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Electrical appliances primarily for domestic use

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Business Monitor

Report on the Censuses of Production

Electrical equipment for motor vehicles, cycles and aircraft

HMSO



A publication of the Government Statistical Service

PA369.1

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Report on the Censuses of Production 1974 & 75

Electrical equipment for motor vehicles, cycles and aircraft

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- PA101 Coal mining
- PA102 Stone and slate quarrying and mining
- PA103 Chalk, clay, sand and gravel extraction
- PA104 Petroleum and natural gas
- PA109 Miscellaneous mining and quarrying
- PA211 Grain milling
- PA212 Bread and flour confectionery
- PA213 Biscuits
- PA214 Bacon curing, meat and fish products
- PA215 Milk and milk products
- PA216 Sugar
- PA217 Cocoa, chocolate and sugar confectionery
- PA218 Fruit and vegetable products
- PA219 Animal and poultry foods
- PA221 Vegetable and animal oils and fats
- PA229.1 Margarine
- PA229.2 Starch and miscellaneous foods
- PA231 Brewing and malting
- PA232 Soft drinks
- PA239.1 Spirit distilling and compounding
- PA239.2 British wines, cider and perry
- PA240 Tobacco
- PA261 Coke ovens and manufactured fuel
- PA262 Mineral oil refining
- PA263 Lubricating oils and greases
- PA271.1 Inorganic chemicals
- PA271.2 Organic chemicals
- PA271.3 Miscellaneous chemicals
- PA272 Pharmaceutical chemicals and preparations
- PA273 Toilet preparations
- PA274 Paint
- PA275 Soap and detergents
- PA276 Synthetic resins and plastics materials and synthetic rubber
- PA277 Dyestuffs and pigments
- PA278 Fertilizers
- PA279.1 Polishes
- PA279.2 Formulated adhesives, gelatine, etc.
- PA279.3 Explosives and fireworks
- PA279.4 Formulated pesticides, etc.
- PA279.5 Printing ink
- PA279.6 Surgical bandages, etc.
- PA279.7 Photographic chemical materials
- PA311 Iron and steel (general)
- PA312 Steel tubes
- PA313 Iron castings, etc.
- PA321 Aluminium and aluminium alloys
- PA322 Copper, brass and other copper alloys
- PA323 Miscellaneous base metals
- PA331 Agricultural machinery (except tractors)
- PA332 Metal-working machine tools
- PA333 Pumps
Valves
Compressors and fluid power equipment
- PA334 Industrial engines
- PA335 Textile machinery and accessories
- PA336 Construction and earth-moving equipment
- PA337 Mechanical handling equipment
- PA338 Office machinery
- PA339.1 Mining machinery
- PA339.2 Printing, bookbinding and paper goods machinery
- PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment
- PA339.5 Scales and weighing machinery and portable power tools
- PA339.7 Food and drink processing machinery and packaging and bottling machinery
- PA339.9 Miscellaneous (non-electrical) machinery
- PA341 Industrial (including process) plant and steelwork
- PA342 Ordnance and small arms
- PA349.1 Ball, roller, plain and other bearings
- PA349.2 Precision chains and other mechanical engineering
- PA351 Photographic and document copying equipment
- PA352 Watches and clocks
- PA353 Surgical instruments and appliances
- PA354 Scientific and industrial instruments and systems
- PA361 Electrical machinery
- PA362 Insulated wires and cables
- PA363 Telegraph and telephone apparatus and equipment
- PA364 Radio and electronic components
- PA365.1 Gramophone records and tape recordings
- PA365.2 Broadcast receiving and sound reproducing equipment
- PA366 Electronic computers
- PA367 Radio, radar and electronic capital goods
- PA368 Electrical appliances primarily for domestic use

(iii)

