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Business Statistics Office

# Business Monitor

## Report on the Censuses of Production

### Motor vehicle manufacturing

HMSO



A publication of the Government Statistical Service

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# Business Monitor

A publication of the Government Statistical Service

## Report on the Censuses of Production 1974 & 75

### Motor vehicle manufacturing

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

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PA1001	Introductory notes	PA369.1	Electrical equipment for motor vehicles, cycles and aircraft
PA101	Coal mining	PA369.2	Primary and secondary batteries
PA102	Stone and slate quarrying and mining	PA369.4	Electric lamps, electric light fittings, wiring accessories, etc.
PA103	Chalk, clay, sand and gravel extraction	PA370	Shipbuilding and marine engineering
PA104	Petroleum and natural gas	PA380	Wheeled tractor manufacturing
PA109	Miscellaneous mining and quarrying	PA381.1	Motor vehicle manufacturing
PA211	Grain milling	PA381.2	Trailers, caravans and freight containers
PA212	Bread and flour confectionery	PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA213	Biscuits	PA383	Aerospace equipment manufacturing and repairing
PA214	Bacon curing, meat and fish products	PA384	Locomotives, railway track equipment, railway carriages, wagons and trams
PA215	Milk and milk products	PA390	Engineers' small tools and gauges
PA216	Sugar	PA391	Hand tools and implements
PA217	Cocoa, chocolate and sugar confectionery	PA392	Cutlery, spoons, forks and plated tableware, etc.
PA218	Fruit and vegetable products	PA393	Bolts, nuts, screws, rivets, etc.
PA219	Animal and poultry foods	PA394	Wire and wire manufactures
PA221	Vegetable and animal oils and fats	PA395	Cans and metal boxes
PA229.1	Margarine	PA396	Jewellery and precious metals
PA229.2	Starch and miscellaneous foods	PA399.1	Metal furniture
PA231	Brewing and malting	PA399.5	Drop forgings, etc.
PA232	Soft drinks	PA399.6	Metal hollow-ware
PA239.1	Spirit distilling and compounding	PA399.8	Miscellaneous metal manufacture
PA239.2	British wines, cider and perry	PA411	Production of man-made fibres
PA240	Tobacco	PA412	Spinning and doubling on the cotton and flax systems
PA261	Coke ovens and manufactured fuel	PA413	Weaving of cotton, linen and man-made fibres
PA262	Mineral oil refining	PA414	Woollen and worsted
PA263	Lubricating oils and greases	PA415	Jute
PA271.1	Inorganic chemicals	PA416	Rope, twine and net
PA271.2	Organic chemicals	PA417.1	Hosiery and other knitted goods
PA271.3	Miscellaneous chemicals	PA417.2	Warp knitting
PA272	Pharmaceutical chemicals and preparations	PA418	Lace
PA273	Toilet preparations	PA419	Carpets
PA274	Paint	PA421	Narrow fabrics
PA275	Soap and detergents	PA422.1	Household textiles and handkerchiefs
PA276	Synthetic resins and plastics materials and synthetic rubber	PA422.2	Canvas goods and sacks and other made-up textiles
PA277	Dyestuffs and pigments	PA423	Textile finishing
PA278	Fertilizers	PA429.1	Asbestos
PA279.1	Polishes	PA429.2	Miscellaneous textile industries
PA279.2	Formulated adhesives, gelatine, etc.	PA431	Leather (tanning and dressing) and fellmongery
