

56 Mechanical handling equipment

This Report on the Mechanical Handling Equipment Industry relates to establishments engaged wholly or mainly in manufacturing mechanical handling equipment and parts thereof including aerial ropeways, bucket wheel reclaimers; cableways and cableway excavators; conveyors and feeders (other than underground); drag scrapers; elevators other than agricultural machinery; live storage racks; overhead runways (powered), suspension railways and telfers; pallet hoists; palletisers; pneumatic and hydraulic handling plant; portable and mobile conveyors and elevators; hoists (hydraulic, mechanical and pneumatic); stacking machines; tippers and tippers other than for road vehicles; wagon marshalling equipment; cranes of all types including derrick cranes, dockside and gantry jib cranes, electric overhead travelling cranes, power operated mobile cranes, steelworks cranes, tower cranes and rail-mounted cranes; transporters, passenger and goods lifts; escalators and passenger conveyors; electric hoists using wire rope or chain; hand-operated chain, rope and lever hoists, pulley blocks and sheave blocks; power and hand-operated travelling carriages; lifting jacks and tackle; capstans; winches and windlasses including builders' hoists; powered industrial trucks and industrial tractors including fork-lift and pallet trucks; elevating and fixed platform trucks and other industrial trucks and tractors. Colliery winding gear, conveyors for underground mines and drag line excavators are excluded.

This industry corresponds to minimum list heading 337 in 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 Mechanical Handling Equipment Industry (Part 47) in the Reports on the last detailed Census of Production for 1963, except that powered industrial trucks and industrial tractors (of the type used in factories, warehouses, railway stations and docks) complete, and parts (excluding engines), were shown in the Report on Motor Vehicle Manufacturing (Part 62). In addition the treatment of parts has been altered considerably for 1968 for this and other mechanical engineering industries. The distinction made in the 1963 reports between parts sold in association with the sale of complete machines, and other parts sold, has been discontinued for 1968 and all parts are now treated in the same way as the complete machines for classification, ie as principal products of their respective mechanical engineering industries and shown in Table 5.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) and to take account of the different treatment of parts adopted for 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.

METHOD OF CLASSIFICATION

In classifying returns to this industry the value of unspecified work done (other than structural and installation work), including repair work, was not taken into account unless it amounted to 80 per cent. or more of the total output of the return in which case the return was classified to General Mechanical Engineering (Part 66). The amount charged for erecting and installing machinery and plant (other than air-conditioning, heating and ventilating plant) was treated as part of the selling value of these items in determining the industrial classification of returns. The standard classification procedure as outlined in the notes on page (i) was further modified where a return would have been classified to one of the mechanical engineering industries relating to a specific class of machinery (viz, Parts 50 to 66) but where the sales of the principal products of the industry concerned (including parts) accounted for less than 20 per cent. of the total output: in such cases the return was classified to the residual sub-division of the General Mechanical Engineering Industry (Part 66). The classification of returns to sub-divisions of the industry, shown in Table 4, followed the standard procedure.

The sales of characteristic products shown in Table 4 include, besides the value of complete mechanical handling equipment and parts which were taken into account in classifying returns, the value of installation work.

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.	382	512	
Number of establishments	"	469	637	
Gross output	£'000	147,099	255,401	
Net output	"	75,820	133,220	
Net output per head	£	1,360	2,140	
Sales and work done	{ goods produced and work done (c) merchanted goods and canteen takings	£'000	141,877	223,963
		"	7,534	11,417
Purchases	{ materials for use in production and packaging and fuel goods for merchandising and canteen purchases	"	55,450	103,096
		"	6,297	9,625
Payments to other organisations	{ for work done on materials given out for transport by road by rail and other means excluding postal services	"	8,007	10,278
		"	1,336	1,433
		"		451
Stocks and work in progress	"	- 2,500	+ 22,723	
Total stocks and work in progress	{ change during year at end of year	"	67,686	124,093
		"	- 216	+ 27
Goods on hand for sale	{ change during year at end of year	"	4,145	10,293
		"	- 2,096	+ 19,994
Work in progress	{ change during year at end of year	"	46,820	85,914
		"	- 189	+ 2,702
Materials, stores and fuel	{ change during year at end of year	"	16,721	27,886
		Th.	55.7	62.2
Number employed on average during the year	{ total, including working proprietors operatives other employees (d)	"	38.1	40.8
		"	17.3	21.0
		£'000	28,394	43,580
Wages and salaries	{ of operatives of other employees (d)	"	15,596	25,725
		"	3,500	5,849
Capital expenditure (e)	"	1,157	1,600	
Total	"	32	- 333	
New building work	"	1,900	3,688	
Land and existing buildings (f)	"	411	893	
Plant and machinery (f)	"			
Vehicles (f)	"			

