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Business Statistics Office

Business Monitor

Report on the Census of Production

Engineers' small tools and gauges





publication of the Government Statistical Service

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

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PA390

A publication of the Government Statistical Service

Report on the **Census of Production** 1977

Engineers' small tools and gauges

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

Department of Industry Business Statistics Office





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PA390 ENGINEERS' SMALL TOOLS AND GAUGES

The information in this report relates to establishments classified to the Engineers' small tools and gauges industry, minimum list heading 390 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing engineers' small tools, tool holders and work holders of the types used with metal-working machine tools, and engineers' gauges (other than pressure and vacuum measuring instruments, and optical gauges).

			387,408	334,351						
			In interpre in mind the no	ting the data in the test and definition	he tables it is es ns which comm	sential ence o				
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able	Title									
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ex, 1977	

Output and costs, 1973–1977 All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	1,748	1,877	1,931	1,961	1,980
Establishments	"	1,855	1,979	2,020	2,048	2,079
Sales of goods produced	£ thousand	278,239	334,351	367,409	381,890	490,265
Receipts for work done and industrial ervices rendered	[m] aging no say	(b)	(b)	(b)	3,160	5,440
Capital goods produced for establish- nents' own use		526	234	195	540	785
Ion-industrial services rendered	"	970	953	942	1,017	1,057
Goods merchanted or factored	"	10,012	16,952	16,102	24,709	33,797
Total sales and work done (c)	"	289,747	352,491	384,648	411,317	531,344
ncrease during the year, work in rogress and goods on hand for sale	"	4,409	13,927	13,145	13,789	20,066
Gross output	"	294,155	366,418	397,793	425,105	551,411
urchases of materials for use in pro- uction, and packaging and fuel	"	81,471	104 ,7 70	110,655	116,463	162,048
urchases of goods for merchanting or ctoring	"	8,107	14,111	14,444	19,656	28,076
crease during the year, stocks of aterials, stores and fuel	"	4,194	8,134	814	5,182	7,938
ost of industrial services received	"	8,757	12,260	12,560	12,194	15,532
Net output	"	200,015	243,411	260,949	281,974	353,692
otal employment (d)	Thousands	67.6	68.9	65.4	60.5	62.0
Net output per head	£	2,958	3,535	3,989	4,658	5,705
yments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	1,714	2,002	2,047	727	839
Rents of industrial and commercial buildings	"	(e)	(e)	(e)	1,670	2,074
Commercial insurance premiums	"	1,661	2,005	2,258	2,523	3,078
Bank charges		257	428	600	485	515
Other non-industrial services	"	7,575	8,739	12,014	17,343	20,461
ensing of motor vehicles	"	102	113	145	170	193
tes, excluding water rates	"	2,763	3,191	3,920	4,408	5,140
Gross value added at factor cost		185,941	226,933	239,965	254,650	321,392
Gross value added at factor cost per head	£	2,750	3,296	3,668	4,207	5,184

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 65 per cent of employment within the industry.

(b) Included in sales of goods produced.

(c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ390.

(d) Average number employed, including full and part-time employees (see table 7) and working proprietors.

For 1973-1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and (e) machinery.

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TABLE 2

Capital expenditure, 1973–1977 All United Kingdom establishments classified to the industry (a)(b)

The second second	1973	1974	1975
Land and buildings			A STOLET
New building work	811	2,245	1,638
Land and existing buildings			
Acquisitions	729	493	654
Disposals	935	650	416
Vehicles			
Acquisitions	2,310	2,805	2,318
Disposals	843	907	808
Plant and machinery			
Acquisitions	12,180	15,287	15,632
Disposals	904	1,111	893
Total net capital expenditu	ıre 13,347	18,164	18,126

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

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

TABLE 3

tocks and work in progress, 1973-1977 Il United Kingdom establishments classified to the industry (a)

						£ thousand	
	1973	3 1974 1		1976	19	1977	
3,134 (4,19957,760 (4,1956)	145,003512	104.07	Increase	002,10	2,639 2 1,09	Value at end of year	
Materials, stores and fuel	4,194	8,134	814	5,182	7,938	39,496	
Work in progress	4,408	9,797	3,266	7,565	13,981	63,589	
Goods on hand for sale	1	4,130	9,879	6,224	6,085	51,249	
Total	8,603	22,061	13,960	18,971	28,004	154,334	

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

3

2

		£ thousand
1976	1977	NSR POLEDN POL
719	1,735	
431	2,006	
1,006	488	
2,948	5,045	
1,016	1,646	
13,970	20,301	
2,095	1,665	
13,951	25,288	

Analysis of establishments by size, 1977 All United Kingdom establishments classified to the industry (a)