PA279.3	Explosives and fireworks	PA432	Leather goods
PA279.4	Formulated pesticides, etc.	PA433	Fur
PA279.5	Printing ink	PA441	Weatherproof outerwear
PA279.6	Surgical bandages, etc.	PA442	Men's and boys' tailored outerwear
PA279.7	Photographic chemical materials	PA443	Women's and girls' tailored outerwear
PA311	Iron and steel (general)	PA444	Overalls and men's shirts, underwear, etc.
PA312	Steel tubes	PA445	Dresses, lingerie, infants' wear, etc.
PA313	Iron castings, etc.	PA446	Hats, caps and millinery
PA321	Aluminium and aluminium alloys	PA449.1	Corsets and miscellaneous dress industries
PA322	Copper, brass and other copper alloys	PA449.2	Gloves
PA323	Miscellaneous base metals	PA450	Footwear
PA331	Agricultural machinery (except tractors)	PA461.1	Refractory goods
PA332	Metal-working machine tools	PA461.2	Building bricks and non-refractory goods
PA333	Pumps Valves Compressors and fluid power equipment	PA462	Pottery
PA334	Industrial engines	PA463	Glass
PA335	Textile machinery and accessories	PA464	Cement
PA336	Construction and earth-moving equipment	PA469.1	Abrasives
PA337	Mechanical handling equipment	PA469.2	Miscellaneous building materials and mineral products
PA338	Office machinery	PA471	Timber
PA339.1	Mining machinery	PA472	Furniture and upholstery
PA339.2	Printing, bookbinding and paper goods machinery	PA473	Bedding, etc.
PA339.3	Refrigerating machinery, space-heating, ventilating and air-conditioning equipment	PA474	Shop and office fittings
PA339.5	Scales and weighing machinery and portable power tools	PA475	Wooden containers and baskets
PA339.7	Food and drink processing machinery and packaging and bottling machinery	PA479	Miscellaneous wood and cork manufactures
PA339.9	Miscellaneous (non-electrical) machinery	PA481	Paper and board
PA341	Industrial (including process) plant and steelwork	PA482.1	Cardboard boxes, cartons and fibre-board packing cases
PA342	Ordnance and small arms	PA482.2	Packaging products of paper and associated materials
PA349.1	Ball, roller, plain and other bearings	PA483	Manufactured stationery
PA349.2	Precision chains and other mechanical engineering	PA484.1	Wallcoverings
PA351	Photographic and document copying equipment	PA484.2	Miscellaneous manufactures of paper and board
PA352	Watches and clocks	PA485	Printing, publishing of newspapers and periodicals
PA353	Surgical instruments and appliances	PA489	General printing and publishing
PA354	Scientific and industrial instruments and systems	PA491	Rubber
PA361	Electrical machinery	PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA362	Insulated wires and cables	PA493	Brushes and brooms
PA363	Telegraph and telephone apparatus and equipment	PA494.1	Toys, games and children's carriages
PA364	Radio and electronic components	PA494.3	Sports equipment
PA365.1	Gramophone records and tape recordings	PA495	Miscellaneous stationers' goods
PA365.2	Broadcast receiving and sound reproducing equipment	PA496	Plastics products
PA366	Electronic computers	PA499.1	Musical instruments
PA367	Radio, radar and electronic capital goods	PA499.2	Miscellaneous manufacturing industries
PA368	Electrical appliances primarily for domestic use	PA500	Construction
		PA601	Gas
		PA602	Electricity
		PA603	Water supply
		PA1002	Summary tables

