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OF POLITICAL AND Report on the SCIENCE

Census of Production

Precision chains and other mechanical engineering



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PA349.2 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1976

Precision chains and other mechanical engineering

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

London: Her Majesty's Stationery Office

Electronic computers
Radio, radar and electronic capital goods
Electrical appliances primarily for domestic use

PA349.2 PRECISION CHAINS AND OTHER MECHANICAL ENGINEERING

The information in this report relates to establishments classified to the Precision chains and other mechanical engineering industry, minimum list headings 349.2 and 3 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing transmission and other precision chains including transmission chains for motor vehicles and cycles. The undertaking by establishments of general sub-contract or repair work and establishments whose mechanical engineering products (including machinery parts) are of such a mixed character that they cannot be allocated elsewhere among the mechanical engineering group of industries — Order VII.

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

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PA109	Miscellaneous mining and quarrying	PA370	Shipbuilding and marine engineering
PA211	Grain milling	PA380	Wheeled tractor manufacturing
PA212	Bread and flour confectionery		Motor vehicle manufacturing Trailers, caravans and freight containers
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PA231	Brewing and malting	PA395	Cans and metal boxes
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PA278	Fertilizers		Canvas goods and sacks and other made-up textiles
PA279.1		PA423	Textile finishing Asbestos
	Formulated adhesives, gelatine, etc. Explosives and fireworks		Miscellaneous textile industries
	Formulated pesticides, etc.	PA431	Leather (tanning and dressing) and fellmongery
	Printing ink	PA432	Leather goods
	Surgical bandages, etc.	PA433	Fur
	Photographic chemical materials	PA441 PA442	Weatherproof outerwear Men's and boys' tailored outerwear
PA311 PA312	Iron and steel (general) Steel tubes	PA443	Women's and girls' tailored outerwear
PA313	Iron castings, etc.	PA444	Overalls and men's shirts, underwear, etc.
PA321	Aluminium and aluminium alloys	PA445	Dresses, lingerie, infants' wear, etc.
PA322	Copper, brass and other copper alloys	PA446	Hats, caps and millinery Corsets and miscellaneous dress industries
PA323 PA331	Miscellaneous base metals Agricultural machinery (except tractors)	PA449.1 PA449.2	
PA332	Metal-working machine tools	PA450	Footwear
PA333.1			Refractory goods
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	Compressors and fluid power equipment	PA462	Pottery
PA334	Industrial engines	PA463	Glass Cement
PA335 PA336	Textile machinery and accessories Construction and earth-moving equipment	PA464 PA469.1	Abrasives
PA337	Mechanical handling equipment		Miscellaneous building materials and mineral products
PA338	Office machinery	PA471	Timber
	Mining machinery	PA472	Furniture and upholstery
	Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating,	PA473 PA474	Bedding, etc. Shop and office fitting
FA339.3	ventilating and air-conditioning equipment	PA475	Wooden containers and baskets
PA339.5	Scales and weighing machinery and portable	PA479	Miscellaneous wood and cork manufactures
	power tools	PA481	Paper and board
PA339.7	Food and drink processing machinery and	PA482.1	Cardboard boxes, cartons and fibre-board packing case Packaging products of paper and associated materials
BA220.0	packaging and bottling machinery Miscellaneous (non-electrical) machinery	PA482.2 PA483	Manufactured stationery
PA341	Industrial (including process) plant and steelwork		Wallcoverings
PA342	Ordnance and small arms		Miscellaneous manufactures of paper and board
	Ball, roller, plain and other bearings	PA485	Printing, publishing of newspapers and periodicals
	Precision chains and other mechanical engineering	PA489	General printing and publishing
PA351 PA352	Photographic and document copying equipment Watches and clocks	PA491 PA492	Rubber Linoleum, plastics floor-covering, leathercloth, etc.
PA352 PA353	Surgical instruments and appliances	PA493	Brushes and brooms
PA354	Scientific and industrial instruments and systems	PA494.1	Toys, games and children's carriages
PA361	Electrical machinery		Sports equipment
PA362	Insulated wires and cables	PA495	Miscellaneous stationers' goods
PA363	Telegraph and telephone apparatus and equipment	PA496 PA499 1	Plastics products Musical instruments
PA364	Radio and electronic components		Miscellaneous manufacturing industries
	Gramophone records and tape recordings	PA500	Construction
PA365.2	Broadcast receiving and sound reproducing	PA601	Gas
DAGG	equipment Electronic computers	PA602	Electricity Water supply
PA366 PA367	Electronic computers Radio, radar and electronic capital goods	PA603 PA1002	Water supply Summary tables
PA368	Electrical appliances primarily for domestic use		

