16.0	20.3	
Net			24.5	23.0	25.8	36.0	39.1	
Total net capi	tal expend	liture	269.9	261.4	244.3	320.7	356.2	
ced er n	2200 1	CCE Prop of	0 75 50					

⁽a) From 1988 contributors were asked to include as capital expenditure the value of assets acquired under finance leasing arrangements. The total value of these assets is estimated to be £41.2 million for 1988 and £41.2 million for 1989.

TABLE 3

Stocks and work in progress, 1985-1989
All United Kingdom businesses classified to the industry

						£ million
	1985	1986	1987	1988	1989	Value at end of 1989
		In	crease during y	/ear		
Materials,stores and fuel	49.0	3.2	23.4	36.1	40.9	672.6
Work in progress	-26.4	-175.9	49.7	87.0	176.8	1,142.0
Goods on hand for sale	3.4	-0.1	5.6	39.2	62.2	564.7
Total .noituso dit	26.0	-172.8	78.7	162.2	279.9	2,379.3

⁽b) Includes the cost of transport of goods by road (within the UK) of £77.4 million and postal and telecommunication costs of £55.9 million. These were collected separately for 1989 but not for the other years shown in the table.

TABLE 4

Employment, labour costs, output, net capital expenditure and stocks and work in progress by size of total employment, 1989

All United Kingdom businesses classified to the industry (a)

Size group	Busin- esses	Enter- prises	Employme	nt	3981	Wages and	salaries (c)		
		(b)							
			T.82	O	Administr	Operatives		Administra	tivo
			Total including	Opera- tives	Administr- ative,tech-	Operatives		technical a	
			working proprietors	3.88 ₄₈₉ ,8	nical and clerical	a.or _{some}		clerical	Acquisişişien
						Total	per head	Total	per head
			T1 1	43 4 Thursday	Thousand	£ million	- f	£ million	£
	Number	Number	Thousand	Thousand	Inousand	1 million	L		Acquisitions
1-9	7,562	7,512	21.4)						
10-19	954	950	13.6	1050.0	24.7	004.4	10 545	240 1	12 772
20-49	896	884	29.7)	59.2	24.7	624.4	10,545	340.1	13,773
50-99	337	323	23.6)						
100-199	183	166	25.2	16.0	9.2	166.4	10,408	122.1	13, 292
200-299	80	75	19.4	12.0	7.4	125.0	10,445	98.6	13,324
300-399	42	38	14.2	8.1	6.1	86.3	10,659	82.9	13,600
400-499	24	22	10.6	5.9	4.7	67.8	11,432	65.0	13,932
500-749	36	30	21.0	12.9	8.1	142.1	10,990	113.5	13,977
750-999	12	10	10.3	5.7	4.7	63.3	11, 164	61.3	13, 141
1,000-1,499	7	7	8.2	4.8	3.4	62.0	13,016	49.0	14,308
1,500-1,999	4	4	7.2	3.7	3.5	43.4	11,744	49.3	14, 269
2,000-Plus	4	4	11.4	7.1	4.4	69.3	9,823	66.1	15,095

Total	10,141	9,813	215.8	135.3	76.1	1,449.9	10,716	1,047.7	13,773

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

121	roentage of tor	Par					
Total sales and work done	Gross output	Net output	nent	Gross value added at factor cost	Net out (c)	Net capital expenditure (d)	Total stocks and work in progress at end of year
		Total	per head	Total 6.8	per head		
£ million	£ million	£ million	£	£ million	£	£ million	£ million
3,593.7	3,631.0	1,933.1	21,894	(e)	(e)	167.8	529.6
1,162.5	1,180.7	622.5	24,716	2,144.7(e)	18,896(e)	47.9	226.7

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3,593.7	3,631.0	1,933.1	21,894	(e)	(e)	167.8	529.6	
1,162.5	1,180.7	622.5	24,716	2,144.7(e)	18,896(e)	47.9	226.7	
948.4	963.9	482.3	24,894	394.8	20,377	33.5	199.7	
801.1	816.8	396.9	27,984	326.2	23,000	18.8	157.3	
528.6	538.1	283.6	26,776	237.0	22,371	14.6	127.8	
1,061.0	1,082.4	556.1	26,423	469.2	22,292	43.9	283.6	
502.1	511.5	261.6	25,319	224.8	21,763	7.5	127.6	
437.7	520.8	240.4	29,355	210.6	25,715	15.5	412.8	
409.2	435.4	213.5	29,832	188.4	26,329	-5.6	193.2	
923.5	926.2	514.5	44,997	431.4	37,730	12.2	120.9	

10,367.7	10,606.7	5,504.4	25,509	4,627.0	21,443	356.2	2,379.3	
				O TENNETHE BY THE RESE		THE LANGE WAS DESIGNATED BY	=,0.0.0	

⁽b) The count of enterprises shown in each row represents the number of enterprises, irrespective of size, owning the businesses shown in each size group. Because an enterprise may own businesses in more than one size group, the sum of individual enterprise 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 costs of canteens are excluded from the table but were estimated for the industry at £319.9 million. The remuneration of outworkers on returns received - also excluded from the table - was £580 thousand.