PA381.1 MOTOR VEHICLE MANUFACTURING

The information in this report relates to establishments classified to the Motor Vehicle manufacturing industry, minimum list heading 381.1 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

*The manufacture and assembly of passenger cars, commercial goods vehicles, road tractors solely for tractor-trailer combinations, buses, battery-electric vehicles and three wheeled vehicles; the manufacture of engines, bodies, chassis, chassis frames, seats and seat safety belts for motor vehicles, cabs for commercial vehicles and motor body shells; and manufacturing all other parts and accessories (except rough or semi-finished castings and forgings) when made wholly or primarily of metal and not reported elsewhere. Establishments specialising in reconditioning engines and gear boxes are included.*

Before 1972, for census purposes, the Motor vehicle manufacturing industry covered the manufacture of trailers, caravans and freight containers in addition to motor vehicle manufacturing and separate figures are not available. This report is therefore presented in two parts: Motor vehicle manufacturing, MLH381.1 1972, 1973, 1974 and 1975; Motor vehicle manufacturing, trailers, caravans and freight containers, MLH381, 1971, 1972, 1973, 1974 and 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, 1973, 1974 and 1975 1b Combined analysis, 1971, 1972, 1973, 1974 and 1975	PA381.1 2 PA381.1 3
2	Capital expenditure 2a Separate analysis, 1972, 1973, 1974 and 1975 2b Combined analysis, 1971, 1972, 1973, 1974 and 1975	PA381.1 4 PA381.1 5
3	Stocks and work in progress 3a Separate analysis, 1972, 1973, 1974 and 1975 3b Combined analysis, 1971, 1972, 1973, 1974 and 1975	PA381.1 4 PA381.1 5
4	Analysis of establishments by size, 1975	PA381.1 6-7
5	Regional distribution of employment, net capital expenditure and net output, 1975	PA381.1 8
6	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1975	PA381.1 9
7	Percentage analysis of employees, by full and part-time employment and sex, 1975	PA381.1 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	PA381.1 10
9	Purchases by establishments employing 100 or more persons, classified to the industry, 1974 Analysis of returns received, United Kingdom	PA381.1 11-13
10	Payments to other organisations for certain services received by returns received in respect of establishments with 300 or more employees, 1974	PA381.1 14

TABLE 1a

PA381.1 2

Output and costs, 1972-1975  
All United Kingdom establishments classified to the Motor vehicle manufacturing industry (a)

	Unit	1972	1973	1974	1975
Enterprises	Number	1,495	1,572	1,704	1,739
Establishments	"	1,750	1,801	1,903	1,946
Sales of goods produced, work done and industrial services rendered (b)	£ thousand	3,414,774	3,634,681	4,132,704	5,107,282
Capital goods produced for establishments' own use (c)	"		8,195	14,637	(d)
Non-industrial services rendered (e)	"		6,091	5,125	8,101
Goods merchanted or factored	"	106,996	173,687	315,516	538,936
<b>Total sales and work done (b) (e)</b>	"	<b>3,521,770</b>	<b>3,822,654</b>	<b>4,467,982</b>	<b>5,654,320</b>
Increase during the year, work in progress and goods on hand for sale	"	18,527	60,405	144,196	68,480
<b>Gross output (b) (e)</b>	"	<b>3,540,297</b>	<b>3,883,059</b>	<b>4,612,178</b>	<b>5,722,800</b>
Purchases of materials for use in production, and packaging and fuel (c)	"	2,171,616	2,277,512	2,317,171	3,262,597
Purchases of goods for merchenting or factoring (c)	"		127,912	211,609	354,667
Increase during the year, stocks of materials, stores and fuel	"	-7,267	52,583	70,766	9,468
Cost of industrial services received (f)	"	24,249	64,460	69,162	75,417
<b>Net output</b>	"	<b>1,337,165</b>	<b>1,465,759</b>	<b>2,085,002</b>	<b>2,039,588</b>
Total employment (g)	Thousands	466.9	475.1	482.4	462.2
<b>Net output per head</b>	£	<b>2,864</b>	<b>3,085</b>	<b>4,322</b>	<b>4,413</b>
Payments for non-industrial services (h)					
Rents, hire of plant and machinery (j)	£ thousand	..	15,640	15,987	19,850
Commercial insurance premiums	"		10,863	11,755	14,924
Bank charges	"		2,026	1,537	1,269
Other non-industrial services	"		74,342	111,306	143,066
Licensing of motor vehicles (k)	"		1,174	1,344	1,261
Rates, excluding water rates (k)	"	17,810	31,119	38,140	
<b>Gross value added at factor cost</b>	"		<b>1,343,905</b>	<b>1,911,954</b>	<b>1,821,077</b>
<b>Gross value added at factor cost per head</b>	£		<b>2,829</b>	<b>3,963</b>	<b>3,940</b>

(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 9 per cent. For 1974, the comparable figures were 2 per cent and 7 per cent respectively.

(b) The figures for 1972 do not include receipts for repairs and maintenance.

(c) Not recorded separately for 1972.

(d) Included with sales of goods produced, work done and industrial services rendered.

(e) The figures for 1972 do not include revenue from rents for industrial buildings.

(f) The figures for 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 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 1972.

