PA349.1

TATISTICS
RACK-UP 42 (AIM 25)

1972

BRITISH LIBRARY

-3 FEB1976

OF POLITICAL AND ECONOMIC SCIENCE

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production

Ball and roller bearings



Department of Industry
Business Statistics Office

HMSO

PA349.1 Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1972

Ball and roller bearings

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 1975

PA370 Shipbuilding and marine engineering PA1001 Introductory notes Wheeled tractor manufacturing Coal mining
Stone and slate quarrying and mining
Chalk, clay, sand and gravel extraction Motor vehicle manfacturing
Trailers, caravans and freight containers PA381 PA102 PA103 Motor cycle, tricycle and pedal cycle Petroleum and natural gas
Miscellaneous mining and quarrying manufacturing
Aerospace equipment, manufacturing and repairing PA 109 PA211 Grain milling
Bread and flour confectionery PA 384 Locomotives, railway track equipment, railway PA212 carriages, wagons and trams PA213 Biscuits Bacon curing, meat and fish products
Milk and milk products Engineers' small tools and gauges PA214 PA 391 Hand tools and implements PA215 Cutlery, spoons, forks and plated tableware, etc. PA216 PA217 Sugar Bolts, nuts, screws, rivets, etc. Wire and wire manufactures Cocoa, chocolate and sugar confectionery PA 394 Fruit and vegetable products Cans and metal boxes Animal and poultry foods Vegetable and animal oils and fats PA396 Jewellery and precious metals PA399.1 Metal furniture PA221 PA229.1 Margarine
PA229.2 Starch and miscellaneous foods
PA231 Brewing and malting PA399.5 Drop forgings, etc. PA399.6 Metal hollow-ware PA399.8 Miscellaneous metal manufacture PA232 Soft drinks
PA239.1 Spirit distilling and compounding Production of man-made fibres
Spinning and doubling on the cotton and flax systems PA411 PA412 PA239.2 British wines, cider and perry Weaving of cotton, linen and man-made fibres PA240 Tobacco Woollen and worsted PA261 Coke ovens and manufactured fuel PA414 Mineral oil refining
Lubricating oils and greases Rope, twine and net PA416 PA263 Hosiery and other knitted goods PA417 PA271.1 Inorganic chemicals Warp knitting PA271.2 Organic chemicals PA271.3 Miscellaneous chemicals PA418 Lace Pharmaceutical chemicals and preparations
Toilet preparations Carpets PA419 PA272 PA273 Narrow fabrics PA421 PA422.1 Household textiles and handkerchiefs PA422.2 Canvas goods and sacks and other made-up Soap and detergents Synthetic resins and plastics materials and PA275 PA276 textiles Textile finishing synthetic rubber
Dyestuffs and pigments PA429.1 Asbestos PA429.2 Miscellaneous textiles PA277 Leather (tanning and dressing) and fellmongery Leather goods PA 279 1 Polishes PA279.2 Formulated adhesives, gelatine, etc. PA432 PA433 PA279.3 Explosives and fireworks PA279.4 Formulated pesticides, etc. Weatherproof outerwear Men's and boys' tailored outerwear PA441 PA279.5 Printing ink PA442 Women's and girls' tailored outerwear PA279 6 Surgical bandages, etc. Overalls and men's shirts, underwear, etc. Dresses, lingerie, infants' wear, etc. PA279.7 Photographic chemical materials PA444 PA445 Iron and steel (general) PA446 Hats, caps and millinery PA449.1 Corsets and miscellaneous dress industries PA 312 Steel tubes Iron castings, etc Aluminium and aluminium alloys Copper, brass and other copper alloys PA449.2 Gloves PA321 PA450 Footwear PA461.1 Refractory goods Miscellaneous base metals
Agricultural machinery (except tractors) PA323 PA461.2 Building bricks and non-refractory goods PA 331 Metal-working machine tools PA462 Pottery PA333 PA334 Pumps, valves and compressors PA464 Cement Industrial engines Textile machinery and accessories PA469.1 Abrasives PA469.2 Miscellaneous building materials and mineral Construction and earth-moving equipment PA336 products Timber Mechanical handling equipment Office machinery Furniture and upholstery PA 339 1 Mining machinery PA339.2 Printing, book binding and paper goods machinery PA339.3 Refrigerating machinery, space heating, ventilating and air-conditioning equipment Bedding, etc. PA473 Shop and office fittings
Wooden containers and baskets
Miscellaneous wood and cork manufactures PA339.7 Food and drink processing machinery and packaging and bottling machinery
PA339.9 Miscellaneous (non-electrical) machinery Paper and board PA482.1 Cardboard boxes, cartons and fibre-board Scales and weighing machinery and portable packing cases PA482.2 Packaging products of paper and associated power tools materials Manufactured stationery Industrial (including process) plant and steelwork Process plant engineering contractors Ordnance and small arms PA484.1 Wallcovering PA484.2 Miscellaneous manufactures of paper and board PA349.1 Ball and roller bearings PA349.2 Precision chains and other mechanical engineering Printing and publishing of newspapers and periodicals Photographic and document copying equipment PA489 General printing, publishing, etc. Watches and clocks Surgical instruments and appliances Rubber PA 353 Linoleum, plastics floor-covering, Scientific and industrial instruments and systems PA492 leathercloth, etc. Electrical machinery Insulated wires and cables PA 361 DA 193 Brushes and brooms PA362 Toys, games and children's carriages Telegraph and telephone apparatus and equipment PA494 1 Sports equipment Radio and electronic components PA 364 Miscellaneous stationers' goods Gramophone records and tape recordings PA495 Plastics products PA496 Broadcast receiving and sound reproducing