⁽d) Net capital expenditure includes the assets acquired under finance leasing arrangements-see table 2.

⁽e) Gross value added data relate to businesses employing 1-199.

TABLE 7

Percentage analysis of twelve-month periods covered by returns received for the 1989 Census by number of returns and total employment

Accounting	year ended	CANDA DAD SAN	Perc	entage of to	tal returns		entage of tota	1
tooks es	a hard-dawn for		rece			emp	loyment	
1989	April 6-30	(b) (b)		3.7	on t	104300	2.0	lone lone
	May			2.2			1.2	
	June			3.8			3.0	
	July			2.6			2.4	
	August			2.6			1.0	
	September			8.3			7.4	
	October			4.2			3.0	
	November			3.0			2.2	
	December			40.8			47.5	
1990	January			3.4			5.7	
	February			2.4			1.2	
	1 March - 5 A	pril		22.9			23.3	

TABLE 6

Operating ratios, 1985-1989

All United Kingdom businesses classified to the industry

	I I m i A	1005	1986	1987	1988	1989
	Unit	1985	1986	1987	1988	1989
Gross output per head	£	35,017	35,769	39,635	44, 075	49, 155
Net output per head	£	17,740	18,093	20,443	22,501	25,509
Gross value added per head	£	14,660	14,867	16,937	18,728	21,443
Gross value added as a percentage of pross output	%	42	42	43	43	44
Ratio of gross output to stocks		3.5	3.9	4.1	4.4	4.5
Vages and salaries as a percentage of process value added	%	58	62	58	57	54
atio of operatives to administrative, echnical and clerical employees		1.6	1.7	1.6	1.7	1.8
Vages and salaries per operative	£	7,944	8,509	9,091	9,976	10,716
Vages and salaries per administrative, echnical and clerical employee	£	9,764	10,685	11, 412	12,475	13,773
Net capital expenditure per head (a)	£	1,244	1,243	1,212	1,531	1,651
let capital expenditure as a percentage f gross value added (a)	%	9	8	7	8	8

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

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1989 All United Kingdom businesses classified to the industry

0.032.84	2283	286	1825	3267	TINU	22	0.0		3232
Area		Total employme	nt	Net cap expendi		Net out	out	Gross v added a	
		(a)	289	(p)	luie	(c)		factor c	
468 84	315	440	300	203	0.00	2		(c)	
1488961	15110.3	Thousand	per cent	f million	per cent	£ million	per cent	£	per cent
			United Kingdom	53.3	United Kingdom		United Kingdom		United Kingdom
Standard regions of England	0.66								
North		10.9	5.0	30.7	8.6	332.1	6.0	254.9	5.5
Yorkshire and Humberside		20.6	9.6	35.1	9.8	496.4	9.0	412.4	8.9
East Midlands		18.3	8.5	34.1	9.6	438.4	8.0	361.7	7.8
East Anglia		13.4	6.2	6.6	1.9	490.9	8.9	442.7	9.6
South East		53.9	25.0	103.0	28.9	1,383.6	25.1	1, 151.9	24.9
South West		20.3	9.4	14.8	4.1	482.2	8.8	411.2	8.9
West Midlands		33.2	15.4	49.3	13.9	782.3	14.2	660.5	14.3
North West		22.9	10.6	38.6	10.8	575.0	10.4	491.5	10.6
England	0.97	193.5	89.7	312.2	87.7	4,980.8	90.5	4, 186.8	90.5
Wales		5.7	2.6	11.7	3.3	127.3	2.3	102.1	2.2
Scotland	e.878540	14.4	6.7	26.7	7.5	341.1	6.2	290.4	6.3
Great Britain		213.5	98.9	350.7	98.5	5,449.2	99.0	4,579.3	99.0
Northern Ireland		2.3	1.1	5.5	1.5	55.2	1.0	47.7	1.0
United Kingdom	1,8 31	215.8	100.0	356.2	100.0	5,504.4	100.0	4,627.0	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.