TABLE 1b

PA381.1 3

Output and costs, 1971-1975  
All United Kingdom establishments classified to the Motor vehicle manufacturing, trailers, caravans and freight containers industries (a)

	Unit	1971	1972	1973	1974	1975
Enterprises	Number	1,603	1,602	1,704	1,890	1,943
Establishments	"	1,892	1,886	1,976	2,135	2,196
Sales of goods produced, work done and industrial services rendered (b)	£ thousand	3,480,514	3,540,119	3,803,138	4,349,406	5,355,205
Capital goods produced for establishments' own use (c)	"			8,299	14,745	(d)
Non-industrial services rendered (e)	"			6,246	5,266	8,349
Goods merchanted or factored	"	107,913	178,708	322,272	546,267	
<b>Total sales and work done (b) (e)</b>	"	<b>3,480,514</b>	<b>3,648,032</b>	<b>3,996,390</b>	<b>4,691,689</b>	<b>5,909,821</b>
Increase during the year, work in progress and goods on hand for sale	"	15,702	16,855	65,072	147,142	66,399
<b>Gross output (b) (e)</b>	"	<b>3,496,215</b>	<b>3,664,888</b>	<b>4,061,462</b>	<b>4,838,832</b>	<b>5,976,219</b>
Purchases of materials for use in production, and packaging and fuel (c)	"	2,366,496	2,255,977	2,393,064	2,458,675	3,416,822
Purchases of goods for merchenting or factoring (c)	"			132,921	218,330	359,767
Increase during the year, stocks of materials, stores and fuel	"	-706	-6,838	60,283	74,115	6,346
Cost of industrial services received (f)	"	30,422	25,152	66,547	71,863	78,977
<b>Net output</b>	"	<b>1,098,591</b>	<b>1,376,921</b>	<b>1,529,213</b>	<b>2,164,078</b>	<b>2,127,001</b>
Total employment (g)	Thousands	483.1	480.6	492.5	501.7	481.5
<b>Net output per head</b>	£	<b>2,274</b>	<b>2,865</b>	<b>3,105</b>	<b>4,313</b>	<b>4,417</b>
Payments for non-industrial services (h)						
Rents, hire of plant and machinery (j)	£ thousand	..	..	16,222	16,848	21,040
Commercial insurance premiums	"			11,620	12,958	16,341
Bank charges	"			2,187	1,925	1,639
Other non-industrial services	"			76,899	116,544	148,107
Licensing of motor vehicles (k)	"			1,226	1,403	1,369
Rates, excluding water rates (k)	"	18,546	32,424	40,286		
<b>Gross value added at factor cost</b>	"		<b>1,402,513</b>	<b>1,981,977</b>	<b>1,898,218</b>	
<b>Gross value added at factor cost per head</b>	£		<b>2,847</b>	<b>3,950</b>	<b>3,942</b>	

(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 11 per cent. For 1974, the comparable figures were 2 per cent and 7 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 4

PA381.1 6

Analysis of establishments by size, 1975  
All United Kingdom establishments classified to the Motor vehicle manufacturing industry (a)

Size group (b)	Estab-lish-ments	Enter-prises (c)	Employment			Wages and salaries (e)			
			Total (b)	Opera-tives	Others (d)	Operatives		Others (d)	
						Total	per head	Total	per head
Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1 - 10	930	911	4,772	19,527	5,144	41,171	2,108	13,981	2,718
11 - 19	345	334	4,870						
20 - 49	264	257	7,968						
50 - 99	119	116	8,395						
100 - 199	101	90	14,813	11,754	3,039	24,898	2,118	8,295	2,729
200 - 299	42	38	10,320	8,128	2,185	18,266	2,247	6,153	2,816
300 - 399	21	18	7,141	5,467	1,674	12,566	2,298	4,948	2,956
400 - 749	472 <sup>63</sup>	43	24,774	18,955	5,817	49,549	2,614	18,235	3,135
750 - 999	19	18	15,919	12,106	3,813	31,813	2,628	12,195	3,198
1,000 - 1,499	21	16	26,428	19,532	6,896	50,878	2,605	24,113	3,497
1,500 - 1,999	13	10	21,671	16,033	5,638	43,123	2,690	17,560	3,115
2,000 - 2,499	6	6	13,352	10,677	2,675	29,740	2,785	9,536	3,565
2,500 - 3,999	7	6	21,027	16,804	4,215	47,559	2,830	13,830	3,281
4,000 - 7,499	4	4	24,612	18,394	6,218	46,049	2,503	20,701	3,329
7,500 and over	7	5	256,091	201,139	54,952	607,485	3,020	224,405	4,084
<b>Total</b>	<b>1,946</b>	<b>1,739</b>	<b>462,153</b>	<b>358,516</b>	<b>102,266</b>	<b>1,003,097(j)</b>	<b>2,798</b>	<b>373,952(j)</b>	<b>3,657</b>

