



BOARD OF TRADE

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FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 4

Trade I

MECHANICAL ENGINEERING (GENERAL)

*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 6d. NET

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* Not applicable to this trade

MECHANICAL ENGINEERING (GENERAL) TRADE

THIS REPORT on the Mechanical Engineering (General) Trade relates to establishments engaged wholly or mainly in the manufacture of mechanical engineering products, other than those engaged in the branches mentioned below, including Government establishments for 1948 and 1935. The Marine Engineering, Machine Tools, Textile Machinery, Small Arms, Constructional Engineering, Mechanical Handling Equipment, Printing and Bookbinding Machinery and Mechanical Engineering (Repairing) Trades are excluded and are covered by separate reports (Volume 4, Trades B, C, D, E, F, G, H and J respectively).

This trade, together with part of the Mechanical Engineering (Repairing) Trade, corresponds to minimum list headings 52, 53, 55, 57 (ordnance establishments only) and 69 (1-6, 9-12) in the Standard Industrial Classification.

Establishments in this trade in Northern Ireland (which are excluded in 1948) accounted in 1946 for 2 per cent., and in 1937 for a half of one per cent. of the total net output for the United Kingdom. In 1935 establishments in Northern Ireland, including those wholly or mainly engaged in the manufacture and repair of textile machinery and in constructional engineering, accounted for one per cent. of the total.

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS
MECHANICAL ENGINEERING (GENERAL) TRADE

Summary

Larger establishments

TABLE 1

	1948 (a)	1946(b)(c)	1937(b)(c)	1935 (b)
Gross output (production)	£'000 468,951	£'000 316,375	£'000 150,707	£'000 103,178
Cost of materials and fuel used	202,140	129,192	63,871	41,264
Payment for work done on materials given out	10,466	6,409	1,256	638
Net output	256,345	180,774	85,580	61,276
Wages and salaries of persons employed	155,120	118,760	..	..
Average number of persons employed (d)	No. 459,818(e)	No. 415,910	No. 324,381	No. 265,107
Net output per person employed (d)	£ 557	£ 435	£ 264	£ 231
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	133,686	105,351	33,525(f)	18,284(f)
Materials and fuel	59,556	31,948	..	..
Number of establishments	No. 2,765	No. ..	No. ..	No. 1,595

(a) Great Britain only.

(b) United Kingdom.

(c) Excluding Government establishments.

(d) Excluding outworkers.

(e) For an estimate of the total number of persons employed in this trade see Table 3.

(f) Work in progress only.

The values of gross output and of materials and fuel used are derived in the following way:-

	1948	1946	1937	1935
Output of firms in this trade	£'000	£'000	£'000	£'000
Total value of sales (1948 and 1946) or production (1937 and 1935)				
Principal products (see Table 8)	391,026	306,508	108,464	80,323
Other output (see Table 10)	62,668		32,339	20,557
Adjustment for changes in stocks and work in progress	+ 19,111 (a)	+ 9,869	+ 9,904 (b)	+ 2,298 (b)
Less payment for transport by other firms	472,805	316,375	150,707	103,178
Gross output (production)	3,854			
Materials and fuel used by firms in this trade				
Purchases (see Table 13)	211,269	135,065	63,871	41,264
Adjustment for changes in stocks	- 9,129 (a)	- 5,873		
Materials and fuel used	202,140	129,192	63,871	41,264

(a) See Table 14.

(b) Work in progress only.

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Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	3,042
Average number of persons employed (a)	
Males	14,884
Females	2,163
Total	17,047

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	459,818
Employing on average ten persons or less (b)	17,047
Estimated average employment in firms not making satisfactory returns	476,865
Estimated average employment in all firms	5,515
	482,380

(a) See Tables 1 and 15.

(b) See Table 2.

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ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output £'000	Net output £'000	Persons employed No.	Remuneration			Net output per person employed £
					Wages £'000	Salaries £'000	Total £'000	
11-24	771	12,096	7,091	13,071	3,086	1,063	4,149	543
25-49	647	22,763	12,900	22,497	5,530	1,867	7,396	575
50-99	511	36,557	20,639	35,947	8,758	3,085	11,843	574
100-199	352	53,253	28,279	47,953	11,680	4,490	16,170	590
200-299	143	36,795	19,748	34,583	8,496	3,326	11,822	571
300-399	89	33,814	17,913	30,481	7,378	2,979	10,358	588
400-499	58	28,873	15,775	26,126	6,425	2,314	8,739	604
500-749	74	48,933	24,830	45,341	10,966	4,307	15,274	548
750-999	46	41,528	21,548	40,137	9,708	3,592	13,300	537
1,000-1,499	31	42,524	22,016	38,053	9,805	3,506	13,311	579
1,500-1,999	17	32,347	17,874	29,662	7,490	2,687	10,177	603
2,000 and over	26	79,468	47,733	95,967	24,150	8,432	32,582	497
Total	2,765	468,951	256,345	459,818	113,473	41,647	155,120	557

Analysis by standard region, 1948
Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output £'000	Net output		Persons employed No.	Remuneration		
			Value £'000	Percentage of total		Wages £'000	Salaries £'000	Total £'000
England	No.	£'000	£'000		No.	£'000	£'000	£'000
Northern	112	25,102	12,989	5.1	25,348	6,122	2,225	8,346
East and West Ridings of Yorkshire	298	50,391	27,090	10.6	46,874	11,660	4,036	15,696
North Midland	190	48,571	27,585	10.8	48,398	11,904	4,163	16,067
Eastern	142	38,363	21,252	8.3	36,908	8,752	3,460	12,211
London and South Eastern	725	87,651	48,245	18.8	84,758	21,405	9,187	30,592
Southern	96	12,790	7,121	2.8	12,632	3,165	1,159	4,325
South Western	132	17,242	9,323	3.6	18,305	4,207	1,577	5,784
Midland	411	60,100	32,127	12.5	55,930	14,298	4,939	19,237
North Western	378	60,995	33,271	13.0	58,629	14,499	5,125	19,625
Total England	2,484	401,204	219,004	85.4	387,782	96,013	35,871	131,883
Wales	50	6,611	3,460	1.3	6,904	1,743	576	2,318
Scotland	231	61,136	33,881	13.2	65,132	15,718	5,201	20,919
Great Britain	2,765	468,951	256,345	100.0	459,818	113,473	41,647	155,120

MECHANICAL ENGINEERING (GENERAL)

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output £'000	Sales of characteristic products £'000	Net output £'000	Persons employed No.	Remuneration			Net output per person employed £
						Wages £'000	Salaries £'000	Total £'000	
Specialist producers of	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Agricultural machinery and parts	142	23,830	18,086	11,217	20,427	5,037	1,404	6,441	549
Air conditioning, heating and ventilating plant and appliances (including fans other than electric fans), and parts	138	12,716	8,223	6,871	11,857	2,870	1,331	4,201	579
Boilers (excluding boilers for ships or locomotives) and boiler-house plant, and parts	40	19,165	13,241	11,418	19,352	4,915	2,150	7,065	590
Gas meters and parts	59	6,884	5,423	4,017	7,662	2,078	370	2,448	524
Mining machinery, excluding portable power tools, and parts	41	14,820	13,131	6,298	10,475	2,514	1,001	3,515	601
Office machinery and parts	102	13,479	11,243	8,629	16,447	3,853	1,412	5,264	525
Prime movers (stationery) and parts									
Internal combustion	28	20,816	14,922	10,462	17,839	4,471	1,552	6,023	586
Other	7	2,852	1,565	1,389	3,656	884	423	1,307	380
Pumps and parts	56	14,748	10,743	7,376	13,540	3,040	1,367	4,407	545
Refrigerating machinery and parts	47	21,204	17,245	8,474	14,072	3,597	1,436	5,032	602
Weighing machinery, other than automatic slot machines, and parts	132	4,505	3,028	3,269	5,632	1,432	425	1,857	580
Arms, ammunition, and naval, military and air force stores	32	14,005	9,754	7,920	19,859	5,260	1,431	6,691	399
Ball and roller bearings, and parts	19	17,540	16,103	10,912	19,738	5,055	1,439	6,494	553
Rolls of iron or steel for metal rolling mills or other machinery	13	2,764	2,299	1,571	2,167	704	160	865	725
Remainder of the trade	1,909	279,624		156,522	277,095	67,763	25,746	93,510	565
Total	2,765	468,951		256,345	459,818	113,473	41,647	155,120	557

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades

Larger establishments

Note - This table does not include constructional, repair and maintenance work carried out by Gas, Electricity and Water undertakings, for which see Volume 12, Trades F, G and H, respectively.

TABLE 8

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Agricultural machinery								
Ploughs								
Mechanical power	(1) 66,612	19,161	2,435	25	3,295	266	2,587	282
	(11) ..	78	18	32	..	172	..	114
			1,359					
Animal power	(1) 19,252	1,055	93	24	1,227	79	1,545	88
	(11) ..	14	4	22	..	112	..	109
			117					
Hay and grass mowers, other than rotary blade type (d)	(1) 17,356	7,215	934	17	3,872	234	3,078	155
	(11) ..	..	382	25	..	80	..	59
Reapers and binders	(1) 2,809	2,708	377	5	1,361	70	1,496	72
	(11) ..	98	11	18	..	29	..	29
			140					
Threshers	(1) 1,350	3,118	548	12	1,590	116	2,078	138
	(11) 140	..	101	21	..	26	..	27
			156					
			131					
Milking machinery	(1) 2,793	1,187	400	11	38	15	18	8
	(11) 4,348	..	706	14	..	7	..	1
			330					
			681					
Cultivators or grubbers	(1) 50,590	8,713	1,135	45				
	(11) 6,374	..	266	42				
			23					
			431					
Disc harrows	(1) 21,081	9,665	878	24				
	(11) ..	48	4	18				
			426					
Land rollers	(1) 1,369	1,414	71	41	(1) 17,624	981	12,042	678
	(11) 798	..	30	28	(11) ..	399	..	287
			8					
			9					
Planters and seeders	(1) 6,999	3,273	432	36				
	(11) 1,911	..	84	34				
			11					
			96					
Other agricultural machinery (except tractors)	(1) ..	42,854	6,156	194				
	(11) ..	..	2,410	275				
			1,263					
Unclassified agricultural machinery	(1) ..	3,416	330	61	-	-	-	-
	(11) ..	..	167	79	-	-	-	-
			706					

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Air and gas compressors and exhausters								
Air compressors and exhausters, other than compressors supplied with paint spraying equipment								
Reciprocating	(1) 17,188	4,770	1,715	44				
	(11) 3,589	..	233	39				
			390					
			506					
Rotary	(1) 7,451	799	405	21				
	(11) 4,012	..	101	17				
			101					
			101					
Other and unclassified	(1) 3,489	3,272	914	..	(1) 11,465	1,554 (e)	8,188	1,091 (e)
	(11) 6,301	..	273	(11) ..	212 (e)	..	..	14
			885					178 (e)
			297					
Gas compressors and exhausters	(1) 1,121	2,281	430	19				
	(11) ..	..	102	18				
			130					
Reconditioned air and gas compressors (1) and (11) and exhausters (f)	..	73	15	7				
			25					
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting or extracting)								
Ventilators, hoods, cowls, pipes, ductwork and the like (f)	..	24,683	3,411	393	19,150	1,098	14,196	722
			1,342					
Air, water and steam radiators (other than for use with gas) (g)	(1) 25,172	884	84	8				
	(11) ..	85	20	10				
			86					
			8					
Flerum systems	(1) ..	11,057	2,880	38				
	(11) ..	..	733	21				
			122					
Sectional boilers, other than for steam	(1) 5,052	3,656	274	8				
	(11) ..	7,636	430	9				
			190					
Unit heaters	(1) 15,777	1,534	429	31	(1) 33,495	3,106 (h)	24,390	1,998 (h)
	(11) 5,572	..	95	(11) ..	390	..	..	402
			241					118 (h)
			53					

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production			1935 (b) Production	
	Quantity		Value	No.	Tons	£'000	Quantity	Value
	No.	Tons	£'000					
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting or extracting) (contd.)								
Other descriptions, not of cast iron								
Heating plant and appliances, not elsewhere specified	{ (1) .. { (11) ..	5,858 ..	628 618 71	35 26				
Other	{ (1) .. { (11) ..	3,254 ..	683 790 160	75 53				
Unclassified (1) and (11)	..	199 ..	55 64	10	-	-	-	-
Automatic slot machines	{ (1) 818 { (11) 2,914	41 ..	34 87 227 32	7 10	867	584	516 ..	232 116 15
Battery and cell making machinery, not elsewhere specified	{ (1) .. { (11) ..	251 ..	112 130	6 15	..	(1)	..	(1)
Boilers, excluding boilers for ships or locomotives								
Water tube boilers								
Complete	{ 38 { ..	6,621 12,915	876 1,467	5	35,880	1,857	23,208	1,049
Sections, sold as such	{ .. { ..	1,072 ..	175 166	8				
Replacement parts	..	..	547	9	..	150	..	117
Locomotive type boilers for stationary purposes	{ (1) 108 { (11) ..	815 ..	98 15	5 6	1,219	69	1,706	76 3
Lancashire type	{ (1) 262 { (11) ..	6,322 ..	576 112	13 26				
Cornish type	{ (1) 31 { (11) 4	338 ..	36 4 4	10 8	{ (1) 9,817 { (11) ..	390(J) 48	8,309	339(J) 33
Economic types	{ (1) 234 { (11) 74	4,686 ..	675 150 44	23 15				
Vertical types	{ (1) 2,958 { (11) ..	7,448 311	1,022 43 97	25 18	{ (1) 17,804 { (11) ..	863 72	14,913	618 53
Other boilers, including sectional boilers for steam	{ (1) 5,748 { (11) 963	4,233 ..	526 83 284 60	39 21				

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity		Value	No.	Tons	£'000	Quantity	Value
	No.	Tons	£'000					
Boiler-house plant								
Fuel economisers	{ (1) 1,719 { (11) ..	17,721 3,197	1,330 420 143	12 9				
Feed-water heaters	{ (1) 647 { (11) 31	296 ..	49 27 11	6 10	{ (1) 32,685 { (11) ..	1,640 172	24,212	1,200 122
Steam superheaters	{ (1) 128 { (11) ..	1,892 3,782	311 634 191	7 8				
Combustion air heaters (1) and (11)	{ .. { ..	2,772 ..	403 89	7				
Feed-water injectors	{ (1) 2,139 { (11) ..	10 3	14 4 8 19	.. ..			
Flue cleaning plants	{ (1) .. { (11) ..	.. ..	219 9	7 5				
Boiler firing plant								
Forced draught grates (hand firing)	{ (1) 339 { (11) ..	658 120	44 19 11 45	8 6				
Travelling grate stokers	{ (1) 265 { (11) ..	4,908 5,912	316 510 425	6 7	{ (1) 66,597 { (11) ..	3,823 517	47,452	2,077 396
Sprinkler stokers	{ (1) 311 { (11) 94	1,047 ..	107 29 35 20 164	9 7				
Underfeed screw type stokers	{ (1) 1,148 { (11) 131	1,163 ..	241 38 125 91	16 12				
Other types	{ (1) 610 { (11) 320	1,000 ..	128 279 7 112	.. ..			
Other boiler-house plant, not elsewhere specified	{ (1) 23,485 { (11) ..	3,116 664 797	62 56					

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Boilers (excluding boilers for ships or locomotives) and boiler-house plant, unclassified							
Reconditioned (f) (1) and (11)	568	36	9	-	-	-	-
	..	76					
Other	(1) 270	124	15	-	-	-	-
	(11) ..	926					
	..	55	14	-	-	-	-
Boot and shoe making and repairing machinery (k)	(1) 1,063	751	20	1,405	505	1,411	501
	(11) ..	100		..	375	..	239
	..	774	30	..	..	..	..
Bottle washing machinery	(1) 4,842	1,352	31	..	(1)	..	(1)
	(11) ..	253		37	..	..	..
Bottling, packing, packaging and labelling machinery							
Bottling and capping	(1) 2,139	1,545	45	1,000	182(1)	..	(1)
	(11) ..	301		42	..	29	..
Filling and closing machinery for solids and semi-solids	(1) 203	175	17	..	..	..	..
	(11) ..	12		10	..	..	..
Labelling	(1) 422	249	20	(1) 1,074	457	818	345
	(11) ..	43		(11) ..	57	..	46
	..	69	22	..	..	..	..
Packing and wrapping	(1) 1,610	1,848	37	..	..	..	..
	(11) ..	101		22	..	..	..
Brick, tile and cement block making machinery	(1) 5,119	753	54	6,408	287(m)	6,161	253(m)
	(11) ..	227		87	..	250	..	206
	..	746	..	..	..	..	..
Cable making machinery	(1) 1,118	428	21	2,364	234	1,112	142
	(11) ..	228		30	..	16
	..	64	18	..	..	..	..
Carpet-sweepers, other than electrically-worked vacuum cleaners	No. 206,055	Tons 578	311	No. 293,000	Tons 977	280	..
	(1) 35,587	..		89
	(11)	34
	..	..	15	..	..	..	..
Cement making machinery	(1) ..	5,917	20	Tons 7,281	403	3,370	120
	(11) ..	74		33	..	29
	..	215	36	..	..	..	..
Centrifuges, other than cream separators and drying machines	(1) 1,686	1,561	15	..	(1)	..	(1)
	(11) ..	97		..	..	..	..
	..	246	12	..	..	..	..
Chemical and gas making machinery and plant, not elsewhere specified							
Mineral oil refining	(1) Tons 5,202	1,033	18	..	..	..	..
	(11) ..	184		17	..	..	..
Oil (other than mineral) extraction and refining	(1) 6,759	1,430	20	..	..	..	..
	(11) ..	231		7	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Chemical and gas making machinery and plant, not elsewhere specified (contd.)							
Paint, varnish and ink making	(1) 2,747	628	37	..	..	..	..
	(11) ..	138		40	..	..	..
Soap and fatty acid making	(1) 1,346	415	23	..	..	..	..
	(11) ..	24		17	..	..	..
Plastic making (moulding powder, etc.)	(1) 516	227	20	..	..	..	..
	(11) ..	106		12	..	..	..
	..	16	..	..	..	..	..
Gas producers (coal and coke)	(1) 1,371	179	10	(1) 25,997	1,426(n)	25,158	1,073(n)
	(11) ..	1,040		(11) ..	312(n)	..	108(n)
	..	559	25	..	..	..	..
Water gas plant	(1) 2,470	311	9	..	..	..	..
	(11) ..	54		10	..	..	..
	..	58	..	..	..	..	..
Other (including by-products plant for use at gas works)	(1) 32,048	3,700	102	..	..	..	..
	(11) ..	996		117	..	..	..
	..	1,861	..	..	..	..	..
Reconditioned chemical and gas making machinery and plant (f) (1) and (11)	..	58	..	..	..	..	..
Unclassified	(1) 930	202	13	..	..	..	..
	(11) ..	241		12	..	..	..
	..	53	..	..	..	..	..
Civil engineering and contracting machinery and plant	No.	Tons					
Excavators and similar digging machinery							
Trenching and ditching machines	(1) 266	2,545	10	..	..	..	..
	(11) 70	285		14	..	..	..
	..	198	..	..	..	..	..
Other (excluding cableway dragline excavators and rope-hauled dragscrapers)	(1) 1,045	19,906	12	(1) 16,045	1,458(o)	10,879	958(o)
	(11) ..	2,461		(11) ..	305	..	179

Loading shovels and dumpers	(1) 1,852	7,662	8	..	..	..	..
	(11) ..	488		18	..	..	..

Bulldozers, angledozers, rooters, graders, scrapers and levellers	(1) 814	2,175	13	..	..	..	..
	(11) 462	424		18	..	..	..
	..	15	..	..	..	..	..
	..	213	..	..	..	..	..
Pile drivers and pile driving plant (1) and (11)	(1) ..	210	11	..	36	..	..
	(11) ..	230		..	..	..	..