4	3	9	0		

Size group (b)	Estab- lish- ments	Enter- prises (c)	ises			Wages and salaries (f)			
			Total	Opera-	Others (e)	Operatives		Others (e)	
			(d)	tives	(6)	Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1–10	1,094	1,086	5,324)						
11-19	386	383	5,515)				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		C risitavia
20-49	372	369) 11,556)	23,445	6,673	78,013	3,327	26,545	3,978
50-99	139	132	9,300)						
100-199	48	43	6,670	5,033	1,632	15,584	3,096	5,914	3,624
200–299	19	19	4,544	3,281	1,263	9,470	2,886	4,967	3,933
300-399	5	5	1,918	1,289	629	3,763	2,919	2,165	3,442
400-499	4	4	1,764	1,297	467	3,725	2,872	1,565	3,351
500-999	6	6	3,704	2,557	1,147	7,490	2,929	3,822	3,332
1,000 and over	6	6	11,704	8,110	3,594	23,016	2,838	12,782	3,556
							281.974		
							mogra clussifie		

Total	2,079	1,980	61,999	45,012	15,405	141,061	3,134	57,760	3,749
				and the second second			a la traine		

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. (a)

(b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in (c) more than one size group.

4

(d) Including working proprietors.

Administrative, technical and clerical employees. (e)

Total sales and work done (g)	Gross output	Net output			
		Total	per head	Total	
£ thousand	£ thousand	£ thousand	E par cent of based		
256,693	263,575	180,908	5,708	(j)	
54,123	55,863	37,144	5,569	197,678(j)	
45,975	48,265	31,793	6,997	29,493	
14, 432	14,971	10,374	5,409	9,480	
21,816	21,818	12,213	6,923	11,278	
34,936	36,985	18,733	5,058	16,419	
103,369	109,934	62,528	5,342	57,044	
				181.83	

The cost of employers' contributions to national insurance, pensions and welfare sch estimated for the industry at £25,574 thousand. The remuneration of outworkers of (f)

353,692

(g) Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

321,392

5,705

(h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(j) Gross value added data relate to establishments employing 1-199.

531,344

551,411

	Net capital expenditure (h)	Total stocks and work in progress at end of year
per head		
£	£ thousand	£ thousand
(j)	13,577	45,949
5,153(j)	2,685	13,819
6,490	2,654	14,030
4,943	605	6,610
6,393	1,680	4,658
4,433	916	15,166
4,874	3,171	54,103
a source a sugar		
5,184	25,288	154,334

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1977 All United Kingdom establishments classified to the industry (a)

Area	Total employment (b)		Net capital expenditure (c)		Net output (d)	Gross value added at factor cost (d)	Gross value factor cost r by establish 80 per cent of their emp in the regior	eturned ments with or more bloyment n as a
		took					proportion of gross value a factor cost i region	dded at
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage	<u></u>
Standard regions of								
England								
North	0.6	0.9	148	0.6	2,804	2,565	42.3	
Yorkshire and Humberside	13.5	21.8	4,071	16.1	69,430	62,425	64.0	
East Midlands	3.3	5.4	1,343	5.3	19,251	17,406	58.7	
East Anglia	0.3	0.4	93	0.4	1,364	1,228	8.7	
South East	14.9	24.0	6,455	25.5	88,458	80,607	46.2	
South West	3.8	6.2	1,520	6.0	21,655	19,665	48.4	
West Midlands	17.4	28.0	7,726	30.6	101,711	92,905	55.4	
North West	4.2	6.8	1,833	7.2	23,919	21,770	41.8	
		005	00.101		000 500	000 570		
England	58.0	93.5	23,191	91.7	328,592	298,572 /		
Wales	0.8	.1.3	391	1.6	4,533	4,102	31.5	
Scotland	3.0	4.9	1,575	6.2	19,716	17,950	72.5	
Great Britain	61.8	99.7	25,157	99.5	352,841	320,623 🦯		
Northern Ireland	0.2	0.3	131	0.5	852	769	83.2	
United Kingdom	62.0	100.0	25,288	100.0	353,692	321,392		

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons.

(b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(c) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(d) Where a census return covered addresses in two or more regions, an estimate 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 is treated similarly.