- PA369.1 Electrical equipment for motor vehicles, cycles and aircraft
- PA369.2 Primary and secondary batteries
- PA369.4 Electric lamps, electric light fittings, wiring accessories, etc.
- PA370 Shipbuilding and marine engineering
- PA380 Wheeled tractor manufacturing
- PA381.1 Motor vehicle manufacturing
- PA381.2 Trailers, caravans and freight containers
- PA382 Motor cycle, tricycle and pedal cycle manufacturing
- PA383 Aerospace equipment manufacturing and repairing
- PA384 Locomotives, railway track equipment, railway carriages, wagons and trams
- PA390 Engineers' small tools and gauges
- PA391 Hand tools and implements
- PA392 Cutlery, spoons, forks and plated tableware, etc.
- PA393 Bolts, nuts, screws, rivets, etc.
- PA394 Wire and wire manufactures
- PA395 Cans and metal boxes
- PA396 Jewellery and precious metals
- PA399.1 Metal furniture
- PA399.5 Drop forgings, etc.
- PA399.6 Metal hollow-ware
- PA399.8 Miscellaneous metal manufacture
- PA411 Production of man-made fibres
- PA412 Spinning and doubling on the cotton and flax systems
- PA413 Weaving of cotton, linen and man-made fibres
- PA414 Woollen and worsted
- PA415 Jute
- PA416 Rope, twine and net
- PA417.1 Hosiery and other knitted goods
- PA417.2 Warp knitting
- PA418 Lace
- PA419 Carpets
- PA421 Narrow fabrics
- PA422.1 Household textiles and handkerchiefs
- PA422.2 Canvas goods and sacks and other made-up textiles
- PA423 Textile finishing
- PA429.1 Asbestos
- PA429.2 Miscellaneous textile industries
- PA431 Leather (tanning and dressing) and fellmongery
- PA432 Leather goods
- PA433 Fur
- PA441 Weatherproof outerwear
- PA442 Men's and boys' tailored outerwear
- PA443 Women's and girls' tailored underwear
- PA444 Overalls and men's shirts, underwear, etc.
- PA445 Dresses, lingerie, infants' wear, etc.
- PA446 Hats, caps and millinery
- PA449.1 Corsets and miscellaneous dress industries
- PA449.2 Gloves
- PA450 Footwear
- PA461.1 Refractory goods
- PA461.2 Building bricks and non-refractory goods
- PA462 Pottery
- PA463 Glass
- PA464 Cement
- PA469.1 Abrasives
- PA469.2 Miscellaneous building materials and mineral products
- PA471 Timber
- PA472 Furniture and upholstery
- PA473 Bedding, etc.
- PA474 Shop and office fittings
- PA475 Wooden containers and baskets
- PA479 Miscellaneous wood and cork manufactures
- PA481 Paper and board
- PA482.1 Cardboard boxes, cartons and fibre-board packing cases
- PA482.2 Packaging products of paper and associated materials
- PA483 Manufactured stationery
- PA484.1 Wallcoverings
- PA484.2 Miscellaneous manufactures of paper and board
- PA485 Printing, publishing of newspapers and periodicals
- PA489 General printing and publishing
- PA491 Rubber
- PA492 Linoleum, plastics floor-covering, leathercloth, etc.
- PA493 Brushes and brooms
- PA494.1 Toys, games and children's carriages
- PA494.3 Sports equipment
- PA495 Miscellaneous stationers' goods
- PA496 Plastics products
- PA499.1 Musical instruments
- PA499.2 Miscellaneous manufacturing industries
- PA500 Construction
- PA601 Gas
- PA602 Electricity
- PA603 Water supply
- PA1002 Summary tables

PA369.1 ELECTRICAL EQUIPMENT FOR MOTOR VEHICLES, CYCLES AND AIRCRAFT

PA369.1 1

The information in this report relates to establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft industry, minimum list heading 369.1 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing lighting, starting and ignition sets, dynamos, dashboard instruments for road vehicles and wheeled tractors, electric horns, traffic indicators and similar electrical equipment for motor vehicles, wheeled tractors, cycles and aircraft.

Before 1972, for census purposes, the manufacture of Electrical equipment for motor vehicles, cycles and aircraft formed part of the Miscellaneous electrical goods industry and separate figures are not available. This report is, therefore, presented in two parts:— Electrical equipment for motor vehicles, cycles and aircraft MLH 369.1, 1972-1975; Electrical equipment for motor vehicles, cycles and aircraft, Primary and secondary batteries, Electric lamps, electric light fittings, wiring accessories, etc., MLH 369, 1971-1975.