Mortar mixers	(1) 366	849	6	..	..	..	..
	(11) ..	225		6	..	..	..
	..	23	..	..	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Civil engineering and contracting machinery and plant (contd.)								
Concrete mixing, placing and finishing, etc. machinery								
Mixers, (fixed, portable, truck, etc.) (p)	(1) { 8,294 3,221	9,493	1,542 445 250 360	25	9,754	734	8,555	503
	(11) { .. ..	.. ..	.. 360	30	..	83	..	63
Other	(1) { 1,308 395	1,162	212 134 16 53	20	..	(1)	..	(1)
	(11) { .. ..	.. ..	.. 53	18	..	(1)	..	(1)
Tar, bitumen and asphalt plant, with or without mixing gear	(1) {	Tons 5,870 ..	732 119	22 25	..	..	..	..
Other road-making machinery (excluding portable power tools and road and sheeps-foot rollers)	(1) { 994 .. ..	.. .. ..	154 56 38	18	(1) 17,095 (11) ..	331 (q) 92	5,860	258 (q) 91
Other civil engineering machinery and plant (f)	(1) and (11) { 896 ..	.. ..	89 154	10	..	..	..	..
Reconditioned civil engineering and contracting machinery and plant (f)	(1) and (11) { 299 ..	.. ..	45 447	9	..	..	..	..
Unclassified civil engineering machinery and plant	(1) { .. ..	.. ..	61 131	..	..	..	..	..
	(11) { .. ..	.. ..	.. 131	..	..	..	..	..
Cloth cutting machinery	(1) { 134 ..	.. ..	73 80 19	7	..	(1)	..	(1)
	(11) { .. ..	.. ..	.. 19	9	..	(1)	..	(1)
Condensers, other than marine	(1) { 71	Tons 2,246 2,456	702 750 173 89	12	..	..	..	..
For steam turbine plant	(11) { .. ..	.. ..	.. 89	10	(1) 4,621 (11) ..	692 85	4,271	549 93
Other	(1) { 121	147 80	83 21 21 9	11	..	..	..	..
	(11) { .. ..	.. ..	.. 9	7	..	..	..	..
Counting and measuring mechanisms (f)	63,959	..	119 145	6	..	..	..	..
Degreasing plant								
Complete	..	477	144 19	14	..	(1)	..	(1)
Replacement parts	..	..	35	9	..	..	..	..
Unclassified	..	..	116	..	..	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Dishwashing machinery	(1) { (11) { ..	225	209 136 41	11	..	(1)	..	(1)
Drying machinery, not included elsewhere								
Centrifuges	(1) and (11) {	432 ..	143 37	6	(1) 3,085 (11) ..	292 111	2,366	187 89
Gas fired	(1) { 446 (11) { ..	1,337 ..	239 19	11	..	..	..	..
Electrically heated	(1) { 393 (11) { ..	203 ..	43 12	11	..	..	..	..
Infra-red driers	(1) { 2,176 77 (11) { ..	234	67 34 23 23 4	15	..	..	..	..
Heated by solid or pulverised fuel	(1) { 295 (11) { ..	.. 1,552	24 220 23	8	..	..	..	..
Other	(1) { 116 197 (11) { ..	975 .. 701	179 55 137 63 50	34	..	(1)	..	(1)
Electric lamp and radio valve making machinery, not elsewhere specified	(1) { .. (11) { ..	40 ..	74 155 67	16	..	..	..	..
Emulsifying machines, not elsewhere specified	(1) { .. (11) { ..	127 ..	141 108 25	12	..	..	..	..
Fans (other than electric fans), not included elsewhere	(1) { 1,393 3,653 (11) { ..	392 .. 66	83 39 8 17 17	24	..	..	..	..
Filters								
Filter presses	(1) { .. (11) { ..	2,226 ..	270 185 96	14	1,961	86	2,473	88
Other filters (f)								
Air	(1) {	1,057 ..	162 190	7	..	..	..	..
Fuel and oil	(1) {	3,058 ..	621 58	7	..	..	..	..
Other and unclassified	(1) { .. ..	.. ..	348	..	..	..	..	..
Parts	..	71	83 22	5	..	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity		Value	Quantity	Value	Quantity	Value
	No.	Tons	£'000	No.	Tons	Tons	£'000
Food preparation, processing and sterilising machinery (r)							
Bakery and biscuit ovens (s)							
Electric (1) and (11)	..	177	52	8			
	..	..	25				
Gas (1) and (11)	591	5,698	766	22			
	427	..	158				
Other (1) and (11)	190	1,868	154	25			
	169	..	63				
	..	285	37	22			
	..	..	13				
	..	..	69				
		Tons					
Bakery, biscuit and flour confectionery machinery, not elsewhere specified (1) and (11)	10,704	..	3,781	76	(1) 5,142	764(t)	9,594
	727	68				(11) ..	72	1,097(t)
Cocoa preparation, chocolate and sugar confectionery making (1) and (11)	2,211	..	640	27			
	..	..	247	32			
Canning (including industrial washing, peeling, etc.) machinery (u) (1) and (11)	1,375	..	362	20		287	41
	107	16				..	17	186
	..	..	59				32
Dairy machinery and plant, not elsewhere specified							9
Churns for butter making, combined churns and butter workers and cheese presses (1) and (11)	115	..	38	5	112	9	155
	17	5				..	1	16
Other dairy machinery (1) and (11)	5,054	..	1,154	39	3,263	495	4,115
	1,129	43				..	45	475
Mineral water making machinery and plant (1) and (11)	831	..	352	14	229	52(f)	..
	203	13				..	63	(1)
Brewing and distilling machinery and plant, not elsewhere specified (1) and (11)	9,345	..	1,425	42	4,116	456	3,425
	692	51				..	92	413
Sugar making and refining, other than centrifuges							64
Complete	9,167	..	1,422	15	8,027	428	9,765
Replacement parts	..	..	528	24	..	331	..
Unclassified	..	..	516	..	-	-	-

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity		Value	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Food preparation, processing and sterilising machinery (r) (contd.)							
Cereal breakfast food making (1) and (11)	71	18	..	10			
	..	3	..				
Other machinery for the preparation, processing or sterilising of foods, not elsewhere specified (1) and (11)	11,640	3,281	147	150			
	..	1,011	..				
Reconditioned food preparation, processing and sterilising machinery (f) (1) and (11)	310	26	5				
Unclassified food preparation, processing and sterilising machinery (1) and (11)	220	49	10				
	..	325	9				
Founding and die casting machinery (f)							
Complete	2,484	413	20	599	79	452	37
Replacement parts	..	209	9	..	13	..	14
Unclassified	..	668	14	-	-	-	-
Gas meters	No.	Tons		No.	Tons	No.	Tons
Domestic (1) and (11)	601,029	4,556	2,920	36	(1) 650,304	5,956	2,157
	182,862	..	1,030				
Other (1) and (11)	7,245	773	424				
	2,352	..	97				
Glass-making and glass-working machinery and plant (v)							
Fully or semi-automatic multi-head glass bottle making machines (1) and (11)	..	26	11	7	(1) 153	21(w)	
	..	..	86				
Other glass container making machines (1) and (11)	..	..	34				
	..	..	24				
Furnaces (1) and (11)	..	..	78	5			
	..	..	11	..			
Annealing lehrs (1) and (11)	30	440	79	13			
	6	..	24				
	..	54	10				
	..	..	93				
	..	..	35				

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Glass-making and glass-working machinery and plant (v) (contd.)	Tons	£'000	No.	Tons	£'000	Tons	£'000
Electric lamp bulb making and radio, etc. valve bulb making machines	{ (1) .. { (11) ..	72 52	7 5	{ (1) 968 { (11) ..	98 32	{ (1) 654 { (11) ..	64 39
Ophthalmic glass-working machines	{ (1) 131 { (11) ..	54 2	8 ..				
Other glass-making and glass-working machinery and plant	{ (1) 725 { (11) ..	210 132 129	34 42				
Unclassified (1) and (11)	..	290	9	-	-		
Grain machinery and plant (x)	{ (1) 8,307 { (11) ..	2,152 282 446	45 37	4,489 ..	391 139	4,643 ..	350 125
Gravel crushing, washing and screening plant	{ (1) 3,118 { (11) ..	331 219	18 28	..	(1)	..	(1)
Hydraulic machinery	No. Tons						
Hydraulic accumulators	{ (1) 50 { (11) ..	829 11	103 4	12 11			
Other descriptions, not elsewhere specified	{ (1) .. { (11) ..	1,415 166 136	23 26	{ (1) 9,600 { (11) ..	607 83	8,377 ..	459 72
Insecticide and similar spraying machinery (f)	{ (1) .. { (11) ..	431 ..	301 182 119	11 13		..	(1)
Laundrying and dry cleaning machinery, other than for textile finishing							
Wringers and mangles							
For domestic use	{ (1) 535,435 { (11) 106,928	11,533 .. 283 ..	1,832 383 47 29	29 19	19,301 ..	1,153 15	17,312 .. 21
Other	{ (1) .. { (11) ..	13 ..	3 -	5 ..			
Stands for domestic wringers and mangles, sold as such	{ (1) 38,305 { (11) 8,885	161 .. 83 ..	24 8 6 -	13 ..			
Washing machines, not electrically driven							
For domestic use							
With wringer attached	{ (1) 31,307 { (11) 9,869	1,522	311 109 74 37	10 9			

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Laundrying and dry cleaning machinery, other than for textile finishing (contd.)	No. Tons	£'000	No.	Tons	£'000	Tons	£'000
Washing machines, not electrically driven (contd.)							
For domestic use (contd.)							
Other	{ (1) 36,173 { (11) ..	721 19 ..	143 4 4				6 5
For other than domestic use	{ (1) 548 { (11) 188	940 ..	220 60 12 67				17 18
Washing machines, electrically driven							
For domestic use							
With wringer attached	{ (1) 80,715 { (11) 42,114	3,294 ..	1,269 1,150 84	16 18	{ (1) 10,902 { (11) ..	1,278(y) 78(y)	9,728 .. 1,069(y) 64(y)
With centrifugal drier	{ (1) 11,143 { (11) 20,617	1,070 ..	310 751 66	.. ..		
Other than for domestic use	{ (1) 276 { (11) 536	587 ..	155 214 41	16 16			
Hydro-extractors	{ (1) 693 { (11) 172	1,042 ..	312 35 102	13 16			
Drying machines	{ (1) 455 { (11) 418	562 ..	173 81 32	16 15			
Ironing machines	{ (1) 241 { (11) 3,036	1,891 ..	414 113 50	14 11			
Dry cleaning washers	{ (1) 234 { (11) ..	325 ..	182 20	16 12			
Steam presses	{ (1) 2,078 { (11) 488	1,594 ..	490 60 15 46	15 10			
Other laundrying and dry cleaning machinery	{ (1) .. { (11) ..	546 ..	192 168 70	33 34			
Reconditioned laundrying and dry cleaning machinery (f)	{ (1) .. { (11) ..	228 ..	35 21	..			
Lawn mowers							
Hand driven	{ (1) 481,912 { (11) ..	8,361 ..	1,387 22 143	12 25	8,631 ..	539 54	7,575 .. 416 41

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	Value
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Lawn mowers (contd.)								
Animal or mechanically driven								
Petrol motor	{ (1) 24,744 (11) 2,795	2,117	1,017	13	1,989	433	1,560	323
		..	218	18	..	98	..	92
Other	{ (1) 3,516 (11) ..	499	182	5	211	18	164	13
		..	65	6	..	13	..	7
Lighting appliances not elsewhere specified	{ (1) .. (11) ..	281	260	19	391	47	362	32
		..	224	11	..	216	..	206
		..	78		..	8	..	9
Machine tools, wood-working, other than portable power tools								
Sawing	{ (1) 20,750 (11) 3,475	5,329	1,283	82				
		..	184	55				
		..	173					
		..	153					
Planing and moulding	{ (1) 4,146 (11) 359	3,313	1,097	45				
		..	117	37				
		..	58					
		..	121					
Mortising and tenoning	{ (1) 1,684 (11) ..	1,506	458	29				
		..	62	18				
Sanding	{ (1) 1,437 (11) 342	655	184	34				
		..	36	17				
		..	5					
		..	11					
Routing, recessing, dove-tailing and locking	{ (1) 410 (11) 211	335	108	17				
		..	65	11				
		..	14					
Lathes	{ (1) 1,430 (11) ..	269	81	17	(1) 6,534	826	5,843	638
		..	17	8	(11) ..	104	..	84
Boring and drilling	{ (1) 348 (11) ..	162	62	17				
		..	7	11				
Nailing	{ (1) 97 (11) ..	118	36	..				
		..	9	..				
Universal (general joiners')	{ (1) 603 (11) 122	566	125	8				
		..	34	5				
		..	4					
Veneer and plywood	{ (1) 464 (11) ..	1,019	219	13				
		..	12	5				
		..	19					
Other wood-working machine tools	{ (1) 2,223 (11) 1,510	801	215	46				
		..	133	33				
		..	10					
		..	51					
Reconditioned wood-working machine tools (f)	{ (1) 74 (11) ..	12	12	9				
		..	42	..				
		..	83					
		..	2					

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	No.	Tons	£'000	No.	Tons	£'000	Value
Cutting tools, cutterheads, etc. for wood-working machines, except drills and saws and saw blades (f)	..	..	232	16	-	-	-
Mechanical power transmission plant							
Complete	..	6,245	1,053	40	17,522	898	17,310
	..	..	1,220				805
Replacement parts	..	..	666	49	..	128	..
Unclassified	..	..	1,647	..	-	-	-
Metallurgical furnaces							
Blast furnaces	{ (1) .. (11) ..	1,452	272	15	9,547	393	17,552
		..	214		..	122	..
Other metallurgical furnaces							
Electric	{ (1) 1,071 (11) 159	kw. capacity 31,153	787	35	865	52	259
		..	507		..	374	..
		..	66		..	19	..
		..	402	16	..	19	..
Gas	{ (1) 407 (11) 240	Therms/ hr. capacity 2,285	213	21			
		..	64				
		..	408	20			
		..	122				
Oil	{ (1) 187 (11) 257	Tons 392	33	23			
		..	91				
		..	117	18	(1) 18,623	359	10,622
		..	93		(11) ..	57	..
Other descriptions		Tons			(11) ..	42	..
Complete		335	59	25			
		..	207				
Replacement parts		..	72	20			
Unclassified		..	127	..			
Mining machinery, excluding portable power tools							
Coal cutters, power operated	{ (1) 3,908 (11) ..		1,519	11	2,093	398	1,774
		..	1,244	22	..	389	..
Winding							
Steam	{ (1) 451 (11) ..		56	5			
		..	99	8	(1) 7,956	501	10,520
Electric	{ (1) 2,699 (11) ..		346	9	(11) ..	134	..
		..	50	9			89

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Mining machinery, excluding portable power tools (contd.)	Tons	£'000	No.	Tons	£'000	Tons	£'000
Conveyors, underground							
Pneumatic	{ (1) 3,858 (11) ..	{ 443 309	{ 9 13				
Electric	{ (1) 30,437 (11) ..	{ 3,833 2,641	{ 14 20				
Power loaders							
Pneumatic	{ (1) 170 (11) ..	{ 43 25 22	{				
Electric	{ (1) 514 (11) ..	{ 188 67	{ 6 5	{ (1) 24,949 (11) ..	{ 1,407 828	{ 23,812 ..	{ 1,046 639
Hauling engines, stationary							
Pneumatic	{ (1) 1,020 (11) ..	{ 157 57 135	{ 7 13				
Electric	{ (1) 1,126 (11) ..	{ 171 198 167	{ 16 18				
Other mining machinery	{ (1) 15,318 (11) ..	{ 1,815 514 1,681	{ 74 105				
Unclassified mining machinery	{ (1) .. (11) ..	{ 1,339 377	{ 10 22	-	-	-	-
Office machinery	No.	Tons					
Accounting, calculating, adding, listing, book-keeping, billing or posting machines, or any combination thereof (not being machines operated in conjunction with punched cards), including typewriters incorporated therein							
Complete							
Electric	6,709	147	770	7			
Other	19,692	161	573	5			
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	..	..	38	7			
Cash registers and parts (other than empty ribbon spools, parts of such spools and inked ribbons)	{	{ 511 143	{ 1,011 143	{ 5 5	{ (1) 370 (11) ..	{ 693 96 92	{ 438 102 48

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales				1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
Office machinery (contd.)	No.	Tons	£'000	No.	Tons	£'000	Tons	
Punched card machines, including card punching machines and verifiers								
Complete	..	836	3,255	6				
Parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	..	222	678	5				
Typewriters								
Complete								
New								
Not exceeding 22 lb. in weight	20,741	105	277	5	46,255	575	547	
Exceeding 22 lb. in weight	46,665	806	1,333	7				
Reconditioned	{ 6,856 14,062 ..	{ 119	{ 207 336 41	{ 51	{ 5,165 78	{ 59	{ 15,396 ..	
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	..	..	106	16	..	42	..
Duplicators	{ (1) 21,322 (11) 2,759 ..	{ 1,324	{ 956 362 130 269	{ 12 12				
Addressing machines								
Complete	10,199	322	425	5				
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	..	993	401	8				
Coin sorting, counting and wrapping machines (1) and (11)	..	2	29	..				
Letter opening, letter sealing, stamp affixing, postage franking, perforating, and cheque writing machines and machines for the automatic production of typewritten correspondence, not including typewriters								
Complete	{ 4,779 55 ..	{ 81	{ 175 3 20	{ 9	{ (1) 883 (11) ..	{ 403 277	{ 601 ..	

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Office machinery (contd.)	Tons	£'000	No.	Tons	£'000	Tons	£'000
Letter opening, letter sealing, stamp affixing, postage franking, perforating, and cheque writing machines and machines for the automatic production of typewritten correspondence, not including typewriters (contd.)							
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	11	24	5				
	..	28					
Other office machinery	(1) ..	498	32				
	(11) ..	178	16				
Unclassified parts, of plastic materials (f)	..	30	11	-	-	-	-
Reconditioned office machinery (other than typewriters) (f) (1) and (11)	..	284	17				
Paint spraying, metal spraying and similar machines, excluding insecticide spraying machines	No. Tons						
	(1) ..	411	186				
	(11) ..	697	33				
	(11) ..	323	31				
Plantation machinery	(1) ..	1,540	293	..	(1)	..	(1)
	(11) ..	64	17				
Plastics working and manipulative machinery, other than presses	(1) ..	1,320	319				
	(11) ..	60	27				
	(11) ..	38	29				
Pneumatic appliances not included elsewhere	(1) ..	624	163				
	(11) ..	115	11				
Portable power tools							
Pneumatic							
Of the hand held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries	(1) 14,971	133	182				
	(11) 14,741	..	221				
	(11) ..	..	379				
	(11) ..	..	297	(1) 424	376	392	312
	(11) ..	..	..	(11) ..	54	..	191
	(11) ..	..	194				
Of the type employed in civil engineering, mining and quarrying	(1) 16,195	249	478				
	(11) 4,147	..	175				
	(11) ..	..	245				
	(11) ..	..	617				
Petrol							
Of the hand held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries	(1) 647	50	69				
	(11) 1,230	..	102		(1)	..	(1)
	(11) ..	..	53				

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Portable power tools (contd.)	No.	Tons	£'000	No.	Tons	£'000	Value
Petrol (contd.)							
Of the type employed in civil engineering, mining and quarrying	(1) 1,961	230	108	6			
	(11) 442	..	40	5			
	(11) ..	..	67				
Pottery making machinery							
Complete machines	..	1,982	312	25	..	(1)	..
	(11) ..	..	273				(1)
Replacement parts	..	..	139	31			
Unclassified	..	..	73	..			
Presses, not included elsewhere							
Tableting and pelleting presses, other than for powder metallurgy	(1) 65	72	24	15	..	(1)	
	(11) 13	..	6				
	(11) ..	..	82	12			
	(11) ..	..	86				
Plastics moulding, other than tableting and pelleting							
Hydraulic	(1) 727	2,306	676	21			
	(11) ..	166	85				
	(11) ..	..	107	(1) 563	47 (z)		
	(11) ..	..	111	(11) ..	5		(1)
Other	(1) 115	399	86	13			
	(11) ..	..	27	9			
	(11) ..	..	16				
Other presses, including baling presses							
Hydraulic	(1) 446	1,982	392	25			
	(11) ..	288	41	34	(1) 278	20 (aa)	
	(11) ..	..	95	(11) ..	2		
Other	(1) 641	927	228	48			
	(11) ..	264	42				
	(11) ..	..	76				
	(11) ..	..	83	35			
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives)		H. D.					
Internal combustion, reciprocating							
Compression ignition (diesel and dual fuel)							
Not exceeding 50 h.p.	(1) 36,884	572,248	6,641	23			
	(11) 382	..	88				
	(11) ..	..	1,335	23			
Over 50 h.p. not exceeding 300 h.p.	(1) 3,530	369,976	5,640	17	(1) 32,058	3,531 (ab)	29,492
	(11) ..	..	760	18	(11) ..	720	..
							2,750 (ab)
							584

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	No.	H.p.	£'000	No.	Tons	£'000	Tons	£'000
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives) (contd.)								
Internal combustion, reciprocating (contd.)								
Compression ignition (diesel and dual fuel) (contd.)								
Over 300 h.p. not exceeding 1,500 h.p.	{ (1) 285 { (11) ..	162,820 ..	1,759 541	11 10				
Over 1,500 h.p.	{ (1) 5 { (11) ..	9,120 ..	136 25	.. ..			
Paraffin, petrol and other spirit								
Not exceeding 10 h.p.	{ (1) 55,926 { (11) 54,105	168,734 ..	1,791 814 219 237	19 14				
Over 10 h.p. not exceeding 100 h.p.	{ (1) 1,883 { (11) ..	59,524 ..	270 38	.. ..	{ (1) 4,228 { (11) ..	626 111 101	2,792	431 65 67
Over 100 h.p.	{ (1) - { (11) -	- -	- -	- -				
Other, including gas and semi-diesel	{ (1) 353 { (11) ..	10,480 ..	180 112	6 10	1,283 ..	95(ac) 54	841 ..	59(ac) 37
Reconditioned reciprocating internal combustion engines (f)	{ (1) 235 { (11) ..	78,482 ..	1,194 176 66	6 ..	- -	- -	- -	- -
Unclassified reciprocating internal combustion engines	{ (1) .. { (11) ..	.. ..	152 1,510	5 24	- -	- -	- -	- -
Steam reciprocating	No. of sets							
Engines for driving electric generators	{ (1) 193 { (11) 8	17,596 ..	156 10 102	6 8				
Engines for driving compressors	{ (1) 83 { (11) 6	2,373 ..	28 3 16	.. ..	{ (1) 2,983 { (11) ..	301 155	2,598 ..	231 155
Other, except pumping engines	{ (1) 203 { (11) 109	12,283 ..	124 186 246	9 19				
Steam turbines	{ (1) 190 { (11) ..	619,936 ..	1,617 3,077 1,075	14 17	9,205 ..	2,133 454	7,902 ..	1,418 364
Water turbines, etc.	{ (1) 67 { (11) 15	82,128 ..	114 54 40 262	7 8	1,119 ..	118 15	745 ..	123 11