- (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 £156,916 thousand. For 1974, the comparable figure was £119,920 thousand. In addition, the remuneration of outworkers on returns received was £133 thousand for 1974 and £199 thousand for 1975.

PA381.1 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	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
211,665	212,841	99,358	3,821	(h)	(h)	4,680	34,581
122,945	123,959	57,773	3,900	142,321(h)	3,487(h)	2,527	23,151
90,479	92,350	36,882	3,574	32,617	3,161	2,932	21,850
66,782	67,409	28,232	3,953	25,154	3,522	2,156	13,167
443,539	442,020	143,165	5,779	130,653	5,274	8,101	68,284
173,432	175,064	70,516	4,430	62,503	3,926	3,852	38,144
264,755	266,375	110,755	4,191	95,957	3,631	9,053	56,389
213,589	216,632	95,648	4,414	86,822	4,006	6,733	45,132
142,355	143,808	52,917	3,963	46,517	3,484	4,315	29,648
209,085	213,030	84,532	4,020	75,387	3,585	4,248	56,634
182,004	183,882	88,950	3,614	83,708	3,401	6,499	45,533
3,533,691	3,585,431	1,170,860	4,572	1,039,439	4,059	119,658	715,284
<b>5,654,320</b>	<b>5,722,800</b>	<b>2,039,588</b>	<b>4,413</b>	<b>1,821,077</b>	<b>3,940</b>	<b>174,754</b>	<b>1,147,797</b>

- (f) Comprises sales of goods produced (including capital goods manufactured, buildings constructed by establishments for their own use), work done, industrial and 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	863,151
Others	319,294

TABLE 5

PA381.1 8

Regional distribution of employment, net capital expenditure and net output, 1975  
All United Kingdom establishments classified to the Motor vehicle manufacturing industry (a)

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	Estimated net output £ thousand	Average number employed as a percentage of total average number employed in the industry in the region
Standard regions of England						
North	7.3	1.6	3,069	1.8	31,473	70.0
Yorkshire and Humberside	15.7	3.4	4,908	2.8	52,448	71.6
East Midlands	10.1	2.2	2,770	1.6	18,510	46.4
East Anglia	5.9	1.3	1,295	0.7	5,723	28.4
South East	138.7	30.0	42,942	24.6	82,891	16.1
South West	12.5	2.7	1,848	1.0	20,498	36.2
West Midlands	157.3	34.0	93,811	53.7	246,164	35.0
North West	75.5	16.3	15,894	9.1	88,360	28.4
England	423.1	91.5	166,536	95.3	546,068	29.8
Wales	18.4	4.0	5,021	2.9	36,602	71.3
Scotland	20.1	4.4	3,120	1.8	66,146	90.6
Great Britain	461.6	99.9	174,678	100.0	648,816	34.1
Northern Ireland	0.6	0.1	76	0.0	1,477	82.5
United Kingdom	462.2	100.0	174,754	100.0	2,039,588(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 £1,389,294 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

PA381.1 9

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1975 classified to the Motor vehicle manufacturing industry

Accounting year ended	Percentage of total returns received		Percentage of total number employed	
	per cent		per cent	
1975	April (a)	1.6	0.1	
	May	1.9	0.1	
	June	4.0	0.7	
	July	4.4	4.1	
	August	4.4	1.1	
	September	10.0	40.8	
	October	3.5	0.7	
	November	1.9	0.2	
	December	41.7	42.5	
1976	January	6.5	5.8	
	February	2.1	0.7	
	March (b)	18.0	3.2	
		<b>100.0</b>	<b>100.0</b>	

(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)  
Motor vehicle manufacturing industry, minimum list heading 381

Sex	Full-time		Part-time		All employees	
	per cent		per cent		per cent	
Male	87	—	87			
Female	11	2	13			
	<b>98</b>	<b>2</b>	<b>100</b>			

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 381 at June, 1975. In the 1975 Census of Production the employment of the Motor vehicle manufacturing industry represented 96 per cent of the employment of minimum list heading 331 as a whole.