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
1	Output and costs	
	1a Separate analysis, 1972-1975	PA369.1 2
	1b Combined analysis, 1971-1975	PA369.1 3
2	Capital expenditure	
	2a Separate analysis, 1972-1975	PA369.1 4
	2b Combined analysis, 1971-1975	PA369.1 5
3	Stocks and work in progress	
	3a Separate analysis, 1972-1975	PA369.1 4
	3b Combined analysis, 1971-1975	PA369.1 5
4	Analysis of establishments by size, 1975	PA369.1 6-7
5	Regional distribution of employment, net capital expenditure and net output, 1975	PA369.1 8
6	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1975	PA369.1 9
7	Percentage analysis of employees, by full and part-time employment and sex, 1975	PA369.1 9
8	Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1974-1975	PA369.1 10
9	Purchases by establishments employing 100 or more persons, classified to the industry, 1974 Analysis of returns received, United Kingdom	PA369.1 11-12
10	Payments to other organisations for certain services received by returns received in respect of establishments with 300 or more employees, 1974	PA369.1 13

TABLE 1a

PA369.1 2

Output and costs, 1972-1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft industry (a)

	Unit	1972	1973	1974	1975			
Enterprises	Number	71	72	108	119			
Establishments	"	82	83	123	132			
Sales of goods produced, work done and industrial services rendered (b)	£ thousand	168,708	216,467	223,024	290,928			
Capital goods produced for establishments' own use (c)	"					345	54	66
Non-industrial services rendered (d)	"					1,036	867	1,212
Goods merchanted or factored	"	7,499	7,825	12,111	14,188			
Total sales and work done (b)(d)	"	176,206	225,673	236,056	306,395			
Increase during the year, work in progress and goods on hand for sale	"	82	4,259	5,288	4,285			
Gross output (b)(d)	"	176,288	229,933	241,344	310,680			
Purchases of materials for use in production, and packaging and fuel (c)	"	79,593	97,220	100,820	128,685			
Purchases of goods for merchenting or factoring (c)	"					7,018	10,206	8,543
Increase during the year, stocks of materials, stores and fuel	"	396	2,623	5,080	-1,925			
Cost of industrial services received (e)	"	4,925	6,352	6,172	4,297			
Net output	"	92,166	121,966	129,226	167,231			
Total employment (f)	Thousands	40.1	47.6	48.4	41.7			
Net output per head	£	2,298	2,560	2,672	4,006			
Payments for non-industrial services (g)								
Rents, hire of plant and machinery (h)	£ thousand	..	2,534	2,733	2,530			
Commercial insurance premiums	"					553	664	923
Bank charges	"					105	149	232
Other non-industrial services	"					2,799	5,731	5,990
Licensing of motor vehicles (j)	"	..	68	84	101			
Rates, excluding water rates (j)	"	..	1,504	1,723	1,789			
Gross value added at factor cost	"	..	114,403	118,141	155,666			
Gross value added at factor cost per head	£	..	2,402	2,443	3,729			

- (a) For 1975, estimates for establishments employing less than 20 persons accounted for 2 per cent of the total employment of the industry. Estimates for unsatisfactory returns and non-response accounted for 4 per cent. For 1974, the comparable figures were 1 per cent and 19 per cent respectively.
- (b) The figures for 1972 do not include receipts for repairs and maintenance.
- (c) Not recorded separately for 1972.
- (d) The figures for 1972 do not include revenue from rents for industrial buildings.
- (e) The figures for 1972 exclude the amounts payable for repairs and maintenance.
- (f) Average number employed (full and part-time; see table 7) during the year (including working proprietors) by the establishment.
- (g) Not collected for 1972 except for amounts payable to other organisations for transport of goods within the United Kingdom.
- (h) For 1973, figures include hire of vehicles.
- (j) Not collected for 1972.

