

83 Motor cycle, tricycle and pedal cycle manufacturing

This Report on the Motor Cycle, Tricycle and Pedal Cycle Manufacturing Industry relates to establishments engaged wholly or mainly in manufacturing and assembling motor cycles, scooters, mopeds, powered invalid carriages, tricycles, bicycles and sidecars; manufacturing parts and accessories for such vehicles (other than rough or semi-finished castings and forgings) when made wholly or primarily of metal and not reported elsewhere. Children's scooters, tricycles and bicycles and electrical accessories and other electrical equipment for vehicles are excluded.

This industry corresponds to minimum list heading 382 in the third edition of the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry corresponds to the Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing Industry (Part 63) in the Reports on the last detailed Census of Production for 1963, except that three wheel cars complete and chassis with engines therefor and parts and accessories therefor formerly included in this industry are now included in the report on the Motor Vehicle Manufacturing Industry (Part 82) and gears and gear wheels for motor cycles and pedal cycles included in the 1963 Report on the General Mechanical Engineering Industry (Part 52) are now included in this industry.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

There were no small establishments in this industry in Northern Ireland in 1963 and 1968.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions less disposals.

TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

	Unit	All establishments	
		1963	1968
Number of enterprises	No.	118	85
Number of establishments	"	130	96
Gross output	£'000	49,041	53,949
Net output	"	23,229	25,230
Net output per head	£	998	1,363
Sales and work done	£'000	49,494	52,035
		merchanted goods and canteen takings	892
Purchases	"	24,338	27,392
		materials for use in production and packaging and fuel	
	"	goods for merchandising and canteen purchases	756
	"	for work done on materials given out	199
Payments to other organisations	"	for transport	
	"	by road	573
	"	by rail and other means excluding postal services	65
Stocks and work in progress			
Total stocks and work in progress	"	- 1,126	+ 1,289
	"	at end of year	15,661
Goods on hand for sale	"	+ 249	+ 34
	"	at end of year	5,402
Work in progress	"	- 1,202	+ 988
	"	at end of year	4,996
Materials, stores and fuel	"	- 173	+ 267
	"	at end of year	5,263
Number employed on average during the year	Th.	23.3	18.5
	"	operatives	14.1
	"	other employees (d)	4.3
Wages and salaries	£'000	12,481	13,517
	"	of operatives	
	"	of other employees (d)	4,739
Capital expenditure (e)			
Total	"	650	1,623
New building work	"	81	143
Land and existing buildings (f)	"	- 596	- 27
Plant and machinery (f)	"	1,086	1,387
Vehicles (f)	"	78	120

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 4 per cent. of the total figures in which they were incorporated; of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 5 per cent. and 2 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	72	55
Average number employed		
Working proprietors	98	66
Other persons employed	609	423

Footnotes continued on page 83/2

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab-lish-ments	Enter-prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£'000	£'000	£
1-5	19	19	56	..	..	..
6-10	9	9	64	..	..	..
11-24	19	19	319	..	..	..
25-49	5	5	167	491	229	1,371
50-99	9	9	677	2,551	936	1,383
100-299	14	13	2,106	5,780	2,622	1,245
400 and over	8	3	14,738	42,652	20,278	1,376
Unsatisfactory returns	13	13	390	..	..	..
Total	96	85	18,517	53,949(c)	25,230(c)	1,363(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (d)	Oper-atives	Others (d)	Oper-atives	Others (d)
	Number	Number	£'000	£'000	£	£
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	141	15	98	15	692	1,030
50-99	525	150	388	148	739	985
100-299	1,687	414	1,457	434	863	1,049
400 and over	11,158	3,580	11,010	3,948	987	1,103
Unsatisfactory returns	..	..	..	..	..	..
Total	14,095(c)	4,335(c)	13,517(c)	4,739(c)	959(c)	1,093(c)

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

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

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	3	1	4
18 and over	71	25	96
All ages	74	26	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

Footnotes to Table 4.