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	No.	£'000	No.	Tons	£'000	Tons	£'000
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives) (contd.)							
Other and unclassified	{ (1) .. { (11) ..	40 367	8 19	1,032 ..	100(ad) 48	891 ..	76(ad) 39
Pulp making and paper and board making machinery, including finishing machinery (ae)	{ (1) .. { (11) ..	7,067 .. 1,195	36 83	9,449 ..	705 592	7,702 ..	553 438
Pulverising plant for coal	{ (1) .. { (11) ..	1,838 ..	14 16	.. ..	(1) ..	.. ..	(1) ..
Pumps	No.						
Petrol and oil measuring	{ (1) 18,395 { (11) ..	3,334 ..	1,865 64 658	17 23	3,029 ..	698 82	2,443 ..
Hand pumps, other than petrol and oil measuring	{ (1) 111,706 { (11) ..	1,435 ..	304 52 32 23	38 17	1,444 ..	118 15	1,705 ..
Pumps, other than petrol and oil measuring and hand pumps							
Steam reciprocating	{ (1) 3,612 { (11) 4,553	2,570 ..	702 856 104 497	20 24	{ (1) 6,017 { (11) ..	634 128	4,486 ..
Other reciprocating	{ (1) 10,902 { (11) 4,648	3,804 ..	978 358 58 277	52 50			
Centrifugal and axial flow	{ (1) 49,196 { (11) 15,198	11,313 ..	3,878 1,041 136 1,251	76 73	11,240 ..	1,848(af) 312	10,930 ..
Turbine	{ (1) 369 { (11) 381	1,478 ..	232 47 92	8 8	335 ..	49 16	
Rotary	{ (1) 10,986 { (11) 10,287	1,554 ..	933 271 73 130	48 37			{ (1) 2,126 { (11) ..
Other	{ (1) 37,464 { (11) 10,412	3,919 ..	1,151 185 114 106 269	90 81	{ (1) 4,271 { (11) ..	520 61	
Reconditioned pumps (f)	{ (1) 186 { (11) 46	174 ..	40 5 6 1	9 ..	- -	- -	- -

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	No.	Tons	£'000	No.	£'000	Tons	£'000
Pumps (contd.)							
Pumps, unclassified	(1) 249	13	19	30	-	-	-
	(11) ..	212	25				
	(1) ..	..	138	24	-	-	-
	(11) ..	..	220				
Refrigerating machinery							
Automatic power operated refrigerators							
Of a storage capacity not exceeding 12 cu. ft.							
Complete	113,917	10,688	5,242	23			
	8,253	..	576				
	..	..	72				
Mechanical units, complete	29,059	1,073	902	16			
	28,517	..	1,199				
Parts	..	1,248	394	41			
	..	..	386				
Of a storage capacity over 12 cu.ft.							
Complete				No.	Tons		
Not exceeding 10 h.p.	8,800	3,354	1,041	(1) 39,820	8,342	1,506	5,045
	4,411	..	940				
	..	..	585	(11) ..	..	89(ag)	52(ag)
Over 10 h.p. and not exceeding 50 h.p.	45	97	81	7			
	314	..	471				
	..	..	89				
Over 50 h.p.	12	45	18	5			
	49	..	479				
	..	..	30				
Mechanical units, complete	10,797	1,143	899	13			
	1,534	..	230				
	..	..	53				
Parts	..	200	105	39			
	..	..	809				
Other descriptions	(1) ..	6,375	2,233	18	..	8,306	1,266
	(11) ..	..	1,712				
	(1) ..	..	633	25	..	..	123
Unclassified refrigerating machinery	(1) ..	284	232	..	..	..	896
	(11) ..	..	324				
	(1) ..	..	422	..	..	..	88
Refuse and sewage disposal machinery	(1) ..	2,473	390	16	..	8,038	417
	(11) ..	..	100				
	(1) ..	..	127	19	..	..	43
	(11) ..	..	..				32
Rubber works machinery	(1) ..	6,256	1,351	50	..	6,157	356
	(11) ..	..	141				
	(1) ..	..	412	69	..	..	78
	(11) ..	..	..				59

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Thous.	Tons	£'000	No.	Thous.	Tons	£'000
Sewing machines, not included elsewhere							
New							
Complete machines							
Industrial	135.8	4,740	1,608	13	265.1	6,079	832
	..	75	25				
Domestic	398.4	11,251	3,031	..	207.7	4,950	658
Machine heads for industrial sewing machines	2.0	38	44	6			
	2.2	..	136				
Reconditioned							
Complete machines	2.1	..	75	8	1.1	19	7
	..	..	4				
Machine heads for industrial sewing machines	1.0	..	39	5	1.6	11	10
Parts, other than needles (ah)	Tons				Tons		
	2,749	964	23	..	1,831	..	1,347
	..	181					
Steel works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified							
Cold drawing plant for bars and tubes	(1) 536	128	6	9			
	(11) ..	28	9				
Other tube making machinery, except extrusion presses	(1) 1,177	341	7	7			
	(11) ..	107	7				
Rolling mills (hot or cold), other than tube making					(1) 9,533	718	7,999
For steel	(1) 6,323	1,198	13	28	(11) ..	145	..
	(11) ..	518	28				
	(1) 2,366	520	..	7			
	(11) ..	70	87				
Other steel-works and non-ferrous machinery and plant, not elsewhere specified	(1) 5,112	1,010	51	60			
	(11) ..	427	60				
Sterilising equipment, industrial, other than for the sterilisation of foods (ak)	(1) 423	58	10	5	..	(1)	..
	(11) ..	30	19				
Stone crushing and screening machinery for quarry products	(1) 8,756	937	41	53			
	(11) ..	349	840				
Stone working machinery, not elsewhere specified	(1) 531	60	11	16	5,688	487	8,024
	(11) ..	102	32				
	(1) 1,806	431	26	32	..	182	1,124
	(11) ..	133	27				
	(1) ..	381	32	..	103	..	90
	(11) ..	..	..	..	..	..	21
	(1) ..	..	..	..	..	..	49
	(11) ..	..	..	..	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production				
	Quantity	Value	Entries	Quantity	Value	Quantity	Value			
	Tons	£'000	No.	Tons	£'000	Tons	£'000			
Testing machinery and equipment (e.g., chain testing, cement testing, aero-engine testing (f))	(1) 1,156 (11) ..	526 342 81	29 14	..	(1)	..	(1)			
Tobacco and cigarette making machinery	(1) 3,386 (11) ..	3,047 867	16 31	2,221 ..	947 277	1,014 ..	483 101			
Water and sanitary appliances, not elsewhere specified	No. Tons			No. Tons		No. Tons				
Water meters	(1) 53,710 (11) 35,138	565 ..	336 230 568 165	15	50,974 23,965	677 ..	194 189	45,208 28,351	580 ..	166 161
Water softeners, domestic	(1) 874 (11) ..	198 44 29	11 7	..	..	..	..	..	..	..
Other water and sanitary appliances, excluding plant for waterworks	(1) 5,971 (11) ..	970 46 132	..	(1) 16,460 (11) ..	524 129 33 (al)	2,306 ..	328 223 23 (al)	..	..	..
Water works equipment and plant	(1) 5,502 (11) ..	636 196 118	27 33	18,473 ..	794 26	15,623 ..	644 58 26	..	..	..
Weighing machinery, other than automatic slot machines	(1) 16,451 (11) ..	3,801 251	39 34	17,043 ..	1,814 96	15,265 ..	1,470 79	..	..	..
Well drilling machinery										
Complete machines	2,093 ..	468 100	11	..	..	..	..	..	..	..
Replacement parts	..	204	14	..	(1)	..	(1)	..	..	..
Unclassified	..	1,111	..	..	..	..	..	..	..	..
Wire making machinery	(1) 1,720 (11) ..	430 66 80	18 27	770 ..	79 16	975 ..	86 8	..	..	..
Wire working and wire winding machinery, other than cable making machinery	(1) 706 (11) ..	222 54 146	38 32	442 ..	69 (am) 6	..	(1)	..	..	..
Ball and roller bearings										
Ball bearings and parts	..	16,311	24	9,298 4,194	2,973 1,699	7,416 3,076	2,083 1,174	..	..	..
Roller bearings and parts	..	..	..	..	..	..	..	..	..	..
Bearings (other than ball and roller bearings) and bushes, of all metals (f)	(1) 1,291 (11) ..	716 3,614	53	..	..	..	..	..	..	..
Burners, sold as such	No. Tons									
Gaseous fuel	.. 758	375 122	25	..	(1)	..	(1)	..	..	..
Oil fuel and pulverised fuel	3,896 3,318	304 .. 344 ..	179 173 199 162	27	..	..	..	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Chains (steel), transmission Roller type							
Up to and including 0.625 in. pitch, not exceeding 0.2 in. in width between inner plates	2,516	810	..	..	..	..	..
Up to and including 0.625 in. pitch, exceeding 0.2 in. in width between inner plates	1,665	1,224	5	5,587	1,207	4,499	924
Over 0.625 in. pitch	2,978	1,140	16	..	..	..	..
Other	1,474	429	11	..	..	..	..
Engine parts, not elsewhere specified, sold separately							
Pistons	3,944 ..	1,925 351	17	699 ..	158 65	603 ..	131 22
Piston rings, packing rings, etc.	2,948 Thous. 341.6	1,026 278	20	1,279	754	978	596
Cylinder liners and inserts (f)	..	212 364	8	..	..	..	..
Gears and gear wheels, sold separately	Tons						
For vehicles	..	802	34	2,239 ..	496 91	1,826 ..	330 346
Other than for vehicles	14,247 ..	2,344 2,113	213	20,307 ..	1,563 351	13,127 ..	989 283
Unclassified	1,237 ..	344 673	15	852 ..	90 155	..	..
Lubricators and parts (other than for railway wagon, etc. axle boxes), not included elsewhere (f)	..	419	14	..	..	..	..
Mechanical remote controls (f)	..	538	7	Thous. ..	..	..	..
Oil seals (f)	Thous. 11,642	945	10	..	..	..	..
Pressure gauges							
Complete	2,120 ..	1,048 345	62	368 ..	201 86	..	230
Parts (movements, etc.) (f)	..	76	5	..	..	..	..
Pulleys and pulley wheels, of metal, complete and parts thereof, sold separately (an)	Tons 5,009 ..	448 345	79	11,323	526	..	152(f)
Rolls of iron or steel							
For metal rolling mills							
Cast iron	39,973	2,284	36	..	(ao)	..	(ao)
Cast steel	9,191	668	21	..	..	..	..
Other	209	18	7	..	..	..	..

TABLE 8 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Rolls of iron or steel (contd.)	Tons	£'000	No.	Tons	£'000	Tons	£'000
For machinery, other than metal-working							
Cast iron	7,649	539	48	..	(1)	..	(1)
Other	324	36	11				
Valves, other than for motor vehicles, and cocks (excluding valves and cocks of brass or other copper alloys), sold separately	33,599	7,154	109	19,476	1,863	12,986	893
Wooden accessories, other than patterns (f)	..	377	78	-	-	..	90(ap)
Machinery and parts, not elsewhere specified (aq)	(1) 8,851	2,326	..	51,920	5,175	56,662	5,055
	(11) ..	2,803	..	..	699	..	70
	..	1,460	..	..	1,417	..	1,276
Reconditioned machinery and plant, not elsewhere specified (f)	..	1,731	31	..	204	..	594
Other engineering products							
Arms, ammunition and naval, military and air force stores, not elsewhere specified	26,154	11,949	..	..	11,117	..	5,024
Blacksmiths' equipment, not elsewhere specified (portable forges, bellows, hearths, etc.) (f)	..	91	8	-	-	-	-
Canteen and cafe boiler, etc. sets (excluding purely sheet metal catering equipment) and parts (f)							
Gas	85	87	5	-	-	-	-
	..	265	..	..	..	..	..
Other and unclassified	140	186	7	-	-	-	-
	..	108	..	..	..	..	..
Engineers' patterns of wood or metal (f)	..	1,374	193	..	27	..	128(ap)
Engines (steam, diesel, etc.) for model aircraft, ships, motor cars, etc. (f)	23,218	65	5	-	-	-	-
	..	9	..	..	..	..	..
Fairground equipment (f)	..	444	15	..	119	..	90
Playground equipment (swings, slides, etc.) (f)	655	69	6	..	..	..	..
	..	34	..	..	..	..	..
Fire extinguishing apparatus (including sprinklers), other than chemical fire extinguishers (f)	..	1,210	..	-	-	-	-
Garage equipment and plant, not elsewhere specified	2,710	654	42	1,633	181	896	61(f)
	..	257	..	..	116	..	187

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Other engineering products (contd.)	Tons	£'000	No.	Tons	£'000	Tons	£'000
Heavy duty cooking apparatus (not wholly or mainly of cast iron), not elsewhere specified (f)							
Gas	1,017	163	..	-	-	-	-
	..	116	..	..	..	..	..
Electric	151	70	5	-	-	-	-
	..	193	..	..	..	..	..
Steam	277	82	..	-	-	-	-
	..	96	..	..	..	..	..
Other and unclassified	865	140	9	-	-	-	-
	..	104	..	..	..	..	..
Heavy plate work, not included elsewhere (f)							
Bunkers, bins and silos	2,234	156	33	-	-	-	-
	..	57	..	..	..	..	..
Buoys and flotation vessels	772	81	10	-	-	-	-
	..	33	..	..	..	..	..
Heat exchangers	1,934	255	11	-	-	-	-
Pipes and chimneys	12,406	856	36	-	-	-	-
	..	116	..	..	..	..	..
Storage tanks, assembled or not	96,764	5,656	107	-	-	-	-
Pressure vessels	7,838	812	32	-	-	-	-
Sundry vessels	10,198	1,482	37	-	-	-	-
Pressure and sundry vessels, unclassified	980	152	9	-	-	-	-
	..	50	..	..	..	..	..
Welded or rivetted built up plate work	21,907	1,788	76	-	-	-	-
	..	881	..	..	..	..	..
Metal moulds	1,633	396	114	1,491	160	857	63(f)
	..	761	..	..	50	..	95
Moulding boxes and parts thereof	4,737	406	40	-	-	-	-
Ships' telegraphs (f)	..	162	..	..	85	..	64
Other and unclassified engineering products	..	17,257	..	44,504	2,381	50,970	2,113
	..	..	..	..	2,168	..	1,529
Waste products other than scrap metals	6,798	64	178	..	(1)	..	(1)
	..	34	..	..	..	..	..
Installation work other than constructional engineering work (ar)		5,383	330		(1)		(1)
Research and development work (f) (ar)		1,019	20		-		-
Repair and jobbing work, including roller covering (ar)		14,321	1,314		4,389		6,085

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b)(c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Case-hardening done on commission (f)(ar)		£'000	No.		£'000		£'000
Other work done for the trade or on commission (ar)		127	8		1,847		987
Total		5,653	516				
Less sales (or production) in other trades (see Table 9)		460,083	..		122,214		91,439
Total principal products of this trade sold or made by establishments in the trade		69,058	..		13,750		11,116
		391,026	2,391		108,464		80,323

- (a) Great Britain only.
 (b) United Kingdom.
 (c) Excluding Government establishments.
 (d) Described as "Grass cutters other than lawn mowers" in 1937 and 1935.
 (e) Recorded as:-

	1937		1935	
	Tons	£'000	Tons	£'000
Air and gas compressors and exhausters				
Reciprocating	{ (1) 8,827	1,245	6,689	905
Rotary	{ (11) ..	170	..	141
Other	{ (1) 1,566	194	1,005	133
	{ (11) ..	26	..	23
	{ (1) 1,072	115	494	53
	{ (11) ..	16	..	14

- (f) So far as recorded separately.
 (g) For radiators of cast iron see the Iron Foundries Trade (Volume 3, Trade C).
 (h) Recorded as:-

	1937		1935	
	Tons	£'000	Tons	£'000
Heating and ventilating plant and appliances (other than of cast iron)				
Air filtering machinery	{ (1) 1,254	166	499	62
Radiators	{ (11) ..	7	..	5
Other descriptions	{ (1) 2,730	186	..	..
	{ (11) ..	10	{ (1) 23,891	1,936
	{ (1) 29,511	2,754	..	402
	{ (11) ..	390	{ (11) ..	113
	{ (11) ..	122	..	..

- (i) Not recorded separately.
 (j) Including Galloway boilers.
 (k) Described as "Boot and shoe making machinery" in 1937 and 1935.
 (l) Bottling machinery, so far as recorded separately.
 (m) Described as "Brickmaking machinery".
 (n) Recorded as:-

	1937		1935	
	Tons	£'000	Tons	£'000
Gas and chemical machinery	{ (1) 25,418	1,364	25,158	1,073
	{ (11) ..	307	..	108
Paint making, grinding and mixing machinery so far as recorded separately	{ (1) 579	62	-	-
	{ (11) ..	5	-	-

- (o) Described as "Excavating machinery".
 (p) Described as "Concrete mixing machinery" in 1937 and 1935.
 (q) Described as "Road making machinery (excluding concrete mixers, excavating machinery, pneumatic drills and road rollers)".
 (r) Not described as including sterilising machinery in 1935.
 (s) Described as "Bakers' ovens" in 1937 and 1935.
 (t) Described as "Bakers' and confectioners' machinery, including sweet making machinery", but excluding bakers' ovens (so far as recorded separately in 1935).
 (u) Described as "Canning machinery" in 1937 and 1935.
 (v) Excluding glass-making machinery and plant in 1937 and 1935.
 (w) Described as "Bottle and phial making machinery".
 (x) Described as "Grain milling machinery" in 1937 and 1935.

TABLE 8 (contd.)

(y) Recorded as:-	1937		1935	
	Tons	£'000	Tons	£'000
Laundering machinery, other than for textile finishing				
Washing machines, mechanical	{ (1) 3,045	418	{ (1) 9,728	1,089
Other, except wringers and mangles for domestic use	{ (11) ..	14	{ (11) ..	64
	{ (1) 7,857	860		
	{ (11) ..	64		

- (z) Including all presses for the plastics industry.
 (aa) Described as "Scrap bundling presses and machines".
 (ab) Including semi-diesel and similar engines.
 (ac) Gas engines only.
 (ad) Pumping engines.
 (ae) Described as "Paper making and board making machines" in 1937 and 1935.
 (af) Described as "Centrifugal".
 (ag) Recorded as:-

	1937		1935	
	No.	Tons	Tons	£'000
Refrigerating machinery Automatic power operated refrigerators				
Not more than 1/3 h.p.	{ (1) 35,869	4,740	{ 2,248	389
	{ (11) ..	25	{ ..	13
Over 1/3 h.p.	{ (1) 3,951	3,602	{ 2,797	385
	{ (11) ..	64	{ ..	483
			{ ..	39

- (ah) The 1937 and 1935 figures include needles made by establishments manufacturing sewing machines.
 (ai) Recorded as:-

	1937		1935	
	Tons	£'000	Tons	£'000
Rolling mill machinery and steel-works plant, not elsewhere specified				
Draw benches	{ (1) 676	35	{ (1) 2,264	389
Reeling or straightening machines	{ (11) ..	4	{ ..	13
Other (excluding rolls for rolling mills)	{ (1) 291	31	{ (1) 7,366	585
Tube making machinery	{ (11) ..	10	{ (11) ..	109
For welded tubes	{ (1) 62	4	{ (1) 1,138	63
Other than for welded tubes	{ (11) ..	1	{ (11) ..	21

- (aj) Recorded as:-
 Rolling mill (metal-working) machinery (excluding rolls for rolling mills), not elsewhere specified
 Tube making machinery
- | | 1937 | | 1935 | |
|---|-------------|-------|-------------|-------|
| | Tons | £'000 | Tons | £'000 |
| Rolling mill (metal-working) machinery (excluding rolls for rolling mills), not elsewhere specified | { (1) 5,735 | 331 | { (1) 2,264 | 142 |
| Tube making machinery | { (11) .. | 66 | { .. | 43 |
| | { (1) .. | 142 | { (11) .. | 22 |
- (ak) For medical and hospital sterilising equipment see the Scientific, Surgical and Photographic Instruments, etc. Trade (Volume 5, Trade H).
 (al) Recorded as:-

	1937		1935	
	Tons	£'000	Tons	£'000
Water softening plant, excluding plant for waterworks (so far as recorded separately in 1935)	{ (1) 3,625	319	1,078	199
	{ (11) ..	70	..	110
	{ (11) ..	15	..	8
Other water and sanitary appliances (except water meters)	{ (1) 2,835	205	1,228	129
	{ (11) ..	59	..	113
	{ (11) ..	18	..	15

- (am) Described as "Wire working machinery other than cable making machinery".
 (an) Including split pulleys of wood in 1937 and 1935.
 (ao) For the output of rolls for rolling mills in 1937 and 1935, see the Iron Foundries Trade (Volume 3, Trade C).
 (ap) Including the following output returned by establishments in trades not covered by the 1937 Inquiry:-
 Wooden accessories, other than patterns £82,000
 Engineers' patterns of wood or metal £90,000
 (aq) Excluding marine, textile, printing and bookbinding machinery, metal-working machine tools and mechanical handling equipment - see Introductory note.
 (ar) Amount charged in 1948 and amount received in 1937 and 1935.

