

## 97 Miscellaneous metal goods

This Report on the Miscellaneous Metal Goods Industry relates to establishments engaged wholly or mainly in manufacturing metal casements, window frames, door frames and skylights, curtain walling, etc; safes and strong rooms, cash and deed boxes and all types of locks and keys except time locks and locks for vehicles; spiral and flat (including laminated) springs for all purposes but excluding vehicle suspension springs and vehicle engine valve springs; metal sewing, knitting, hosiery and gramophone needles; toilet, safety, hair and hat pins; crochet hooks and fish hooks, and metal smallwares of all kinds for the clothing, fancy leather goods, harness and saddlery, etc trades, such as bag clasps and frames, buckles, hooks and eyes, snap fasteners, zip fasteners, domestic chain, etc; domestic gas appliances for cooking, heating, washing, etc other than of cast iron excluding gas central heating systems, gas-operated refrigerators and gas meters; metal closures for bottles, jars and similar containers including crown corks and heavy grade closures for drums, etc but excluding metal parts and components of cans and metal boxes and of containers of other materials; anchors, grapnels and drags, chains (including non-precision chains for vehicles) and accessories such as shackles, couplings and crane hooks; hand trucks and wheel barrows, primarily of metal, including parts such as wheels and axles. The report includes cold pressing, stamping and piercing base metals in the production of metal goods not reported elsewhere for the motor vehicle, mechanical and electrical engineering, furniture, construction, etc trades; grinding, polishing, enamelling, gilding, plating, lacquering, galvanising and other metal finishing processes; ship breaking; and general sheet metal working in base metals and welding. The production of engineers' non-ferrous stamping and pressings is excluded.

This industry corresponds to minimum list heading 399(2), (3), (4), (8), (9), (10), (11) and (12) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of calculation in the 1968 Census.

The industry formed part of the Miscellaneous Metal Manufactures Industry (Part 74) in the Reports on the last detailed Census of Production for 1963, except that finished parts and accessories for motor vehicles including bumpers, fuel tanks, locks, coil suspension springs and laminated springs formerly shown in this industry are now included in the Report on the Motor Vehicle Manufacturing Industry (Part 82); pressings in sheet metal of aluminium and aluminium alloys formerly included in this industry also are now included in the Aluminium and Aluminium Alloys Industry (Part 47); hand carts, trucks and trolleys mainly of metal and wheelbarrows, not of wood, formerly shown in the Report on Perambulators, Hand-trucks, etc Industry (Part 67) and gas appliances (other than meters) formerly included in the Miscellaneous (Non-electrical) Machinery Industry (Part 49) are now included in this industry. The manufacture of metal furniture, steel drop forgings, drop stampings and hot pressings of iron and steel, domestic hollow-ware, and industrial hollow-ware were each shown as sub-divisions of the industry in the 1963 Report but are now the subject of separate reports, viz Metal Furniture (Part 94); Drop Forgings, etc (Part 95); and Metal Hollow-ware (Part 96).

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.

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) Including excise duty on mechanical lighters.

(e) Administrative, technical and clerical employees.

(f) Excluding expenditure for establishments not yet in production.

(g) Acquisitions less disposals.

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

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	6,040	6,033	
Number of establishments	"	6,475	6,631	
Gross output	£'000	547,424	801,921	
Net output	"	284,029	409,232	
Net output per head	£	1,185	1,686	
Sales and work done	£'000	goods produced and work done (c)	516,362	754,672
		merchanted goods and canteen takings	28,281	37,682
Purchases	"	materials for use in production and packaging and fuel (d)	223,969	342,396
		goods for merchandising and canteen purchases	24,189	31,223
Payments to other organisations	"	for work done on materials given out	9,989	15,250
		for transport	"	"
		by road	"	7,397
Stocks and work in progress	"	by rail and other means excluding postal services	6,843	2,063
		change during year	+ 4,376	+ 15,207
Total stocks and work in progress	"	at end of year	96,879	144,883
		change during year	+ 478	+ 3,870
Goods on hand for sale	"	at end of year	23,466	36,665
		change during year	+ 2,302	+ 5,697
Work in progress	"	at end of year	28,308	44,420
		change during year	+ 1,596	+ 5,640
Materials, stores and fuel	"	at end of year	45,106	63,798
		total, including working proprietors	Th. 239.6	242.7
Number employed on average during the year	"	operatives	185.7	183.7
		other employees (e)	46.3	52.5
		of operatives	£'000 111,254	152,495
Wages and salaries	"	of other employees (e)	41,110	61,784
		Capital expenditure (f)	"	19,007
Total	"	4,748	6,205	
New building work	"	666	- 2,791	
Land and existing buildings (g)	"	11,647	18,832	
Plant and machinery (g)	"	1,946	2,888	
Vehicles (g)	"			

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 22 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 5 per cent. For 1963 the comparable figures were 21 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	5,045	5,127
Average number employed:		
Working proprietors	6,653	5,621
Other persons employed	42,090	41,050

Footnotes continued on page 97/2.



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	1,613	1,603	4,976	..	..	..
6-10	1,169	1,161	9,154	..	..	..
11-24	1,709	1,645	29,066	..	..	..
25-49	406	382	14,917	46,176	24,960	1,673
50-99	423	386	30,046	95,420	48,887	1,627
100-199	250	229	33,752	106,245	52,672	1,561
200-299	76	68	18,842	58,345	31,966	1,697
300-399	39	38	13,329	45,854	25,110	1,884
400-499	21	21	9,211	37,849	18,211	1,977
500-749	32	29	19,403	62,797	31,320	1,614
750-999	16	13	13,863	51,031	21,931	1,582
1,000-1,499	20	16	23,524	77,789	40,258	1,711
1,500 and over	5	5	10,057	36,599	19,870	1,976
Unsatisfactory returns	852	832	12,538	..	..	..
Total	6,631	6,033	242,678	801,921(c)	409,232(c)	1,686(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	12,035	2,561	10,100	3,149	839	1,230
50-99	24,024	5,718	19,957	6,660	831	1,165
100-199	27,161	6,488	21,591	7,739	795	1,193
200-299	14,443	4,385	11,559	5,283	800	1,205
300-399	10,127	3,202	8,620	3,705	851	1,157
400-499	6,814	2,397	5,765	3,084	846	1,287
500-749	14,581	4,821	12,251	5,479	840	1,137
750-999	10,589	3,272	8,502	3,448	803	1,054
1,000-1,499	17,300	6,216	14,852	7,304	859	1,175
1,500 and over	7,682	2,375	6,859	2,889	893	1,215
Unsatisfactory returns	..	..	..	..	..	..
Total	183,729(c)	52,537(c)	152,495(c)	61,784(c)	830(c)	1,176(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	2	6
18 and over	65	29	94
All ages	69	31	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 100 establishments in 1968 and 101 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 £3,624,000 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) Including excise duty on mechanical lighters.
- (i) Administrative, technical and clerical employees.
- (j) Excluding expenditure for establishments not yet in production.
- (k) Acquisitions less disposals.