- (a) One establishment employing fewer than 25 persons was included in a return for a larger establishment for both 1963 and 1968.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) Including for 1963 parts and accessories of three-wheeled vehicles (excluding tractors) sold separately.
- (d) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (e) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (f) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £49,000 in 1968. Similar information is not available for 1963.
- (g) Characteristic products relate only to sub-divisions of the industry.
- (h) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (i) Administrative, technical and clerical employees.
- (j) Excluding expenditure for establishments not yet in production.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

	Unit	Sub-divisions of the industry (b)				Total	
		Bicycles and tricycles and motor cycles, complete		Mechanically propelled invalid carriages (including parts) and parts of bicycles, tricycles and motor cycles (c)		1963	1968
		01, 02		03			
		1963	1968	1963	1968	1963	1968
Number of enterprises (d)	No.	13	10	32	18	44	28
Number of establishments	"	18	17	37	20	55	37
Gross output	£'000	37,659	45,414	9,063	6,178	46,722	51,592
Net output	"	17,622	20,884	4,508	3,244	22,130	24,128
Net output per head	£	1,010	1,350	950	1,447	998	1,363
Sales and work done	£'000	38,305	43,998	8,849	5,763	47,154	49,762
		goods produced and work done (e) (f)					
		merchanted goods and canteen takings					
Sales of characteristic products	"	27,433	33,782	5,843	3,820	(g)	(g)
Index of specialisation (h)	Per cent.	72	77	66	66	88	90
Purchases	£'000	19,055	23,816	4,133	2,379	23,187	26,195
		materials for use in production and packaging, and fuel					
		goods for merchandising and canteen purchases					
Payments to other organisations	"	82	12	182	178	264	190
		for work done on materials given out for transport					
		by road					
		by rail and other means excluding postal services					
Stocks and work in progress							
Goods on hand for sale	"	+ 238	+ 107	- 1	- 75	+ 237	+ 32
		change during year					
		at end of year					
Work in progress	"	- 1,118	+ 843	- 27	+ 102	- 1,145	+ 945
		change during year					
		at end of year					
Materials, stores and fuel	"	- 194	+ 298	+ 29	- 43	- 165	+ 255
		change during year					
		at end of year					
Number employed on average during the year	No.	17,442	15,466	4,744	2,242	22,186	17,708
		total including working proprietors					
		operatives					
		other employees (i)					
Wages and salaries	£'000	9,693	11,468	2,259	1,506	11,952	12,974
		of operatives					
		of other employees (i)					
Wages and salaries per head	£	701	978	597	835	678	959
		operatives					
		other employees (i)					
Capital expenditure (j)	£'000	23	135	54	2	77	137
New building work	"	*	-	*	16	20	16
Land and existing buildings	"	588	42	-	-	588	42
		acquisitions					
		disposals					
Plant and machinery	"	330	1,244	828	108	1,158	1,366
		acquisitions					
		disposals					
Vehicles	"	95	141	50	43	145	184
		acquisitions					
		disposals					

For notes to this table - see page 83/5

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Thousands	£'000	Thousands	£'000	Number	Number
02	Motor cycles and mechanically propelled invalid carriages and parts					
	Complete motor cycles (including mopeds and motor scooters)					
	49	2,998	15	670	*	*
	Mopeds (with engines not exceeding 50 c.c.) and scooters					
	Other motor cycles					
	21	2,425	14	1,351	*	*
	With engines not exceeding 250 c.c.					
	25	4,138	61	14,921	*	6
	Other					
	95	9,561	91	16,942	..	..
	Total motor cycles complete					
03	3	786	4	1,203	*	*
	Invalid carriages, mechanically propelled					
03	Parts and accessories of motor cycles and mechanically propelled invalid carriages sold separately (excluding electrical equipment and instruments)					
	Internal combustion engines					
	11	474	..	103	*	*
	..	137	..	937	*	*
	..	(b)	..	445	7	8
	..	297	..	374	5	6
	..	321	..	15	*	*
	..	(c)	..	217	..	..
	..	274	..	96	..	..
	5	217	..	54	..	..
	61.7	96	..	3,014	19	20
	..	54	..	36	..	..
	108	157	..	3,896	..	..
	..	36	..	704	10	10
	..	704	..	193	10	10
	Total parts and accessories of motor cycles and mechanically propelled invalid carriages (excluding electrical equipment and instruments)					
	..	6,663	..	5,081	..	..