Musical instruments

PA601

PA603

Gas Electricity

Water supply Summary tables

PA499.1 Musical mistraments
PA499.2 Miscellaneous manufacturing industries

The information in this report relates to establishments classified to the Ball and roller bearings industry, minimum list heading 349.1 in the Standard Industrial Classification (revised 1968). The activities of the industry include:
Manufacturing ball, roller, needle and similar bearings, including those for motor vehicles.

Prior to 1971, for census purposes, the manufacture of ball and roller bearings formed part of the General mechanical engineering industry and separate figures are not available. Aggregate results for the whole of MLH 349 are shown in tables 1a and 2a; the remaining tables relate only to MLH 349.1.

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

LIST OF CONTENTS

Table No	Title	Page
	United Kingdom establishments classified to the industry	
1	Input and output, 1970, 1971 and 1972	
	1a Combined analysis, 1970, 1971 and 1972 1b Separate analysis, 1971 and 1972	PA349.1 2 PA349.1 3
2	Capital expenditure and stocks, 1970, 1971 and 1972	
	2a Combined analysis, 1970, 1971 and 1972 2b Separate analysis, 1971 and 1972	PA349.1 4 PA349.1 5
3	Analysis of establishments by size, 1972	PA349.1 6
4	Regional distribution of employment, net capital expenditure and net output, 1972	PA349.1 7
5	Percentage analysis of twelve-month periods covered by returns received from establishments employing 25 or more persons, 1972	
6	Percentage analysis of employees by full and part time employment and sex, 1972	PA349.1 8
7	Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other	PA349.1 8
	industries, 1972	PA349.1 9

PA367 PA368 equipment

and aircraft

accessories, etc.

Electronic computers

Primary and secondary batteries Electric lamps, electric light fittings, wiring

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

Electrical equipment for motor vehicles, cycles

PA349.1 2

Input and output, 1970, 1971 and 1972

All United Kingdom establishments classified to the General mechanical engineering industry (a)

Constitute research threat southern	Unit	1970	1971	1972
Enterprises	Number	5,128	5,321	4,585
Establishments	ıı	5,222	5,469	4,801
Sales of goods produced and work done	£,000	698,718	747,912	637,593
Services rendered to other organisations (b)	11	8,110	6,727	7,928
Goods merchanted or factored	II	33,360	50,523	41,779
Canteen takings	H ,	1,381	1,412	1,229
Total sales and work done	п	741,569	806,574	688,527
Increase during the year, work in progress and goods on hand for sale	11	12,831	906	2,051
Gross output	П	754,400	807,481	690,578
Cost of purchases	н	310,049	317,973	269,797
Increase during the year, stocks of materials, stores and fuel	II .	7,457	604	2,661
Payments to other organisations for work done on materials given out	11	18,731	19,146	16,707
for transport by road	II .	4,074	4,445	3,599
for transport by rail, water, air and Post Office parcel services	11	1,661	1,903	1,209
Total costs	Company of the second	327,058	344,070	288,652
Net output	11	427,342	463,410	401,926
Total employment (including working proprietors) (c)	Thousands	205.1	197.2	165.0
Net output per head	£	2,084	2,350	2,436

⁽a) For 1972, estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons, accounted for 32 per cent of the total figures in which they were incorporated: of this unsatisfactory returns accounted for 7 per cent.