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

Note - This table does not include constructional, repair and maintenance work carried out by Gas, Electricity and Water undertakings, for which see Volume 12, Trades F, G and H respectively.

TABLE 9

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production			1935 (b) Production	
	Quantity		Value	Quantity		Value	Quantity	Value
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Agricultural machinery								
Ploughs								
Mechanical power	(1) 4,263	1,045	139	7	-	-	41	2
(11)	..	78	18	..	-	-	..	-
(11)	..	..	2	..	-	-	..	-
Animal power	(1) 11	2	-	..	-	-	3	-
(11)	..	14	4	..	-	-	..	1
(11)	..	..	-	..	-	-	..	1
Hay and grass mowers, other than rotary blade type	(1) 504	170	24	..	-	-	-	-
(11)	..	..	9	..	-	-	-	-
Reapers and binders	(11) ..	..	11	..	-	-	..	1
Milking machinery	(1) ..	..	1	..	-	-	12	2
(11)	..	..	9	..	-	-	..	1
Cultivators or grubbers	(1) 15,176	1,739	251	10				
(11)	4,069	..	154	..				
(11)	..	..	5	..				
(11)	..	..	63	..				
Disc harrows	(1) 20	4	1	6				
(11)	..	48	4	..				
Land rollers	(1) 419	412	16	11	(1) 177	14	657	35
(11)	50	..	2	(11) ..	15	..	..	15
(11)	..	72	8	6				
(11)	..	..	2	..				
Planters and seeders	(1) 583	35	7	5				
(11)	1	..	-	5				
(11)	..	..	4	5				
(11)	..	..	6	..				
Other agricultural machinery (except tractors), including threshers	(1) ..	9,092	1,381	66				
(11)	..	..	688	47				
(11)	..	..	294	..				
Unclassified agricultural machinery	(1) ..	883	70	47	-	-	-	-
(11)	..	..	69	59	-	-	-	-
(11)	..	..	305	..				

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production		
	Quantity		Value	Quantity	Value	Quantity	Value	
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Air and gas compressors and exhausters								
Air compressors and exhausters, other than compressors supplied with paint spraying equipment								
Reciprocating	(1) 67	55	30	12				
(11)	257	6				
(11)	62	..				
Rotary	(1)	1	..				
Other and unclassified	(1) 52	130	25	(1) 628	75	110	20	
(11)	79	..	4	(11) ..	2	..	13	
(11)	..	..	29	..			3
(11)	..	..	36	..			
Gas compressors and exhausters (1) and (11)	..	50	23	..				
(11)	..	..	21	..			
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting or extracting)								
Ventilators, hoods, cowls, pipes, ductwork and the like	..	11,830	1,511	287	10,762	502	8,860	401
(11)	..	..	635	..			
Air, water and steam radiators (other than for use with gas)	(11) ..	..	-	..			
Heating plant and appliances, not of cast iron, not elsewhere specified	(1) ..	393	164	5				
(11)	..	..	56	..			
(11)	..	..	1	..			
Plenum systems, sectional boilers (other than for steam), unit heaters, and other descriptions of air conditioning and ventilating plant and appliances (not of cast iron)	(1) ..	7,787	448	18	(1) 1,320	181(d)	1,166	181(d)
(11)	..	..	195	..	8	..	10
(11)	..	..	171	(11) ..	9(d)	..	13(d)
Unclassified (1) and (11)	..	11	1	..				
(11)	..	..	21	..			
Automatic slot machines	(11) -	-	-	-	3	..	2	

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000
Boilers, excluding boilers for ships or locomotives								
Economic types (1)	27 1	511 ..	86 2	..				
Vertical types (1) (11)	337	1,116 293 ..	155 40 8	7 ..				
Other boilers, including water tube boilers, locomotive type boilers for stationary purposes, Lancashire type and Cornish type boilers, and sectional boilers for steam (1) (11)	118 129 ..	3,257 .. 126	562 30 28 155	..	(1) 4,065 (11) ..	267 12	2,388 ..	128 3
Boiler-house plant								
Feed-water heaters (1)	5	25	4	..				
Flue cleaning plants (1) (11)	.. ..	.. ..	2 4	.. ..			
Other boiler-house plant, not elsewhere specified, including fuel economisers, steam superheaters, feed-water injectors, and boiler firing plant (other than travelling grate, stokers and underfeed screw type stokers) (1) (11)	2,836	394 27 404	.. ..	..	(1) 1,770 (11) ..	198 18	999 ..	89 28
Boilers (excluding boilers for ships or locomotives) and boiler-house plant, other than reconditioned, unclassified (1) (11)	270	124 104 36	12	..				
Boot and shoe making and repairing machinery (1) (11)	.. ..	3 5	..	..	15 ..	3 9	12 ..	2 8
Bottle washing machinery (1) (11)	48 ..	5 7	..	..	- -	- -	- -	- -
Bottling, packing, packeting and labelling machinery								
Bottling and capping (1) (11)	28 ..	20 4	8	..	7 -	1 -	- -	- -
Filling and closing machinery for solids and semi-solids (1) and (11)	..	42	..	..		
Labelling (1) and (11)	..	22	..	..	(1) 42 (11) ..	13 2	33 ..	5 1

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Bottling, packing, packeting and labelling machinery (contd.)							
Packing and wrapping (1) (11)	103 ..	98 3	10 ..				
Brick, tile and cement blockmaking machinery (1) (11)	399	56 54 51	10 12	138 ..	4 1	346 ..	10 3
Cable making machinery (1) (11)	9 ..	8 37 1	6 ..	18 -	6 -	59 -	19 -
Carpet-sweepers, other than electrically-worked vacuum cleaners (1) and (11)	..	48	9	17 ..	3 1	-	-
Centrifuges, other than cream separators and drying machines (1) and (11)	..	15	..	-	-	-	-
Chemical and gas making machinery and plant, not elsewhere specified							
Paint, varnish and ink making (1) (11)	64 ..	19 2	5 ..				
Soap and fatty acid making (1) (11)	130 ..	44 3	5 ..				
Water gas plant (1)	..	1	..				
Other, including by-products plant for use at gas works, oil extraction and refining, and plastic making machinery and plant, and gas producers (coal and coke) (1) (11)	2,732	578 126 373	.. ..	(1) 580 (11) ..	49 1	739 ..	34 7
Reconditioned chemical and gas making machinery and plant (1) and (11)	..	1	..				
Unclassified (1) (11)	.. ..	23 12	.. 7				
Civil engineering and contracting machinery and plant							
Excavators and similar digging machinery (excluding cableway dragline excavators and rope-hauled drag scrapers, (1) and (11))	1,431 ..	302 83	7	(1) 984 (11) ..	78 15	773 ..	70 6

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity		Value	Quantity	Value	Quantity	Value
	No.	Tons	£'000	No.	£'000	Tons	£'000
Civil engineering and contracting machinery and plant (contd.)							
Bulldozers, angledozers, rooters, graders, scrapers and levellers	{ (1) 10 { (11) ..	{ 10 { ..	{ 3 { 13 { 10	{ .. { ..	{ - { -	{ - { -	{ - { -
Concrete mixing, placing and finishing, etc. machinery	{ (1) 932 { (11) 848 { .. { ..	{ 1,807 { .. { 100 { ..	{ 299 { 22 { 6 { 4 { 65	{ 7 { 9	{ 1,017 { ..	{ 78 { 10	{ 460 { .. { 8
Tar, bitumen and asphalt plant, with or without mixing gear	{ (1) 718 { (11) ..	{ Tons { 718 { ..	{ 47 { 19	{ 6 { 5	{ .. { ..	{ .. { ..	{ .. { ..
Other road-making machinery (excluding portable power tools and road and sheeps-foot rollers)	{ (1) 356 { (11) ..	{ .. { ..	{ 59 { 17 { 15	{ 6 { 6	{ (1) 1,161 { (11) ..	{ 47 { 18	{ 1,047 { .. { 12
Other civil engineering machinery and plant, including loading shovels and dumpers, pile drivers and pile driving plant, mortar mixers and reconditioned machinery and plant (1) and (11)	{ (1) 2,548 { (11) ..	{ .. { ..	{ 680 { 265	{ 12	{ - { -	{ - { -	{ - { -
Unclassified civil engineering machinery and plant (1)	{ (1) ..	{ ..	{ 1	{ ..	{ - { -	{ - { -	{ - { -
Condensers, other than marine	{ (1) 22 { (11) ..	{ Tons { 328 { 2,534 { ..	{ 147 { 771 { 34	{ 7 { ..	{ 2,392 { ..	{ 395 { 21	{ 1,768 { .. { 42
Drying machinery, not included elsewhere (other than gas fired, and heated by solid or pulverised fuel) (1) and (11)	{ (1) .. { (11) ..	{ 250 { ..	{ 76 { 13	{ ..	{ - { -	{ - { -	{ 35 { 1
Electric lamp and radio valve making machinery, not elsewhere specified (1) and (11)	{ (1) .. { (11) ..	{ .. { ..	{ 52	{ ..	{ - { -	{ - { -	{ - { -
Fans (other than electric fans), not included elsewhere	{ (1) 5 { (11) 7 { .. { ..	{ 5 { .. { 6 { ..	{ 6 { - { 4 { 10 { 2	{ 7 { 6	{ - { -	{ - { -	{ - { -

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Filter presses (1)	-	-	-	-	-	292	6
Filters, other than filter presses (1) and (11)	..	186	5	-	-	-	-
Food preparation, processing and sterilising machinery							
Bakery and biscuit ovens (1) and (11)	{ 417 { ..	{ 43 { 33	{ ..	{ - { -	{ - { -	{ 35 { 14	{ 14
Bakery, biscuit and flour confectionery machinery, not elsewhere specified	{ (1) 304 { (11) ..	{ 94 { 35 { 19	{ 16 { 7	{ (1) 34 { (11) ..	{ 6 { 2	{ 131 { ..	{ 17 { 4
Cocoa preparation, chocolate and sugar confectionery making	{ (1) 7 { (11) ..	{ 3 { 8 { 4	{ ..	{ ..	{ ..	{ ..	{ ..
Canning (including industrial washing, peeling, etc.) machinery	{ (1) 42 { (11) ..	{ 19 { 1 { 2	{ 5 { ..	{ - { -	{ - { -	{ 4 { -	{ - { -
Dairy machinery and plant not elsewhere specified	{ (1) 72 { (11) ..	{ 18 { 187 { 21	{ 6 { ..	{ 620 { ..	{ 48 { 7	{ 771 { ..	{ 67 { 8
Other machinery for the preparation, processing or sterilising of foods, not elsewhere specified, including brewing and distilling and sugar making and refining machinery and plant (except centrifuges)	{ (1) 3,168 { (11) ..	{ 383 { 310 { 161	{ ..	{ 771 { ..	{ 57 { 80 { 16	{ 776 { .. { ..	{ 108 { 10 { 11
Reconditioned food preparation, processing and sterilising machinery (1) and (11)	22	2	..	-	-	-	-
Unclassified food preparation, processing and sterilising machinery	{ (1) .. { (11) ..	{ 50 { 11	{ ..	{ - { -	{ - { -	{ - { -	{ - { -
Founding and die casting machinery (1)	{ 40 { ..	{ 10 { 79	{ 6	{ - { -	{ - { -	{ 20 { 1	{ 1

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production			1935(b) Production				
	Quantity		Value	Entries	Quantity		Value	Quantity		Value	
	No.	Tons	£'000	No.	No.	Tons	£'000	No.	Tons	£'000	
Gas meters	(1)	5,638	43	28	9	8,585	57	27	14,027	91	30
	(11)	4,369	..	21							
Glass-making and glass-working machinery and plant (1) and (11)	(1)	151	40	24	(1)	61	6	103	10	2	2
	(11)	..	354	..	(11)	..	3	..	..	..	..
Grain machinery and plant	(1)	176	21	10	..	..	..	4	..	..	..
	(11)	..	73	..	..	..	..	..	..	..	..
Gravel crushing, washing and screening plant	(1)	258	37	5	..	..	..	..	..	..	..
	(11)	..	6	..	..	..	..	..	..	..	..
Hydraulic machinery (1) and (11)	(1)	140	24	7	(1)	466	30	1,234	67	..	..
	(11)	..	91	..	(11)	..	3	..	..	..	..
Insecticide and similar spraying machinery (1) and (11)	(1)	239	171	6	..	..	..	..	..	..	..
	(11)	..	38	..	..	..	..	..	..	..	..
Laundering and dry cleaning machinery, other than for textile finishing	(1)	123	17	8	(1)	836	66	1,615	126	..	..
	(11)	..	17	..	(11)	..	..	..	..	..	..
Other	(1)	2	..	..	..	..	..	..	..	..	..
	(11)	..	..	..	..	..	..	..	..	..	..
Stands for domestic wringers and mangles, sold as such	(1)	14,278	37	7	..	..	..	..	..	..	..
	(11)	1,665	..	6	..	..	..	..	..	..	..
Washing machines, not electrically driven	(1)	..	1,268	269	9	..	..	..	..	..	..
	(11)	..	..	141	6	..	..	..	..	..	..
Washing machines, electrically driven	(1)	606	28	8	(1)	117	16(e)	410	40(e)	..	..
	(11)	62,464	..	2,007	(11)	..	2(e)	..	5(e)	..	..
Other laundering and dry cleaning machinery, including drying machines and ironing machines	(1)	..	15	18	..	..	..	..	..	..	..
	(11)	..	..	24	..	..	..	..	..	..	..
Lawn mowers	(1)	..	..	45	(1)	46	3	202	21	..	..
	(11)	..	..	..	(11)	..	2	..	..	..	..
Animal or mechanically driven	(1)	2,795	..	218	..	218	54	166	39	..	..
	(11)	..	..	..	..	..	..	..	..	..	..

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production			1935(b) Production			
	Quantity		Value	Entries	Quantity		Value	Quantity		Value
	No.	Tons	£'000	No.	Tons	£'000	No.	Tons	£'000	
Lawn mowers (contd.)	..	..	..	..	..	..	..	..	..	..
Animal or mechanically driven (contd.)	(1)	28	4	2	..	..	..	..	..	..
	(11)	..	..	..	..	..	..	..	..	..
Machine tools, wood-working, other than portable power tools	(1)	9,414	509	213	..	..	..	..	..	..
	(11)	2,890	..	58	21	..	..	..	..	..
Sawing	(1)	..	..	60	..	..	..	..	..	..
	(11)	..	..	13	13	..	..	..	..	..
Planing and moulding	(1)	75	17	4	9	..	..	..	..	..
	(11)	35	..	6	..	..	..	..	..	..
Sanding	(1)	26	24	4	..	..	..	..	..	..
	(11)	..	42	5	5	..	..	..	..	..
Routing, recessing, dovetailing and locking	(1)	21	9	2	..	..	..	..	..	..
	(11)	..	..	2	..	..	..	..	..	..
Lathes	(1)	211	13	5	..	..	..	..	..	..
Boring and drilling	(1)	..	..	2	..	..	..	..	..	..
Veneer and plywood	(1)	..	55	9	..	..	..	..	..	..
Other wood-working machine tools, including mortising and tenoning machines	(1)	308	170	49	13	..	..	..	..	..
	(11)	160	..	10	9	..	..	..	..	..
Reconditioned wood-working machine tools	(1)	7	7	2	..	..	..	..	..	..
Cutting tools, cutterheads, etc., for wood-working machines, except drills and saws and saw blades	(1)	..	48	11	..	..	..	..	..	..
	(11)	..	..	..	..	..	..	..	..	..
Mechanical power transmission plant (1) and (11)	(1)	709	216	7	312	12	823	63	..	..
	(11)	..	76	..	..	14	..	38	..	..
Metallurgical furnaces	(1)	..	37	..	..	42	44	8	..	..
	(11)	..	..	..	..	..	..	22	..	..

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Metallurgical furnaces (contd.)							
Other metallurgical furnaces							
Gas (11)	..	27	..				
Oil (1)	..	1	..				
Other descriptions, including electric furnaces and parts of oil furnaces							
Complete	..	90	8	(1) 29 (11) ..	1 2	760 ..	33 7
Replacement parts	..	76	6	(11) ..	-	..	3
Unclassified	..	127	..				
Mining machinery, excluding portable power tools							
Coal cutters, power operated (1) and (11)	..	35	5	551 ..	98 105	495 ..	84 79
Conveyors, underground, electric (1) and (11)	..	95	..				
Hauling engines, stationary, electric (1) and (11)	..	21	..				
Other mining machinery, including electric winding machinery, pneumatic power loaders and pneumatic stationary hauling engines	{ (1) (11)	2,391 ..	181 61	(1) 416 (11) ..	28 40	382 ..	24 12
Unclassified mining machinery	{ (1) (11)	.. ..	85 75	- -	- -	- -	- -
Office machinery	No.	Tons					
Accounting, calculating, adding, listing, book-keeping, billing or posting machines, or any combination thereof (not being machines operated in conjunction with punched cards), including typewriters incorporated therein							
Complete, electric	11	-	1	-	-	-	-
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	..	..	2	-	-	-	-

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	No.	Tons	£'000	No.	Tons	£'000	£'000
Office machinery (contd.)							
Typewriters							
Complete, new (not exceeding 22 lb. in weight), and reconditioned	{ 1,609 4,448 ..	{ 26	{ 36 116 13	27	-	-	-
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons		Tons					
Letter opening, letter sealing, stamp affixing, postage franking, perforating, and cheque writing machines and machines for the automatic production of typewritten correspondence, not including typewriters (1)	..		4	-	-	-	1
Other office machinery, including punched card machines and duplicators (1) (11)	..		359 34	..	(1) - (11) -	-	8 -
Unclassified parts, of plastic materials	..		30	11	-	-	-
Reconditioned office machinery (other than typewriters) (1) and (11)	..		28	7	-	-	-
Paint spraying, metal spraying and similar machines, excluding insecticide spraying machines (1) and (11)	..		17	5	-	-	-
Plantation machinery (1) and (11)	..		6	..	-	-	-
Plastic working and manipulative machinery, other than presses (11)	{ 23	{ 4 8 9	{	5	-	-	-
Portable power tools	No.	Tons					
Pneumatic							
Of the hand held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries (1) (11)	{ 36 1,243	{ 1	{ 1 21 2 103	5	(1) 18 .. (11) ..	11 39 4	36 .. 9
Of the type employed in civil engineering, mining and quarrying (1) and (11)	..	..	152	5	-	-	-

TABLE 9 (contd.)

Kind of output (1) Complete machines etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935 (b) Production	
	Quantity		Value	Quantity	Value	Quantity	Value
	No.	Tons	£'000	No.	£'000	Tons	£'000
Portable power tools (contd.)							
Petrol	{ (1) 55 (11) ..	..	6 1	..	- -	- -	- -
Pottery making machinery	(11) ..	..	6	..	-	-	-
Presses not included elsewhere							
Plastic moulding, other than tableting and pelleting							
Hydraulic	{ (1) 81 .. (11) ..	64 35	22 7	5			
Other	{ (1) .. ..	..	2	..	(1) 14 (11) -	1	-
Other presses, including baling presses							
Hydraulic	{ (1) 3 ..	1	-	..			
Other	{ (1) 6 .. (11) ..	55 165	10 23	6			
Other	{ (1) 331 .. (11) ..	204 104	84 16	21	(1) 81 (11) -	5	-
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives)		H.p.					
Internal combustion, reciprocating							
Compression ignition (diesel and dual fuel)							
Not exceeding 50 h.p. (1) and (11)	..	..	674	6			
Over 50 h.p. not exceeding 1,500 h.p.	{ (1) 313 (11) ..	88,001	1,143	5	(1) 1,865 (11) ..	258	1,048
Over 1,500 h.p.	-	-	-	-			12

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity		Value	Quantity	Value	Quantity	Value
	No.	H.p.	£'000	No.	£'000	Tons	£'000
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives) (contd.)							
Internal combustion, reciprocating (contd.)							
Paraffin, petrol and other spirit	{ (1) 28,612 (11) 54,105	109,826	957	11	37	9	28
Other, including gas and semi-diesel (1) and (11)	..	..	614	..	..	105	65
Unclassified (including reconditioned) reciprocating internal combustion engines	{ (1) .. (11) ..	..	219	..	..	3	2
Steam reciprocating, except pumping engines	{ (1) .. (11) ..	30	1,234	12	-	-	-
Steam turbines	{ (1) .. (11) ..	..	..	..	110	13	117
Other and unclassified, including water turbines, etc.	{ (1) .. (11) ..	..	58	15	..	2	..
Pulpmaking and paper and board making machinery, including finishing machinery	{ (1) 139 (11) ..	92,829	294	9	6,856	1,576	5,425
Pumps	{ (1) .. (11) ..	..	730	11	..	313	..
Petrol and oil measuring	{ (1) .. (11) ..	..	46	6	-	-	2
Pumps	{ (1) .. (11) ..	..	58	15	-	-	..
Pumps	{ (1) 141 (11) ..	20	42	8	130	12	29
Pumps	{ (1) .. (11) ..	109	109	16	..	64	..
Pumps	{ (1) 240 (11) ..	25	11	5	82	20	119
Pumps	{ (1) .. (11) ..	89	49	5	..	4	..
Pumps	{ (1) .. (11) ..	54	54	5	..	4	..