Continued on next page

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Thousands	£'000	Thousands	£'000	Number	Number
01 Cycles (not mechanically propelled) and parts						
Complete bicycles with frames of 14 inches or more (excluding children's, toy and pavement bicycles), and adult tricycles with wheels of 20 inches or more (d)	2,163	19,567	1,518	15,632	10	10
03 Parts and accessories of cycles, sold separately						
Frames and parts (including tubing, forks, fork crowns, lugs and head fittings)	..	825	..	489	8	8
Handlebars and bends, stems and parts thereof (including grips); brakes and brake controls and parts thereof	..	283	..	595	6	6
Wheels (with or without fitted tyres) and parts of wheels, not elsewhere specified (except tyres sold separately)	..	522	..	618	9	10
Hubs other than for variable gears (including coaster hubs)	..	165	..	3,577	18	18
Variable gears (including all forms of multi-speed gears) and free-wheel mechanisms	..	1,451	..	3,577	18	18
Saddles and saddle covers	..	2,888	..	3,577	18	18
Parts and accessories, not elsewhere specified	..	2,888	..	3,577	18	18
Total cycles (not mechanically propelled) and parts	..	25,699	..	20,910	..	..
Other products	..	496	..	100	*	*
Waste products	Th.tons		Th.tons			
Scrap iron and steel	24.7	199	18.0	150	18	19
	..	4	..	57		
Other waste products including scrap metal other than iron and steel	..	108	..	116	10	10
Work done other than repair work	..	1,274	..	2,263	6	6
Total		44,791		46,822	..	..
Sales in other industries (see Table 6)		3,126		1,843	..	..
Principal products of this industry sold by establishments in the industry		41,665		44,979	28	30(e)

For notes to this table - see page 83/9

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	1963	1968		
	Value	Value	Entries	Principal industries in which produced (a)
	£'000	£'000	Number	
Complete motor cycles (including mopeds and motor scooters), mechanically propelled invalid carriages and complete bicycles with frames of 14 inches or more (excluding children's toy and pavement bicycles), and adult tricycles with wheels of 20 inches or more	1,170	321	*	64,70,82,147
Parts and accessories of motor cycles and mechanically propelled invalid carriages sold separately (excluding electrical equipment and instruments)	1,667	1,137	24	66,78,82,97
Parts and accessories of cycles sold separately	288	385	10	79,82,97,147
Total	3,126	1,843	..	

(a) The references given are to the list of industries at the front of this report.

Footnotes to Table 5.

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.
- (b) Included in 'Other parts and accessories' for 1963.
- (c) Gears and gear wheels for motor cycles and for mechanically propelled invalid carriages were not separately distinguished in 1963, and were included in the report on the General Mechanical Engineering industry (Part 52).
- (d) For 1963 childrens bicycles were described as having frames of less than 15 inches and tricycles with wheels less than 14 inches. Childrens bicycles and tricycles are included in the 1968 report on the 'Toys, games, childrens carriages and sports equipment' industries (Part 147).
- (e) The figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	1963	1968
	Value	Value
	£'000	£'000
Motor vehicles and motorised caravans complete and parts, and accessories of motor vehicles	487	362
Non-electrical machinery, parts, accessories and other mechanical engineering products	1,514	456
Miscellaneous metal manufactures	345	997
Toys and sports equipment and parts, and invalid carriages (not mechanically propelled) and perambulators, complete and parts	1,614	2,220
Other products	1,342	673
Repair work	171	72
Services rendered to other organisations (a)	14	3
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	451	753
Canteen takings	26	100
Total	5,966	5,636

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Materials for use in production				
Iron castings	1.2	222	1.9	518
	..	291	..	354
Steel				
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares	20.9	1,472	19.9	1,534
	..	286	..	..
Sheets under 3 mm. thick (including electrical sheets)	7.0	410	8.6	542
	..	231	..	..
Tinplate and blackplate (a)				
Forgings (including drop forgings)	3.1	597	8.5	933
	..	..	..	93
Castings	..	41	..	25
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fitting for tubes	9.2	1,278	12.1	1,437
	..	..	..	216
Other	21.5	1,748	16.3	1,578
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys	1.1	441	1.9	789
	..	354	..	428
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (b)	1.3	343	1.0	341
	..	..	..	92
Zinc and alloys of zinc	..	(c)	1.3	997
Wire and wire manufactures (excluding insulated wires and cables bought as such)				
Single wire of steel	..	197	..	379
Other wire and wire manufactures	..	152	..	150
Bolts, rivets, nuts and washers, screws, nails, tacks etc	..	397	..	653
Paint and varnish (including lacquers and stains)	Th. gal.		Th. gal.	
	187	232	128	163
	..	33	..	26
Rubber tyres and other rubber products				
New covers				
For motor cycles, scooters and mechanically propelled invalid carriages	..	307	..	364
For pedal cycles (including mopeds)	..	1,031	..	880
Inner tubes	..	696	..	485
Other rubber manufactures	..	409	..	497
Leathercloth and decorative thermoplastic sheet	..	201	..	217
Vehicle components and accessories for incorporation in the finished products of the industry				
Complete engines for motor cycles and mechanically propelled invalid carriages and auxiliary engines for pedal cycles, including parts thereof (other than electrical) not elsewhere specified	Number			
	37,540	647	..	345
	..	222	..	..
Complete engines	..	..	..	..
Parts of engines (other than electrical) not elsewhere specified	..	187	..	349