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)												
		Metal windows and door frames		Safes, locks, latches and keys		Springs		Needles, pins, fish hooks and other metal smallwares		Metallic closures		Anchors and chains		
		20		30		40		81		83		84		
		1963	1968	1963	1968	1963	1968	1963	1968	1963	1968	1963	1968	
Number of enterprises (c)	No.	39	39	39	32	81	85	75	85	16	17	27	19	
Number of establishments	"	56	60	45	42	106	115	104	114	24	21	33	25	
Gross output	£'000	33,833	41,513	15,730	23,780	23,929	30,048	27,676	43,811	18,893	26,126	9,967	10,570	
Net output	"	18,165	23,293	10,463	14,919	13,400	17,228	17,023	25,422	8,272	12,204	4,119	4,317	
Net output per head	£	1,230	1,794	1,231	1,518	969	1,343	962	1,406	1,183	1,960	1,300	1,851	
Sales and work done	{ goods produced and work done (d) (e)	£'000	29,554	37,054	14,996	22,792	23,182	29,199	26,405	39,408	18,513	25,339	9,282	9,721
	{ merchanted goods and canteen takings	"	4,326	3,938	363	446	843	569	1,136	3,699	371	517	739	902
Sales of characteristic products	"	22,485	29,810	13,538	18,353	18,884	23,880	18,807	28,895	15,935	23,281	7,975	7,151	
Index of specialisation (g)	Per cent.	76	80	90	81	81	82	71	73	86	92	86	74	
Purchases	{ materials for use in production and packaging, and fuel (h)	£'000	11,135	13,465	4,557	8,166	9,227	11,845	8,995	14,605	10,027	12,831	4,877	4,884
	{ goods for merchenting and canteen purchases	"	3,957	3,283	250	353	702	511	1,013	2,895	309	472	647	749
Payments to other organisations	{ for work done on materials given out	"	258	946	287	347	440	390	502	596	137	295	196	420
	{ for transport	"												
	{ by road	"		496		155		289		283		270		125
	{ by rail and other means excluding postal services	"	433		188	51	271		231		210		152	44
Stocks and work in progress	{ change during year	"	- 22	- 131	+ 217	+ 225	- 160	+ 64	- 62	+ 236	- 79	+ 201	- 8	- 54
	{ at end of year	"	1,043	1,240	1,118	1,609	791	1,030	1,906	3,280	989	1,263	298	411
Work in progress	{ change during year	"	- 24	+ 651	+ 153	+ 317	+ 64	+ 217	+ 197	+ 468	+ 88	+ 69	- 46	+ 1
	{ at end of year	"	2,154	2,768	1,355	2,397	602	1,115	1,845	2,862	649	836	805	883
Materials, stores and fuel	{ change during year	"	+ 114	+ 13	+ 15	+ 210	+ 112	+ 276	+ 88	+ 69	+ 62	- 33	+ 24	- 30
	{ at end of year	"	3,071	3,424	1,150	2,007	2,055	2,281	2,056	2,986	2,006	2,100	1,057	895
Number employed on average during the year	{ total including working proprietors	No.	14,764	12,986	8,497	9,825	13,823	12,829	17,691	18,079	6,992	6,225	3,169	2,332
	{ operatives	"	9,631	8,434	7,031	8,020	11,662	10,458	14,785	14,715	5,858	5,036	2,488	1,784
	{ other employees (i)	"	5,118	4,523	1,433	1,780	2,094	2,303	2,868	3,307	1,131	1,184	659	532
Wages and salaries	{ of operatives	£'000	7,267	8,745	4,085	6,029	6,360	7,859	7,270	9,824	2,959	4,170	1,661	1,625
	{ of other employees (i)	"	4,220	5,100	1,224	2,065	1,810	2,650	2,422	3,705	1,197	1,462	647	654
Wages and salaries per head	{ operatives	£	755	1,037	581	752	545	752	492	668	505	828	668	911
	{ other employees (i)	"	824	1,128	854	1,160	864	1,151	844	1,120	1,059	1,235	982	1,229
Capital expenditure (j)														
New building work	£'000	530	230	179	256	109	302	166	177	79	31	88	47	
Land and existing buildings	{ acquisitions	"	20	11	62		76	247	19	103	44	-	55	
	{ disposals	"	58	1,585	71	- 20(k)	122	61	21	77	3	145	-	- 2(k)
Plant and machinery	{ acquisitions	"	462	498	289	919	704	1,052	991	1,411	654	1,317	400	195(k)
	{ disposals	"	29	201	6	109	20	72	193	88	52	258	9	
Vehicles	{ acquisitions	"	252	308	70	108	157	190	100	189	49	78	33	35
	{ disposals	"	92	129	24	47	66	102	39	83	16	34	11	10

Continued on next page.



TABLE 4 (continued)