TABLE 1b

PA369.1 3

Output and costs, 1971-1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft, Primary and secondary batteries and Electric lamps, electric light fittings, wiring accessories, etc. industries (a)

	Unit	1971	1972	1973	1974	1975			
Enterprises	Number	897	861	809	886	884			
Establishments	"	1,006	962	898	999	990			
Sales of goods produced, work done and industrial services rendered (b)	£ thousand	515,402	513,081	570,991	651,278	807,000			
Capital goods produced for establishments' own use (c)	"						1,766	1,081	(d)
Non-industrial services rendered (e)	"						2,174	2,179	3,547
Goods merchanted or factored	"	27,497	22,797	25,366	41,628	43,930			
Total sales and work done (b)(e)	"	542,898	535,878	600,297	696,166	854,476			
Increase during the year, work in progress and goods on hand for sale	"	3,134	4,046	9,134	22,160	1,541			
Gross output (b)(e)	"	546,032	539,924	609,431	718,326	856,017			
Purchases of materials for use in production, and packaging and fuel (c)	"	262,986	257,865	282,047	306,115	359,925			
Purchases of goods for merchenting or factoring (c)	"						19,805	32,731	30,567
Increase during the year, stocks of materials, stores and fuel	"	-1,019	3,150	14,401	14,428	-4,873			
Cost of industrial services received (f)	"	9,297	7,747	11,329	16,928	14,163			
Net output	"	272,731	277,463	310,650	376,979	446,490			
Total employment (g)	Thousands	123.0	110.9	113.8	116.2	105.3			
Net output per head	£	2,217	2,502	2,730	3,245	4,241			
Payments for non-industrial services (h)									
Rents, hire of plant and machinery (j)	£ thousand	..	..	4,497	5,423	5,512	
Commercial insurance premiums	"						2,026	2,189	3,021
Bank charges	"						257	356	446
Other non-industrial services	"						9,247	15,566	23,518
Licensing of motor vehicles (k)	"	..	..	154	217	267	
Rates, excluding water rates (k)	"	..	..	3,572	4,861	6,063	
Gross value added at factor cost	"	..	..	290,897	348,367	407,664	
Gross value added at factor cost per head	£	..	..	2,556	2,999	3,872	

- (a) For 1975, estimates for establishments employing less than 20 persons accounted for 5 per cent of the total employment of the industry. Estimates for unsatisfactory returns and non-response accounted for 8 per cent. For 1974, the comparable figures were 4 per cent and 16 per cent respectively.
- (b) The figures for 1971-1972 do not include receipts for repairs and maintenance.
- (c) Not recorded separately for 1971-1972.
- (d) Included with sales of goods produced, work done and industrial services rendered.
- (e) The figures for 1971-1972 do not include revenue from rents for industrial buildings.
- (f) The figures for 1971-1972 exclude the amounts payable for repairs and maintenance.
- (g) Average number employed (full and part-time; see table 7) during the year (including working proprietors) by the establishment.
- (h) Not collected for 1971-1972 except for amounts payable to other organisations for transport of goods within the United Kingdom.
- (j) For 1973, the figures include hire of vehicles.
- (k) Not collected for 1971-1972.

TABLE 2a

PA369.1 4

Capital expenditure, 1972-1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft industry (a) (b)

	£ thousand			
	1972	1973	1974	1975
Land and buildings	125	278	1,130	825
New building work				
Land and existing buildings				
Acquisitions	18	493	33	29
Disposals	81	183	198	117
Vehicles				
Acquisitions				
Motor cars (c)	} 472	282	267	} 315
Other vehicles (c)		178	167	
Disposals				
Motor cars (c)	} 237	146	175	} 114
Other vehicles (c)		17	6	
Plant and machinery				
Acquisitions	5,796	5,005	7,646	6,805
Disposals	223	356	153	270
Total net capital expenditure (d)	5,869	5,533	8,711	7,472

- (a) Including estimates for establishments not making satisfactory returns, non-response, and establishments exempted by virtue of size.
(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.
(c) Not recorded separately for 1972 and 1975.
(d) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

TABLE 3a

Stocks and work in progress, 1972-1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft industry (a)

	£ thousand				
	1972	1973	1974	1975	
		Increase		Value at end of year	
Materials, stores and fuel	396	2,623	5,080	-1,925	14,954
Work in progress	1,489	3,785	4,567	-390	19,220
Goods on hand for sale	-1,406	474	721	4,675	15,123
Total	478	6,883	10,368	2,360	49,297

- (a) Including estimates for establishments not making satisfactory returns, non-response, and establishments exempted by virtue of size.