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 8 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 1 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	202	346
Average number employed:		
Working proprietors	288	337
Other persons employed	2,165	3,731

Footnotes continued on page 56/2.

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	74	73	252	..	..	..
6-10	73	72	590	..	..	..
11-24	163	152	2,941	..	..	..
25-49	73	67	2,787	10,812	5,287	1,897
50-99	71	64	5,052	19,312	9,620	1,904
100-299	88	73	15,684	61,320	30,525	1,946
300-399	19	16	6,486	22,062	12,086	1,863
400-749	19	16	10,691	45,233	25,868	2,420
750-999	3	3	2,385	9,889	5,136	2,153
1,000 and over	8	8	13,913	65,452	33,529	2,410
Unsatisfactory returns	46	45	1,458	..	..	..
Total	637	512	62,239	255,401(c)	133,220(c)	2,140(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	1,993	763	2,143	998	1,075	1,308
50-99	3,662	1,361	3,840	1,701	1,049	1,250
100-299	10,362	5,294	10,459	6,559	1,009	1,239
300-399	4,477	2,003	4,669	2,382	1,043	1,189
400-749	6,988	3,703	7,300	4,383	1,045	1,184
750-999	1,385	1,000	1,586	1,170	1,145	1,170
1,000 and over	8,657	5,256	10,131	6,509	1,170	1,238
Unsatisfactory returns	..	..	..	..	..	..
Total	40,763(c)	21,041(c)	43,580(c)	25,725(c)	1,069(c)	1,223(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	4	1	5
18 and over	83	12	95
All ages	87	13	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) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 15 establishments in 1968 and 19 in 1963.
- (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) 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.
- (d) 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).
- (e) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £63,000 in 1968. Similar information is not available for 1963.
- (f) Characteristic products relate only to sub-divisions of the industry.
- (g) 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.
- (h) Progress payments received for work in progress in 1968 from United Kingdom customers were recorded as £30,403,000 at the beginning of year and £43,064,000 at the end of year; and from overseas customers £1,019,000 at the beginning of year and £1,461,000 at end of year. Similar information is not available for 1963.
- (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)				Sub-divisions of the industry (b)						Total			
		Conveyors, aerial ropeways, etc		Cranes and transporters		Lifts and escalators	Lifting and winding devices		Powered industrial trucks and industrial tractors						
		10		20		30	40		50						
		1963	1968	1963	1968	1963	1968	1963	1968	1963	1968				
Number of enterprises (c)	No.	80	97	34	26	32	28	30	28	17	28	189	200		
Number of establishments	"	100	118	47	45	70	62	34	36	23	35	274	296		
Gross output	£'000	44,488	64,492	29,857	46,891	26,563	49,299	19,277	30,535	19,449	43,538	139,634	234,756		
Net output	"	23,449	36,162	15,597	23,161	16,636	28,064	8,783	15,452	7,507	19,611	71,972	122,451		