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production			
	Quantity		Value	Quantity	Value	Quantity	Value		
	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000	
Pumps (contd.)	No.	Tons	£'000	No.	Tons	£'000	Tons	£'000	
Pumps, other than petrol and oil measuring and hand pumps									
Steam reciprocating	{ (1) 61 (11) ..	245	47	5					
			42	5					
			28						
	{ (1) 1,147 (11) 29	364	147	8	{ (1) 576 (11) ..	57	512	40	
Other reciprocating			10			21	..	7	
			7						
			41	6					
Centrifugal and axial flow	{ (1) 6,824 (11) ..	408	141	8	620	111	1,190	118	
			7						
			34	7	..	28	..	21	
Rotary	{ (1) 2,707 (11) 171	645	277	8					
			24						
			44						
Other pumps, including hand pumps (other than petrol and oil measuring) and turbine pumps and parts of rotary pumps	{ (1) 88 (11) 2,479	251	97		{ (1) 981 (11) ..	153	895	97	
			32			15	..	11	
			102						
			41						
			95						
Reconditioned pumps	{ (1) .. (11) ..	..	2	..	-	-	-	-	
			-	..	-	-	-	-	
Pumps, unclassified	{ (1) 9 (11) ..	5	4	25	-	-	-	-	
			25		-	-	-	-	
			90		-	-	-	-	
			52	19	-	-	-	-	
Refrigerating machinery		Tons		No.	Tons				
Automatic power operated refrigerators (1) and (11)	{ (1) 2,020 (11) ..		1,355	..	{ (1) 8,002 (11) -	1,376	202 (r)	708	136 (r)
			121					..	72
Other descriptions (1) and (11)		..	99	8	{ (1) 9 (11) ..		2	77	13
							6	..	3
Unclassified	{ (1) .. (11) ..		177	..	..		9	55	8
				..	..		2	..	46
			216	..	..		2	..	6
Refuse and sewage disposal machinery (1) and (11)		..	9	..	{ (1) 389 (11) ..		26	631	32
				..			5	..	4
Rubber works machinery	{ (1) 945 (11) ..		133	9	44	3	71	7	
			85	9	-	-	..	2	
			57						
Sewing machines, not included elsewhere		Thous.	Tons		Thous.	Tons		Thous.	Tons
New complete machines, industrial	{ - ..		3	1	4	6	1	0.1	21
			6	..					4

TABLE 9 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	1948(a) Sales			1937(b) (c) Production		1935(b) Production			
	Quantity	Value	Entries	Quantity	Value	Quantity	Value		
	Tons	£'000	No.	Tons	£'000	Tons	£'000		
Sewing machines, not included elsewhere (contd.)									
Parts, other than needles	..	16	6	-	-	..		3	
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified	{ (1) 2,767 (11) ..	631	..	70	6 (g)	448	13 (h)		
			..	2	..	..	3		
Stone crushing and screening machinery for quarry products, and stone working machinery, not elsewhere specified	{ (1) 271 (11) ..	48	10	125	3	133	5		
			11	..	3	..	2		
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	{ (1) 38 (11) ..	13	..	18	1	38	2		
			..	..	1	..	2		
Testing machinery and equipment (e.g., chain testing, cement testing, aero-engine testing)	{ (1) 37 (11) ..	7	8	-	-	-	-		
			..	-	-	-	-		
Tobacco and cigarette making machinery	{ (1) 69 (11) ..	64	6	40	8	21	10		
			9	..	1	..	2		
Water and sanitary appliances, not elsewhere specified (1) and (11)	{ (1) 183 (11) ..	39	..	{ (1) 25 (11) ..	4	55	1		
			652		71	..	93		
			7		..	6			
Water works equipment (1) and (11) and plant	{ (1) 15 (11) ..	2	..	{ (1) 28 (11) -	3	55	1		
			5		-	..	1		
Weighing machinery, other than automatic slot machines	{ (1) 158 (11) ..	43	8	7	1	321	17		
			10	7	-	..	2		
Well drilling machinery									
Complete machines	{ (1) 175 (11) ..	17	..	-	-	-	-		
			16						
Replacement parts	..	9	..	-	-	-	-		
Wire making machinery	{ (1) 13 (11) ..	5	..	-	-	214	37		
			56			..	1		
			23	7	-	-			
Wire working and wire winding machinery, other than cable making machinery (1) and (11)	{ (1) 3 (11) ..	1	..	{ (1) 66 (11) ..	8	-	-		
			102		1	-	-		

TABLE 9 (contd.)

	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Ball and roller bearings							
Ball bearings and parts	..	88	10	35	16	16	8
Roller bearings and parts	..	..	..	7	4	10	8
Bearings (other than ball and roller bearings) and bushes, of all metals	468	282	28	-	-	-	-
..	..	299	..	..	..	..	..
Burners, sold as such	7	1	5	-	-	-	-
..	..	7	..	..	..	..	..
Chains (steel), transmission							
Roller type							
Up to and including 0.625 in. pitch	-	-	-	-	-	-	-
Over 0.625 in. pitch	50	20	9	1,080	165	1,187	174
Other	-	-	-	-	-	-	-
Engine parts, not elsewhere specified, sold separately							
Pistons	70	24	..	-	-	83	31
..	..	7	..	..	..	..	1
Cylinder liners and inserts	..	111	..	-	-	-	-
Gears and gear wheels, sold separately							
For vehicles	..	72	15	13	3	357	40
..	..	..	..	..	..	..	50
Other than for vehicles	7,301	952	110	6,120	345	2,970	178
..	..	359	..	..	78	..	64
Unclassified	25	3	5	216	25	-	-
..	..	38	..	..	72	..	..
Lubricators and parts (other than for railway wagon, etc. axle boxes), not included elsewhere	..	57	6	-	-	-	-
Thous.	384	94	..	-	-	-	-
Oil seals	..	559	48	..	98	..	110
Pressure gauges, complete and parts (movements, etc.)	..	559	48	..	98	..	110

TABLE 9 (contd.)

	1948(a) Sales			1937(b) (c) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Pulleys and pulley wheels, of metal, complete and parts thereof, sold separately	636	69	21	428	19	..	31
..	..	84	..	..	..	..	..
Rolls of iron or steel							
For metal rolling mills							
Cast iron and cast steel	12,199	660	33	-	-	-	-
Other	20	2	..	-	-	-	-
For machinery, other than metal-working							
Cast iron	3,714	169	35	-	-	-	-
Other	226	22	7	-	-	-	-
Valves, other than for motor vehicles, and cocks (excluding valves and cocks of brass or other copper alloys), sold separately	3,174	421	45	921	96	867	62
..	..	381	..	..	..	..	26
Wooden accessories, other than patterns	..	377	78	-	-	..	90
Machinery and parts, not elsewhere specified (1)							
Complete	6,338	870	..	6,674	656	5,696	456
..	..	1,242	..	..	275	..	71
Replacement parts	..	500	..	..	104	..	167
Unclassified	..	116	..	-	-	-	-
Reconditioned machinery and plant, not elsewhere specified, including reconditioned sewing machines (complete)	..	77	10	..	47	..	44
Other engineering products							
Arms, ammunition and naval, military and air force stores, not elsewhere specified	7,588	2,467	..	..	3,131	..	751
..	..	1,256	..	..	..	..	..

TABLE 9 (contd.)

	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Other engineering products (contd.)							
Blacksmiths' equipment, not elsewhere specified (portable forges, bellows, hearths, etc.)	..	8	..	-	-	-	-
Engineers' patterns of wood or metal	..	467	122	..	20	..	118
Fairground equipment and playground equipment (swings, slides, etc.)	..	152	13	..	56	..	22
Garage equipment and plant, not elsewhere specified	{ 204 ..	{ 64 45	{ 12	{ 228 ..	{ 28 41	{ 131 ..	{ 8 7
Heavy plate work, not included elsewhere							
Bunkers, bins and silos	{ 904 ..	{ 52 26	{ 11	-	-	-	-
Heat exchangers	16	2	..	-	-	-	-
Pipes and chimneys	{ 6,506 ..	{ 411 28	{ 11	-	-	-	-
Storage tanks, assembled or not	10,555	859	26	-	-	-	-
Pressure vessels	455	40	6	-	-	-	-
Sundry vessels	2,621	473	10	-	-	-	-
Pressure and sundry vessels, unclassified	13	5	..	-	-	-	-
Welded or rivetted built up plate work, including buoys and flotation vessels	{ 6,290 ..	{ 516 150	{ ..	-	-	-	-
Metal moulds	{ 873 ..	{ 142 355	{ 41	{ 356 ..	{ 34 27	{ 477 ..	{ 17 36
Moulding boxes and parts thereof	770	44	15	-	-	-	-

TABLE 9 (contd.)

	1948 (a) Sales			1937 (b) (c) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.	Tons	£'000	Tons	£'000
Other engineering products (contd.)							
Other and unclassified engineering products, including engines for model aircraft, etc., and ships' telegraphs	..	9,593	..	{ 11,835 ..	{ 699 1,017	{ 12,655 ..	{ 650 847
Installation work other than constructional engineering work (j)		627	44	-	-	-	-
Repair and jobbing work, including roller covering (j)		4,026	479		492		1,881
Other work done for the trade or on commission (including research and development work and case-hardening done on commission) (j)		1,137	..		46		166
Total		69,058	..		13,750		11,116

(a) Great Britain only.

(b) United Kingdom.

(c) Excluding Government establishments.

(d) Recorded as:-

Heating and ventilating plant and appliances (other than of cast iron)

	1937		1935	
	Tons	£'000	Tons	£'000
Air filtering machinery	{ (1) 4 (11) ..	{ - -	{ 40 ..	{ 5 1
Radiators	{ (1) 612 (11) ..	{ 49 6	{ ..	{ 1,126 176
Other descriptions	{ (1) 704 .. (11) ..	{ 132 6 3	{ (1) .. (11) ..	{ 10 12

(e) Recorded as:-

Laundering machinery, other than for textile finishing

	1937		1935	
	Tons	£'000	Tons	£'000
Washing machines, mechanical	-	-	(1) 410	40
Other, except wringers and mangles for domestic use	{ (1) 117 (11) ..	{ 18 2	{ (1) ..	{ 5

TABLE 9 (contd.)

(f) Recorded as:-	1937			1935	
	No.	Tons	£'000	Tons	£'000
Automatic power operated refrigerators					
Not more than ½ h.p.	(1) 7,699	1,330	156	{ 708	136
Over ½ h.p.	(1) 303	46	46	{ ..	6
(g) Recorded as "Rolling mill machinery and steel-works plant, not elsewhere specified, other than draw benches, reeling or straightening machines and rolls for rolling mills."				{ ..	66
(h) Recorded as:-			Tons	£'000	
Rolling mill (metal-working) machinery (excluding rolls for rolling mills), not elsewhere specified			(1) 169	8	
Tube making machinery			{ (1) 279	5	
			{ (11) ..	3	
(i) Including battery and cell making machinery, not elsewhere specified; cement making, cloth cutting, and dishwashing machinery; counting and measuring mechanisms; degreasing plant; lighting appliances, not elsewhere specified; pneumatic appliances, not included elsewhere; pulverising plant for coal; sterilising equipment, industrial, other than for the sterilisation of food; piston rings, packing rings, etc.; and mechanical remote controls.					
(j) Amount charged in 1948 and amount received in 1937 and 1935.					

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	1948 (a) Sales	1937 (b)(c) Production	1935 (b) Production
	£'000	£'000	£'000
Marine machinery and parts			
Compression ignition (diesel) internal combustion engines and parts			
Propelling	1,407	2,757	2,429
Auxiliary	1,261		
Boilers	615		
Other descriptions	2,414		
Machine tools, metal-working (other than portable power tools), and parts			
New			
Presses	930	378	663
Lathes	589	975	
Other, including welding machinery and equipment	1,825		
Reconditioned	318	-	-
Engineers' small tools	875	661	194
Textile machinery			
Finishing machinery and parts	989	318	223
Other, including parts	1,053	276	887
Accessories, sold separately	461	74	48
Mechanical handling equipment and parts			
Conveyors and elevators			
Belt	1,523	2,031	1,122
Other	1,329		
Cranes			
Road, wheel or track mounted	528		
Overhead travelling	346		
Other	507		
Winches and capstans	282		
Other and unclassified, including reconditioned equipment	1,843		

TABLE 10 (contd.)

	1948 (a) Sales	1937 (b)(c) Production	1935 (b) Production
Printing, bookbinding, paper-working, etc. machines and parts	£'000	£'000	£'000
Printing machinery	702	288	186
Other	744		
Electrical machinery and apparatus, including parts			
Generators	634	896	1,135
Motors	760		
Other	2,705		
Motor vehicles and cycles, and parts			
Complete		1,275	1,375
Tractors	458		
Industrial trucks	592		
Other commercial motor vehicles	538		
Parts			
Of motor vehicles, including motor cycles	2,091		
Of cycles	344		
Other descriptions, including trailers	170		
Aircraft parts and accessories	526	282	54
Rail locomotives and parts (except axles, tyres and wheels)	1,011	189	112
Road rollers and parts	474	178	88
Railway carriages, wagons and trucks, including rail motor vehicles, and parts (except axles, tyres and wheels)	841	138	55
Colliery tubs, trams and trucks, and parts	300	117	38
Non-mechanically propelled vehicles (except cycles) and parts	347	31	35
Electric portable power tools and parts	604	22	-
Other hand tools and implements	1,057	427	180
Hollow-ware of wrought iron or steel	741	1,884	828
Manufactures of brass or other alloys of copper, not elsewhere specified			
Valves and cocks	1,558	745	646
Other	785	551	400
Scientific instruments, apparatus and appliances	621	689	364

TABLE 10 (contd.)

	1948 (a) Sales	1937 (b)(c) Production	1935 (b) Production
Springs	£'000 451	£'000 238	£'000 147
Castings			
Iron	4,560	1,873	1,048
Steel	734	342	426
Stampings and pressings of iron or steel	428	366	199
Fabricated iron and steel	2,198	3,479	732
Jigs and fixtures	346		
Cast iron stoves, grates and ranges for domestic cooking and heating, and parts and fittings therefor	1,491	5,952	4,327
Other goods	8,291		
Scrap metals sold			
Iron and steel	763	517	246
Brass	807	262	105
Other	388	101	58
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1937 and 1935)			
Work done as main contractors			
On factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)	1,437	3,938	1,905
On gas mains and works	1,972		
Other	4,052		
Work done as sub-contractors	494		
Total constructional engineering work	7,955		
Less total value of goods made or fabricated in firms' own works and used in the work	4,727		
Total constructional engineering work, exclusive of goods made and used by firms	3,227	3,938	1,905
Repair and maintenance work on motor vehicles	780	69	302
Other work done	508		
Total	62,668	32,339	20,557

- (a) Great Britain only.
 (b) United Kingdom.
 (c) Excluding Government establishments.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	11,129	2.6
Export sales organisations (including branches abroad)	6,963	1.6
Other wholesale or selling organisations	16,769	4.0
Retail shops, etc.	273	0.1
Total sales (or transfers) to other organisations under the same control	35,134	8.3
Sales to independent buyers		
Exports invoiced directly overseas	56,840	13.4
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	21,371	5.0
His Majesty's Government and Local Authorities (other than productive establishments)	28,795	6.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	189,025	44.6
Wholesalers, merchants and other agents for resale	53,911 (a)	12.7
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	11,631	2.7
Other businesses (including farmers) and institutions of all kinds	13,443	3.2
Members of the public, including employees	2,062	0.5
Unclassified	11,526	2.7
Total sales to independent buyers	388,603	91.7
Total	423,737 (b)	100.0

(a) Of this total £40,845,000 was recorded as divided between £13,715,000 for export and £27,130,000 for other sales.

(b) This total represents the total shown in Table 23 (£453,694,000) less the aggregate value of constructional engineering work carried out in Great Britain (£7,955,000) and other work done (£22,002,000).

Production, exports and imports of certain principal products (a)

NOTE - Particulars of second-hand machinery, etc., whether reconditioned or not, are included in the overseas trade figures and, accordingly, the recorded output of reconditioned machinery, etc. has been included, so far as practicable in the detailed sales (or production) figures shown. Parts are included where not otherwise specified.

TABLE 12

		Production (b)(c)		Exports (d)		Retained imports (e)	
		£'000	Tons	£'000	Tons	£'000	
Agricultural machinery							
Ploughs							
Mechanical power	{ 1948 3,812	8,714	1,267	2,690	260		
	{ 1937 438	1,498	118	2,057	104		
Animal power	{ 1948 214	2,110	251	92	12		
	{ 1937 191	2,853	120	329	14		
Hay and grass mowers, other than rotary blade type (f)	{ 1948 1,316	1,231	259	1,558	190		
	{ 1937 314	573	34	1,092	57		
Reapers and binders	{ 1948 528	647	111	1,374	215		
	{ 1937 99	675	39	2,437	138		
Threshers	{ 1948 936	1,319	234	392	106		
	{ 1937 142	625	53	25	2		
Milking machinery	{ 1948 2,117	280	158	21	11		
	{ 1937 22	51	13	192	91		
Other descriptions							
Planters and seeders	1948 623	81	20	155	24		
Other (except tractors)	1948 13,110	21,672	3,543	8,817	2,037		
Total other descriptions	{ 1948 13,733	21,753	3,563	8,972	2,061		
	{ 1937 1,380	4,516	411	3,276	192		
Total agricultural machinery	{ 1948 23,859 (g)	36,054	5,843	15,099	2,857		
	{ 1937 2,586	10,791	788	9,408	598		
Air and gas compressors and exhausters		Tons	£'000	No.	No.		
Complete							
Air compressors and exhausters (other than compressors supplied with paint spraying equipment)	1948 ..	5,017	{ 10,038 Tcns	2,187	{ 169 Tons	105	
			{ 6,070		{ 222		
Gas compressors and exhausters	1948 2,820 (h)	532	{ No. 115	136	{ No. 200	113	
			{ Tons 419		{ Tons 101		
Parts	1948 ..	1,034	719	377	264	172	
Total air and gas compressors and exhausters	{ 1948 ..	6,823 (g)	7,208	2,700	587	390	
	{ 1937 ..	1,766	2,804	419	829	137	

TABLE 12 (contd.)

		Production (b) (c)		Exports (d)		Retained imports (e)		
		£'000	Tons	£'000	Tons	£'000	Tons	£'000
Battery and cell making machinery, not elsewhere specified	1948	242	54	44	13	10		
Boilers, excluding boilers for ships or locomotives								
Water tube boilers (1)	{ 1948 1937	{ 3,231 2,007	{ 27,730 34,860	{ 3,943 2,034	{ 29 180	{ 43 12		
Locomotive type boilers for stationary purposes	{ 1948 1937	{ 113 71	{ 485 565	{ 66 35	{ .. 3	{ (j) -		
Lancashire and Cornish types	{ 1948 1937	{ 732 438	{ 2,603 1,018	{ 261 44	{ .. -	{ (j) -		
Other descriptions								
Economic types	1948	869	959	108				
Vertical types	1948	1,162	2,483	365	637	62		
Other boilers, including sectional boilers for steam (1)	1948	953	5,692	876				
Total other descriptions (1)	{ 1948 1937	{ 2,984 935	{ 9,134 2,833	{ 1,349 164	{ 637 51	{ 62 4		
Boiler-house plant								
Fuel economisers, feed-water heaters and steam superheaters	{ 1948 1937	{ 3,116 1,812	{ 7,157 7,583	{ 859 345	{ 5 56	{ 1 9		
Other descriptions								
Feed-water injectors	1948	45	17,259	3,284	-	-		
Other	1948	8,043 (k)			137	46		
Total other descriptions	{ 1948 1937	{ 8,088 (k) 4,340	{ 17,259 7,626	{ 3,284 494	{ 137 471	{ 46 76		
Total boilers and boiler-house plant	{ 1948 1937	{ 19,481 (g) (k) 9,603	{ 64,368 54,485	{ 9,761 3,116	{ 808 761	{ 152 101		
Boot and shoe making and repairing machinery (1)	{ 1948 1937	{ 1,625 880	{ 746 623	{ 626 186	{ 210 225	{ 143 80		
Bottling, packing, packeting, canning and labelling machinery	{ 1948 1937	{ 4,871 783	{ 1,307 367	{ 1,495 197	{ 670 399	{ 680 176		
Cement making machinery	{ 1948 1937	{ 849 436	{ 6,761 1,747	{ 691 86	{ 77 4,401	{ 8 277		
Excavators and similar digging machinery (excluding cableway dragline excavators and rope-hauled drag scrapers), complete	1948	No. 1,381 Tons 4,778 23,700 (h)	No. 817 Tons 9,322	1,931	No. 574 Tons 17,202	4,089		

TABLE 12 (contd.)