TABLE 2b

PA369.1 5

Capital expenditure, 1971-1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft, Primary and secondary batteries and Electric lamps, electric light fittings, wiring accessories etc. industries (a) (b)

	£ thousand				
	1971	1972	1973	1974	1975
Land and buildings					
New building work	3,042	1,616	1,822	4,984	4,924
Land and existing buildings					
Acquisitions	734	813	922	783	1,539
Disposals	303	1,272	600	1,230	1,312
Vehicles					
Acquisitions					
Motor cars (c)	} 1,486	1,947	1,220	1,577	} 1,926
Other vehicles (c)		504	778		
Disposals					
Motor cars (c)	} 478	711	464	530	} 524
Other vehicles (c)		69	27		
Plant and machinery					
Acquisitions	16,355	15,406	15,048	21,281	21,267
Disposals	679	656	750	468	996
Total net capital expenditure (d)	20,157	17,143	17,633	27,148	26,824

- (a) Including estimates for establishments not making satisfactory returns, non-response, and establishments exempted by virtue of size.
(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.
(c) Not recorded separately for 1971, 1972 and 1975.
(d) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

TABLE 3b

Stocks and work in progress, 1971-1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft, Primary and secondary batteries and Electric lamps, electric light fittings, wiring accessories, etc. industries (a)

	£ thousand					
	1971	1972	1973	1974	1975	
		Increase			Value at end of year	
Materials, stores and fuel	-1,019	3,150	14,401	14,428	-4,873	65,208
Work in progress	-134	3,203	6,696	8,045	173	40,505
Goods on hand for sale	3,268	843	2,438	14,115	1,368	43,352
Total	2,115	7,196	23,535	36,588	-3,332	149,065

- (a) Including estimates for establishments not making satisfactory returns, non-response, and establishments exempted by virtue of size.

TABLE 4

PA369.1 6

Analysis of establishments by size, 1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft industry (a)

Size group (b)	Establishments	Enterprises (c)	Employment			Wages and salaries (e)			
			Total (b)	Operatives	Others (d)	Operatives		Others (d)	
						Total	per head	Total	per head
Number	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1 - 10	56	56	307	1,217	347	1,875	1,541	893	2,575
11 - 19	28	24	397						
20 - 49	12	12	362						
50 - 99	8	8	542						
100 - 199	6	6	871	702	169	1,064	1,516	465	2,751
200 - 299	6	6	1,475	1,133	341	1,927	1,701	898	2,633
300 - 499	6	5	2,241	1,765	476	3,348	1,897	1,471	3,089
500 - 1,499	4	4	3,144	2,529	615	5,411	2,140	1,938	3,151
1,500 and over	6	4	32,406	24,377	8,029	49,812	2,043	29,248	3,643
Total	132	119	41,745	31,723	9,977	63,437(j)	2,000	34,913(j)	3,499

- (a) Including estimates for establishments not making satisfactory returns, non-response, and establishments employing less than 20 persons.
- (b) Average number employed (full and part-time; see table 7) 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 therefore exceeds the total for the industry.
- (d) Administrative, technical and clerical employees.
- (e) Another important component of labour costs, employers' national insurance contributions, graduated pensions, contributions to other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £12,600 thousand. For 1974, the comparable figure was £12,008 thousand. In addition, the remuneration of outworkers on returns received was £238 thousand for 1974 and £252 thousand for 1975.