Net output per head	£	1,372	2,202	1,318	1,888	1,439	2,245	1,259	1,993	1,380	2,372	1,360	2,140		
Sales and work done	{ goods produced and work done (d)(e) { merchanted goods and canteen takings	£'000	43,542	58,083	29,831	44,753	29,538	45,266	14,676	18,853	17,090	38,903	134,677	205,859	
Sales of characteristic products	"	2,968	3,900	1,263	1,587	103	45	627	1,250	2,191	3,711	7,151	10,494		
Index of specialisation (g)	Per cent.	70	73	81	78	23,156	36,712	9,152	11,421	15,111	35,394	(f)	(f)		
Purchases	{ materials for use in production and packaging, and fuel { goods for merchenting and canteen purchases	£'000	15,226	22,020	12,038	21,109	9,923	20,946	5,772	9,764	9,678	20,924	52,636	94,763	
Payments to other organisations	{ for work done on materials given out { for transport { by road { by rail and other means excluding postal services	"	2,574	3,310	1,033	1,378	116	48	448	991	1,806	3,120	5,978	8,847	
Stocks and work in progress		"	2,563	2,849	537	852	195	534	3,986	4,660	320	553	7,601	9,448	
Goods on hand for sale	{ change during year { at end of year	"	461	105	362	104	168	50	128	94	149	191	61	1,268	414
Work in progress (h)	{ change during year { at end of year	"	- 139	- 21	+ 27	+ 4	+ 8	+ 19	+ 46	- 8	- 146	+ 30	- 205	+ 25	
Materials, stores and fuel	{ change during year { at end of year	"	1,350	1,918	845	2,367	241	386	246	682	1,252	4,108	3,935	9,461	
Number employed on average during the year	{ total including working proprietors { operatives { other employees (i)	No.	- 1,883	+ 2,530	- 1,263	+ 546	- 3,086	+ 3,968	+ 3,928	+10,440	+ 314	+ 893	- 1,990	+18,378	
Wages and salaries	{ of operatives { of other employees (i)	£'000	8,814	14,194	7,964	11,094	9,952	19,735	15,425	29,498	2,288	4,448	44,444	78,970	
Wages and salaries per head	{ operatives { other employees (i)	£	- 216	+ 374	- 290	+ 101	+ 475	+ 534	- 160	+ 553	+ 12	+ 921	- 179	+ 2,483	
Capital expenditure (j)		No.	3,723	5,429	3,425	6,787	3,875	4,114	1,894	2,880	2,956	6,423	15,872	25,632	
New building work		"	17,097	16,421	11,837	12,267	11,564	12,499	6,976	7,754	5,441	8,267	52,915	57,208	
Land and existing buildings	{ acquisitions { disposals	"	11,096	10,800	8,599	8,104	8,261	8,943	5,162	5,262	3,196	4,560	36,314	37,669	
Plant and machinery	{ acquisitions { disposals	"	5,957	5,572	3,227	4,157	3,284	3,549	1,796	2,475	2,234	3,690	16,498	19,443	
Vehicles	{ acquisitions { disposals	"	8,260	11,625	6,020	7,963	6,494	10,244	3,859	5,724	2,473	4,716	27,106	40,272	
		"	5,372	7,212	2,723	4,853	3,043	4,367	1,888	3,238	1,859	4,102	14,884	23,771	
		"	744	1,076	700	983	786	1,145	748	1,088	774	1,034	746	1,069	
		"	902	1,294	844	1,167	927	1,230	1,051	1,308	832	1,112	902	1,223	
		"	301	331	138	180	383	210	226	445	50	306	1,099	1,471	
		"	54	53	95	4	37	8	6	100	-	136	192	301	
		"	16	114	118	18	13	197	11	230	4	48	162	607	
		"	541	1,063	533	670	433	390	365	867	174	716	2,047	3,705	
		"	62	115	138	82	3	20	36	78	5	20	244	315	
		"	179	408	105	172	104	198	61	157	153	300	602	1,234	
		"	63	144	58	63	30	40	15	49	46	117	212	413	

For notes to this table - see page 56/5.