TABLE 8

PA381.1 10

Sales of principal products of the Motor vehicle manufacturing 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 Motor vehicle manufacturing industry are published regularly in Business Monitor PQ381.1. Details of sales for 1974 will be found in the monitor for third quarter 1976 published February 1977 and for 1975 in the third quarter 1977 issue published April 1978.

Quarterly Business Monitors are available from HMSO by annual subscription.

TABLE 9

PA381.1 11

Purchases by establishments employing 100 or more persons, classified to the Motor vehicle manufacturing 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		
Iron		
Pig iron, including refined pig iron, and other irons for remelting	Th tonnes 8.4	2,717
	..	1,788
Castings	63.5	15,943
	..	151,986
Steel products		
Ingots, blooms, billets, slabs, (including sheet and plate mill slabs and sheet bars)	42.0	5,238
	..	2,230
Bars and rods (including wire rods), angles, shapes, sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares	178	27,834
	..	23,075
Plates 3mm thick and over	71.6	9,016
	..	3,716
Sheets under 3mm thick (including electrical sheets)	889	62,506
	..	45,550
Hoop and strip (including tapes of all thicknesses)	175	23,256
	..	31,290
Tin plate and blackplate	..	1,275
Forgings (excluding drop forgings)	41.7	10,472
	..	31,590
Drop forgings	179	44,972
	..	57,016
Castings	8.9	3,426
	..	25,485
Other steel products e.g. tubes and fittings, etc.	33.5	8,604
	..	33,705
Iron and steel scrap	120	4,779
Light metals and non-ferrous metals in all forms except finished goods, wire and scrap		
Aluminium and aluminium alloys, including castings	31.4	22,191
	..	28,137
Other light metals and non-ferrous metals and their alloys e.g. copper, cadmium, copper, brass, lead, solder, zinc, tin, nickel, etc.	29.5	19,165
	..	15,815
Wire and wire manufactures (excluding insulated wires and cables)		
Ferrous	..	4,841
Non-ferrous	..	2,372
Insulated wires, cables, strips and strands	..	16,878
Paint, varnish, lacquers and stains	Th litres 13,998	11,520
	..	5,580
Glues and adhesives including formulated adhesives (but excluding unformulated synthetic resins); polishing materials	..	5,885
Other inorganic and organic chemicals (including gases), chemical mixtures and compounds for specific end uses	..	4,064
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	..	4,374
Products wholly or mainly of plastics (excluding plastics hose and belting)	..	37,480
Leathercloth and decorative thermoplastic sheet	Th sq. metres 8,591	8,927
	..	7,466

TABLE 9 (continued)