London: Her Majesty's Stationery Office

PA349.2 TABLE 2

PA349.2

44,575

Output and costs, 1973 - 1976 All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976
Enterprises	Number	4,947	5,390	5,519	5,774
Establishments	nadwa esoaw z nere snome the r	5,126	5,577	5,694	5,955
Sales of goods produced	£ thousand	584,926	762,851	870,958	941,379
Receipts for work done and industrial services rendered	i Kalensiiko ei si mekin	(b)	(b)	(b)	61,232
Capital goods produced for establishments' own use	s tanemmos man	1,500	1,086	1,293	1,186
Non-industrial services rendered	"	4,502	3,097	3,479	3,501
Goods merchanted or factored	"	23,710	29,841	31,772	41,009
Total sales and work done (c)		614,639	796,876	907,502	1,048,307
Increase during the year, work in progress and goods on hand for sale	,,	12,629	29,158	15,069	21,510
Gross output		627,268	826,034	922,571	1,069,816
Purchases of materials for use in production, and packaging and fuel	"	219,067	306,009	315,333	389,397
Purchases of goods for merchanting or factoring	"	20,771	25,428	26,180	31,443
Increase during the year, stocks of materials, stores and fuel	,,	10,462	15,760	3,265	10,096
Cost of industrial services received	"	23,366	30,139	36,648	38,588
Net output	"	374,526	480,218	547,676	620,485
Total employment (d)	Thousands	132.6	138.0	129.2	129.2
Net output per head	£	2,824	3,480	4,240	4,803
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	6,248	9,076	9,066	8,779
Commercial insurance premiums		3,214	4,042	5,262	6,700
Bank charges	"	487	716	735	961
Other non-industrial services (g)	"	15,598	19,876	22,504	36,383
icensing of motor vehicles		250	291	265	455
Rates, excluding water rates	"	5,404	7,346	8,508	10,570
Gross value added at factor cost	"	343,326	438,871	501,335	556,637
Gross value added at factor cost per head	£	2,589	3,180	3,882	4,309

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 56 per cent of employment within the industry.

(b) Included with sales of goods produced.

(c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ349.2.

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

(e) 1973 figures include hire of vehicles.

(f) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £5.179 thousand

(g) 1974-1976 figures include the cost of hiring goods vehicles.

Capital expenditure, 1973 - 1976
All United Kingdom establishments classified to the industry (a)(b)

£ thousand 1973 1974 1975 1976 Land and buildings 4,126 3,641 New building work 3,368 5,311 Land and existing buildings 1,458 1,659 1,185 1,781 Acquisitions 1,483 1,566 468 551 Disposals Vehicles Acquisitions 3,256 4,716) Motor cars 8,091 4,790 645 821) Other vehicles Disposals 1,273 1,455) Motor cars 1,620 2,581 90 99) Other vehicles Plant and machinery 29,651 31,798 36,720 23,533 Acquisitions 2,479 2,817 3,013 1,878 Disposals

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 56 per cent of employment within the industry.

27.537

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

36,559

36,509

TABLE 3

Stocks and work in progress, 1973 - 1976
All United Kingdom establishments classified to the industry (a)

Total net capital expenditure

					£ thousand
case 202 ara coroca amber c	1973	1974	1975		1976
	salektas bek ar logran.	and a first of the second	Increase	THE TRANSPORTER NOT RECEIVE	Value at end of year
Materials, stores and fuel	10,462	15,760	3,265	10,096	82,036
Work in progress	11,508	22,757	6,905	13,841	100,389
Goods on hand for sale	1,121	6,401	8,164	7,669	47,040
Total	23,091	44,918	18,334	31,606	229,465

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 56 per cent of employment within the industry.

Analysis of establishments by size, 1976
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employmen	t		Wages and sa	laries (f)		two y-
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	d weld
			(0)		(0)	Total	per head	Total	per head
1000 (1850)	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1 - 10	3,667	3,637	17,317)						
11 - 19	1,181	1,174	17,046)	51,166	14,390	140,468	2,745	48,146	2.240
20 - 49	715	709	20,777)	01,100	14,000	794,976	2,745		3,346
50 - 99	224	219	15,287)						
100 - 199	92	88	12,331	9,317	2,990	26,268	2,819	10,231	3,422
200 - 299	33	33	7,743	5,803	1,936	16,313	2,811	5,994	3,096
300 - 399	11	11	3,573	2,304	1,269	6,144	2,667	3,835	3,022
400 - 499	9	9	4,075	2,627	1,448	8,376	3,188	5,113	3,531
500 - 749	12	12	7,134	4,685	2,449	14,055	3,000	7,945	3,244
750 - 999	4	3	3,544	2,337	1,207	5,218	2,233	3,628	3,006
,000 - 2,499	3	3	4,870	3,220	1,650	8,733	2,712	5,056	3,064
,500 and over	4	3	15,480	11,434	4,046	33,627	2,941	13,529	3,344