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
Mechanical handling equipment (excluding construction and earth-moving equipment, and mining machinery)		£'000		£'000	Number	Number
New						
10 Conveyors, aerial ropeways, etc						
Complete						
Aerial ropeways, cableways and cableway excavators, overhead runways (powered), suspension railways and telfers and drag scrapers	..	1,709	..	629	16	17
Conveyors, feeders and elevators, including skip hoists, (other than agricultural)	..		..	37,382	243	262
Hoists (hydraulic, mechanical and pneumatic), including pallet hoists, but excluding builders' hoists and hand-operated and electric hoists	..	32,016(b)	..	5,268	50	50
Palletisers, live storage racks, pneumatic and hydraulic handling plant, tipplers and tippers (other than for road vehicles, wagon marshalling equipment, bucket wheel reclaimers and stacking machines)	..		..	6,129	66	68
Parts	..	6,022	..	6,328	113	118
Total conveyors and aerial ropeways, etc, complete and parts		39,746		55,735	..	..
20 Cranes and bridge transporters						
Complete						
Jib	Number		Number			
Derrick (Scotch and guy)	{ 71 ..	{ 267 147	{ 20	{ 310	{ *	{ *
Other fixed base (including wall and fixed base mono-tower)	599	1,322	469	1,188	15	19
Travelling						
Rail wheel mounted	{ 188 ..	{ 3,935 1,681	{ 155 ..	{ 2,951 193	{ 9	{ 13
Self-propelled road wheel and track mounted	1,785	10,296	1,722	18,462	14	18
Overhead travelling (including bridge transporters and goliath cranes)	{ 3,211 ..	{ 8,773 3,177	{ 2,482	{ 14,806	{ 40	{ 46
Tower cranes of all types	..	699	60	1,092	5	5
Other cranes and bridge transporters	..		3,241	1,385	17	18
Parts	..	5,187	..	6,405	72	88
Total cranes and bridge transporters, complete and parts		35,485		46,793	..	..

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
Mechanical handling equipment (excluding construction and earth-moving equipment, and mining machinery) (continued)						
New (continued)						
30 Lifts, escalators and passenger conveyors						
Complete						
Lifts for all purposes (passenger and goods)	6,175	12,456(c)	8,528	19,030	41	46
Escalators and passenger conveyors (d)	152	837(c)	138	1,226	5	6
Parts	..	3,774	..	5,780	43	47
Total lifts, escalators and passenger conveyors, complete and parts		17,067		26,036	..	..
40 Lifting and winding devices						
Complete						
Hoists and hoist blocks (e)	{ 9,973 ..	{ 2,365 798	{ 22,732 ..	{ 3,108 1,629	{ 40	{ 43
Pulley blocks, sheave blocks and power and hand-operated travelling carriages (f)	{ 27,602 ..	{ 754 96	{ 36,757 ..	{ 628 492	{ 20	{ 21
Lifting jacks	..	3,751	..	4,358	25	26
Capstans, winches and windlasses	{ 6,877 ..	{ 3,555 3,204	{ 7,310 ..	{ 3,020 2,109	{ 37	{ 39
Parts	..	2,066	..	3,832	67	70
Total lifting and winding devices, complete and parts		16,589		19,177	..	..
50 Powered industrial trucks and industrial tractors (of the type used in factories, warehouses, railway stations and docks)						
Complete						
Trucks						
Fork lift (including reach and straddle trucks)						
Electrically operated	4,055	7,330	8,792	15,831	26	27
With internal combustion engines	2,074	4,126	4,847	13,212	14	16
Platform and other						
Electrically operated	1,882	1,460	2,671	2,352	20	21
With internal combustion engines	..	389	1,081	2,261	6	6
Industrial tractors	465	660	7,049	8,526	13	13
Parts (excluding engines)	..	3,874	..	11,551	71	78
Total powered industrial trucks and industrial tractors, complete and parts		17,838		53,734	..	..

Continued on next page.

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
Mechanical handling equipment (excluding construction and earth-moving equipment, and mining machinery) (continued)		£'000		£'000	Number	Number
Mechanical handling equipment reconditioned, complete and parts	..	767	..	517	12	14
Other products	..	305	..	143	6	7
Waste products	Th. tons		Th. tons			
Scrap metals						
Iron and steel	{ 25.7	202	{ 25.3	222	81	92
	..	47	..	53		
Brass	0.3	36	..	56	25	27
Copper	0.2	24	..	10	12	12
Other scrap metals	{ 0.2	3	{ ..	36	16	17
	..	42	..			
Other waste products	..	-	..	5	9	9
Mechanical handling equipment erected and installed	..	10,576(c)	..	15,533	32	48
Total		138,727		218,050	..	..
Sales in other industries (see Table 6)		28,789		49,157	..	..
Principal products of this industry sold by establishments in the industry		109,938		168,893	200	245(g)

(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) Including unclassified mechanical handling equipment for 1963.