	Unit	Sub-divisions of the industry (b)				Sub-divisions of the industry (b)								
		Door bolts, hasps, staples, etc		Engineers' and mechanics' goods		Metal finishing	Domestic gas appliances and other miscellaneous metal goods			Total				
		85		86			87	Total	Domestic gas appliances 82			Other miscellaneous metal goods 88		
		1963	1968	1963	1968	1963				1968	1968		1968	1963
Number of enterprises (c)	No.	26	26	56	46	190	184	565	534	21	518	1,077	1,013	
Number of establishments	"	31	31	82	61	233	229	716	690	29	661	1,430	1,388	
Gross output	£'000	10,368	14,232	32,842	52,327	26,554	42,897	231,053	337,065	65,707	271,358	430,845	622,370	
Net output	"	5,151	7,501	15,904	22,684	17,226	26,525	113,820	163,511	28,011	135,500	223,544	317,604	
Net output per head	£	1,121	1,499	1,231	1,834	1,125	1,722	1,253	1,753	1,755	1,752	1,185	1,686	
Sales and work done	£'000	goods produced and work done (d) (e)	10,131	13,667	31,276	47,331	25,982	42,199	217,077	318,988	62,259	256,729	406,398	585,700
		merchanted goods and canteen takings	287	428	1,188	3,907	552	620	12,454	14,219	1,152	13,067	22,258	29,245
Sales of characteristic products	"	8,258	12,019	24,359	39,541	24,821	39,508	164,875	..	55,012	199,357	(f)	(f)	
Index of specialisation (g)	Per cent.	82	88	78	84	96	94	76	..	88	78	87	87	
Purchases	£'000	materials for use in production and packaging, and fuel (h)	4,515	5,937	15,339	25,642	8,239	14,753	99,362	153,606	35,783	117,823	176,273	265,732
		goods for merchandising and canteen purchases	186	381	1,128	3,530	365	542	10,481	11,516	999	10,518	19,038	24,232
		for work done on materials given out	389	309	340	596	748	785	4,565	7,152	1,377	5,775	7,862	11,836
Payments to other organisations	"	for transport												
		by road		97		257	142	438	3,315	3,329	471	2,858	5,385	5,741
		by rail and other means excluding postal services	125	50	318	98								
Stocks and work in progress														
Goods on hand for sale	"	change during year	- 63	+ 64	+ 72	+ 401	+ 23	+ 97	+ 458	+ 1,901	+ 1,530	+ 371	+ 377	+ 3,004
		at end of year	419	1,044	2,327	4,073	254	385	9,323	14,120	2,648	11,472	18,469	28,456
Work in progress	"	change during year	+ 13	+ 72	+ 305	+ 688	- 4	- 19	+ 1,064	+ 1,957	+ 766	+ 1,191	+ 1,812	+ 4,421
		at end of year	327	738	2,449	4,350	201	479	11,892	18,047	4,263	13,784	22,279	34,474
Materials, stores and fuel	"	change during year	- 1	+ 43	+ 188	+ 479	+ 166	+ 255	+ 490	+ 3,096	+ 970	+ 2,126	+ 1,256	+ 4,377
		at end of year	817	1,270	2,273	3,141	1,352	2,277	19,663	29,133	5,586	23,547	35,499	49,514
Number employed on average during the year	No.	total including working proprietors	4,594	5,003	12,920	12,367	15,311	15,401	90,844	93,295	15,959	77,336	188,605	188,342
		operatives	3,756	4,012	10,636	9,754	12,848	12,606	71,531	71,041	12,418	58,623	150,226	145,860
		other employees (i)	818	973	2,246	2,576	2,286	2,652	18,833	21,879	3,531	18,348	37,486	41,709
Wages and salaries	£'000	of operatives	2,101	3,120	6,531	8,067	8,299	11,759	43,440	59,795	11,149	48,646	89,973	120,995
		of other employees (i)	780	1,174	1,986	3,134	2,082	3,193	16,876	25,907	4,162	21,745	33,244	49,045
Wages and salaries per head	£	operatives	559	778	614	827	646	933	607	842	898	830	599	830
		other employees (i)	953	1,207	884	1,217	911	1,204	896	1,184	1,179	1,185	887	1,176
Capital expenditure (j)														
New building work	£'000	136	256	498	679	385	368	1,566	2,471	590	1,881	3,737	4,816	
Land and existing buildings	"	acquisitions	10	41	91	18	382		968	790		1,727	1,623	
		disposals	-	94	302	28	29	359(k)	597	1,724	- 2(k)	- 932(k)	1,204	3,789
Plant and machinery	"	acquisitions	198		1,166	1,330	791	1,401	4,110	7,259	1,664	5,595	9,765	15,747
		disposals	4	354	106	21	32	40	148	331	40	290	599	1,131
Vehicles	"	acquisitions	55	98	139	157	284	447	1,220	1,919	288	1,632	2,361	3,531
		disposals	18	39	63	59	92	147	407	639	88	552	829	1,289

For notes to this table - see page 97/5.



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	Enter-prises	Entries
20	Th.tons	£'000	Th.tons	£'000	Number	Number
Metal windows, metal door frames, etc						
Metal windows and metal door and window frames and casements						
Of steel (b)	56.4	12,675	47.6	14,255	54	57
Of aluminium	..	2,563	5.1	6,928	53	57
Of other metals	3.0	3,737	..	5,607	16	17
Of other metals	..	2,810	0.2	288	..	..
Of other metals	..	..	..	1,344	..	..
Curtain walling						
Of steel (b)	2.1	634	..	1,441	10	10
Of steel (b)	..	443	..	..	..	..
Of aluminium (c)	0.9	1,087	0.7	1,576	8	9
Of aluminium (c)	..	415	..	..	..	..
Patent glazing bars						
Lead clothed steel (d)	..	388	..	172	8	8
Galvanised steel	..	(e)	..	53	5	6
Aluminium	..	1,393	..	1,552	16	19
Aluminium	..	..	..	..	..	..
Total metal windows, metal door frames etc	..	26,144	..	33,217	..	..
30						
Safes, locks, latches, keys, etc						
Safes, insulated safe equipment, strong-rooms, strong-room doors, safe equipment, and night safes: trunks, suitcases, cash boxes, deed boxes, etc, of metal	..	4,824	..	5,999	28	28
Locks (excluding time locks), padlocks and latches and parts thereof, and keys and key blanks for all purposes, other than for motor vehicles (f)	..	10,285	..	12,949	45	50
40						
Springs						
Coil suspension for locomotives, carriages and wagons (g)	1.7	356	3.0	610	5	5
Other coil springs						
Of ½ inch diameter or equivalent cross-sectional area or over	3.6	1,073	1.9	893	36	36
Of ½ inch diameter or equivalent cross-sectional area or over	..	530	..	1,244	..	..
Of less than ½ inch diameter or equivalent cross-sectional area	11.6	4,780	10.0	5,551	65	66
Of less than ½ inch diameter or equivalent cross-sectional area	..	869	..	2,084	..	..
Torsion bars (including laminated torsion bars)	1.9	543	2.0	408	7	8
Laminated springs for locomotives, carriages, wagons and other laminated springs (except for motor vehicles) (g)	..	493	..	358	*	*
Spring presswork	2.2	1,258	3.9	2,372	59	60
Spring presswork	..	1,933	..	1,271	..	..
Upholstery and mattress springs (including spring seating and mattress interiors)	19.1	3,253	30.0	5,157	21	28
Upholstery and mattress springs (including spring seating and mattress interiors)	..	2,627	..	3,111	..	..
Miscellaneous springs, eg spring washers (including those assembled with bolts), lock washers, Belleville washers, ring springs, etc	..	2,659	..	5,528	53	53
Miscellaneous springs, eg spring washers (including those assembled with bolts), lock washers, Belleville washers, ring springs, etc	..	..	..	..	..	..
Unclassified springs other than laminated	..	1,588	..	..	..	..
Unclassified springs other than laminated	..	..	..	..	..	..
Total springs	..	21,963	..	28,588	..	..