Input and output, 1971 and 1972

TABLE 1b

All United Kingdom establishments classified to the Ball and roller bearings industry (a)

2727	ser l	Unit	1971	1972
Enterprises		Number	31	51
Establishments		11	39	56
		800 th		
Sales of goods produced and work do	one	£,000	133,949	134,401
Services rendered to other organisa	tions (b)	11	208	At the series of the second
Goods merchanted or factored		STATE	14,010	12,220
Canteen takings		148 U	349	445
Total sales and work done		11	148,516	147,065
		TOR SEE		Selection of the select
The second second second second second		era ir		The state of the s
Increase during the year, work in p and goods on hand for sale	rogress	11	1,408	1,251
Gross output		05.0.29 n	149,925	148,316
			5G 41G	59 410
Cost of purchases		11	56,416	58,419
Increase during the year, stocks of materials, stores and fuel		11	- 1,096	339
Payments to other organisations for work done on materials given	out	11	633	809
for transport by road		H H	586	589
for transport by rail, water, air and Post Office parcel services		н	244	200
Total costs		. 11	58,975	59,679
Net output		out to	90,950	88,637
		0,825		Inc. yet heads no about
Total employment (including working proprietors) (c)		Thousands	37.3	35.1
Net output per head		£	2,439	2,523

⁽a) For 1972, estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons, accounted for 2 per cent of the total figures in which they were incorporated, accounted for almost entirely by unsatisfactory returns.

⁽b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.

⁽c) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.

⁽b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.

⁽c) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.

TABLE 2b

Capital expenditure and stocks, 1970, 1971 and 1972

All United Kingdom establishments classified to the General mechanical engineering industry (a)

				£'000	
(2027) 4383	1970	1971	197	72	
				and and a start	
Capital expenditure (b)					
New building work	6,908	5,956	2,98	84	
Land and existing buildings		STATE OF THE PARTY			
Acquisitions	1,712	2,845	- 8	23 (c)	
Disposals	844	4,425		uni se transatis.	
Plant and machinery			s sale door took		
Acquisitions	28,867	30,089	28,9	83	
Disposals	1,649	2,863	1,9	38	
Vehicles		Turker	0.100,000 20		
Acquisitions	4,329	4,518	4,9	81	
Disposals	1,530	1,831	2,297		
Total net capital expenditure (c)	37,793	34,290	31,890		
			Ingli Acce tes	to of existing	
Increase in stocks and work in progress, 1970, 1971 and 1972 and value of stocks and work in progress at end of 1972	Increase	Increase	Increase	Value at end of year	
and examen	7,457	- 604	2,661	52,316	
Materials, stores and fuel		- 6,245	4,483	66,308	
Work in progress	6,406				
Goods on hand for sale	6,425	7,151	-2,432	46,773	
Total	20,288	302	4,711	165,398	

⁽a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

Capital expenditure and stocks, 1971 and 1972

All United Kingdom establishments classified to the Ball and roller bearings industry (a)

£'000

			£'000
Market State of the State of th	1971	197	2
Capital expenditure (b)			
New building work	500	6	83
Land and existing buildings			
Acquisitions	94		
Disposals	236	}	69 (c)
Plant and machinery			
Acquisitions	6,551	5,9	70
Disposals	404	3	73
Vehicles		18 to	
Acquisitions	330	3	52
Disposals	141	1	48
Total net capital expenditure (c)	6,695	6,4	115
ncrease in stocks and work in progress,	Increase	Increase	Value at end
1970, 1971 and 1972 and value of stocks and work in progress at end of 1972			of year
Materials, stores and fuel	- 1,096	339	11,676
Work in progress	- 1,841	677	18,685
Goods on hand for sale	3,249	574	20,206
Total	312	1,589	50,568

⁽a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

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

⁽c) Acquisitions less disposals.