Total	5,955	5,774	129,177	92,893	31,385	259,203	2,790	103,476	3,297

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

otal sales nd work one (g)	Gross output	Net output	epole total coll	Gross value added at factor cost	Ferrors (8),211	Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
thousand	£ thousand	£ thousand	pos control United Kingdom	£ thousand	to hear tea tehniu mauem A	£ thousand	£ thousand
	(51						
530,748	536,581	318,872	4,528	(j)	(j)	26,536	77,575
104,609	105,932	61,796	5,011	342,315(j)	4,136(j)	4,846	20,605
67,180	67,669	37,113	4,793	32,764	4,231	3,583	13,271
36,121	37,671	18,459	5,166	16,606	4,648	640	12,642
49,696	51,475	25,812	6,334	21,906	5,376	1,593	14,773
69,918	72,240	40,189	5,633	35,396	4,962	3,328	23,918
30,318	31,679	16,069	4,534	14,489	4,088	1,046	11,399
42,976	45,624	25,459	5,228	22,657	4,652	673	17,153
116,740	120,946	76,716	4,956	70,505	4,555	2,330	38,129

1,048,307	1,069,816	620,485	4,803	556,637	4,309	44,575	229,465

⁽f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £46,126 thousand. In addition the remuneration of outworkers on returns received was £36 thousand.

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

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

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

⁽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.

⁽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.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976 All United Kingdom establishments classified to the industry

Area	Total employment (a)		Net capital expenditure	Net capital expenditure (b)(c)		Net output, gross value added and employment in the region from returns received from establish- ments with more than 80 per cent of their employ- ment in the region (d)			
e-consequent decree, the		basin.			Net output	Gross value added at factor cost	percenta	ment as a ge of total employment dustry	
	Thousands	per cent of United Kingdom	,	per cent of United Kingdom	£ thousand	£ thousand	xII E D. V.	the second second	
Standard regions of England		+ 40							
North	7.8	6.0	4,073	9.1	22,574	20,714	57.0		
Yorkshire and Humberside	16.7	13.0	5,171	11.6	47,851	43,596	60.4		
East Midlands	6.6	5.1	3,069	6.9	12,265	11,342	34.9		
East Anglia	2.2	1.7	793	1.8	3,870	3,449	31.5		
South East	38.8	30.0	13,200	29.6	87,122	77,621	39.5		
South West	11.2	8.7	3,247	7.3	24,238	21,198	42.8		
West Midlands	18.9	14.6	5,705	12.8	38,418	34,936	40.7		
North West	15.8	12.3	5,110	11.5	32,321	28,417	42.9		
England	118.1	91.4	40,369	90.6	268,661	241,272	44.2	atecas	
Wales	4.8	3.7	1,515	3.4	13,203	11,774	53.1		
Scotland	5.6	4.4	2,532	5.7	14,024	12,418	50.2		
Great Britain	128.5	99.5	44,416	99.6	295,887	265,464	44.8		
Northern Ireland	0.7	0.5	158	0.4	2,013	1,685	81.5		
Unallocated (e)	_	-	-	-	322,584	289,489	_		
United Kingdom (b)	129.2	100.0	44,575	100.0	620,485	556,637		_	

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

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

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

(d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output and gross value added at each address covered by a return was proportional to employment at the address.

(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

Account	ting year ended	Percentage of total ret	Percentage of total returns received		al number employed
1 1 1 2 2 1 1	detical detection	per cent	how he excluded	per cent	The state of the s
1976	April (a)	3.7		3.2	
	May	2.8		1.5	
	June Manual Control	5.4		3.3	
				ned a letter 1975;	
	July	4.4		3.4	
	August	4.9		4.2	
	September	7.8		5.4	
	October	4.7		19.4	
	November	3.1		2.3	
	December	33.1		25.1	
		cet patace i patacente i meso pas but patacente at cet i no		4.0	
1977	January	4.5			
	February	2.4		1.6	
	March (b)	23.3		26.6	

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1976(a) General mechanical engineering industries, minimum list heading 349.

Sex	Full-time	Part-time	All employees
Z LINEDA EL CATA	per cent	per cent	per cent
Male	81	1 Description	82
Female	14	4	18
remaie	ista para di dalla da di	bensenge de operation	or digitals, carling the Head or agreement

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 349 at end June, 1976. In the 1976 Census of Production the employment of the Precision chains and other mechanical engineering industry represented 80 per cent of the employment of minimum list heading 349 as a whole.

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These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor -PA1001 (Introductory Notes) of the Report on the Census of Production, 1976.