		Production (b) (c)		Exports (d)		Retained imports (e)		
		£'000	Tons	£'000	Tons	£'000	Tons	£'000
Concrete mixers	{ 1948 1937	{ 2,597 817	{ 6,497 2,012	{ 1,298 154	{ 25 185	{ 9 21		
Condensers (excluding marine) (1)	{ 1948 1937	{ 1,848 777	{ 1,138 1,802	{ 318 212	{ 95 84	{ 20 10		
Drying machinery, centrifugal (including laundry hydro-extractors)	{ 1948 1937	{ 629 403 (m)	{ 884 2,628	{ 281 246	{ - 11	{ 1 -		
Electric lamp and radio valve making machinery, not elsewhere specified	1948	296	66	149	77	169		
Filter presses	{ 1948 1937	{ 551 104	{ 526 213	{ 107 13	{ 86 200	{ 36 43		
Food preparation, processing and sterilising machinery								
Bakers' and confectioners', including sweet-making machinery	{ 1948 1937	{ 7,558 1,191	{ 4,296 1,551	{ 1,813 221	{ 309 1,134	{ 143 252		
Dairy machinery and plant, not elsewhere specified								
Churns for butter making, combined churns and butter workers and cheese presses	{ 1948 1937	{ 59 10	{ 39 33	{ 24 8	{ 2 39	{ 3 5		
Other dairy machinery	{ 1948 1937	{ 2,489 540	{ 1,723 714	{ 1,083 208	{ 29 538	{ 35 142		
Sugar making and refining (other than centrifuges)	{ 1948 1937	{ 2,464 759	{ 13,774 9,902	{ 2,146 590	{ 1,211 212	{ 180 32		
Other descriptions, not elsewhere specified, except drink-making or canning machinery	{ 1948 1937	{ 5,139 908	{ 2,641 634	{ 1,123 126	{ 517 1,180	{ 251 217		
Total food preparation, processing and sterilising machinery	{ 1948 1937	{ 18,160 (g) 3,408	{ 22,673 12,834	{ 6,189 1,153	{ 2,068 3,103	{ 613 648		
Glass-making and glass-working machinery and plant (n)	{ 1948 1937	{ 1,434 171	{ 417 143	{ 176 23	{ 735 347	{ 472 98		
Grain milling machinery	{ 1948 1937	{ 2,880 (o) 530	{ 5,955 2,710	{ 1,858 282	{ 119 109	{ 30 13		
Laundering and dry cleaning machinery, other than for textile finishing, except domestic machines operated by hand and hydro-extractors			No.		No.			
Cleaners and washers, driers, wringers, ironing machines and any combination thereof, complete	1948	5,107	{ 48,513 Tons 3,695	1,327	{ 3,498 Tons 424	125		
Other, including all parts	1948	1,401	682	210	89	54		
Total laundering and dry cleaning machinery and parts	{ 1948 1937	{ 6,564 (g) 1,356 (p)	{ 4,377 745	{ 1,538 96	{ 513 2,225	{ 179 319		

TABLE 12 (contd.)

		Production (b) (c)		Exports (d)		Retained imports (e)		
		£'000	Tons	£'000	Tons	£'000		
Lawn mowers								
Hand driven	{ 1948	1,552	2,573	451	14	2		
	{ 1937	593	600	70	45	2		
Animal or mechanically driven	{ 1948	1,691	1,179	563	..	1		
	{ 1937	562	313	77	4	1		
Machine tools, wood-working (other than portable power tools)								
Sawing	1948	1,793	1,667	546	} 800	} 319		
Planing and moulding	1948	1,393	1,410	418				
Other	1948	1,977	2,571	881				
Total machine tools, wood-working	{ 1948	5,302 (g)	5,648	1,846	800	319		
	{ 1937	930	1,455	215	2,141	200		
Metallurgical furnaces								
Blast furnaces	{ 1948	486	783	109	4	1		
	{ 1937	515	3,041	105	208	16		
Other furnaces	{ 1948	3,368	4,652	870	81	22		
	{ 1937	903	2,103	142	657	77		
Mining machinery, excluding portable power tools								
Coal cutters, power operated	{ 1948	2,763	1,101	478	3	2		
	{ 1937	787	397	87	9	2		
Winding, steam and electric	{ 1948	551	2,660	438 (q)	32	5 (q)		
	{ 1937	635	3,827	252	365	14		
Other descriptions								
Conveyors, underground	1948	7,226	2,467	357	10	4		
Power loaders	1948	345	152	53	63	33		
Hauling engines (stationary), pneumatic and electric	1948	885	243	64	} 892	} 295		
Other	1948	4,010	11,515	2,111				
Total other descriptions	{ 1948	12,466	14,377	2,585	965	331		
	{ 1937	2,235	18,818	1,715	1,389	187		
Total mining machinery	{ 1948	17,496 (g)	18,138	3,500	1,000	339		
	{ 1937	3,657	23,042	2,054	1,763	203		

TABLE 12 (contd.)

		Production (b) (c)		Exports (d)		Retained imports (e)	
		No.	£'000	No.	£'000	No.	£'000
Office machinery							
Accounting, calculating, adding, listing, book-keeping, billing or posting machines, or any combination thereof (not being machines operated in conjunction with punched cards), including typewriters incorporated therein							
Complete	1948	26,401 Tons 308	1,343	8,323 Tons 103	427	10,314 Tons 305	1,486
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	1948	..	38	47	164	211	524
Cash registers and parts (other than empty ribbon spools, parts of such spools and inked ribbons)	1948	..	1,154	191	276	379	346
Typewriters		No.		No.		No.	
Complete	1948	90,000 (h) Tons 1,250 (h)	2,194	25,898 Tons 361	533	24,441 Tons 435	601
	1937	51,420 Tons 653	606	11,798 Tons 164	141	63,885 Tons 852	667
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	(1948 1937)	.. ..	106 42	32 30	30 19	33 102	68 124
Other office machinery	1948	..	7,457	1,911	2,211	148	267
Total office machinery	(1948 1937)	.. ..	12,606 (g) 2,209	2,645 1,078	3,641 701	1,511 2,137	3,292 2,175
Paint spraying, metal spraying and similar machines, excluding insecticide spraying machines	1948		1,206	185	174	8	6
Portable power tools							
Pneumatic							
Of the hand held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries, complete	1948	782		No. 10,095 Tons 116	203	No. 1,091 Tons 4	7

TABLE 12 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	£'000	No.	£'000	No.	£'000	
Portable power tools (contd.)						
Pneumatic (contd.)						
Of the type employed in civil engineering, mining and quarrying, complete	1948 898	{ 10,727 Tons 361 }	453	{ 737 Tons 22 }		37
Total pneumatic						
Complete	{ 1948 1,680 1937 430 }		477	656	26	45
Parts	1937 194		356	284	290	151
Petrol, complete						
Of the hand held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries	1948 171	{ No. 113 Tons 6 }	8	{ No. - Tons - }		-
Of the type employed in civil engineering, mining and quarrying	1948 148	{ No. 896 Tons 71 }	78	{ No. 2 Tons - }		-
Presses, not included elsewhere						
Tableting and pelleting presses, other than for powder metallurgy	1948 198		168	40	..	..
Plastics moulding, other than tableting and pelleting						
Hydraulic	1948 979		400	184	..	..
Other	1948 129		286	119	..	..
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives)	No.	£'000	No.		No.	
Internal combustion, reciprocating						
Complete (r)						
Compression ignition (diesel and dual fuel)						
Not exceeding 50 h.p.	1948 37,266	6,729	22,784	3,949		
Over 50 h.p. not exceeding 300 h.p.	1948 3,530	5,640	2,115	2,388		
Over 300 h.p. not exceeding 1,500 h.p.	1948 285	1,759	198	1,302	44	47
Over 1,500 h.p.	1948 5	136	15	317		
Paraffin, petrol and other spirit						
Not exceeding 10 h.p.	1948 ..	2,624	32,301	977		
Over 10 h.p. not exceeding 100 h.p.	1948 1,883	270	1,689	389	213	12
Over 100 h.p.	1948 -	-	48	71		
Other, including gas and semi-diesel	1948 353	180	542	233	14	4
Parts	1948 ..	4,624	Tons 4,379	2,803	Tons 134	55
Total internal combustion reciprocating	{ 1948 .. 1937 .. }	{ 23,484 (g) 5,238 }	{ 39,834 26,138 }	{ 12,429 3,005 }	{ 287 507 }	{ 118 59 }

TABLE 12 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	Tons	£'000	Tons	£'000	Tons	£'000
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives) (contd.)						
Steam reciprocating	{ 1948 .. 1937 .. }	{ 871 (s) 604 }	{ 1,351 1,119 }	{ 303 135 }	{ 64 166 }	{ 8 12 }
Steam turbines	{ 1948 .. 1937 .. }	{ 5,769 2,587 }	{ 2,673 2,253 }	{ 1,388 538 (t) }	{ 71 332 }	{ 61 44 (t) }
Water turbines, etc.	{ 1948 .. 1937 .. }	{ 470 133 }	{ 1,072 38 }	{ 479 9 }	{ 21 31 }	{ 15 4 }
Total prime movers	{ 1948 .. 1937 .. }	{ 31,001 (g) 8,562 }	{ 44,930 29,548 }	{ 14,599 3,687 }	{ 443 1,036 }	{ 201 119 }
Pulp making and paper and board making machinery, including finishing machinery (u)	{ 1948 .. 1937 .. }	{ 3,062 1,297 }	{ 4,254 5,659 }	{ 1,211 596 }	{ 844 2,229 }	{ 264 273 }
Pumps						
Petrol and oil measuring			No.		No.	
Complete	1948 3,486	1,929	{ 9,635 Tons 1,538 }	791	{ 223 Tons 136 }	7
Parts	1948 ..	658	153	142	..	..
Total petrol and oil measuring	{ 1948 .. 1937 .. }	{ 2,587 780 }	{ 1,691 258 }	{ 933 75 }	{ .. 589 }	{ .. 139 }
Hand pumps, other than petrol and oil measuring			No.		No.	
Complete	1948 1,800 (h)	388	{ 157,225 Tons 1,072 }	295	{ 403 Tons 10 }	1
Parts	1948 ..	23	24	12	..	..
Total hand pumps, other than petrol and oil measuring	{ 1948 .. 1937 .. }	{ 411 133 }	{ 1,096 223 }	{ 307 44 }	{ .. 35 }	{ .. 5 }
Pumps, other than petrol and oil measuring and hand pumps			No.		No.	
Reciprocating						
Complete	{ 1948 11,500 (h) 1937 6,017 }	{ 3,056 634 }	{ 3,561 Tons 2,165 }	580	{ 35 Tons 40 }	4
Parts	1937 ..	128	1,844	264	141	23

TABLE 12 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	Tons	£'000	No.	£'000	No.	£'000
Pumps (contd.)						
Pumps, other than petrol and oil measuring and hand pumps (contd.)						
Centrifugal and axial flow (v)						
Complete	1948 15,000(h) 1937 11,240	4,855 1,848	19,477 Tons 4,922	1,822	108 Tons 75	30
Parts	1937 ..	312	3,765	593	169	49
Rotary, complete	1948 2,100(h)	1,277	No. 3,601 Tons 482	209	No. 172 Tons 8	7
Turbine, complete	1948 No. 750 Tons 1,780(h)	279	No. 278 Tons 501	171	No. 867 Tons 585	61
Other, complete	1948 5,200(h)	1,556	No. 12,734 Tons 4,492	1,490		
Total rotary, turbine and other						
Complete	1948 9,080(h) 1937 4,606	3,112 569	5,475	1,869	593	67
Parts	1937 ..	77	1,676	294	385	100
Parts of all pumps other than petrol and oil measuring and hand pumps	1948 ..	2,516	2,515	971	297	127(w)
Total pumps (other than petrol and oil measuring and hand pumps) and parts	1948 .. 1937 ..	13,539 3,568	15,077 7,285	5,242 1,151	1,005 695	229(w) 172
Total pumps of all descriptions and parts	1948 .. 1937 ..	16,989(g) 4,481	17,864 7,766	6,483 1,270	1,151 1,319	237 316
Refrigerating machinery						
Automatic power operated refrigerators						
Complete (including complete mechanical units)	No.		No.		No.	
Of a storage capacity not exceeding 12 cu.ft.	1948 181,300(h) Tons 14,500(h)	7,991	36,257 Tons 4,248	1,659	746 Tons 65	41(x)

TABLE 12 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	Tons	£'000	No.	£'000	Tons	£'000
Refrigerating machinery (contd.)						
Automatic power operated refrigerators (contd.)						
Complete (including complete mechanical units) (contd.)						
Other	1948 ..	4,916	5,452 Tons 1,016	429		
Parts	1948 ..	1,694	1,947	789	331	285
Other descriptions	1948 ..	4,578	4,069	1,214		
Total refrigerating machinery	1948 .. 1937 ..	20,157(g) 3,968	11,280 3,322	4,091 461	396 3,563	326 698
Sewing machines, not included elsewhere	Thous.		Thous.		Thous.	
Complete machines and machine heads	1948 544.2(h)	4,962	475.1 Tons 12,355	3,915	15.5 Tons 451	989
Parts, other than needles	1937 266.2 Tons 6,098	839	149.8 Tons 2,574	444	24.3 Tons 353	139
Parts, other than needles	1948 3,260(h) 1937 ..	1,145 1,831(y)	2,861 15,074	854 1,378	76 464	350 335
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold or consigned separately), not elsewhere specified	£'000					
Cold drawing plant for bars and tubes	1948 156		84	26	8	3
Other tube making machinery, except extrusion presses	1948 448		212	75	3	2
Rolling mills (hot or cold) other than tube making	1948 2,393		1,937	446		
Other steel-works and non-ferrous machinery and plant, not elsewhere specified	1948 1,437		2,221	533	3,813	815
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	1948 945		636	216	..	..
Tobacco and cigarette making machinery	1948 3,914 1937 1,224		2,577 1,354	2,588 645	103 43	111 29
Weighing machinery	1948 4,052(z) 1937 1,910(z)		3,834 2,254	953 254	21 245	21 54

TABLE 12 (contd.)

		Production (b) (c)		Exports (d)		Retained imports (e)	
		Tons	£'000	Tons	£'000	Tons	£'000
Ball and roller bearings and parts	{ 1948 .. 1937 13,492	16,311	2,533	2,032	2,226	1,789	505
Chains (steel), transmission							
Roller type							
Up to and including 0.625 in. pitch, not exceeding 0.2 in. in width between inner plates	1948	2,516	810	940	327		
Up to and including 0.625 in. pitch, exceeding 0.2 in. in width between inner plates	1948	1,665	1,224	479	283	151	48
Over 0.625 in. pitch	1948	2,978	1,140	758	313		
Other	1948	1,700(h)	500	32	22(aa)		
Total chains (steel), transmission	{ 1948 8,859(h) 1937 5,587	3,674	2,209	945	151	48	
Rolls of iron or steel							
For metal rolling mills							
Cast iron	1948	39,973	2,284	3,691	266	567	55
Cast steel	1948	9,191	668	1,204	127	430	42
For machinery, other than metal working							
Cast iron	1948	7,649	539	1,339	100	230	15(ab)

- (a) Figures of sales (or production) refer only to larger establishments in Great Britain (1948) or the United Kingdom (1937). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Sales in 1948 and production for sale in 1937.
- (c) Including sales (or production) by establishments classified to other trades.
- (d) Valued f.o.b.
- (e) Valued c.i.f.
- (f) Described as "Grass cutters, other than lawn mowers" in 1937.
- (g) Including unclassified output (new or reconditioned).
- (h) Partly estimated.
- (i) The overseas trade figures include marine plant consigned separately.
- (j) Included with "Other descriptions".
- (k) Excluding burners and coal pulverising plant.
- (l) Described as "Boot and shoe making machinery" in 1937.
- (m) Excluding laundry hydro-extractors.
- (n) Excluding glass-making machinery and plant in 1937.
- (o) Described as "Grain machinery and plant".
- (p) Including domestic machines operated by hand, other than wringers and mangles.
- (q) Described as "Winders, power operated".
- (r) Owing to the large unclassified output (new and reconditioned engines) recorded, the 1948 sales figures for individual classes of complete internal combustion engines may be significantly understated. This unclassified output (£1,522,000) has been included in the total value shown for internal combustion engines.
- (s) Excluding pumping engines which are, however, included in the total value shown for prime movers.
- (t) Including marine steam turbines consigned separately.
- (u) Described as "Paper making and board making machines" in 1937.
- (v) Described as "Centrifugal" in 1937.
- (w) Including parts of petrol and oil measuring and hand pumps.
- (x) Described as electrically operated.
- (y) Including some needles.
- (z) Excluding automatic slot machines.
- (aa) Inverted tooth type only.
- (ab) Including rolls of steel.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948 (a)		1937 (b) (c)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Iron and steel						
Pig iron	313.3	3,317	344.5	1,637	261.0	955
Bars and rods						
Alloy steel	59.6	3,629	204.2	3,610	125.6	1,982
Iron and non-alloy steel	209.8	5,696(d)				
Angles, shapes and sections, of iron and non-alloy steel	128.7	2,710(d)	328.6	3,607(e)	79.4	814(e)
Girders, beams, joists and pillars, of iron and non-alloy steel	39.7	835					43.6	405(e)
Bars, rods, angles, shapes and sections, of iron and non-alloy steel, unclassified	45.8	1,126	-	-	-	-
Sheets and strip, of alloy steel	26.9	1,958				
Iron and non-alloy steel						
Plates and sheets						
Tinned	9.1	509	404.3	4,805(f)	208.5	2,243(f)
Other	410.3	9,349				
Hoop and strip (including tape)	25.0	1,010				
Plates, sheets, hoop and strip (including tape), unclassified	59.0	1,438				
Tubes and fittings	{ 66.0 ..	{ 4,019 551	41.8	1,248(g)	26.8	744(g)
Castings in the rough (h)						
Iron	244.9	13,522	209.5	4,475	166.9	3,189
Alloy steel	15.7	1,954	64.5	2,610	43.7	1,419
Non-alloy steel	54.3	4,622				
Forgings in the rough (h)						
Alloy steel						
Drop	7.1	788				
Other	7.4	780				
Unclassified	4.2	381				

TABLE 13 (contd.)

	1948 (a)		1937 (b) (c)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
Iron and steel (contd.)						
Forgings in the rough (h) (contd.)						
Iron and non-alloy steel			49.8	2,603	38.3	1,834
Drop	15.9	1,345				
	..	343				
Other	20.4	1,579				
Unclassified	9.7	749				
Blooms, billets and slabs, of iron and non-alloy steel	51.0	1,086				
Wire of iron and non-alloy steel						
Cables and rope	1.1	129				
	..	52				
Other	7.0	331	104.3	977	..	(1)
	..	37				
Other descriptions, except finished parts						
Alloy steel	40.2	2,058				
Iron and non-alloy steel	25.7	518				
	..	166				
Scrap	196.5	1,016				
Machined castings	13.3	1,522				
	..	340				
Chains						
Transmission	1.5	461				
	..	277				
Other	2.3	286	..	(1)	..	(1)
	..	106				
Fabricated bridge and structural steelwork	..	1,392				
Tyres, wheels and axles	2.8	250				
	..	390				

TABLE 13 (contd.)

	1948 (a)		1937 (b) (c)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials (contd.)						
Brass (including all alloys of copper, other than nickel alloys)						
Rods and sections	241.8	1,780	236.6	787		
Plates, sheets and strip	94.5	838	102.6	366		
Castings	264.0	3,191	251.4	1,278	578.5	1,856(j)
Other descriptions, except finished parts	295.8	2,111	187.5	704		
Unclassified	136.5	1,183	-	-		
Copper						
Rods and sections	57.3	479	16.9	92		
Plates, sheets and strip	90.5	905	81.6	347	197.0	600(k)
Other descriptions, except finished parts	154.1	1,459	125.7	506		
Aluminium and aluminium alloys						
Plates, sheets, strip and circles	72.9	637				
Extruded tubes, bars, sections and wire	16.6	182	61.3	439(l)	41.1	269(m)
Castings and forgings, rough dressed	170.4	2,174				
Other descriptions, except finished parts	57.5	291				
Tin						
Blocks, ingots, bars and slabs	25.9	662	21.5	237	33.1	223(n)
Other descriptions, except finished parts	11.3	125	7.3	39		
	..	38				
Lead and alloys of lead						
Pigs, ingots, blocks, bars, slabs and cakes	30.5	205	44.6	66		
Other descriptions	16.9	110	21.8	46(o)	..	(1)
Unclassified	19.7	89	-	-		
Zinc and alloys of zinc						
Ingots, blocks, bars, slabs and cakes	26.9	133	36.0	59		
Other descriptions, except finished parts	17.5	108	31.3	64	..	(1)
	..	80				
Unclassified	44.2	153	-	-		

TABLE 13 (contd.)