⁽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.

TABLE 8

Output and costs, 1989
All United Kingdom businesses classified to each Activity Heading within the industry

		Unit	3281		3283	3284
		Number	200	fotal smolayment	207	042
Enterprises(a)		Number	289		387	943
Businesses			300		415	994
Sales of goods produced		£ million	1, 154.8		1,110.3	1,688.1
Work done and industrial services rendered		United Kingdom	77.0		42.1	160.9
Capital goods produced for use within the business	1	ñ 3	0.8		0.6	no. I regions of English
Non-industrial services rendered		9.8	5.3		6.3	7.0
Goods merchanted or factored		0	94.8		169.8	137.8
Total sales and work done		10.8	1,332.7		1,329.2	1,994.8
Increase during the year, work in						
progress and goods on hand for sale		0	26.0		10.7	28.2
Gross output		0 .6 28.8	1,358.7		1,339.9	2,023.0
Purchases of materials for use in production, packaging and fuel	482.2	22.8 10.8	563.3		510.1	885.8
Purchases of goods for merchanting of	r 287	8.61	87.0			West Midlands
factoring		8.07	59.0		127.9	100.2
ncrease during the year, stocks of materials, stores and fuel		II .	-9.8		16.0	1.4
Cost of industrial services						
received		3.3"	28.8		38.9	55.7
Net output		"a.¢	697.8		678.9	982.7
Total employment		Thousand	20.4		25.2	38.9
Net output per head		£	34,262		26,924	25,278
Cost of non-industrial services received						
Hire of vehicles, plant and machinery		£ million	2.0		0.1	1989
		I million	3.9		9.1	12.9
Rents of industrial and commercial buildings		II.	2.6		6.9	14.0
Commercial insurance premiums		lome amir-in	5.5		5.7	9.2
		itivi buildi e leasing arr	161 10 21 20		1.1	1.4
Other non-industrial services			41.6		79.2	98.8
icensing of motor vehicles		tionate 20 er	0.2		0.2	0.6
Rates, excluding water rates		n **	9.2		10.8	15.5
Gross value added at factor cost			634.2		565.9	830.2
Gross value added at factor cost			1,7		555.5	300.2

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

3285	3286	3287	3287	3288	3289
84	402		272	212	7,344
94	440		283	222	7,393
401.6	919.9		670.9	576.7	2,020.0
64.4	64.1		53.3	27.9	398.2 A
0.1	0.5		0.1	0.4	3.2
1.9	2.0		2.3	0.8	24.1
96.4	94.5		91.2	82.2	114.2
564.3	1,081.0		817.8	688.1	2,559.8
					Disposels
6.1	105.0		15.3	16.4	31.3
570.4	1,186.0		833.1	704.5	2,591.1
186.6	555.2		323.5	258.2	930.3
56.5	63.8		70.0	58.7	85.4
8. 20 2	5.5		6.9	5.0	re latigas de 15.8 T
7.9	32.1		15.0	32.4	97.9 dixtnoo 8881 mov3 (a)
319.4	540.4		431.4	360.3	1,493.4
10.5	19.9		16.2	15.0	69.7
30,329	27,105		26,596	24,096	21,432
2.7	10.2		7.8	4.3	11.4
3.0	5.2		4.2	3.7	12.9
2.3	5.3		3.9	4.0	17.7
0.5	0.9		0.8	0.7	2.6
74.4	87.7		53.2	41.6	132.3
0.3	0.3		0.3	0.2	0.6
4.2					
	8.3		7.0	6.5	27.5
232.1	422.6		354.2	299.4	1,288.5
22,035	21,196		21,833	20,022	18,492

PA328

TABLE 9

Capital expenditure, 1989 (a)
All United Kingdom businesses classified to each Activity Heading within the industry

3283	3288	3281	3283	3284
and and buildings		272 resident		
New building work		2.6	5.9	8.1
Land and existing buildings				
Acquisitions		2.2	3.4	4.8
Disposals		21.6	1.1	8.8
Net		-16.8	8.2	4.2
Plant and machinery		91,2	N 801 94.6	ALERA S
Acquisitions		28.2	42.1	42.1
Disposals		8.5	1.2	2.4
Net		19.7	40.9	39.7
/ehicles				
Acquisitions		2.4	5.4	12.8
Disposals		0.7	1.5	4.2
Net		1.7	3.9	8.6
Total net capital expenditu	ıre	4.5	53.1	52.5