PA369.1 7

Total sales and work done (f)	Gross output	Net output	Gross value added at factor cost		Net capital expenditure (g)	Total stocks and work in progress at end of year	
			Total	per head			
							£ thousand
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
10,853	10,921	5,080	3,159	(h)	(h)	156	2,217
5,584	5,719	2,677	3,074	6,982(h)	2,817(h)	60	1,313
9,303	9,323	4,745	3,217	4,209	2,854	208	2,245
13,634	13,572	7,413	3,308	6,673	2,978	114	3,735
20,286	20,561	10,187	3,240	9,393	2,988	1,860	3,444
246,735	250,584	137,129	4,232	128,408	3,962	5,075	36,343
306,395	310,680	167,231	4,006	155,666	3,729	7,472	49,297

- (f) Comprises sales of goods produced (including capital goods manufactured, buildings constructed by establishments for their own use), work done, industrial non-industrial services rendered, goods merchanted or factored.
- (g) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
- (h) Gross value added data relates to establishments employing 1-199 persons.
- (j) The estimates of total wages and salaries for the industry in 1974 were:-

	£'000
Operatives	57,231
Others	31,811

TABLE 5

PA369.18

Regional distribution of employment, net capital expenditure and net output, 1975
All United Kingdom establishments classified to the Electrical equipment for motor vehicles, cycles and aircraft industry

Area	Employment (a)		Net capital expenditure (b)(c)		Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (d)	
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	Average number employed as a percentage of total average number employed in the industry in the region
Standard regions of England						
North	—	—	—	—	—	—
Yorkshire and Humberside	0.7	1.6	45	0.6	1,621	89.0
East Midlands	1.1	2.5	132	1.8	*	*
East Anglia	*	*	*	*	*	*
South East	10.0	23.9	1,977	26.4	60,027	73.0
South West	0.9	2.2	140	1.9	*	*
West Midlands	*	*	*	*	*	*
North West	5.2	12.4	813	10.9	*	*
England	39.4	94.5	5,904	79.0	124,398	71.7
Wales	*	*	*	*	*	*
Scotland	0.8	2.0	36	0.5	*	*
Great Britain	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*
United Kingdom	41.7	100.0	7,472	100.0	167,231(e)	

- (a) Average number employed (full and part-time; see table 7) during the year (including working proprietors).
- (b) Including estimates for establishments not making satisfactory returns, non-response, and establishments employing less than 20 persons.
- (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 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 proportional to employment at the address. The establishment's residual net output was included in unallocated net output.
- (e) Includes £38,403 thousand of unallocated net output of establishments covering addresses in two or more regions, plus estimates for unsatisfactory returns, non-response, and establishments employing less than 20 persons.

TABLE 6

PA369.19

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments in the Electrical equipment for motor vehicles, cycles and aircraft industry employing 20 or more persons, 1975

Accounting year ended	Percentage of total returns received		Percentage of total number employed	
	per cent		per cent	
1975 April (a)	0.0		0.0	
May	2.9		2.1	
June	0.0		0.0	
July	17.7		73.1	
August	5.9		1.3	
September	2.9		0.1	
October	0.0		0.0	
November	0.0		0.0	
December	53.0		20.4	
1976 January	2.9		1.0	
February	0.0		0.0	
March (b)	14.7		2.0	
	100.0		100.0	

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1976.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1975(a)
Other electrical goods industries, minimum list heading 369

Sex	Full-time	Part-time	All employees
	per cent	per cent	per cent
Male	54	1	55
Female	33	12	45
	87	13	100

Source: Department of Employment

- (a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 369 at June, 1975. In the 1975 Census of Production the employment of the Electrical equipment for motor vehicles, cycles and aircraft industry represented 40 per cent of the employment of minimum list heading 369 as a whole.

TABLE 8

PA369.1 10

Sales of principal products of the Electrical equipment for motor vehicles, cycles and aircraft industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1974-1975

Manufacturers' sales of the principal products of the Electrical equipment for motor vehicles, cycles and aircraft industry are published regularly in Business Monitor PQ 369.1. Details of sales for 1974 will be found in the monitor for third quarter 1976 published December 1976 and for 1975 in the third quarter 1977 issue published December 1977.

Quarterly Business Monitors are available from HMSO by annual subscription.