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
81	Millions	£'000	Millions	£'000	Number	Number
Metal smallwares						
Accoutrements, badges, fittings for uniforms and similar accessories of metal (other than of gold or silver)	..	828	..	849	16	16
Bag clasps and frames of metal	..	970	14.9	1,476	10	10
Bag clasps and frames of metal	..	..	..	223	..	..
Boot eyelets and lacing hooks	2,065	302	..	326	*	*
Buckles of metal (other than for braces, suspenders and garters)	99.3	364	187	740	19	20
Buckles of metal (other than for braces, suspenders and garters)	..	672	..	902	..	..
Buttons of metal whether covered or not (including moulds)	..	523	186	632	10	10
Buttons of metal whether covered or not (including moulds)	..	..	..	263	..	..
Collar studs and cuff links wholly or mainly of metal	..	262	..	237	*	*
Corset, stationery, sail and other eyelets	3,711	960	..	1,388	6	6
Corset steels and busks	..	413	..	324	*	*
Fittings for braces, suspenders and garters	176	1,073	111	387	5	5
Fittings for braces, suspenders and garters	..	..	..	700	..	..
Hair grips	..	493	..	638	*	*
Knitting needles (including knitting pins of metal)	..	822	18.9	365	*	*
Knitting needles (including knitting pins of metal)	..	..	..	698	..	..
Knitting machinery elements						
Latch needles	58.0	1,064	62.1	1,514	*	*
Bearded needles and other knitting machinery elements (eg sinkers, dividers, welt hooks, narrowing points)	..	630	..	862	*	*
Needles, other than knitting machinery elements						
Machine needles (including domestic and industrial sewing machine, and gramophone needles)	..	975	82.3	909	*	*
Hand needles (including hardware needles and other hand sewing needles and bodkins, but excluding knitting needles, and surgeons' suture needles and hypodermic needles)	996	870	..	1,106	*	*
Paper fasteners, clips and other stationery sundries	..	1,196	1,602	1,356	23	23
Paper fasteners, clips and other stationery sundries	..	..	..	1,408	..	..
Safety pins (including tie and collar) and other pins (including drawing, map and hair pins but excluding hair grips)	..	1,465	..	2,138	10	10
Snap and slide fasteners	Mn.	Mn.lin. ft.	Mn.	Mn.lin. ft.		
Slide and zip fasteners of metal, complete	142	124	4,372	96.6	102	4,062
Slide and zip fasteners of metal, complete	..	..	..	..	..	1,772
Parts of slide and zip fasteners of metal	..	..	..	..	630	5
Parts of slide and zip fasteners of metal	..	..	..	..	993	*
Press fasteners	..	806	..	..	554	5
Press studs (including carpet fasteners)	..	..	..	..	93	95
Other metal smallwares	..	4,388	..	9,405	..	..
Other metal smallwares	..	..	..	..	..	..
Total metal smallwares	..	23,449	..	36,858	..	..

Continued on next page.



TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
88 Other miscellaneous metal goods		£'000		£'000	Number	Number
Agricultural and horticultural appliances, etc						
Poultry appliances	..	4,115	..	6,545	26	26
Other agricultural and horticultural appliances, not elsewhere specified	..	3,334	..	4,734	57	59
84 Anchors and grapnels and parts thereof: shackles, swivel pieces, slips, etc, for use with chain cable, mooring, hauling or lifting gear	..	1,018	..	1,667	18	23
88 Art metalwork (including antique reproductions and other ornamental metal goods)						
Of iron and steel	..	1,137	..	571	25	25
Of other metals	..	1,953	..	2,039	23	23
88 Back boilers and hot water cylinders of copper	..	7,151	..	10,659	14	16
88 Bathroom and sanitary fittings (excluding engineers' and mechanics' goods)	..	1,879	..	2,059	21	21
88 Builders' and cabinet makers' ironmongery and hardware, other than shop and office fittings, not elsewhere specified	..	12,126	..	17,660	90	90
88 Catering equipment not elsewhere specified	..	5,858	..	8,682	60	62
88 Castors (industrial) of metal	Th.cwt. 46.2(h) ..	647 852	Th.cwt. 16.6 ..	320 2,909	11	12
84 Chain cable, studded link, of iron and steel	Th.tons 11.1 ..	1,139 194	Th.tons 12.3 ..	1,556 125	7	7
84 Chain unstudded (excluding precision - ie transmission timing and conveyor chains)						
Of iron	4.8	881	0.5	56	*	*
Of steel	6.0 ..	858 3,894(i)	13.7 ..	3,626 432	18	19
83 Closures (heavy grade) for drums and closures of metal for bottles, jars, cans and similar containers including crown corks but excluding covers for metal and composite containers and cork stoppers partially manufactured from metal						
Of copper, brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	..	187	..	181	5	7
Of other materials	..	16,137	..	23,563	26	39
88 Coffin furniture of all kinds	..	309	..	680	8	8
88 Cold formed sections of steel	24.7 ..	2,543 973	62.9	7,636	30	31
88 Cold formed sections of aluminium and aluminium alloys	0.2 ..	90 12	1.5 ..	896 162	20	20
88 Cold room and refrigerator cabinets of steel	..	532	..	1,865	*	*