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

TABLE 10

Stocks and work in progress, 1989 All United Kingdom businesses classified to each Activity Heading within the industry

buildiscu	3.7	3281	3283	3284
10a Increase during year		8.8 3.9	8.3	6.58.2
Materials, stores and fuel		-9.8	16.0	1.4
Work in progress		26.0	3.0	16.1
Goods on hand for sale		0.1	7.7	12.0
Total		16.2	26.7	29.5
10b Value at end of year	20,022	£ £81,15 31,733	807,703	28,0782
Materials, stores and fuel		115.4	103.6	131.4
Work in progress		183.9	105.8	106.8
Goods on hand for sale		80.5	93.6	88.0
		379.8	303.1	326.2

£ million

3285	3286		3287	3288	3289
3285	3284	3283	3281	JinU	
0.5	880,53 3.1		1.6	3.5	12.5 band and sugsuo seaso
3.1	3.7		1.3	0.8	8.6
0.7	5.2		1.7	0.9	2.3 hope seems 2.3
2.9	1.5		1.2	3.4	18.8
17.0	30.5		21.0	19.1	seving of operatives to 4.6 118.6 institution
0.4	ASA.01 1.6		2.4	1.1	Vegos and salarios per 5. Trativa
16.6	28.9		18.7	18.0	Vages and salaries per 4.111 histrative, echnical and clerical amployee
3.4	7.1		4.3	2.2	egatnesses 21.8 erusibnesse latigas tel
1.2	2.5		1.8	0.6	7.7 (a) bebba selev esono le
2.2	4.6		2.4	1.6	(a) From 1988 contributors were asked to
21.6	34.9		22.3	23.0	priesel com 144.3 nu beniupas stasse

£ million					
3289 Deen leg tugtuo agore	3288	3287	81,355	3286	3285
15.8	5.0	6.9		5.5	02 -
a 21.6 or rugtuo agong to olim	10.0	10.0		86.6	3.5
lo apsinoo 19.7 es sainstas bos sepal/	6.4	5.3		18.4	2.6
gross value added 1.74 Ratio of operatives to al.77 Ratio of operatives to al.77 Ratio of operatives to al.77	21.4	22.2		110.5	6.1
Wages and salaries per operative	3	10,448	10,798	10,877	10,876
Wages and salaries per administrative. sechnical and clarical employee Not capital expenditure 1.15.1	51.8	62.5		788.E1 088.1 65.4	27.4
146.4	69.4 64.1	63.6 33.7		433.6 82.9	32.5 55.6
t beize ere 327.7	185.3	159.8		581.9	115.5

TABLE 11

PA328

Operating ratios, 1989

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

6070	0.03%	10000	1030		BUAL.	0.000
	Unit		3281	3283	3284	3285
Gross output per head			66,709	53, 134	52,038	54, 162
Net output per head	£		34, 262	26,924	25,278	30,329
Gross value added per head	£		31, 137	22,442	21,356	22,035
Gross value added as a percentage of gross output	%		47	42	41	41
Ratio of gross output to stocks			3.6	4.4	6.2	4.9
Wages and salaries as a percentage of gross value added	%		38	53	55	53
Ratio of operatives to administrative, technical and clerical employees			1.7	1.3	1.7	1.5
Wages and salaries per operative	£		10,476	11,083	10,424	10,356
Wages and salaries per administrative, technical and clerical employee	0.81 £		14, 292	13, 174	14,057	13,612
Net capital expenditure per head (a)	£		222	2,104	1,350	2,052
Net capital expenditure as a percentage of gross value added (a)	%		1,8	9	6	9

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

TABLE 11

Operating ratios, 1989

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

	Unit		3286	3287	3288	3289
		-			47 447	27 107
Gross output per head	88 £		59, 485	51,355	47, 117	37, 187
Net output per head	£		27, 105	26,596	24,096	21,432
Gross value added per head	£		21, 196	21,833	20,022	18, 492
Gross value added as a percentage of gross output	%		36	43	43	50
Ratio of gross output to stocks			2	5.2	3.8	3.27.9
Wages and salaries as a percentage of gross value added	%		56	56	60	59
Ratio of operatives to administrative, technical and clerical employees			1.2	1.1	1.5	3.1
Wages and salaries per operative	£		10,448	10,798	10,877	10,876
Wages and salaries per administrative, technical and clerical employee	£		13,830	13,699	13,597	13,793
Net capital expenditure per head (a)	8 £3		1,751	1,373	1,540	2,071
Net capital expenditure as a percentage of gross value added (a)	% *		83.7	6	8	a 198 1 a .88

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

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