	1948 (a)		1937 (b) (c)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)		£'000		£'000		£'000
Consumable tools bought as replacement	..	4,256	..	960	..	(1)
Timber (excluding timber used for making into cases, etc., or for repairing returnable cases)	Th. cu. ft.					
Hardwood	833.2	512				
	..	87				
	Th. stds.					
	13.5	1,019				
	..	153				
Softwood	Th. sq. ft.		..	1,155(p)	..	(1)
	1,810.5	137				
	..	25				
Plywood	..	3,210				
Packing materials	Th. cwts.					
	2.9	22				
	..	6				
Nickel compounds for plating	..	22				
	..	6				
Chromium compounds for plating	1.1	15				
	..	2				
Paint, enamel and varnish	Th. galls.					
	1,452	1,541				
	..					
	Th. cwts.					
	14.8	262				
	..	514				
Machinery belting (including conveyor and elevator bands)	..					
	..	3,079	..	28,124	..	22,640(q)
Ball and roller bearings	..	3,079	..	28,124	..	22,640(q)
Nuts, bolts, washers, etc. (d)	..	2,339				
Purchased components, not elsewhere specified	..	67,773				
Replacement parts for firms' machinery, other than machined castings	..	1,627				
Second-hand machinery (d)	..	1,853				
All other purchased materials	..	19,962				
Unclassified materials	..	4,429				
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	570.1	1,607	571.1	620	559.4	524
Coke	372.7	1,604	343.3	575	267.4	381
Electricity purchased (r)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
	689,450	3,111				
From public supply	689,450	3,111				
From other sources	13,250	55	380,423	1,128	272,803	841
Electricity obtained from other works under the same ownership	2,600	11				
	..	3				

TABLE 13 (contd.)

	1948 (a)		1937 (b) (c)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Fuel and electricity (contd.)	Th. galls.	£'000	Th. galls.	£'000	Th. galls.	£'000
Motor spirit (petrol) and derv. fuel						
Used for road vehicles	4,085	409				
Used for other power purposes	2,248	118	..	(1)	..	(1)
Other oil fuel (including creosote/pitch mixtures)	16,766	661	11,757	206(s)	7,854	141(s)
Gas purchased	Th. therms					
	27,596	976				
From public supply	Th. cu. ft.					
	397,369	66				
	Th. therms					
From other sources	222	11	..	501	..	(1)
	..	18				
Gas obtained from other works under the same ownership	106	4				
	..	21				
All other purchased fuel	..	209				
Total		211,269		63,871		41,264

- (a) Great Britain only.
(b) United Kingdom.
(c) Excluding Government establishments.
(d) So far as recorded separately.
(e) Including alloy steel.
(f) Described as "Plates, sheets and strip of iron and steel".
(g) Described as "Wrought tubes of iron and steel".
(h) Not described as "in the rough" for 1937 and 1935.
(i) Not recorded separately.
(j) Described as "Non-ferrous alloys, in all forms".
(k) Described as "Copper, in all forms".
(l) Recorded as:-

	Th. cwts.	£'000
Aluminium and aluminium alloys:-		
Plates, sheets, bars, sections, etc.	15.5	95
Castings	36.1	303
Other descriptions, except finished parts	9.7	41

- (m) Described as "Aluminium, in all forms".
(n) Described as "Tin in all forms".
(o) Described as excluding finished parts.
(p) Described as "Timber, including hardwoods and packing cases".
(q) Including fuel not specified separately.
(r) The total quantity of electricity generated and consumed in the same works in 1948 was 101,090,000 B. T. Units.
(s) Described as "Heavy fuel oil".

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
Finished products	..	£'000 20,109	..	£'000 24,513
Work in progress		87,402		100,835
Unclassified		7,064		8,339
Total finished products and work in progress		114,575		133,688
Materials and fuel	Th. tons	£'000	Th. tons	£'000
Alloy steel in all forms, except finished parts and scrap	55.3	3,839	55.0 ..	4,084 446
Iron and non-alloy steel in all forms, except finished parts and scrap	358.1 ..	9,515 2,058	403.0 ..	11,257 2,458
Other descriptions of materials and fuel	..	28,951	..	34,536
Unclassified	..	6,064	..	6,774
Total materials and fuel		50,427		59,556

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948(c)	1937(d)(e)	1935(d)	1948(c)	1937(d)(e)	1935(d)	1948(c)	1937(d)(e)	1935(d)
Males									
Under 18	19,490	36,173	25,210	2,836	4,453	2,884	22,326	40,626	28,094
All ages	320,444	249,262	201,630	67,821	41,941	35,978	388,265	291,203	237,608
Females									
Under 18	1,907	4,747	3,884	5,289	3,837	2,323	7,196	8,584	6,207
All ages	37,935	17,904	14,792	33,264	15,274	12,707	71,199	33,178	27,499
Total									
Under 18	21,397	40,920	29,094	8,125	8,290	5,207	29,522	49,210	34,301
All ages	358,379	267,166	216,422	101,085 (f)	57,215	48,685	459,464 (f)(g)(h)	324,381	265,107
Total remuneration	£'000 113,473	..	..	£'000 41,647	..	..	£'000 155,120	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers	229 males	4,547 females
Other workers	2,387 males	818 females

- (b) Number at September 25, 1948, October 16, 1937 and October 12, 1935.
(c) Great Britain only.
(d) United Kingdom.
(e) Excluding Government establishments.
(f) There were, in addition, 354 working proprietors (340 males and 14 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.
(g) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £3,747,000.
(h) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	968	
Maintenance and repair of firms' buildings, but not plant	2,751	
Research work not directly connected with current production however charged	482	773

In addition to the employees in the above table the firms in this trade employed 12 male and 47 female outworkers in 1948, the amount paid to them being £8,000. Similar information is not available for 1937 and 1935.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
	£'000	£'000					
Wages and salaries of							
Operatives	113,473	59,246	24.0	24.8	24.1	27.1	100.0
Administrative, technical and clerical employees	41,847	22,511	24.3	24.1	24.5	27.0	100.0
Total	155,120	81,757	24.0	24.6	24.3	27.1	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

The total amount paid for work done on materials given out was £10,466,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	1,518
Of plant, machinery and vehicles	2,488
Unclassified	1,214
Hire of plant, machinery and vehicles	415
Advertising and market research	
Advertising in newspapers, magazines and periodicals	941
Other advertising services (poster display, despatch of circulars, etc.) and market research	346
Unclassified	1,145
Payments made for research work	
To research associations	53
To universities, institutions, academic bodies and similar agencies	21
To other commercial concerns	126
Postage, telephone, telegrams and cables	1,481
Commercial insurance premiums	1,573
Rates (excluding water rates) payable in the year	601

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
Plant and machinery	£'000 11,323	£'000 1,813	£'000 1,507
Vehicles	965	353	222
Total	12,288	2,166	1,729

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

1. Capital expenditure on building work (a)	£'000	£'000
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	397	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	1,757	
(111) Leasehold buildings and land newly occupied in the year	742	
Total of heading 2		2,896
Total of headings 1 and 2		6,689
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	99	
(11) Estimated value of other properties relinquished	546	
Total of heading 3		645
4. Headings 1 and 2 less heading 3		6,044

(a) Excluding site value which, where appropriate, is included in heading 2(1).

(b) The figures do not reflect changes in ownership of previously occupied land and buildings.

(c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.

(d) Including property destroyed or abandoned.

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
Gross output (production)	£'000 401,204	£'000 6,611	£'000 61,136	£'000 468,951
Cost of materials and fuel used	172,849	3,048	26,242	202,140
Payment for work done on materials given out	9,351	103	1,012	10,466
Net output	219,004	3,460	33,881	256,345
Wages and salaries of persons employed	131,883	2,318	20,919	155,120
	No.	No.	No.	No.
Average number of persons employed (a)	387,782	6,904	65,132	459,818
	£	£	£	£
Net output per person employed (a)	565	501	520	557
	£'000	£'000	£'000	£'000
Stocks at end of year				
Finished products and work in progress	111,778	1,218	20,691	133,686
Materials and fuel	51,150	1,092	7,314	59,556
	No.	No.	No.	No.
Number of establishments	2,484	50	231	2,765

(a) Excluding outworkers.

The values of gross output and of materials and fuel used are derived in the following way:-

	England	Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000	£'000
Total value of sales (see Table 23)	388,865	6,469	58,360	453,694
Adjustment for changes in stocks and work in progress	+ 15,647	+ 190	+ 3,274	+ 19,111
Less payment for transport by other firms	404,512	6,659	61,633	472,805
Gross output (production)	3,308	48	497	3,854
Gross output (production)	401,204	6,611	61,136	468,951
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	180,467	3,216	27,585	211,269
Adjustment for changes in stocks	- 7,618	- 168	- 1,343	- 9,129
Materials and fuel used	172,849	3,048	26,242	202,140

Summary

Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	2,795	61	186	3,042
Average number of persons employed (a)				
Males	13,690	287	907	14,884
Females	2,035	28	100	2,163
Total	15,725	315	1,007	17,047

(a) Including working proprietors.

Sales in the trade

Larger establishments

TABLE 23

Kind of output (1) Complete machines, etc. (11) Replacements parts	England and Wales			Scotland			Great Britain		
	Quantity		Value	Quantity		Value	Quantity		Value
Principal products	No.	Tons	£'000	No.	Tons	£'000	No.	Tons	£'000
Agricultural machinery									
Ploughs									
Mechanical power	{ (1) 61,191 (11) ..	{ 17,719 ..	{ 2,247 1,293	{ 1,158 ..	{ 397 ..	{ 49 64	{ 62,349 ..	{ 18,116 ..	{ 2,296 1,357
Animal power	{ (1) 19,085 (11) ..	{ 1,030 ..	{ 90 (a) ..	{ 156 ..	{ 23 ..	{ 2 (a) ..	{ 19,241 ..	{ 1,053 ..	{ 92 116
Hay and grass mowers, other than rotary blade type	{ (1) .. (11) ..	{	{ (a) .. (a) ..	{	{	{ (a) .. (a) ..	{ 16,852 ..	{ 7,045 ..	{ 910 373
Reapers and binders	{ (1) .. (11) ..	{	{ (a) .. (a) ..	{	{	{ (a) .. (a) ..	{ 2,809 ..	{ 2,708 98	{ 377 11
Milking machinery	{ (1) .. (11) ..	{	{ (a) .. (a) ..	{	{	{ (a) .. (a) ..	{ 2,793 4,348	{ 1,187 ..	{ 400 706
Cultivators or grubbers	{ (1) 34,190 (11) 2,087	{ 6,692 ..	{ 856 109	{ 1,224 218	{ 282 ..	{ 28 4	{ 35,414 2,305	{ 6,974 ..	{ 884 112
Disc harrows	{ (1) .. (11) ..	{	{ (a) .. (a) ..	{	{	{ (a) .. (a) ..	{ 21,061 ..	{ 9,661 ..	{ 878 426
Land rollers	{ (1) 894 (11) 707	{ 964 ..	{ 53 27	{ 56 41	{ 38 ..	{ 2 ..	{ 950 748	{ 1,002 ..	{ 55 28
Planters and seeders	{ (1) 5,812 (11) 838	{ 3,043 ..	{ 407 47	{ 604 1,072	{ 195 ..	{ 18 37	{ 6,416 1,910	{ 3,238 ..	{ 425 84
Other agricultural machinery (except tractors), including threshers	{ (1) .. (11) ..	{ 34,199 ..	{ 4,995 1,659	{	{ 3,636 ..	{ 484 184	{	{ 37,835 ..	{ 5,479 1,844
Unclassified agricultural machinery	{ (1) .. (11) ..	{ 2,533 ..	{ 260 93	{	{	{ 5 -	{	{ 2,533 ..	{ 260 98
Air and gas compressors and exhausters									
Air compressors and exhausters, other than compressors supplied with paint spraying equipment	{ (1) 17,008 (11) 3,504	{ 4,295 ..	{ 1,572 143	{ 111 85	{ 420 ..	{ 112 90	{ 17,119 3,589	{ 4,715 ..	{ 1,684 233
Reciprocating	{ (1) .. (11) ..	{	{ 24 (a) ..	{	{	{ 109 (a) ..	{	{	{ 133 444

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacements parts	England and Wales			Scotland			Great Britain		
	Quantity	Value	£'000	Quantity	Value	£'000	Quantity	Value	£'000
Principal products (contd.)	No.	Tons	£'000	No.	Tons	£'000	No.	Tons	£'000
Air and gas compressors and exhausters (contd.)									
Air compressors and exhausters, other than compressors supplied with paint spraying equipment (contd.)									
Rotary	{ (1) (a) (a) {						7,451	799	405
	{ (11) (a) (a) {						4,012	..	101
							..	..	100
							..	..	101
Other and unclassified	{ (1) (a) (a) {						3,437	3,142	889
	{ (11) (a) (a) {						6,222	..	269
							..	..	856
							..	..	261
Gas compressors and exhausters (1) and (11)	{ (a) (a) {						..	2,231	406
							..	..	211
Reconditioned air and gas compressors and exhausters (b) (1) and (11)	{ (a) (a) {						..	73	15
							..	..	25
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting or extracting)									
Ventilators, hoods, cowls, pipes, ductwork and the like (b)	{ .. 11,317 1,660 .. 1,536 240 .. 12,853 1,900								
	{ 606 101 707								
Air, water and steam radiators (other than for use with gas)	{ (1) (a) (a) {						25,172	884	84
	{ (11) (a) (a) {						..	85	20
							..	..	86
							..	..	7
Heating plant and appliances not of cast iron, not elsewhere specified	{ (1) (a) (a) {						..	5,465	464
	{ (11) (a) (a) {						..	..	562
							..	..	70
Plenum systems, sectional boilers (other than for steam), unit heaters, and other descriptions of air conditioning and ventilating plant and appliances (not of cast iron)	{ (1) (a) (a) {						..	19,350	4,247
	{ (11) (a) (a) {						..	..	1,665
							..	..	353
Unclassified (1) and (11)	{ .. 188 55 - - - .. 188 55						..	..	43
	{ 35 8 43						..	..	..
	{ (1) 818 41 34 - - - 818 41 34						2,914	..	87
	{ (11) 2,914 .. 87 - - - 2,914 .. 227						..	..	32
						
Automatic slot machines	{ (1) (a) (a) {						..	..	..
	{ (11) (a) (a) {						..	..	..
						
Boilers, excluding boilers for ships or locomotives									
Economic types	{ (1) (a) (a) {						207	4,175	589
	{ (11) (a) (a) {						73	..	148
							..	..	44
Vertical types	{ (1) (a) (a) {						2,621	6,332	867
	{ (11) (a) (a) {						..	18	3
							..	..	89

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)		£'000		£'000	No.	Tons
Boilers, excluding boilers for ships or locomotives (contd.)						
Other boilers, including water tube boilers, locomotive type boilers for stationary purposes, Lancashire type and Cornish type boilers, and sectional boilers for steam	{ (1) (a) (a) {				6,069	15,072
	{ (11) (a) (a) {				838	..
					..	14,952
				
Boiler-house plant						
Feed-water heaters	{ (1) (a) (a) {				642	271
	{ (11) (a) (a) {				31	..
				
Combustion air heaters (1) and (11)	{ (a) (a) {				..	2,772
				
Flue cleaning plants	{ (1) (a) (a) {				..	..
	{ (11) (a) (a) {				..	..
Boiler firing plant						
Travelling grate stokers	{ (1) (a) (a) {				265	4,908
	{ (11) (a) (a) {				..	5,912
				
Underfeed screw type stokers	{ (1) (a) (a) {				1,148	1,163
	{ (11) (a) (a) {				131	..
				
Other boiler-house plant, not elsewhere specified, including fuel economisers, steam superheaters, feed-water injectors, and boiler firing plant (other than travelling grate, stokers and underfeed screw type stokers)	{ (1) (a) (a) {				50,459	5,766
	{ (11) (a) (a) {				..	990
					..	1,068
Boilers (excluding boilers for ships or locomotives) and boiler-house plant, unclassified						
Reconditioned (b) (1) and (11)	{ (a) (a) {				568	36
					..	76
Other	{ (1) (a) (a) {				..	822
	{ (11) (a) (a) {				..	19
Boot and shoe making and repairing machinery	{ (1) (a) (a) {				1,063	751
	{ (11) (a) (a) {				..	97
					..	770
Bottle washing machinery	{ (1) (a) (a) {				4,794	1,347
	{ (11) (a) (a) {				..	246
Bottling, packing, packeting and labelling machinery						
Bottling and capping	{ (1) (a) (a) {				2,111	1,525
	{ (11) (a) (a) {				..	298

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£'000	Tons	£'000	Tons	£'000
Bottling, packing, packeting and labelling machinery (contd.)						
Filling and closing machinery for solids and semi-solids (1) and (11)	..	(a)	..	(a)	..	145
Labelling (1) and (11)	..	(a)	..	(a)	..	339
Packing and wrapping (1) (11)	1,507 ..	1,749 98	-	-	1,507 ..	1,749 98
Brick, tile and cement block making machinery (1) (11)	4,601 ..	686 172 665	119 ..	11 30	4,720 ..	697 172 695
Cable making machinery (1) (11)	1,109 ..	420 191 63	- ..	- ..	1,109 ..	420 191 64
Carpet-sweepers, other than electrically-worked vacuum cleaners (1) and (11)	578 ..	311 90	-	-	578 ..	311 90
Centrifuges, other than cream separators and drying machines (1) and (11)	..	(a)	..	(a)	..	1,001
Chemical and gas making machinery and plant, not elsewhere specified						
Paint, varnish and ink making (1) (11)	2,653 ..	600 80 133	30 ..	9 3	2,683 ..	609 80 137
Soap and fatty acid making (1) (11)	..	(a) (a)	..	(a) (a)	1,216 ..	371 21
Water gas plant (1) (11)	2,470 ..	311 53 58	-	-	2,470 ..	311 53 58
Other, including by-products plant for use at gas works, oil extraction and refining, and plastic making machinery and plant, and gas producers (coal and coke) (1) (11)	37,171 ..	5,305 1,897 2,341	5,993 ..	686 120 136	43,164 ..	5,991 2,017 2,477
Reconditioned chemical and gas making machinery and plant (b) (1) and (11)	..	57	-	-	..	57
Unclassified (1) (11)	809 ..	130 218 29	121 ..	72 13	930 ..	202 218 42
Civil engineering and contracting machinery and plant	No.	Tons	No.	Tons	No.	Tons
Excavators and similar digging machinery (excluding cableway dragline excavators and rope-hauled drag scrapers) (1) and (11)	..	..	(a)	..	(a)	21,020 2,860

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales			Scotland			Great Britain		
	Quantity		Value	Quantity		Value	Quantity		Value
Principal products (contd.)	No.	Tons	£'000	No.	Tons	£'000	No.	Tons	£'000
Civil engineering and contracting machinery and plant (contd.)									
Bulldozers, angledozers, rooters, graders, scrapers and levellers (1) (11)	804 462 ..	2,165	492 424 2 203	- - -	- - -	- - -	804 462 ..	2,165	492 424 2 203
Concrete mixing, placing and finishing, etc. machinery (1) (11)	..	..	(a) (a)	..	..	(a) (a)	8,670 2,768 ..	8,848 .. 91	1,455 557 10 246 347
Tar, bitumen and asphalt plant, with or without mixing gear (1) (11)	Tons 5,152 ..		685 100	Tons -		-	Tons 5,152 ..		685 100
Other road-making machinery (excluding portable power tools and road and sheeps foot rollers) (1) (11)	..	..	(a) (a)	..	..	(a) (a)	638 ..		95 38 24
Other civil engineering machinery and plant, including loading shovels and dumpers, pile drivers and pile driving plant, mortar mixers and reconditioned machinery and plant (1) and (11)	..	..	(a)	..	..	(a)	7,593 ..		1,371 1,077
Unclassified civil engineering machinery and plant (1) (11)	..	..	54 129	..	..	7 1	..		60 131
Condensers, other than marine (1) (11)	..	..	(a) (a)	..	..	(a) (a)	170 ..	2,065 ..	638 1 194 64
Drying machinery, not included elsewhere									
Gas fired (1) (11)	446 ..	1,337 ..	239 19	- -	- -	- -	446 ..	1,337 ..	239 19
Heated by solid or pulverised fuel (1) (11)	295 ..	1,552 ..	24 220 23	- -	- -	- -	295 ..	1,552 ..	24 220 23
Other, including centrifuges, electrically heated and infra-red driers (1) and (11)	..	2,464 ..	569 262	..	20 ..	11 3	..	2,484 ..	580 265
Electric lamp and radio valve making machinery, not elsewhere specified (1) and (11)	..	..	245	-	-	-	..	..	245
Emulsifying machines, not elsewhere specified (1) (11)	..	..	(a) (a)	..	..	(a) (a)	..	127 ..	141 108 25

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales			Scotland		Great Britain		
	Quantity		Value	Quantity	Value	Quantity		Value
Principal products (contd.)	No.	Tons	£'000	Tons	£'000	No.	Tons	£'000
Laundering and dry cleaning machinery, other than for textile finishing (contd.)								
Stands for domestic wringers and mangles sold as such	{ (1) (11)	24,027 7,220	124 ..	14 4	- -	24,027 7,220	124 ..	14 4
Washing machines, not electrically driven	{ (1) (11)	..	(a)	..	(a)	1,987 ..	421 102	85
Washing machines, electrically driven	{ (1) (11)	..	(a)	..	(a)	No. 91,528 833	Tons 4,923 ..	1,725 108 45
Hydro-extractors	{ (1) (11)	..	(a)	..	(a)	693 172	1,042 ..	312 35 102
Dry cleaning washers	{ (1) (11)	..	(a)	..	(a)	234 ..	325 ..	182 20
Steam presses	{ (1) (11)	..	(a)	..	(a)	2,078 488	1,594 ..	490 60 15 46
Other laundering and dry cleaning machinery, including drying machines and ironing machines	{ (1) (11)	..	(a)	..	(a)	..	2,984 ..	761 338 126
Reconditioned laundering and dry cleaning machinery (b)	{ (1) (11)	228 ..	35 21	- -	- -	.. ..	228 ..	35 21
Lawn mowers								
Hand driven (1) and (11)	..	(a)	..	(a)	..	..	..	1,507
Animal or mechanically driven								
Petrol motor	{ (1) (11)	..	(a)	..	(a)	24,744 ..	2,117 ..	1,017 208
Other	{ (1) (11)	..	(a)	..	(a)	3,488 ..	495 ..	181 65
Machine tools, wood-working, other than portable power tools								
Sawing	{ (1) (11)	..	(a)	..	(a)	11,336 585	4,820 ..	1,069 125 113 140
Planing and moulding	{ (1) (11)	..	(a)	..	(a)	4,071 324	3,296 ..	1,093 111 32 111
Sanding	{ (1) (11)	..	(a)	..	(a)	1,411 342	631 ..	180 36 11