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
Other miscellaneous metal goods (continued)		£'000		£'000	Number	Number
88 Cooking and washing boilers, other than those wholly or mainly of cast iron, and parts therefor	..	1,981	..	2,325	6	7
88 Curtain rails, rings, hooks, runners, stops and other fittings	..	1,680	..	2,998	13	14
88 Domestic utensils and appliances, not elsewhere specified, other than hollow-ware and electrical	..	5,798	..	9,283	32	34
88 Doors of metal (excluding strong-room doors and doors for motor vehicles)	..	2,897	..	7,501	43	46
85 Door bolts, hasps, staples (including blanks) and hinges and other metal furnishings for doors and windows (other than locks)	..	9,577	..	15,121	63	67
86 Engineers' and mechanics' goods (including fittings for water supply)						
Domestic cocks and taps						
Of brass and other alloys of copper	..	11,448	..	21,116	35	51
Of other metals	..		..	2,078	7	7
Sanitary, bathroom and other steam and water fittings (except taps, valves and cocks)						
Of copper, brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	..	16,817	..	20,963	30	35
Of other materials	..	149	..	626	13	13
Other kinds of engineers' and mechanics' goods	..	4,370	..	4,413	36	36
Total engineers' and mechanics' goods	..	32,784	..	49,195	..	..
88 Expanded and perforated metal						
Of iron and steel	Th.tons 34.8	5,243	Th.tons 25.0 ..	5,049 1,452	12	13
Of other metals	1.9	851	1.3	840	5	6
88 Fencing materials of iron and steel, other than wire (eg gates, grilles, fences, standards, trellis)	14.1 ..	1,881 1,243	8.3 ..	1,063 1,970	55	61
88 Fire extinguishing apparatus (hand-operated chemical types only)	..	6,340	..	11,521	14	19
88 Hand carts, trucks and trolleys, mainly of metal (j)						
Manually propelled horizontal movers, non-powered, and stackers, powered or non-powered, and parts	..	2,977	..	3,386	46	46
Other (including sack trucks) and parts	..		..	2,594	53	53
88 Hearth plates, table tops and shelf plates, and other plates and sheets (not being hollow-ware) of a description commonly used for domestic purposes and signs of all kinds						
Vitreous enamelled	..	1,071	..	762	7	8
Stove painted	..	406	..	866	11	11

Continued on next page.



TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Th.tons	£'000	Th.tons	£'000	Number	Number
Other miscellaneous metal goods (continued)						
88 Hooks, fasteners and shackles other than for use with chain cable, mooring, hauling or lifting gear	1.1	600	1.5	526	39	41
	..	1,973	..	4,614		
88 Ladders and steps of aluminium	..	611	..	644	7	7
88 Lamps (not electric) other than blow lamps and brazing lamps	..	1,073	..	1,350	22	22
88 Lighters, mechanical						
Complete, with or without flints	..	4,109	..	6,843	*	*
Parts and accessories of lighters (including flints)	..	610	..	795	8	8
88 Machinery and other guards of sheet metal	1.4	235	2.0	371	76	76
	..	556	..	1,029		
88 Name plates, instruction plates, etc (k)	..	4,811	..	6,754	48	52
88 Pallets and stillages of metal for use with industrial trucks	..	3,012	..	4,165	40	46
88 Parts of lighting and heating accessories	..	2,047	..	1,979	44	46
88 Rolling shutters of steel	3.6	989	6.3	1,718	18	21
	..	1,045	..	906		
88 Shop, office and bar fittings of metal	..	2,601	..	2,621	28	28
88 Steel wool and other metallic abrasives	..	5,256	..	6,570	7	10
Stoves and fires, etc, for domestic heating and for cooking (other than those wholly or mainly of cast iron or powered with electricity) and parts thereof (l)						
82 Gas						
Cookers			..	32,689	30	34
Fires and space heaters (excluding gas central heating equipment)	..	40,928 (m)	..	17,449	35	39
Water heaters	..	4,939	..	6,779	8	9
Other apparatus (excluding refrigerators and meters)	..	2,408	..	3,781	16	18
88 Other (including oil) not elsewhere specified	..	(m)	..	8,459	31	32
88 Studs and spikes (excluding boot and shoe studs and spikes, railway spikes and screw studs)	..	200	..	665	5	6
88 Tensional steel strappings	..	(e)	35.5	4,145	5	5
88 Umbrella frames, ribs and other metal furniture for umbrellas	..	768	..	959	8	8
88 Wheelbarrows, not of wood	..	870	..	883	11	11
88 Wire and cable gripping devices	..	(e)	..	595	9	9
88 Pressings in sheet metal of iron and steel which are not finished products	134	20,244	126	23,769	275	301
	..	13,980 (n)	..	25,534		

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Th.tons	£'000	Th.tons	£'000	Number	Number
Other miscellaneous metal goods (continued)						
Finished manufactures of metal not elsewhere specified including castings, forgings, stampings and pressings which constitute finished products						
Of iron and steel	..	6,793	..	5,753	55	55
Of copper, brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper)	..	903	..	649	20	20
Of other metals	..	382	..	879	24	24
Other products	..	5,895	..	6,216	91	100
Waste products						
Scrap metals						
Iron and steel	171	1,645	184	2,024	423	484
	..	200	..	424		
Aluminium	3.3	415	4.7	722	205	230
			..	86		
Brass	24.2	3,282	17.0	4,891	260	299
			..	721		
Copper	1.6	286	1.4	541	134	151
			..	274		
Other scrap metals	6.5	336	16.4	1,259	149	172
	..	72	..	270		
Other waste products	..	245	..	624	88	104
Work done						
Jobbing ironmongery and repair work	..	1,551	..	2,522	38	40
Other work done						
87 Metal finishing						
Anodising		(o)		3,425	55	61
Galvanising		5,374		6,274	55	61
Japanning, lacquering or stove painting		1,680		2,083	71	71
Plating		16,414		17,263	138	148
Tinning		269		1,545	16	17
Vitreous enamelling		2,225		2,796	21	23
Other		(o)		7,998	81	85
84 Proving chain cables and anchors		277		208	*	5
Other work done including ship-breaking for other firms or government organisations		6,402(p)		4,584	78	86
Total		397,721		572,787	..	..
Sales in other industries (see Table 6)		48,530		61,962	..	..
Principal products of this industry sold by establishments in the industry		349,190		510,825	1,013	1,186(q)

For notes to this table - see page 97/16.