(c) Revised figure.

(d) For 1963 described as 'Escalators' only.

(e) For 1963 described as 'Electric hoist blocks and builders' hoists'.

(f) For 1963 described as 'Pulley blocks, hand-operated'.

(g) This 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 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			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Mechanical handling equipment (excluding construction and earth-moving equipment, and mining machinery)		£'000		£'000	Number	
New						
Conveyors, aerial ropeways, etc						
Complete						
Aerial ropeways, cableways and cableway excavators, overhead runways (powered), suspension railways and telfers and drag scrapers	..	650	..	141	7	64
Conveyors, feeders and elevators, including skip hoists, (other than agricultural)	..		..	8,349	174	(b)
Hoists (hydraulic, mechanical and pneumatic), including pallet hoists, but excluding builders' hoists and hand-operated and electric hoists	..	7,076	..	1,227	26	32,63,64,82
Palletisers, live storage racks, pneumatic and hydraulic handling plant, tippers and tipplers (other than for road vehicles, wagon marshalling equipment, bucket wheel reclaimers and stacking machines)	..		..	825	36	50,61,64,71
Parts	..	2,589	..	2,918	79	58,64,66,97
Total conveyors, aerial ropeways, etc, complete and parts		10,314		13,460	..	
Cranes and bridge transporters						
Complete						
Jib					Number	
Derrick (Scotch and guy) and other fixed base (including wall and fixed base mono-tower)	..	309	98	249	7	55,62,64,66
Travelling						
Rail wheel mounted	..	3,082	..	614	*	46,65,66
Self-propelled road wheel and track mounted	Number 345	2,151	238	3,575	7	55,58,82
Overhead travelling (including bridge transporters and goliath cranes)	..	1,627	113	2,429	18	55,63,64,97
Tower cranes of all types and other cranes and bridge transporters	..	174	..	1,352	10	46,55,64
Parts	..	1,153	..	1,847	50	55,58,64,65
Total cranes and bridge transporters, complete and parts		8,497		10,066	..	

Continued on next page.

TABLE 6 (continued)

	1963		1968			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
Mechanical handling equipment (excluding construction and earth-moving equipment, and mining machinery) (continued)		£'000		£'000	Number	
New (continued)						
Lifts for all purposes (passenger and goods) and escalators and passenger conveyors						
Complete	..	826	..	512	15	63,64,97,134
Parts	..	321	..	1,336	23	59,60,64,144
Total lifts and escalators and passenger conveyors, complete and parts		1,147		1,848	..	
Lifting and winding devices						
Complete			Number			
Hoists and hoist blocks			{ 358 ..	{ 84 1,496	{ 17	55,71,82,97
Pulley blocks, sheave blocks and power and hand-operated travelling carriages	..	2,421	{ 6,510 ..	{ 121 430 1,012	{ 8 18	63,66 55,71,72,80
Capstans, winches and windlasses	..	1,338	..	568	16	63,64,66,82
Lifting jacks	..	656	..	1,034	41	55,61,63,71
Parts						
Total lifting and winding devices, complete and parts		4,414		4,745	..	
Powered industrial trucks and industrial tractors (of the type used in factories, warehouses, railway stations and docks)						
Complete						
Trucks						
Fork lift (including reach and straddle trucks)						
Electrically operated			1,710	2,830	13	50,82,85,97
With internal combustion engines	..	895	944	3,326	9	55,65,82
Platform and other	..	555	..	386	11	51,53,58,82
Industrial tractors	..	226	6,279	7,386	7	53,81,82
Parts (excluding engines)	..	1,080	..	4,463	54	50,55,81,82
Total powered industrial trucks and industrial tractors, complete and parts		2,755		18,392	..	
Mechanical handling equipment, reconditioned, complete and parts	..	227	..	97	9	51,52,64
Mechanical handling equipment erected and installed	..	1,434	..	549	9	
Total		28,789		49,157	..	