Continued on next page

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
Vehicle components and accessories for incorporation in the finished products of the industry (continued)				
Precision chain (eg transmission and timing)	..	428	..	504
Ball and roller bearings and parts	..	264	..	300
Springs other than laminated	..	150	..	231
Instruments and parts (including speedometers and clocks) other than electrical	..	211	..	294
Plastic goods moulded and fabricated	..	269	..	233
Electrical equipment and electrically operated instruments and equipment, new or reconditioned				
Electric motors, separately purchased	-	-	}	28
Dynamos and magnetos, separately purchased	..	74		
Other electrical equipment	..	835		
Insulated wires and cables	..	155	}	3,371
Other vehicle components and accessories	..	2,416		
Lubricating oils and greases (including cutting oils and emulsions)	Th. gal. 369	89	Th. gal. 554	129
	{ 1.0 ..	{ 4 6	{ 1.0	{ 5
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	226	..	28
Other	..		..	855
All other materials for use in production	..	3,838	..	2,522
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard and fibreboard packing cases	..	339	..	201
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)	..	69	..	40
Timber				
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates	..	54	..	130
	Th. cu. ft.		Th. cu. ft.	
Timber (sawn or planed) for manufacture into packing cases, etc	{ 270 ..	{ 138 44	{ 368	{ 204
All other packaging materials	..	50	..	102
Fuel and electricity (e)				
Coal	Th. tons 49.7	220	Th. tons 42.0	179
Coke (including screenings) and manufactured fuel	1.9	17	..	4
	Th. gal.		Th. gal.	
Derv fuel and motor spirit for use in road vehicles	{ 266 ..	{ 55 10	{ 356 ..	{ 89 9

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Fuel and electricity (e) (continued)	Th. gal.	£'000	Th. gal.	£'000
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	{ 809 ..	{ 36 6	{ 1,904	{ 81
Gas	Th. therms 7,429	343	Th. therms 5,306	306
Electricity	Th. kWh 66,988	414	Th. kWh 96,900	589
All other fuels	..	(d)	..	14
Total cost of materials and fuel		23,187		26,195
Goods purchased for merchandising		383		591
Canteen purchases		63		132
Total cost of purchases		23,632		26,919

(a) Terneplate was specifically included for 1963.

(b) Cadmium copper was not specifically excluded for 1963.

(c) Included with 'All other materials for use in production' in 1963.

(d) Not separately recorded for 1963.

(e) Owing to the risk of disclosure of information relating to individual firms the quantity of electricity generated in firms' own establishments in 1963 cannot be given. None was recorded for 1968.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	189	174
Transport costs			
Wages and salaries	£'000	171	183
Derv fuel and motor spirit	"	65	98
Tyres and other spare parts for road goods vehicles	"	..	28
Payments to other organisations for transport	"	531	548
	"		63
Costs of operating road goods vehicles			
Insurance	"	11	10
Vehicle licences	"	11	17
Depreciation	"	65	79
Payments to other organisations for repairs and maintenance	"	22	68
Total	"	875(a)	1,094

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	Amounts payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	100	87
Road goods vehicles	22	68
Plant, machinery and other capital equipment	137	233
Insurance, licensing and depreciation of road goods vehicles (b)	87	106
Rates, excluding water rates	314	418
Hire of plant and machinery	18	27
Postage, telephone, telegrams, cables and telex (c)	135	161
Total	813	1,100

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

(c) Excluding Telex for 1963.

TABLE 13 Percentage analysis of twelve-month period covered by returns from larger establishments, 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	3.3	0.9
May	0.0	0.0
June	0.0	0.0
July	16.7	82.7
August	3.3	0.6
September	6.7	3.0
October	0.0	0.0
November	0.0	0.0
December	46.7	9.3
1969		
January	13.3	1.8
February	0.0	0.0
March	10.0	1.7
April (b)	0.0	0.0
	100	100

(a) From 6 April.

(b) To 5 April.