## 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) For 1963 described as 'Of iron and steel'.
- (c) For 1963 described as 'Curtain walling other than of iron and steel'.
- (d) For 1963 described as 'Lead or lead clothed'.
- (e) Not recorded separately for 1963.
- (f) Includes some vehicle locks for 1963.
- (g) Coil suspension springs and laminated springs for motor vehicles are included in the Report on the Motor Vehicle Manufacturing Industry (Part 82).
- (h) Revised figure.
- (i) Includes some precision chain.
- (j) For 1963 described as 'Hand-trucks and hand trolleys not mechanically propelled' and parts thereof.
- (k) For 1963 described as 'Name plates, clock and other dials, instruction plates, etc'.
- (l) Stoves and fires etc wholly or mainly of cast iron are included in the Report on the Iron Castings, etc Industry (Part 46) and those powered by electricity in the Report on Electric Appliances Primarily for Domestic Use Industry (Part 78).
- (m) Gas stoves and fires etc and other stoves and fires (including oil) were not recorded separately for 1963.
- (n) Including pressings of unclassified metals amounting to £1,872,000.
- (o) Included in 'Other work done'.
- (p) Including unspecified metal finishing work done.
- (q) 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		
	Value	Value	Entries	Principal industries in which produced (a)
Metal windows, metal door frames, etc	£'000	£'000	Number	
Metal windows and metal door and window frames and casements and curtain walling				
Of steel	1,140	992	30	58,64,94,151
Of aluminium	1,021	1,580	27	61,127,144,151
Of other metals				
Patent glazing bars				
Lead clothed steel and galvanised steel	5	45	8	151
Aluminium	739	262	13	127,151
Total: metal windows, metal door frames, etc	2,906	3,314	..	
Safes, locks, latches, keys, etc				
Safes, insulated safe equipment, strong-rooms, strong-room doors, safe equipment, and night safes: trunks, suitcases, cash boxes, deed boxes, etc, of metal	560	434	8	87,90,94,96
Locks (excluding time locks), padlocks and latches and parts thereof, and keys and key blanks for all purposes, other than for motor vehicles	233	200	7	52,82,84
Springs				
Coil suspension for locomotives, carriages and wagons and other coil springs of ½ inch diameter or equivalent cross-sectional area or over	403	453	8	44,82,88,95
Other coil springs of less than ½ inch diameter or equivalent cross-sectional area	76	223	9	44,82
Torsion bars (including laminated torsion bars) and laminated springs for locomotives, carriages and wagons	457	345	*	44,82
Spring presswork	55	173	7	48,82
Upholstery and mattress springs (including spring seating and mattress interiors)	504	1,138	7	82,91,94,133
Miscellaneous springs, eg spring washers (including those assembled with bolts), lock washers, belleville washers, ring springs, etc	356	644	9	44,66,82,95
Unclassified springs other than laminated	1,027	-	-	
Total springs	2,877	2,975	..	
Metal smallwares				
Buckles of metal (other than for braces, suspenders and garters)	3,668	92	*	48,94
Knitting needles, knitting machinery elements and machine needles		1,057	*	54,63,149
Paper fasteners, clips and other stationery sundries		585	6	90,140,143
Other metal smallwares		5,088	33	74,90,94,144

Continued on next page.



TABLE 6 (continued)

	1963	1968		
	Value	Value	Entries	Principal industries in which produced (a)
Other miscellaneous metal goods	£'000	£'000	Number	
Agricultural and horticultural appliances, etc				
Poultry appliances	111	150	7	64,82,96,131
Other agricultural and horticultural appliances, not elsewhere specified	694	641	14	88,95,96,149
Anchors and grapnels and parts thereof: shackles, swivel pieces, slips, etc, for use with chain cable, mooring, hauling or lifting gear and chain cable, studded link, of iron and steel	574	748	12	71,86,90,95
Art metalwork (including antique reproductions and other ornamental metal goods)				
Of iron and steel	173	33	8	63
Of other metals	138	394	7	48,82,94,96
Back boilers and hot water cylinders of copper and bathroom and sanitary fittings (excluding engineers' and mechanics' goods)	446	319	8	46,88,94,96
Builders' and cabinet makers' ironmongery and hardware, other than shop and office fittings, not elsewhere specified	581	588	17	82,83,90,94
Catering equipment not elsewhere specified	1,717	1,122	25	46,70,84,96
Castors (industrial) of metal	180	167	5	82,94
Closures (heavy grade) for drums and closures of metal for bottles, jars, cans and similar containers (excluding crown corks, covers for metal and composite containers and cork stoppers partially manufactured from metal)	739	1,168	18	47,52,64,92
Cold formed sections of steel and aluminium	1,093	2,075	14	44,47,82,94
Cold room and refrigerator cabinets of steel and cooking and washing boilers	354	998	*	64,78
Domestic utensils and appliances, not elsewhere specified, other than hollow-ware and electrical	1,054	771	8	63,78,82,147
Doors of metal (excluding strong-room doors and doors for motor vehicles)		666	22	79,94,131,151
Door bolts, hasps, staples (including blanks) and hinges and other metal furnishings for doors and windows (other than locks)	733			
		638	10	49,51,82,94
Engineers' and mechanics' goods (including fittings for water supply)				
Domestic cocks and taps	1,203	3,319	23	48,52,66,70
Sanitary, bathroom and other steam and water fittings (except taps, valves and cocks)				
Of copper, brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	5,737	8,420	10	48,52,93,95
Of other materials	94	62	*	82,83,86
Other kinds of engineers' and mechanics' goods	1,722	937	15	47,49,82,91
Total engineers' and mechanics' goods	8,755	12,738	..	

TABLE 6 (continued)

	1963	1968		
	Value	Value	Entries	Principal industries in which produced (a)
Other miscellaneous metal goods (continued)	£'000	£'000	Number	
Fencing materials of iron and steel, other than wire (eg gates, grilles, fences, standards, trellis)	1,618	663	30	56,64,94,149
Fire extinguishing apparatus (hand-operated chemical types only)	2,080	685	*	*
Hand carts, trucks and trolleys, mainly of metal				
Manually propelled horizontal movers, non-powered, and stackers, powered or non-powered, and parts	480	445	25	56,64,94,149
Other (including sack trucks) and parts		399	32	56,62,64,66
Hearth plates, table tops and shelf plates, and other plates and sheets (not being hollow-ware) of a description commonly used for domestic purposes and signs of all kinds	52	75	*	82,88,92
Hooks, fasteners and shackles other than for use with chain cable, mooring, hauling or lifting gear	55	1,086	15	66,84,90,95
Machinery and other guards of sheet metal	355	602	51	55,61,64,82
Name plates, instruction plates, etc	468	416	7	79,149
Pallets and stillages of metal for use with industrial trucks	1,447	390	17	71,94,96,136
Parts of lighting and heating accessories	266	617	13	45,48,79,96
Rolling shutters of steel and shop, office and bar fittings of metal	1,231	695	20	47,63,64,94
Stoves and fires, etc, for domestic heating and for cooking (other than those wholly or mainly of cast iron or powered with electricity) and parts thereof				
Gas				
Cookers		2,020	17	63,78,82,94
Fires and space heaters (excluding gas central heating equipment)	1,171 (b)	1,319	15	61,70,78,83
Water heaters and other apparatus (excluding refrigerators and meters)	1,340	2,486	12	51,64,74,78
Wire and cable gripping devices	(c)	531	5	79,90,95
Pressings in sheet metal of iron and steel which are not finished products	5,024	6,304	85	48,82,92,95
Unspecified finished metal goods and parts	3,726	4,983	45	52,91,94,107
Work done				
Metal finishing				
Galvanising	1,330	740	19	44,90,94,96
Japanning, lacquering or stove painting	19	102	9	94
Plating and tinning	198	107	5	66,82
Other metal finishing including ship-breaking and proving chain cables and anchors	81	335	11	82,86,95,147
Total	48,530	61,962	..	