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

(b) Production is widely distributed.

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
Iron castings in the rough or machined	686	440
Mechanical engineering products		
Agricultural machinery (other than tractors), complete machines and parts	211	554
Metal-working machine tools, complete and parts	101	69
Pumps and valves, complete and parts	944	801
Construction and earth moving equipment, complete and parts	1,236	4,329
Mining machinery		
Conveyors, underground, parts	299	167
Other, complete and parts	727	682
Space-heating, ventilating and air-conditioning equipment, complete and parts	130	500
Food and drink processing machinery, complete machines and parts	235	1,055
Miscellaneous (non-electrical) machinery		
Chemical and petro-chemical drying machinery, complete	63	163
Other machinery, complete and parts	2,451	3,503
Industrial (including process) plant and steelwork		
Furnaces and kilns, complete and parts	141	89
Gas making plant, parts	336	266
Iron, steel and non-ferrous metal works plant, complete and parts	375	201
Other plant and steelwork, complete and parts	1,206	1,482
Fabricated iron and steelwork		
Constructional (for buildings, bridges, etc)	1,673	629
Other fabricated iron and steelwork		554
Other and unclassified engineering products	741	1,181
Shipbuilding and marine engineering products	450	1,159
Miscellaneous metal manufactures	120	314
Other products	4,676	3,752
Work done		
Building and civil engineering work carried out in Great Britain including the erection of constructional steelwork and the erection and installation of air-conditioning, heating and ventilating plant, but not of complete process plant	266	158
Machinery and plant, other than mechanical handling equipment, erected and installed	463	138
Research and development work done for customers, including Government Departments, for which payment is receivable	..	102
Repair and jobbing work	6,195	12,145
Other work done	347	893

Continued on next page.

TABLE 7 (continued)

	1963	1968
	Value	Value
	£'000	£'000
Services rendered to other organisations (a)	667	1,637
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	6,872	10,183
Canteen takings	279	311
Total	31,890	47,460

(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				
Pig iron, including refined pig iron and other irons for re-melting	9.0	212	3.9	119
Castings	25.9	2,050	36.1	3,152
	..	208		
Steel				
Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars)	4.9	224	3.8	193
			..	210
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares	110	6,212	112	6,705
			..	1,025
Plates, 3 mm. thick and over	50.5	2,485	74.0	4,017
Sheets under 3 mm. thick (including electrical sheets)	14.1	745	20.7	1,449
Hoop and strip (including tape of all thicknesses)	1.3	81	..	20
Forgings (except drop forgings)	4.0	542	6.8	1,005
			..	136
Castings	14.3	1,997	15.3	2,926
Tyres, wheels and axles (rail type)	0.7	78	..	725
Drop forgings	2.7	387	3.4	537
	..	72	..	105
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc)	8.5	852	6.7	766
	..	144	..	1,450
Other	2.2	204	2.8	268
	..	57	..	61
Precision chain (eg transmission and timing)	..	409	..	909
Springs, laminated and other types	..	159	..	245
Steel wire and wire manufactures (excluding insulated wires and cables)				
Wire (single wire)	..	41	..	46
Wire manufactures (including wire cables and ropes and stranded wire of two or more ply)	..	490	..	948
Ferro-alloys	..	20	..	121
Iron and steel scrap	..	124	..	126
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys	..	703	1.9	778
Brass and other copper alloys (including nickel silver and cupro nickel, but excluding all other nickel alloys and cadmium copper)	1.2	433	1.1	733
	..	78		
Copper (including cadmium copper) (a)	0.2	58	0.5	310
Non-ferrous metal wire (single wire, not insulated)	..	104	..	198
Glass in all forms (including finished parts)	..	(b)	..	92
General chemicals (c)				
Inorganic (including inorganic gases)			..	120
Organic (including organic gases)	..	100	..	24
Other (eg mixtures of inorganic and organic chemicals)			..	19
Paint and varnish (including lacquers and stains)	182	277	346	564
	..	89		