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

⁽c) Acquisitions less disposals.

TABLE 3

Analysis of establishments by size, 1972

All United Kingdom establishments classified to the Ball and roller bearings industry (a)

				Emplo	oyees	Wages and	salaries	Wages and per		Total			Ne t output	Capital expen-	Total stocks and work in
Size group (b)	Estab- lish- ments	Enter- prises (c)	Total employment (b)	Operatives	Others (d)	Operatives	Others (d)	Operatives	Others (d)	sales and work done (e)	Gross output	Net output	per head	diture (net) (f)	progress at end of year
	Number	Number	Number	Number	Number	£,000	£'000	£	£	£,000	£,000	£'000	£	£,000	£'000
1-10	22	22	101												
11-24	3	3	44	438	146	571	239	1,304	1,640	3,249	3,249	1,739	2,869	160	461
25-49	6	6	229												
50-99	3	3	232												
100-299	7	7	1,170	950	216	1,070	401	1,125	1,856	5,569	5,379	2,861	2,445	203	1,384
300-749	5	5	2,644	1,890	754	2,718	1,390	1,438	1,844	11,669	11,572	5,800	2,193	477	3,396
750-1,999	4	3	6,404	4,923	1,481	6,461	2,335	1,312	1,577	26,908	27,622	14,857	2,320	1,761	10,193
2,000-2,499	3	3	7,016	4,934	2,082	8,572	4,342	1,737	2,085	28,146	28,271	20,707	2,951	638	6,047
2,500 and over	3	3	17,283	12,764	4,519	18,891	8,221	1,480	1,819	71,525	72,223	42,674	2,469	3,176	29,087
							1								
			- 3							1					
Total	56	51	35,123	25,899	9,198	38,284	16,928	1,478	1,840	147,065	148,316	88,637	2,523	6,415	50,568

- (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.
- (b) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.
- (c) Some enterprises control establishments in more than one size group: the sum of the figures for the size groups will therefore exceed the total for the industry.

- (d) Administrative, technical and clerical employees.
- (e) Including sales of goods merchanted or factored, canteen takings and services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered).
- (f) Acquisitions less disposals.

Regional distribution of employment, net capital expenditure and net output, 1972 All United Kingdom establishments classified to the Ball and roller bearings industry

Area	Average number employed (a)			apital ture (b)	establishmen	and employment in the region of ments with more than 80 per cent of oyment in the region (c)			
CONTROL OF THE CONTRO					Estimated net output	Average number employed as a percentage of total average number employed in the industry in the region	Net output as percentage of total of the industry in the United Kingdom		
	Thousands	per cent of United Kingdom	£'000	per cent of United Kingdom	£'000		andodyki sudanicz		
Standard regions of England			Relation				vednemsti		
North	2.9	8.2	858	13.4	918	17.0	1.0		
Yorkshire and Humberside	*	*	*	*	*	*	10 10 10 10 10 10 10 10 10 10 10 10 10 1		
East Midlands	*	*	*	*	*	*	*		
East Anglia	*	*	*	*	*	*	A ALERT NAT		
South East	*	*	*	*	*	* * * * * * * * * * * * * * * * * * *	* 1		
South West	1.8	5.1	241	3.8	3,873	72.6	4.4		
West Midlands	4.1	11.6	671	10.5	6,312	58.0	7.10 3.35×7		
North West	*	*	*	*	*	*	*		
Engl and	*	*	*	*	*	*	*		
Wales	*	*	*	*	*	*	*		
Scotland	*	*	*	*	*	*	*		
Great Britain	*	*	*	*	*	*	*		
Northern Ireland	*	*	*	*	*	*	*		
Unallocated (d)	-	-	-	-	34,805	-	39.3		
United Kingdom	35.1	100.0	6,415	100.0	88,637		100.0		

- (a) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.
- (b) New building work plus acquisitions less disposals of land and existing buildings, plant and machinery and vehicles.
- (c) Where a census return covered addresses in two or more regions an estimate was made of the net output 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 at each address covered by a return was proportionate to employment at the address. The establishment's residual net output was included in unallocated net output.
- (d) Includes estimates of net output for establishments not making satisfactory returns and establishments employing less than 25 employees, and unallocated net output of establishments covering addresses in two or more regions.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 25 or more persons, 1972