TABLE 9

PA369.1 11

Purchases by establishments employing 100 or more persons, classified to the Electrical equipment for motor vehicles, cycles and aircraft industry, 1974

Analysis of returns received, United Kingdom

	Quantity	Value
		£ thousand
Materials for use in production		
Iron and steel in all forms except finished parts, wire and scrap		
Steel products		
Bars and rods (including wire rods), angles, shapes, sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares	Th tonnes 23.3	3,276
Sheets under 3 mm thick (including electrical sheets)	3.2	364
Hoop and strip (including tapes of all thicknesses)	..	3,995
Other iron and steel products e.g. electrical laminations, iron castings, drop forgings, etc.	..	2,762
Wire and wire manufactures (excluding insulated wires and cables) e.g. wire cables and ropes, etc.	..	560
Insulated wires, cables, strips and strands (including cable harnesses)	..	6,449
Light metals and non-ferrous metals in all forms except finished goods, wire and scrap		
Aluminium and aluminium alloys	5.6	2,750
Other light metals and non-ferrous metals and their alloys e.g. copper, cadmium copper, brass, lead, solder, zinc, tin, nickel, etc.	..	20,057
Pottery, glass, porcelain and other ceramics	..	4,754
Manufactures wholly or mainly of natural or synthetic rubber, balata and gutta-percha including sheeting, but excluding replacement parts for the firms' own machinery, plant, vehicles, etc.	..	1,999
Paint, varnish, lacquers and stains	Th litres 1,101	355 57
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	..	3,860
Products wholly or mainly of plastics	..	2,689
Electrical insulating materials not elsewhere specified	..	812
Components and accessories purchased for incorporation in goods of the firms' own manufacture		
Bolts, nuts, screws, rivets, etc.	..	2,123
Springs	..	1,068
Electrical machinery e.g. generators, transformers, switchgear, motors, etc.	..	186
Electronic components e.g. capacitors, resistors, micro-circuits, valves, electronic stabilizing tubes, cathode ray tubes, servo valves, semi-conductor devices, etc.	..	3,554
Other electrical goods e.g. batteries, accumulators, permanent magnets, bulbs, sealed-beam units, etc.	..	8,233
Measuring instruments, gauges and control instruments	..	131
Metal components not elsewhere specified	..	2,311
Lubricating oils and greases (i.e. mineral, animal and vegetable)	..	164
Water charges	..	1,000
Stationery	..	466
Packaging materials (including materials used for the manufacture of the firms' own packaging)		
Paper and board		
Cartons and boxes wholly or mainly of cardboard (excluding fibreboard packing cases e.g. for transit)	..	1,874
Other packaging products of paper and board e.g. fibreboard packing cases, wrapping and packaging paper (excluding laminates) moulded pulp products, labels, etc.	..	329
All other packaging materials	..	392

TABLE 9 (continued)

PA369.1 12

	Quantity	Value
		£ thousand
Fuel and Electricity		
Derv fuel and motor spirit	Th gal 547	224
Fuel oil	{ 910 ..	151 803
Gas	{ Th therms 3,670 ..	246 104
Electricity	{ Th kWh 168,725 ..	1,685 387
All other fuels	..	69
Replacement Parts and Consumable Tools		
Tyres and other spare parts for the firms' own road vehicles	..	140
Replacement parts for the firms' own machinery plant and equipment	..	2,073
Consumable tools (including gauges)	..	3,098
Other purchases	..	6,655
TOTAL VALUE OF PURCHASES (other than for merchandising or factoring)		92,205

TABLE 10

PA369.1 13

Payments to other organisations for certain services received, 1974 classified to the Electrical equipment for motor vehicles, cycles and aircraft industry
Returns received in respect of establishments with 300 or more employees

	£ thousand
Industrial services received	4,505
Repairs and maintenance to	
Buildings	801
Road goods vehicles	52
Plant and machinery	1,736
Work done on materials given out	1,506
Other	410
Non-industrial services received	7,166
Rent of buildings, hire of plant and machinery	2,187
Commercial insurance premiums	463
Bank charges	95
Postage, telephone, telegrams, cables and telex	667
Transport	
Road	477
Rail and other means (excluding postal services)	131
Other	3,146

Notes

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the censuses is given in a separate Business Monitor—PA 1001 (Introductory Notes) of the Report on the Censuses of Production, 1974 and 1975.