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	..	70	..	163
Refractory materials	..	32	..	36
Manufactures wholly or mainly of rubber (including synthetic rubber), balata and gutta-percha, including sheeting, but excluding replacement parts for your own machinery, plant, vehicles, etc	..	1,011	..	1,609
Timber				
Softwood, sawn or planed but not further prepared or manufactured	..	106	Th. stds. 0.6	75
			..	20
Hardwood, sawn or planed, but not further prepared or manufactured	Th. cu. ft. 34.1	51	Th. cu. ft. 22.3	40
	..	17	..	137
Plywood, including blockboard, laminboard and battenboard	Th. sq. ft. 428	78	Th. sq. ft. 313	56
			..	7
Woven piece goods (other than narrow fabrics)	..	(b)	..	28
Asbestos in all forms (including finished parts)	..	25	..	116
Other thermal insulating materials	..	15	..	40
Insulated wires, cables, strips and strands	..	626	..	1,206
Bolts, rivets, nuts and washers, screws, nails, tacks, etc	..	1,017	..	1,477
Machinery and plant bought for installation and erection	..	2,330	..	12,007
Purchased components for incorporation in firms' own products				
Ball and roller bearings and parts thereof	..	1,145	..	1,832
Electric motors				
Of less than 1 h.p.	..	206	..	303
Of 1 h.p. and over	..	2,612	..	4,108
Internal combustion engines	..	707	Number 13,956	2,976
Industrial valves	..	119	..	1,259
Gears and gear wheels of metal	..	615	..	1,918
Pumps	..	103	..	958
Measuring instruments and gauges and parts				
Industrial process measuring and control instruments and equipment	..	197	..	867
Other	..	113	..	1,160
Plastic goods moulded and fabricated	..	102	..	258
Other components not elsewhere specified (excluding those of rubber and asbestos)	..	9,919	..	19,383
Lubricating oils and greases (including cutting oils and emulsions)	Th. gal. 355	113	Th. gal. 848	274
	..	57	Th. cwt. 14.3	20
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	..	899	..	141
Other	..		..	766
All other materials for use in production	..	8,506	..	8,114

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Packaging materials		£'000		£'000
Timber				
Containers wholly or mainly of wood (including plywood boxes and drums) baskets and wickerwork crates	..	111	..	116
Timber (sawn or planed) for manufacture into packing cases, etc	..	97	Th. cu. ft. 199	126
			..	30
All other packaging materials	..	86	..	206
Fuel and electricity (d)	Th. tons		Th. tons	
Coal	19.3	115	7.5	48
			..	32
Coke (including screenings) and manufactured fuel	Th. gal. 16.6	168	9.6	112
	..	26	..	
Derv fuel and motor spirit for use in road vehicles	Th. gal. 900	187	1,725	431
	..	57	..	111
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	4,736	259	6,268	361
			..	68
Gas	Th. therms 3,217	193	Th. therms 3,294	231
	..	33	..	27
Electricity	Th. kWh 113,167	679	Th. kWh 137,966	1,077
	..	202	..	193
All other fuels	..	(e)	..	138
Total cost of materials and fuel		52,636		94,763
Goods purchased for merchanting		5,687		8,480
Canteen purchases		290		367
Total cost of purchases		58,614		103,609

(a) For 1963 cadmium copper was not specifically included but blister was excluded.

(b) Included in 'All other materials for use in production'.

(c) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc)'.

(d) There were no entries recorded for electricity generated in firms' own establishments in this industry in 1963 and 1968.

(e) Not recorded separately for 1963.