Accounting year ended		Percentage of total returns received	Percentage of total number employed
	The Berner of A. A. Brand	per cent	per cent
1972	April (a)	0.0	0.0
1312	May	4.0	0.3
	June	0.0	0.0
	CONTRACTOR CONTRACTOR CONTRACTOR		
		0.0	0.0
	July	0.0	0.0
	August September	24.0	48.2
	September	Course I have such a market to yourse	
		0.0	0.0
	October	8.0	4.9
	November	56.0	46.1
	December	30.0	10.1
		0.0	0.0
973	January	0.0	0.0
	February	8.0	0.5
	March(b)		
		100.0	100.0

- (a) From 6th April
- (b) Including returns made for twelve-month period ended 1st to 5th April 1973

TABLE 6

Percentage analysis of employees, by full and part time employment and sex, 1972 (a) General mechanical engineering industries, minimum list heading 349

Sex	Full time	* Part time	All employees
	per cent	per cent	per cent
	16.61 1.00	1.00 (0.00) 1.00 (1.00)	
Male	79	1	80
Female	16	4	20
	S & Party lies July 1 like Kills	oner last, photoseleluma en	Tagronal bak
	The ties as autigated to the close of the case of the	and of a second to the account of all of the second of the	The state of the s
	95	5	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 349.1 at mid-June, 1972. In the 1972 Census of Production the employment of the 'Ball and roller bearings' industry represented 21 per cent of the employment of minimum list heading 349 as a whole.

Sales of principal products of the Ball and roller bearings industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1972 (a)

	1972	
	£ THOUS	
BALL, ROLLER OR NEEDLE ROLLER BEARINGS:		
BALL BEARINGS	42,321	
PARTS OF BALL BEARINGS:		
BALLS	1,509	
OTHER	412	
ROLLER OR NEEDLE ROLLER BEARINGS	44,279	
PARTS OF ROLLER OR NEEDLE ROLLER BEARINGS	1,631	
PLAIN BEARINGS OTHER BEARINGS AND BUSHES	36,029	
WASTE PRODUCTS	1,855	
WORK DONE	1,092	
TOTAL SALES OF PRINCIPAL PRODUCTS OF MLH 349.1 (BALL, ROLLER, PLAIN AND OTHER BEARINGS) AND		
WORK DONE	129,128	

Source: Business Monitor (PQ349.1) - Quarterly Statistics

(a) Sales are deliveries on sale for home or abroad. Forward sales are excluded. Values are net selling values; purchase tax, trade discounts and commissions are excluded.

Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd.289565 K7 Cdf 633 10/75

Notes

These notes give the main information needed for interpreting the figures in the industry reports, (more detailed information about the census is given in a separate booklet—"Introductory Notes", Part PA 1001 of the Report on the Census of Production for 1972).

GENERAL INFORMATION

Changes made for 1972

There were only minor changes in the scope of certain industry reports compared with 1971. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

Industrial classification

The Annual Censuses of Production are conducted on the Business Statistics Office's Production Register. Normally establishments on the Register are classified to industries on the basis of major activity in conformity with the Standard Industrial Classification (revised 1968). Generally an establishment is classified to an industry if its sales of the principal products of that industry accounts for a greater proportion of its total sales than its sales of the principal products of any other industry; classification is generally based on an establishment's returns to the quarterly production inquiry. Where this is not possible—for example where a quarterly production inquiry has not been introduced—the classification of an establishment reflects its return to the Census of Production, 1968. Establishments for which information is not available either from the quarterly inquiries or the 1968 Census are classified on the basis of the description of the business given by the establishments to the Business Statistics Office, for instance, in the course of registration.

Coverage

Detailed census returns were generally sought only from establishments employing on average 25 or more persons, but in some industries where firms employing less than 25 persons account for a relatively high proportion of total employment and output the exemption limit was lowered to 11. Census returns were also sent to establishments whose employment was not known to the Business Statistics Office at the time of dispatch.