GENERAL INFORMATION

Changes made for 1974 and 1975

The Censuses for 1974 and 1975 are in line with similar inquiries being conducted in other member countries of the European Economic Communities. From 1974, the Census has been extended to include the construction industry. For 1974, establishments with 300 or more employees were asked to provide additional information relating to industrial and non-industrial services. These include amounts paid:

- to other organisations for repairs and maintenance to buildings (including those in respect of rented buildings), road goods vehicles, plant, machinery and other capital equipment
- for postage, telephones, telegrams, cables and telex
- to other organisations for transport by road, rail or other means (excluding postal services)

In a separate inquiry for 1974, larger firms in each industry were also asked to provide a breakdown of the figure of total purchases (other than purchases of goods for merchandising or factoring). See paragraph on "Purchases".

Suppression of information relating to individual undertakings. The Statistics of Trade Act 1947 provides that—"No individual estimates or returns, and no information relating to an individual undertaking, obtained under the foregoing provisions of this Act, shall, without the previous consent in writing of the person carrying on the undertaking which is the subject of the estimates, returns or information, be disclosed except—

(a) in accordance with directions given by the Minister in charge of the government department in possession of the estimates, returns or information to a government department or to the Import Duties Advisory Committee for the purposes of the exercise by that department or committee of any of their functions; or

(b) for the purposes of any proceedings for an offence under this Act or any report of these proceedings."

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

Symbols used

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

- .. not available
- nil or less than half the final digit shown
- * figures cannot be shown owing to the risk of disclosing information about individual enterprises
- 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 shown.

Industrial classification

The 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 as PQ 1000 in the Business Monitor Series.

Statistical units

The statistical unit for the purpose of the Censuses 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, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically the 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 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 that case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained, however, of employment and net capital expenditure at each unit.

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 1971.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchandising, 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 activities in their return.

Particulars relating to head offices, which were mainly engaged in the administration of the production units within the scope of the censuses 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 is defined as a business consisting of either a single establishment, or of two or more establishments under common ownership or control. The bringing together of 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.

THE REGISTER

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 which make returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data is entered on the register from returns to the annual censuses of production. In cases where an establishment does not make a return to these inquiries the employment data is based on information provided by the Department of Employment 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 of them

with 25 or more employees provide to the quarterly inquiries. Information about establishments with less than 20 employees in most industries is less securely based, but 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).

Coverage

A return was required in the 1974 and 1975 Censuses 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:

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

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 (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 "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, superintendents and works foremen; research, 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 in the figures for 1971 to 1975. 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. From 1973, establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year.

(iv)

(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 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 or 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 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

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

Includes rent of industrial buildings and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, postal etc. 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

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 (e.g. rent of buildings and capital equipment, 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 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 customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value 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 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 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.

The information shown in Table 9 was obtained in an inquiry carried out as a supplement to the Census of Production for 1974, in which the larger firms in each industry were asked to provide a breakdown of the figure of total purchases (other than purchases of goods for merchanting or factoring) that they contributed to the Census. No establishment with fewer than 25 employees was asked to contribute to the inquiry; and this exemption limit was raised to exclude establishments with fewer than 50 or 100 employees, in those industries in which exempted establishments were estimated to account for less than 15 per cent of the industry's total purchases. A breakdown of purchases similar to that sought in the 1974 inquiry was previously obtained as part of the Censuses of Production for 1963 and 1968, and results were published in Table 10 of the Industry Reports of those Censuses.

Sales of goods produced, work done and industrial services rendered

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments 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 are included; as also are sales of waste products. Any 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 return being that adopted in the establishment's 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 and 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 value" defined as the amount (excluding value added tax) charged to customers whether on an 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. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of activities. For example, within the food sector—butter packed on commission; within the textile industries—making up of garments, fur dressing and textile finishing; within printing and publishing—preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber. Industrial services rendered includes repairs and maintenance, installation work, and technical research and studies rendered to other organisations.

Capital goods produced for establishments' own use

This includes all work carried out during the year by the establishments' own staff for their own use, which was of a capital nature.

Non-industrial services rendered

Includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and other goods and amounts charged to other organisations for the provision of transport. Also includes amounts received for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how"; revenue from such staff facilities as canteens is also included.

Goods merchanted or factored

Merchant 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 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 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 and commissions, 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

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 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.

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 holiday homes, etc. for employees, former employees and their dependants are also included.

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19

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