GENERAL INFORMATION

Changes made for 1976

The Census for 1976 is in line with similar inquiries being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the industry reports compared with 1975. These include separate headings for:

Sales of goods produced

Receipts for work done and industrial services rendered

Amounts paid for hire of plant and machinery Amounts paid for rent of industrial and commercial buildings

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

Suppression of information relating to individual undertakings

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."

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.

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

R revised

Rounding of figures

Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent items may not always agree exactly with the total

Industrial classification

United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom, The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ1000.

Statistical units

The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, capital formation. Usually the principal over, capital formation in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically establishment embraces all the activities carried on at a single address e.g. a farm, 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 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

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

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set of 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 activities in their return. 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 PA1002) related establishments are combined. For these purposes an enterprise group may be defined as a business consisting of alther a single establishment or two or more stablishments under common ownership or control. ringing together establishments into enterprise roups is also necessary for the purpose of nsuring that there will be no disclosure of the activities of any one enterprise group. relationship Information about the establishments, the changing structure of groups f companies and about common ownership links is htained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establish-

The register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all manufacturing (or local) units which it

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 comprises. 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. cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employ-

ment from the annual censuses of employment. Establishments with 20 or more employees are included in the censuses each year and the information they supply to the census is supplemented by the returns that those with 25 or more employees provide to the quarterly inquiries. Information about establishments with fewer than 20 employees in most industries is less securely based, increasing use has been made of data on these small establishments supplied by the Department of Employment. One benefit of using this information is an improvement in the estimates of the number of smaller establishments and enterprises, but there is little effect on other aggregates (e.g. employment, output, net capital expenditure).

return was required in the 1976 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 he major part of the establishment's sales.

ne regions defined in Table 5 take account of the oundary changes arising out of the Local overnment 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 persons on the payroll on average during the year of return, whether full-time or part-time employees. Separate figures were required for:

- (a) administrative, technical and clerical employees
- (b) all other employees (operatives)

verages 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 (i.e. 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 "selfemployed" 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, superintendents 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 They include operatives employed in earners. 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 scrapped.

Cost of industrial services

This includes amounts payable to other firms for work done on materials supplied by the establishpayments 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 rent of industrial and commercial buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport, 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, 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 nonindustrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport 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, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printer 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 establishment when working on goods supplied customers; and of food, etc. for any canter covered by the establishment's return. Transfers of goods to the establishment from another depart. ment of the same firm not covered by establishment's return are included at a corresponding to the estimated selling value recorded by the other department. Amounts payable recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned goods or packaging material returned transport. It also includes amounts received for commercial charged for hiring out plant, machinery and other goods and amounts charged to other organisations for the provision of transport. to suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

lishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the regarded as sales, The value included in the return being that adopted in the establishments' capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same basis.

The value shown for sales is the "net selling the value of any payments in kind, travelling 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 and commissions, whether paid the value of redundancy payments less any amounts relimbursed from Government sources is included. The value of any payments in kind, travelling the inquiry are included irrespective of when the kept are valued on the same basis.

The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on an analysis of redundancy payments sources is included. The value of any payments in kind, travelling expenses etc. is excluded.

ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. industries where products attract Excise Duty the basis. Only amounts paid to outworkers whose names value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Work done and industrial services rendered Figures for work done represent the amount charged for work carried out on materials supplied by customer and include repair work. Within certain

industries this heading covers a wide variety of activities, for example, within the food sector - packed on commission; within the textile ndustries - making up of garments, fur dressing and textile finishing; within printing and publishing - preparatory work on type-setting, block aking and binding. Work done is also significant n the electrical machinery and heavy engineering ndustries, covering erection, installation and repair and jobbing work. Other activities within his heading include exploration work, research and development, glass cutting and dressing and planing 4 +imber .

ndustrial services rendered include repairs and alntenance, installation work, and technical research and studies for other organisations.

papital goods produced for establishments! own use this includes all work of a capital nature carried but during the year by the establishments own staff for their own use.

on-industrial services rendered This includes rents received for commercial and transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how" and revenue from such staff facilities as canteens.

goods merchanted or factored
Merchanted goods are those (excluding canteen sales) sold without having been subjected to any manufacturing process by the seller.

stocks and work in progress Values are given of stocks of goods on hand for Sales for the purposes of the annual censuses 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 estab-lishment without further processing. The values lishment 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 subcontractors are excluded and progress payments received from other organisations are not deducted.

Remuneration paid to outworkers
The remuneration paid to outworkers (i.e. persons
employed by the establishment who do their work in
their own homes) is generally on a piece-work appear on the establishment's payroll are included.

Amounts paid to outworkers by sub-contractors are excluded.

Employers' insurance and welfare contributions
This item includes employers' contributions to national insurance and graduated pensions (and/or earnings related basic contributions under the

Social Security Act, 1973) as well as 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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