6

TABLE 6

PA390

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1977

Accounting year ended		Percentage of total returns received		
	1408,6	per cent	and the second se	
1977	April (a)	2.3		
	May	3.3		
	June	6.4		
	July	5.4		
	August	3.8		
	September	6.9		
	October	4.6		
	November	2.0		
	December	41.1		
1978	January	2.0		
	February	2.8		
	March (b)	19.4		

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1978.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

Sex	Full-time	Part-time
	per cent	per cent
Male	79	1
Female	14	6

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1976, because 1977 information is not yet available.

in Wales by Har Majenty's Stationery I Reprographic Unit, Cardiff Da. 597322 K6 Cdr 251 1/80

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and the second second second	and the second statement of the second s			
Percentage of total number employed				
per cent	BEAT BO MUND SOLO			
1.2				
2.4				
3.6				
3.0				
1.3				
3.3				
0.0				
6.9				
1.3				
49.4				
4.1				
1.3				
1.3				
22.3				

All employees				
per cent				
80				
20				

Source: Department of Employment

Operating ratios, 1977

All United Kingdom establishments classified to the industry (a)

		Unit	1977
Gross output per head		£	8,894
let output per head		£	5,705
ross value added per head		£	5,184
		%	58
cross value added as a percentage of gross output		70	50
latio of gross output to stocks			3.6
(hed	%	62
Vages and salaries as a percentage of gross value add			
latio of operatives to administrative, technical and	clerical		
mployees			2.9
		£	3,134
Vages and salaries per operative		L	0,104
Vages and salaries per administrative, technical and	l clerical	AL AND AND AND A	2 740
mployee		£	3,749
let capital expenditure per head		£	408
		%	no adam protor protocio 8

Including estimates for establishments not making satisfactory returns, non-response and establishments employing fewer than 20 (a) persons.

> Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 597332 K6 Cdf 251 1/80

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these notes give the main information needed for interpreting he figures in the industry Business Monitors: more detailed formation about the census is given in a separate Business Monitor - PA 1001 (Introductory Notes) of the Report on the ensus of Production, 1977.

ENERAL INFORMATION

hanges made for 1977

Census for 1977 is in line with similar inquiries being inducted in other member countries of the European Economic munities. There was a small number of changes in the scope the industry reports compared with 1976.

the first time in the industry monitors a table has been luded on operating ratios, calculated from census measures of tout, investment, manpower and labour costs.

Specific changes are explained in the introductions to the industry norts or by footnotes to the tables.

uppression of information relating to individual undertakings tion 9(5)(b) of the Statistics of Trade Act 1947 states the following provisions shall have effect with respect to any ort, summary or other communication to the public of formation 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 narticulars published therein from being identified as being narticulars 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". a figure involved disclosure the contributor concerned was netimes asked to give permission for its publication. In the

ority of cases permission was given. When it was refused and nere contributors were not approached the figure has been pressed, either by combining it with other figures, or as in the ional tables, by omitting the figure altogether.

mbols used

e following symbols are used throughout the PA series of iness Monitors:

not available

nil or less than half the final digit shown figures cannot be shown owing to the risk of disclosing nformation about individual enterprises.

revised

unding of figures

gures in the tables have, where necessary, been rounded to the rest final digit. Where figures have been so rounded, the sum the constituent items may not always agree exactly with the tal shown

dustrial classification

United Kingdom Standard Industrial Classification (SIC) was st issued in 1948 and was subsequently revised in 1958 and 68. It exists to promote uniformity and comparability in the cial statistics of the United Kingdom. The general principles owed are those of the International Standard Industrial sification of all Economic Activities of the United Nations istical Office but the United Kingdom SIC reflects the anisation and structure of industry and trade as it exists in the ted Kingdom. The SIC is a classification by activity and is a commodity classification. However, an index of all commodity dings for which sales data are provided in the Quarterly Business itors, is published in Business Monitor PQ 1000.

tistical units

statistical unit for the purpose of the Census is the establishment th is defined in the SIC as the smallest unit which can provide information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading' of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of separate information in respect of each address, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables. Efforts are made by the Business Statistics Office (BSO) to ensure by negotiating with respondents, that the return from an establishment does not cover local units or addresses in more than one of the countries of the United Kingdom. Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical News No 13 May 1971.

activities in their return.

THE REGISTER

(iiii)

The register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises. The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including Companies Registration Office and the Department of Employment. The 1973 Finance Act allows HM Customs and Excise to pass to the BSO lists of businesses registered for VAT. Information from all these sources is used to improve the register, and where necessary, details are sought directly from new businesses. Units which cease to trade are removed from the live register. Increasing use of the information obtained from the Department of Employment, HM Customs and Excise and BSO inquiries has led to improvements on the register, which in turn enabled the BSO to produce better estimates, particularly of numbers of smaller establishments and enterprises.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchanting. transport, warehousing, for which they keep a separate set of accounts. Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these

Particulars relating to head offices mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them

For certain purposes in the annual censuses of production (especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. For these purposes an enterprise group may be defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments.

Coverage

A return was required in the 1977 Census from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

Regions

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland.

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the number of persons on the payroll on average during the year of return, whether full-time or part-time employees. Separate figures were required for: administrative, technical and clerical employees (a)

all other employees (operatives) (b)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Outworkers (ie persons employed by establishments who worked in their own homes etc on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

These include all persons regarded as "self-employed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage salary or commission are included under this heading: directors paid by fee only are not included.