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.	411	530
Transport costs			
Wages and salaries	£'000	353	564
Derv fuel and motor spirit	"	245	541
Tyres and other spare parts for road goods vehicles	"	..	141
Payments to other organisations for transport	{ by road { by rail and other means excluding postal services	1,268	1,317
			414
Costs of operating road goods vehicles			
Insurance	"	36	81
Vehicle licences	"	30	99
Depreciation	"	154	366
Payments to other organisations for repairs and maintenance	"	100	209
Total		2,186(a)	3,732

(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	171	417
Road goods vehicles	100	209
Plant, machinery and other capital equipment	282	543
Insurance, licensing and depreciation of road goods vehicles (b)	221	546
Rates, excluding water rates	768	1,421
Hire of plant and machinery	109	325
Postage, telephone, telegrams, cables and telex (c)	656	1,147
Total	2,306	4,608

(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 periods 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)	0.8	0.6
May	1.2	3.7
June	6.5	4.7
July	3.3	3.6
August	2.0	1.2
September	15.9	15.2
October	4.5	5.3
November	1.2	0.7
December	37.7	41.3
1969		
January	1.2	1.3
February	1.2	0.5
March	21.6	21.0
April (b)	2.9	0.9
	100	100

(a) From 6 April.

(b) To 5 April.

TABLE 1. *Estimated number of persons in the United States in 1948, by race and sex, and by marital status, for the total population, for the white population, and for the colored population.*

Race and sex	Total population		White population		Colored population	
	1948	1947	1948	1947	1948	1947
Total population	137,100,000	136,500,000	100,000,000	99,500,000	37,100,000	37,000,000
Male	68,500,000	68,000,000	50,000,000	49,500,000	18,500,000	18,500,000
Female	68,600,000	68,500,000	50,000,000	49,500,000	18,600,000	18,500,000
Married	50,000,000	49,500,000	35,000,000	34,500,000	15,000,000	14,500,000
Never married	15,000,000	14,500,000	10,000,000	9,500,000	5,000,000	5,000,000
Divorced	2,000,000	1,800,000	1,500,000	1,300,000	500,000	500,000
Widowed	11,000,000	10,800,000	7,500,000	7,300,000	3,500,000	3,500,000
Unmarried	18,600,000	18,500,000	13,000,000	12,800,000	5,600,000	5,500,000
Never married	15,000,000	14,500,000	10,000,000	9,500,000	5,000,000	5,000,000
Divorced	2,000,000	1,800,000	1,500,000	1,300,000	500,000	500,000
Widowed	1,600,000	1,500,000	1,000,000	9,500,000	600,000	500,000
Unmarried	18,600,000	18,500,000	13,000,000	12,800,000	5,600,000	5,500,000
Never married	15,000,000	14,500,000	10,000,000	9,500,000	5,000,000	5,000,000
Divorced	2,000,000	1,800,000	1,500,000	1,300,000	500,000	500,000
Widowed	1,600,000	1,500,000	1,000,000	9,500,000	600,000	500,000

TABLE 2. *Estimated number of persons in the United States in 1948, by race and sex, and by marital status, for the total population, for the white population, and for the colored population.*

Race and sex	Total population		White population		Colored population	
	1948	1947	1948	1947	1948	1947
Total population	137,100,000	136,500,000	100,000,000	99,500,000	37,100,000	37,000,000
Male	68,500,000	68,000,000	50,000,000	49,500,000	18,500,000	18,500,000
Female	68,600,000	68,500,000	50,000,000	49,500,000	18,600,000	18,500,000
Married	50,000,000	49,500,000	35,000,000	34,500,000	15,000,000	14,500,000
Never married	15,000,000	14,500,000	10,000,000	9,500,000	5,000,000	5,000,000
Divorced	2,000,000	1,800,000	1,500,000	1,300,000	500,000	500,000
Widowed	11,000,000	10,800,000	7,500,000	7,300,000	3,500,000	3,500,000
Unmarried	18,600,000	18,500,000	13,000,000	12,800,000	5,600,000	5,500,000
Never married	15,000,000	14,500,000	10,000,000	9,500,000	5,000,000	5,000,000
Divorced	2,000,000	1,800,000	1,500,000	1,300,000	500,000	500,000
Widowed	1,600,000	1,500,000	1,000,000	9,500,000	600,000	500,000

(a) In addition to the data for those persons in 1948, the figures for 1947 are given in this column.
 (b) For details see Table 1.
 (c) Excluding those for 1948.