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the number of persons on the payroll (i.e. whose national insurance cards were held by them) on the average during the year of return, whether full-time or part time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) all other employees (operatives). Averages could be calculated from 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 establishments) 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.

Employee.

Administrative, technical and clerical employees include managing and other directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research, experimental development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, breadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included, but out-workers 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 in the figures for both 1970, 1971 and 1972. Establishments were asked to include in the value of capital expenditure, amounts received under the Local Employment Acts, 1960 to 1971 and any investment grants received under the Industrial Development Act, 1966 or regional development grants under the Industry Act, 1972.

(a) New building work

This represents the cost incurred during the year of new building and other constructional work (including office buildings, canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension of 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 any 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 of premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any 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 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. 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.

Enterprise

The term enterprise is used in this report to mean one or more establishments under common ownership or control (as defined in the Companies Act 1948) making returns to the census. An enterprise may consist of a single establishment, or of more than one establishment owned by one legal unit, usually a company, or of a number of establishments owned by a parent company and subsidiary company or companies. Information about the relationship between constituent companies of enterprises was obtained mainly from published sources such as the Stock Exchange Year Book supplemented by information from company reports and information supplied by establishments. The information available is not complete but covers the largest and most important groups of industrial establishments and is believed sufficient to provide a worthwhile basis for analysis.

Establishment

The definition of an establishment in 1970, 1971 and 1972 was that of the Standard Industrial Classification (revised 1968): "the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation". Sometimes activities which are conducted as a single business are carried on at a number of addresses, termed local units. Where the activities of such a business are closely integrated, and detailed census information is not available for each unit, it is treated as a multi-unit establishment and a single return accepted. Separate figures are obtained, however, of employment and net capital expenditure at each unit.

Gross output

Gross output measures the total value of production (including work done) by establishments during the year. It is calculated as follows:

Value of sales and work done

Plus/Less: Increase/decrease in value of stocks of goods on hand for sale

Plus/Less: Increase/decrease in value of work in progress

Gross output.

Net output

Net output represents the value added to materials by the process of production (including the margin on selling any merchanted or factored goods). It is calculated as follows:-

Gross output

Less: Purchases adjusted for change in value of stocks of fuel and raw materials

Less: Payments for work given to other establishments Less: Payments for transport

Less: Net amount of any duties, subsidies, allowances and levies payable

Net output.

Net output per person employed

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

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials including the cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to establishment's own buildings, plants and vehicles when carried out by their own work people included in the returns; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general, purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded, as are all purchases charged to capital account.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced: amounts paid to transport organisations, including an establishment's own separate transport organisations for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at the c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivery cost if invoiced "carriage paid home" Materials and fuel transferred from another department of the establishment not covered by the same return are included at the estimated selling value recorded by the other department.

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other establishments from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the establishment's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchanted or factored) and canteen takings are included.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis excluding any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value.

Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were 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 were kept were valued on the same

To the extent that sales of finished products of one establishment constitute the materials purchased by another, total figures of

the value of sales (and of materials and fuel purchased) include an element of duplication. In some industries, e.g. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates for a number of industries contain significant amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other services rendered to other organisations. It includes amounts credited for similar services rendered to other establishments of the same enterprise not covered by the return.

Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (revised 1968). It is published by HM Stationery Office together with a separate index in the form of an alphabetical list of industries.

Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during the year are also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

Transport payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payment to other establishments, and to any separate transport organisation of the same establishment not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are

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 and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to national insurances and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other establishments (whether part of the same enterprise or not) on materials supplied to them. They do not include payments to individual outworkers or payments for business and other services.

SYMBOLS USED

The following symbols are used throughout the report:

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

ROLINDING OF FIGURES

Figures in the tables have, where necessary, been rounded to the nearest final digit; there may be an apparent slight discrepancy between the sum of the constituent items and the total shown.

© Crown copyright 1975

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V 6HB
13a Castle Street, Edinburgh EH2 3AR
41 The Hayes, Cardiff CF1 1JW
Brazennose Street, Manchester M60 8AS
Southey House, Wine Street, Bristol BS1 2BQ
258 Broad Street, Birmingham B1 2HE
80 Chichester Street, Belfast BT1 4JY

Government publications are also available through booksellers