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

(b) Including stoves and fires etc other than gas operated.

(c) Not recorded separately for 1963.



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
Metal manufactures including smelting, refining and alloying (including steel melting); rolling and drawing; and the production of castings, forgings, and other basic forms of ferrous and non-ferrous metals but excluding drop forgings of iron and steel, wire drawing and further processing and fabrication	£'000	£'000
Of iron and steel		
Steel tubes and fittings	172	638
Iron castings	1,469	1,643
Other manufactures of iron and steel	1,844	479
Of aluminium and aluminium alloys		
Pressings in sheet metal	858	2,134
Other manufactures	1,752	418
Of brass and other copper alloys		
Drop stampings and pressings	530	408
Pressings in sheet metal	1,782	1,259
Other manufactures	732	473
Of copper	187	155
Of other metals and alloys	740	536
Mechanical engineering products		
Machinery, plant and appliances, including parts		
Agricultural machinery	537	488
Metal-working machine tools	153	1,584
Pumps	269	134
Industrial valves and cocks	2,803	5,002
Mechanical handling equipment	718	1,898
Space-heating, ventilating and air conditioning equipment	2,297	1,452
Other non-electrical machinery	5,383	3,995
Fabricated iron and steelwork	1,829	5,136
Arms, ammunition and naval, military and air force stores	336	157
Other mechanical engineering products	1,023	1,628
Scientific, surgical and photographic instruments and equipment	304	473
Electrical engineering products including parts		
Electrical machinery	97	635
Telegraph and telephone equipment	127	195
Electronic components	902	470
Electric appliances	2,236	1,801
Electric lighting fittings and other electrical goods	1,161	1,243
Motor vehicle parts and accessories	3,262	8,165
Aircraft, motor cycle and cycle parts and accessories	459	382
Engineers' small tools and gauges	585	1,333
Hand tools and implements	651	1,307
Bolts, nuts, screws and rivets etc	637	655

TABLE 7 (continued)

	1963	1968
	Value	Value
	£'000	£'000
Wire and wire manufactures	1,060	1,238
Cans and metal boxes of tinplate	937	1,569
Cans and metal boxes of aluminium	534	249
Metal furniture	3,014	3,651
Drop forgings	500	1,003
Metal hollow-ware	3,974	2,830
Manufactures of glass and glass fibre	38	137
Builders' joinery	207	157
Furniture and upholstery and shop and office fittings	560	755
Miscellaneous manufactures of wood and cork	652	428
Toys and sports equipment	141	216
Plastic goods	1,282	3,865
Other goods	4,324	6,970
Building and civil engineering work carried out in Great Britain (a)		
Work done as main contractors	2,719	447
Work done as sub-contractors		2,842
Repair and jobbing work	682	290
Services rendered to other organisations (b)	749	1,951
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	21,222	28,092
Canteen takings	1,037	1,153
Total	79,466	104,119

(a) The data shown for 1963 is not comparable with that for 1968. Because of a change in the method of collection, the data for 1968 includes goods made by firms and incorporated in their building and civil engineering work whereas the data for 1963 excludes such goods. For 1963 the value of goods made and used in building and civil engineering work amounting to £61,000 has been deducted from the gross figure for building and civil engineering (£2,780,000) in order to avoid duplication which arises because they have been included against the appropriate sales headings elsewhere in the Report. For 1968 duplication does not arise since goods made and used in building and civil engineering work were not shown additionally as sales elsewhere in the Report; it is estimated that these goods amounted to £241,000.

(b) 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.

The main purchasing industries of miscellaneous metal goods are listed in Table 9 of the Report on Iron and Steel (General) (Part 44) together with the details of the quantity and value purchased by each 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
Materials for use in production	Th.tons	£'000	Th.tons	£'000
Iron				
Pig iron, including refined pig iron and other irons for re-melting	56.3	824	67.5	980
	..	32	..	..
Castings	19.6	1,925	18.4	2,895
			..	533
Steel				
Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars)	19.5	1,119	11.4	1,243
			..	201
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares	183	9,831	188	12,063
			..	1,562
Plates, 3mm.thick and over	63.9	3,381	63.2	3,446
			..	1,438
Sheets under 3mm.thick (including electrical sheets)	271	18,113	338	23,541
			..	4,154
Hoop and strip (including tape of all thicknesses)	114	7,675	169	12,681
Tinplate and blackplate (a)	52.1	3,752	104	6,862
Forgings (except drop forgings)	3.3	453	0.9	144
Castings	2.5(b)	370	1.6	254
	..	56	..	97
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc)	8.4	679	10.8	1,231
	..	115	..	416
Other	15.5	1,585	18.4	2,119
	..	967	..	1,245
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys				
Circles and strip	5.5	1,677	4.8	1,773
			..	387
Other	21.3	7,545	31.0	11,968
			..	1,479
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (c)				
Castings in the rough	5.4	1,715	4.3	1,820
	..	301	..	226
Other	63.6	16,697	58.6	25,244
Copper (including cadmium copper) (d)	15.4	4,931	15.4	9,661
Lead and alloys of lead (excluding solder)	3.8	282	3.6	430
			..	62
Zinc and alloys of zinc	26.6	2,493	26.1	3,797
			..	454
Nickel and nickel alloys (excluding nickel silver and cupro-nickel)	1.6	982	1.7	1,422
			..	222
Tin	5.7	269	6.4	449
	..	54		