PA381.1 12

	Quantity	Value
		£ thousand
Materials for use in production (continued)		
Textiles		
Woven fabrics (other than narrow fabrics) wholly or mainly of		
Cotton, linen or silk	Th sq metres 1,647	1,072
Wool	{ 83 ..	261 93
Man-made fibres (including glass fibres but excluding polypropylene and mixtures containing wool)	{ 3,855 ..	2,647 886
Jute or polypropylene	3,771	1,087
Man-made fibres containing wool	{ 4 ..	7 63
Woven and tufted floor coverings	..	7,922
Other textiles e.g. asbestos brake and clutch linings, narrow fabrics, etc.	..	13,407
Leather	..	696
Pottery, glass (including glass fibre), porcelain and other ceramics	..	19,623
Timber (excluding furniture and packaging materials)		
Sawn or planed but not further manufactured	{ Cubic metres 42,470 ..	1,878 741
Further manufactured than sawn or planed; cork manufactures	..	1,438
Plywood, blockboard, laminboard and battenboard	{ Th sq metres 447 ..	3,471 1,415
Paper and board (excluding stationery and packaging materials) e.g. hardboard, millboard, etc.	..	4,617
Rubber tyres and other natural or synthetic rubber products e.g. new covers for vehicles (tubeless and other), inner tubes for vehicles, etc., rubber sheeting, shock absorbers, fan belts and hoses including plastics hose and belting (but excluding replacement parts for the firms' own road vehicles)	..	91,458
Components and accessories of vehicles and tractors for incorporation in finished products (excluding replacement parts for the firms' own road vehicles)		
Bolts, nuts, screws, rivets, etc.	..	42,859
Ball and roller bearings and parts thereof	..	31,058
Precision chains	..	1,510
Springs		
Suspension (coil and leaf) and engine valve springs	..	23,189
Other springs	..	16,446
Wheels of pressed steel (other than for works tractors)	{ Thous 746 ..	7,225 10,014
Measuring instruments, gauges and control instruments (excluding those electrically operated)	..	2,954
Electrical machinery e.g. generators, transformers, switchgear, motors, etc.	..	5,493
Broadcast receiving and sound reproducing equipment e.g. radio and television receivers, tape recorders, etc.	..	2,860
Domestic electrical appliances e.g. stoves, refrigerators, cookers, etc.	..	1,222
Other electrical goods e.g. dynamos, magnetos, lighting, starting and ignition equipment (including lamps), batteries, accumulators, sparking plugs, electric horns, direction indicators, wind-screen wipers, pumps, electrically operated measuring instruments and parts, etc.	..	119,127
Metal pressings and components not elsewhere specified (other than for works tractors)	..	578,252
Lubricating oils and greases (i.e. mineral, animal and vegetable)	{ Th gal 7,374 ..	4,342 3,772

TABLE 9 (continued)

PA381.1 13

	Quantity	Value
		£ thousand
Materials for use in production (continued)		
Water charges	..	2,770
Stationery	..	7,925
Packaging materials (including materials 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)	..	3,495
Wrapping and packaging paper (excluding laminates) cut to size, ready for use	{ Th tonnes 0.1 ..	59 431
Other packaging products of paper and board e.g. fibreboard packing cases, moulded pulp products, labels, etc.	..	1,556
Packaging products wholly or mainly of wood, and wood for conversion into packaging products	..	6,044
Packaging products of plastics	..	527
All other packaging materials	..	752
Fuel and electricity		
Coal	..	8,559
Coke (including breeze and manufactured fuel)	..	3,042
Derv fuel and motor spirit	{ Th gal 13,320 ..	6,265 859
Fuel oil	{ 102,319 ..	17,821 5,014
Liquefied petroleum gases (e.g. propane, butane, etc.)	{ Th. tons 810 ..	998 701
Gas	{ Th therms 101,473 ..	5,077 2,350
Electricity	{ Th kWh 1,053,520 ..	12,708 11,561
All other fuels	..	860
Replacement parts and consumable tools		
Tyres and other spare parts for the firms' own road vehicles	..	1,034
Replacement parts for the firms' own machinery, plant and equipment	..	10,602
Consumable tools (including gauges)	..	31,602
Other purchases	..	60,827
<b>TOTAL VALUE OF PURCHASES (other than for merchanting or factoring)</b>		<b>2,028,708</b>

TABLE 10

PA381.1 14

Payments to other organisations for certain services received, 1974 classified to the Motor vehicle manufacturing industry  
Returns received in respect of establishments with 300 or more employees

	£ thousand
<b>Industrial services received</b>	<b>57,971</b>
Repairs and maintenance to	
Buildings	5,630
Road goods vehicles	2,543
Plant and machinery	28,748
Work done on materials given out	15,831
Other	5,219
<b>Non-industrial services received</b>	<b>123,827</b>
Rent of buildings, hire of plant and machinery	13,480
Commercial insurance premiums	9,560
Bank charges	940
Postage, telephone, telegrams, cables and telex	10,666
Transport	
Road	33,449
Rail and other means (excluding postal services)	7,259
Other	48,473

## 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, trade-marks, 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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PA381.1 Motor vehicle manufacturing

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