Employees

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc are also included, but outworkers are excluded.

Capital expenditure

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

(a) New building work

This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of assets acquired in taking over an existing business), and the amounts receivable for freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc which firms produced for their own use in connection with the business covered by the return. The value of plant, etc acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written-off for items scranned

Cost of industrial services

This includes amounts payable to other firms for work done on materials supplied by the establishment, payments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services

This includes rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" are also included.

Gross output

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

Net output

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

Net output per head

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

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services eq rent of buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom) and advertising, rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head

The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of raw materials, components, semimanufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by

stomers; and of food, etc for any canteen covered by the tablishment's return. Transfers of goods to the establishment m another department of the same firm not covered by the ablishment's return are included at a cost corresponding to the imated selling value recorded by the other department, Amounts vable to transport firms or credited to the firm's own transport partment for delivery of materials are excluded, as are all chases of machinery and plant charged to capital account. rchases of goods for merchanting or factoring have been lected separately since 1973. The values shown exclude VAT. hey include, in addition to the actual purchase price, the value nackaging material charged to the establishment. The value of urned goods or packaging material returned to suppliers and any de discounts are excluded. Materials purchased duty-paid are luded at their duty-paid value, less any drawback, rebate, etc. e cost of transport is included only if it is included with the chase price in the firm's accounts. Imported goods are included their full delivered cost. If in the firm's accounts the transport docks or airport is not included in the cost of goods purchased. cost is entered at cif plus duty (if applicable). Leasing, ing and hire purchase charges are excluded.

les of goods produced

es for the purposes of the annual censuses means deliveries on e of goods made by establishments in the United Kingdom red by the inquiry. Sales of goods made for these establishments outworkers or by other establishments from materials given out them and sales of waste products are included. New building ork and machinery or other capital items produced by establishnts for hiring out or leasing are regarded as sales, the value uded in the return being that adopted in the establishments' nital asset accounts. Forward sales and canteen takings are excluded. sales in the period of the inquiry are included irrespective of en the goods were manufactured. Goods produced in one ablishment and transferred either to ancillary departments not gaged in production for which there are separate accounts, or to her establishment of the same firm not covered by the return, treated as sales by the producing establishment and valued as as possible as if they had been sold to an independent purchaser. ods transferred to wholesale or retail selling organisations, for ich separate accounts are kept are valued on the same basis.

e value shown for sales in the "net selling value" defined as the int (excluding VAT) charged to customers whether on an works or delivered basis, after any trade discounts and agents' sions have been deducted. The cost of packing materials allowance for returnable cases is included. In industries where ducts attract Excise Duty the value stated is usually inclusive f duty if sold duty-paid and exclusive of duty if sold in bond

eipts for work done and industrial services rendered

ures for work done represent the amount charged for work ied out on materials supplied by a customer and include repair rk. Within certain industries this heading covers a wide variety of vities, for example, within the food sector - butter packed on ssion; within the textile industries - making up of garments, dressing and textile finishing; within printing and publishing aratory work on type-setting, block making and binding. Work is also significant in the electrical machinery and heavy eering industries, covering erection, installation and repair and ing work. Other activities within this heading include exploration k, research and development, glass cutting and dressing and ng of timber.

trial services rendered include repairs and maintenance, instaon work, and technical research and studies for other isations

ital goods produced for establishments' own use

includes all work of a capital nature carried out during the r by the establishments' own staff for their own use.

-industrial services rendered

includes rents received for commercial and industrial buildings, unts charged for hiring out plant, machinery and vehicles and goods and amounts charged to other organisations for the ision of transport. It also includes amounts received for the to use patents, trademarks, copyrights etc, manufacturing quarrying rights and technical "know-how" and revenue from h staff facilities as canteens.

ods merchanted or factored

hanted goods are those (excluding canteen sales) sold without

Stocks and work in progress are not deducted.

Wages and salaries These are amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses, commissions and holiday pay, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc. The value of redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc is excluded.

Remuneration paid to outworkers

Employers' insurance and welfare contributions

Operating ratios The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate for the quantity shown in the denominator. These estimates cover all establishments classified to the industry, including exempted establishments and nonrespondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practise with regard to stock valuation, may affect comparability in some respects.

having been subjected to any manufacturing process by the seller.

Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to sub-contractors are excluded and progress payments received from other organisations

The remuneration paid to outworkers (ie persons employed by the establishment who do their work in their own homes) is generally on a piece-work basis. Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are excluded.

This item includes employers' contributions to national insurance (and/or earnings related basic contributions under the Social Security Pensions Act, 1975) and commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees, former employees and their dependants are also included.

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