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Th.tons	£'000	Th.tons	£'000
Scrap metal				
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (c)	8.9	1,148	..	2,100
Copper (including cadmium copper) (e)	0.9	201	..	370
Other metals	28.5	404	64.5	807
	..	298	..	780
Wire (excluding insulated wire)				
Steel				
Single wire	88.5	7,506	69.7	7,028
			..	1,025
Wire manufactures (including stranded wire of two or more ply)	1.9	379	2.8	564
	..	250	..	70
Aluminium and aluminium alloys	2.5	407	0.7	242
			..	124
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (c)	2.9	1,049	3.6	1,995
Copper (including cadmium copper) (e)	1.6	568	0.4	245
Lining compounds	..	274	..	739
Plating compounds	..	1,808	..	2,211
Frit	..	839	..	1,116
Paint and varnish (including lacquers and stains)	Th.gal.		Th.gal.	
	1,268	1,797	1,523	2,366
	..	359	..	567
General chemicals (f)				
Inorganic (including inorganic gases)	..		..	1,160
Organic (including organic gases)	..	1,860	..	349
Other (eg mixtures of inorganic and organic chemicals)	..		..	663
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)				
Polyethylene and polypropylene and copolymers				
Granules, moulding and extrusion compounds	Th.cwt.		Th.cwt.	
	9.4	128	33.6	478
	..	18	..	..
Sheet, rod, film, profile shapes and mono-filament (g)	4.1	111	5.2	229
	..	29	..	41
Polyvinyl chloride (including copolymers) plasticised and unplasticised sheet, film, rod, tube, profile shapes and foam (g)	3.7	54	10.8	208
	..	30	..	204
Plastic goods moulded and fabricated (including components and fittings)	..	1,608	..	3,854
Timber			Th.stds.	
Softwood, sawn or planed, but not further prepared or manufactured	..		1.5	155
			..	77
Softwood and hardwood, manufactured or semi-manufactured (ie further prepared than sawn or planed)	..	(h)	..	661
Glass in all forms including finished products			..	1,538
Cork and cork manufactures			..	793

Continued on next page.



TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
Semi-manufactured products (eg needles in the plain) not elsewhere specified	..	1,909	..	2,256
Bolts, rivets, nuts and washers, screws, nails, tacks, etc	..	2,877	..	4,054
Purchased components not elsewhere specified	..	20,395	..	36,330
Narrow fabrics of all materials (eg tape for zip fasteners)	..	1,059	..	1,378
Lubricating oils and greases (including cutting oils and emulsions)	Th.gal.		Th.gal.	
	662	185	886	273
	Th.cwt.		Th.cwt.	
	7.9	18	4.2	16
	..	82	..	38
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	..	4,501	..	493
Other	..		..	5,149
All other materials for use in production	..	20,825	..	26,011
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard	..	3,227	..	3,591
Fibreboard packing cases	..		..	427
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)	..	735	..	607
Other packaging materials of paper and paperboard (including moulded pulp units and labels, but excluding bags and multiwall sacks and paper and board for converting into packaging materials)	..		..	422
Timber				
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates	..	586	..	721
Timber (sawn or planed) for manufacture into packing cases, etc	Th.cu.ft.		Th.cu.ft.	
	212	103	126	81
	..	40	..	110
Jute and hessian piece-goods, sacks and bags	..	180	..	180
Plastics (other than transparent regenerated cellulose film)				
Film (up to 0.01 inches thick)				
Of polyethylene	..		..	28
Of other plastics materials	..	341	..	44
Bags and sacks up to 500 gauge	..		..	85
All other packaging materials	..		..	518

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Fuel and electricity (i)	Th.tons	£'000	Th.tons	£'000
Coal	112	620	53.6	335
			..	45
Coke (including screenings) and manufactured fuel	54.8	520	40.2	522
	..	131	..	71
Derv fuel and motor spirit for use in road vehicles	Th.gal.		Th.gal.	
	3,885	795	4,911	1,376
	..	174	..	322
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	20,938	1,034	25,101	1,349
	..	186	..	648
Gas	Th.therms		Th.therms	
	40,300	2,178	36,045	2,110
	..	424	..	594
Electricity	Th.kWh		Th.kWh	
	495,986	2,937	896,192	4,434
	..	1,265	..	1,654
All other fuels	..	(j)	..	199
Total cost of materials and fuel		176,273		265,732
Goods purchased for merchanting		17,986		22,967
Canteen purchases		1,052		1,265
Total cost of purchases		195,311		289,964

(a) Terneplate was specifically included for 1963.

(b) Revised figure.

(c) For 1963 'Cadmium copper' was not specifically excluded.

(d) For 1963 'Cadmium copper' was not specifically included but 'Blister' was excluded.

(e) For 1963 'Cadmium copper' was not specifically included.

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

(g) Foil was specifically included for 1963.

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

(i) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 1,061 Th.kWh in 1963. Owing to the risk of disclosure of information relating to individual firms the total quantity for 1968 cannot be given.

(j) 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.	2,575	2,950
Transport costs			
Wages and salaries	£'000	1,989	3,004
Derv fuel and motor spirit	"	969	1,697
Tyres and other spare parts for road goods vehicles	"	..	493
Payments to other organisations for transport	{ by road { by rail and other means excluding postal services	5,385	5,741
			1,601
Costs of operating road goods vehicles			
Insurance	"	152	223
Vehicle licences	"	139	319
Depreciation	"	801	1,143
Payments to other organisations for repairs and maintenance	"	442	812
<b>Total</b>	"	<b>9,876(a)</b>	<b>15,034</b>

(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	900	1,324
Road goods vehicles	442	812
Plant, machinery and other capital equipment	1,976	3,782
Insurance, licensing and depreciation of road goods vehicles (b)	1,091	1,686
Rates, excluding water rates	2,778	4,531
Hire of plant and machinery	231	726
Postage, telephone, telegrams, cables and telex (c)	1,808	2,823
<b>Total</b>	<b>9,227</b>	<b>15,684</b>

(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)	3.7	3.8
May	2.0	1.1
June	6.7	4.3
July	4.6	4.1
August	2.4	1.6
September	6.7	5.7
October	4.4	3.0
November	1.6	1.1
December	38.4	42.9
1969		
January	3.5	5.0
February	3.1	2.4
March	20.8	24.1
April (b)	2.0	0.9
	100	100

(a) From 6 April.

(b) To 5 April.