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain			
	Quantity	Value	Quantity	Value	Quantity		Value	
Principal products (contd.)	Tons	£'000	Tons	£'000	No.	Tons	£'000	
Machine tools, wood-working, other than portable power tools (contd.)								
Routing, recessing, dovetailing and locking	{ (1) (11)	..	(a)	..	(a)	389 211 ..	326	106 65 13
Lathes	{ (1) (11)	..	(a)	..	(a)	1,219 ..	256 ..	75 17
Boring and drilling	{ (1) (11)	..	(a)	..	(a)	.. ..	.. ..	60 7
Nailing	{ (1) (11)	..	(a)	..	(a)	97 ..	118 ..	36 9
Universal (general joiners')	{ (1) (11)	No. 603 122 ..	Tons 566	125 34 4	- -	603 122 ..	566	125 34 4
Veneer and plywood	{ (1) (11)	..	(a)	..	(a)	464 ..	1,019 14 ..	219 3 19
Other wood-working machine tools, including mortising and tenoning machines	{ (1) (11)	..	(a)	..	(a)	3,599 1,350 ..	2,137	624 122 5 96
Reconditioned wood-working machine tools (b)	{ (1) (11)	..	(a)	..	(a)	67 ..	5 250 ..	10 42 83 2
Cutting tools, cutterheads, etc. for wood-working machines, except drills and saws and blades (b)	..	184	-	-	Tons	..	..	184
Mechanical power transmission plant (1) and (11)	5,516	829 3,397	20 ..	8 58	5,536 ..	..	837 3,456	
Metallurgical furnaces								
Blast furnaces (1) and (11)	..	448	..	1	..	..	449	
Other metallurgical furnaces					No.	Therms/hr capacity		
Gas	{ (1) (11)	..	(a)	..	(a)	407 240 ..	2,285	213 64 408 95
Oil	(1)	..	(a)	..	(a)	187 257 ..	392	33 91 116
Other descriptions, including electric furnaces and parts of oil furnaces	{ (1) (11)	..	1,536 491	- -	- -	.. ..	.. ..	1,536 491
Mining machinery, excluding portable power tools								
Coal cutters, power operated (1) and (11)	..	(a)	..	(a)	..	..	2,728	

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£'000	Tons	£'000	Tons	£'000
Mining machinery, excluding portable power tools (contd.)						
Winding						
Steam	{ (1) (11)	451 56	-	-	451	56
		99	-	-	..	99
Conveyors, underground						
Pneumatic	{ (1) (11)	.. (a)	.. (a)	.. (a)	3,858	443
		.. (a)	.. (a)	.. (a)	..	309
Electric (1) and (11)		.. (a)	.. (a)	.. (a)	..	6,379
Power loaders						
Electric	{ (1) (11)	.. (a)	.. (a)	.. (a)	514	188
		.. (a)	.. (a)	.. (a)	..	67
Hauling engines, stationary						
Electric (1) and (11)		.. (a)	.. (a)	.. (a)	..	515
Other mining machinery, including electric winding machinery, pneumatic power loaders and pneumatic stationary hauling engines	{ (1) (11)	15,275	2,018	1,541	163	16,816
		..	515	..	21	..
		..	1,624	..	155	1,780
Unclassified mining machinery	{ (1) (11)	..	1,250	..	4	1,254
		..	301	-	-	301
Office machinery					No.	Tons
Accounting, calculating, adding, listing, book-keeping, billing or posting machines, or any combination thereof (not being machines operated in conjunction with punched cards), including typewriters incorporated therein						
Complete						
Electric		.. (a)	.. (a)	.. (a)	6,698	147
Other		.. (a)	.. (a)	.. (a)	19,692	161
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons		.. 36	-	-	..	..
Cash registers and parts (other than empty ribbon spools, parts of such spools and inked ribbons)		.. (a)	.. (a)	.. (a)	..	511
		.. (a)	.. (a)	.. (a)	..	143
Typewriters						
Complete						
New, exceeding 22 lbs. in weight		.. (a)	.. (a)	.. (a)	46,665	806
		.. (a)	.. (a)	.. (a)	25,988	198
New (not exceeding 22 lbs. in weight), and reconditioned		.. (a)	.. (a)	.. (a)	9,614	..
		.. (a)	.. (a)	.. (a)	..	28
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons		.. (a)	.. (a)	.. (a)	..	..
		.. (a)	.. (a)	.. (a)	..	102

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales			Scotland		Great Britain		
	Quantity	Value	Quantity	Value	Quantity	Value		
Principal products (contd.)	No.	Tons	£'000	Tons	£'000	No.	Tons	£'000
office machinery (contd.)								
Addressing machines								
Complete	10,199	322	425	-	-	10,199	322	425
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	..	993	401	-	-	..	993	401
Coin sorting, counting and wrapping machines (1) and (11)	{	{ 2 ..	{ 29 26	-	-	{	{ 2 ..	{ 29 26
Letter opening, letter sealing, stamp affixing, postage franking, perforating, and cheque writing machines and machines for the automatic production of typewritten correspondence, not including typewriters								
Complete	{ 4,779 55 ..	{ 81	{ 175 3 18	-	-	{ 4,779 55 ..	{ 81	{ 175 3 18
Cases and other parts thereof, other than empty ribbon spools, parts of such spools and inked ribbons	{	{	{ 24 28	-	-	{	{	{ 24 28
Other office machinery, including punched card machines and duplicators (1) and (11)	{	{	{ 4,843 1,091	-	-	{	{	{ 4,843 1,091
Reconditioned office machinery (other than typewriters) (b) (1) and (11)	..	..	256	-	-	..	..	256
Paint spraying, metal spraying and similar machines, excluding insecticide spraying machines (1) and (11)	..	.. (a)	.. (a)	.. (a)	.. (a)	..	411	186
							..	1,003
Plantation machinery (1) and (11)	..	.. (a)	.. (a)	.. (a)	.. (a)	..	..	350
Plastic working and manipulative machinery, other than presses (1) and (11)	{ (1) (11)	{	{ (a) (a)	{	{ (a) (a)	{	{ 1,297	{ 315 52 29
Portable power tools								
Pneumatic						No.	Tons	
Of the hand held type (including flexible shaft drive tools) as employed in the general engineering, metal-working, wood-working, stone-working and building industries (1) and (11)	{ (1) (11)	{	{ (a) (a)	{	{ (a) (a)	{ 14,935 13,498	{ 132 ..	{ 180 200 378 195
Of the type employed in civil engineering, mining and quarrying (1) and (11)	..	.. (a)	.. (a)	.. (a)	.. (a)	..	249	478
							..	885
Petrol (1) and (11)	{ (1) (11)	{	{ (a) (a)	{	{ (a) (a)	{ 2,608 1,617	{ 280 ..	{ 177 136 119

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain		
	Quantity	Value	Quantity	Value	Quantity	Value	
Principal products (contd.)	Tons	£'000	Tons	£'000	No.	Tons	£'000
Pottery making machinery							
Complete machines	..	(a)	..	(a)	..	1,982	312
Replacement parts	..	(a)	..	(a)	..	..	273
Unclassified	..	(a)	..	(a)	..	..	132
	..	(a)	..	(a)	..	..	73
Presses, not included elsewhere	No.	Tons					
Tableting and pelleting presses, other than for powder metallurgy	{ (1) 65 (11) 13	72 ..	24 6	- -	{ 65 13	72 ..	24 6
Plastic moulding, other than tableting and pelleting	{ (1) .. (11) ..	.. ..	82 86	- -	{ .. ..	.. ..	82 86
Hydraulic	{ (1) 646 (11) ..	2,242 131	654 78	- -	{ 646 ..	2,242 131	654 78
Other	{ (1) .. (11) ..	.. ..	105 109	- -	{ .. ..	.. ..	105 109
Other presses, including baling presses	{ (1) 112 (11) ..	398 ..	86 26	- -	{ 112 ..	398 ..	86 26
Hydraulic	{ (1) 440 (11) ..	1,927 123	382 18	- -	{ 440 ..	1,927 123	382 18
Other	{ (1) .. (11) ..	.. ..	(a) (a)	.. ..	{ .. ..	.. ..	.. ..
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives)							
Internal combustion, reciprocating							
Compression ignition (diesel and dual fuel)	H.P.				H.P.		
Not exceeding 50 h.p.	(1) and (11) ..	..	(a)	..	(a)	..	7,389
Over 50 h.p. not exceeding 1,500 h.p.	{ (1) 3,502 (11) ..	444,795 ..	6,256 (a)	- ..	{ 3,502 ..	444,795 ..	6,256 1,092
Over 1,500 h.p.	{ (1) 5 (11) ..	9,120 ..	136 25	- -	{ 5 ..	9,120 ..	136 25
Paraffin, petrol and other spirit	{ (1) .. (11) ..	.. ..	(a) (a)	.. ..	{ 29,197 ..	118,432 ..	1,104 254
Other, including gas and semi-diesel	(1) and (11) ..	..	259	-	..	..	259

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain		
	Quantity	Value	Quantity	Value	Quantity	Value	
Principal products (contd.)		£'000	Tons	£'000			£'000
Prime movers (other than marine, steam reciprocating winding engines for mining machinery, or engines for aircraft, motor vehicles or locomotives) (contd.)							
Internal combustion, reciprocating (contd.)							
Unclassified (including reconditioned) reciprocating internal combustion engines	{ (1) .. (11) ..	1,492 342	-	-	{ .. ..	..	1,492 342
Steam reciprocating	No. of sets	H.P.			No. of sets	H.P.	
Engines for driving electric generators	{ (1) 193 (11) 8	17,596 ..	156 10	- -	{ 193 8	17,596 ..	156 10
Engines for driving compressors	{ (1) 83 (11) 6	2,373 ..	28 3	- -	{ 83 6	2,373 ..	28 3
Other, except pumping engines	{ (1) .. (11) ..	.. ..	(a) (a)	.. ..	{ 203 109	12,283 ..	124 186
Steam turbines	{ (1) 51 (11) ..	527,107 ..	1,323 345	- -	{ 51 ..	527,107 ..	1,323 345
Other and unclassified, including water turbines, etc.	{ (1) .. (11) ..	188 403	..	14 167	{ .. ..	..	202 570
Pulp making and paper and board making machinery, including finishing machinery	{ (1) 4,616 (11) ..	1,069 110	2,310	572 53	{ 6,926 ..	1,641 164	1,641 1,085
Pumps	No.	Tons			No.	Tons	
Petrol and oil measuring	{ (1) 18,155 (11) ..	3,309 63	1,854 15	- -	{ 18,155 ..	3,309 63	1,854 15
Pumps, other than petrol and oil measuring and hand pumps	{ (1) 3,025 (11) 3	1,783 ..	485 -	526 4,550	{ 3,551 4,553	2,325 ..	654 856
Steam reciprocating	{ (1) .. (11) ..	.. ..	- 217	.. ..	{ .. ..	.. ..	.. 471
Other reciprocating	{ (1) 9,741 (11) 4,177	3,337 ..	804 153	14 442	{ 9,755 4,619	3,440 ..	831 348
Centrifugal and axial flow	{ (1) 38,945 (11) 14,941	9,118 ..	2,772 713	3,627 1,787	{ 42,572 15,198	10,905 ..	3,537 1,041
Rotary	{ (1) 7,854 (11) 8,371	691 ..	531 199	425 218	{ 8,279 10,116	909 ..	657 247
	{ (1) .. (11) ..	.. ..	29 29	.. ..	{ .. ..	.. ..	.. 29

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales			Scotland			Great Britain		
	Quantity		Value	Quantity		Value	Quantity		Value
Principal products (contd.)	No.	Tons	£'000	No.	Tons	£'000	No.	Tons	£'000
Pumps (contd.)									
Other pumps, including hand pumps (other than petrol and oil measuring) and turbine pumps and parts of rotary pumps	{ (1) { 144,764 8,259	{ 6,432 .. 165 ..	{ 1,508 195 58 97	{ 4,687 55	{ 149 .. 14 ..	{ 81 4 6 28	{ 149,451 8,314	{ 6,581 .. 179 ..	{ 1,589 200 64 97 420
Reconditioned pumps (b)	{ (1) { 186 46 ..	{ 174	{ 40 5 5	{ - - -	{ - - -	{ - - -	{ 186 46 ..	{ 174	{ 40 5 5
Pumps, unclassified	{ (1) { 240	{ 8	{ 14 45 168	{ - - -	{ - - -	{ - - -	{ 240	{ 8	{ 14 45 168
Refrigerating machinery									
Automatic power operated refrigerators									
Over 10 h.p. and not exceeding 50 h.p., complete	..		(a)	..		(a)	{ 45 314 ..	{ 97	{ 81 471 89
Over 50 h.p., complete	..		(a)	..		(a)	{ 12 49 ..	{ 45	{ 18 479 30
Other, including complete mechanical units and parts	..		(a)	..		(a)	{	{ 15,686 ..	{ 7,227 4,728
Other descriptions (1) and (11)	..		(a)	..		(a)	{	{	{ 4,479 ..
Unclassified refrigerating machinery	{ (1) { .. (11) { ..		{ (a) (a)	{		{ (a) (a)	{	{ 284 ..	{ 232 146 206
Refuse and sewage disposal machinery (1) and (11)	..		609	-		-	..	..	609
Rubber works machinery	{ (1) { .. (11) { ..		{ (a) (a)	{		{ (a) (a)	{	{ 5,313 ..	{ 1,219 56 355
Sewing machines, not included elsewhere									
New									
Complete machines							Thous.		
Industrial	..		(a)	..		(a)	{ 135.8 ..	{ 4,737 55	{ 1,607 19
Domestic	..		(a)	..		(a)	398.4	11,251	3,031
Machine heads for industrial sewing machines	{ Thous. { 2.0 2.2	{ Tons { 38 ..	{ 44 136	{ - -		{ - -	{ 2.0 2.2	{ 38 ..	{ 44 136
Reconditioned									
Machine heads for industrial sewing machines	1.0	..	39	-	-	-	1.0	..	39

TABLE 23 (contd.)

Kind of output (1) Complete machines, etc. (11) Replacement parts	England and Wales		Scotland		Great Britain		
	Quantity	Value	Quantity	Value	Quantity	Value	
Principal products (contd.)	Tons	£'000		£'000	Tons	£'000	
Sewing machines not included elsewhere (contd.)							
Parts, other than needles	..	(a)	..		{ 2,749 ..	{ 964 165	
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified	{ (1) { .. (11) { ..	{ (a) (a)	{	{ (a) (a)	{ 12,747 ..	{ 2,567 1,012	
Stone crushing and screening machinery for quarry products, and stone working machinery, not elsewhere specified	{ (1) { .. (11) { ..	{ (a) (a)	{	{ (a) (a)	{ 9,016 ..	{ 949 389 843	
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	{ (1) { .. (11) { ..	{ (a) (a)	{	{ (a) (a)	{ 1,768 ..	{ 418 115 380	
Testing machinery and equipment (e.g., chain testing, cement testing, aero-engine testing) (b)	{ (1) { 1,119 (11) { ..	{ 519 312 78	{ - -	{ - -	{ 1,119 ..	{ 519 312 78	
Tobacco and cigarette making machinery	{ (1) { 3,317 (11) { ..	{ 2,983 846	{ - -	{ - -	{ 3,317 ..	{ 2,983 846	
Water and sanitary appliances, not elsewhere specified (1) and (11)	(a)	(a)	..	(a)	{ 7,227 ..	{ 1,466 580	
Waterworks equipment and plant (1) and (11)	..	(a)	..	(a)	{ 5,487 ..	{ 634 309	
Weighing machinery, other than automatic slot machines	{ (1) { .. (11) { ..	{ (a) (a)	{	{ (a) (a)	{ 16,293 ..	{ 3,758 241	
Well drilling machinery							
Complete machines	{ 1,918 ..	{ 452 84	{ - -	{ - -	{ 1,918 ..	{ 452 84	
Replacement parts	..	195	-	-	..	195	
Unclassified	..	1,111	-	-	..	1,111	
Wire making machinery	{ (1) { .. (11) { ..	{ (a) (a)	{	{ (a) (a)	{ 1,707 ..	{ 426 10 57	
Wire working and wire winding machinery, other than cable making machinery (1) and (11)	..	(a)	..	(a)	{ 703 ..	{ 221 98	
Ball and roller bearings and parts	..	(a)	..	(a)	..	16,224	
Bearings (other than ball and roller bearings) and bushes, of all metals (b)	..	(a)	..	(a)	{ 823 ..	{ 434 3,314	
Burners, sold as such	..	(a)	..	(a)	{ No. { 3,896 3,318	{ Tons { 304 .. 1,095 ..	{ 173 573 277

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£'000	Tons	£'000	Tons	£'000
Chains (steel), transmission						
Roller type						
Up to and including 0.625 in. pitch, not exceeding 0.2 in. in width between inner plates	2,516	810	-	-	2,516	810
Up to and including 0.625 in. pitch, exceeding 0.2 in. in width between inner plates	1,665	1,224	-	-	1,665	1,224
Over 0.625 in. pitch	2,928	1,121	-	-	2,928	1,121
Other	..	(a)	..	(a)	1,474	429
Engine parts, not elsewhere specified, sold separately						
Pistons	3,874	1,902	..	-	3,874	1,902
Thous.	341.6	212	-	-	341.6	212
Cylinder liners and inserts (b)	..	253	-	-	..	253
Gears and gear wheels, sold separately						
For vehicles	..	730	-	-	..	730
Other than for vehicles	6,906	1,385	40	7	6,946	1,392
..	..	1,714	..	40	..	1,753
Unclassified	1,212	341	..	119	1,212	341
..	..	516	..	..	..	635
Lubricators and parts (other than for railway wagon, etc. axle boxes), not included elsewhere (b)	..	363	-	-	..	363
Thous.	11,258	851	-	-	11,258	851
Pressure gauges, complete and parts (movements, etc.) (b)	..	(a)	..	(a)	..	910
Pulleys and pulley wheels, of metal, complete and parts thereof, sold separately	..	(a)	..	(a)	4,373	379
..	..	..	..	..	..	261
Rolls of iron or steel						
For metal rolling mills						
Cast iron and cast steel	..	(a)	..	(a)	36,965	2,292
Other	..	(a)	..	(a)	189	17
For machinery, other than metal-working						
Cast iron	..	(a)	..	(a)	3,935	370
Other	..	(a)	..	(a)	98	14

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£'000	Tons	£'000	Tons	£'000
Valves, other than for motor vehicles, and cocks (excluding valves and cocks of brass or other copper alloys), sold separately	22,485	5,202	7,940	1,531	30,425	6,733
..	..	438	..	37	..	475
Machinery and parts, not elsewhere specified (c)						
Complete	11,469	3,206	1,214	197	12,683	3,403
..	..	2,895	..	30	..	2,926
Replacement parts	..	2,991	..	86	..	3,077
Reconditioned machinery and plant, not elsewhere specified, including reconditioned complete sewing machines (b)	..	(a)	..	(a)	..	1,733
Other engineering products						
Arms, ammunition and naval, military and air force stores, not elsewhere specified	18,257	9,270	309	213	18,566	9,483
..	..	3,187	..	655	..	3,842
Blacksmiths' equipment, not elsewhere specified (portable forges, bellows, hearths, etc.) (b)	..	(a)	..	(a)	..	83
Canteen and cafe boiler, etc. sets (excluding purely sheet metal catering equipment) and parts (b)						
Gas	85	87	-	-	85	87
..	..	265	..	..	..	265
Other and unclassified	140	186	-	-	140	186
..	..	108	..	..	..	108
Engineers' patterns of wood or metal (b)	..	838	..	69	..	907
Fairground equipment and playground equipment (swings, slides, etc.) (b)	..	396	-	-	..	396
Fire extinguishing apparatus (including sprinklers), other than chemical fire extinguishers (b)	..	1,210	-	-	..	1,210
Garage equipment and plant, not elsewhere specified	..	(a)	..	(a)	2,506	589
..	..	..	..	..	..	212
Heavy duty cooking apparatus (not wholly or mainly of cast iron), not elsewhere specified (b)						
Gas	1,017	163	-	-	1,017	163
..	..	116	..	..	..	116
Electric	151	70	-	-	151	70
..	..	193	..	..	..	193
Steam	277	82	-	-	277	82
..	..	96	..	..	..	96
Other and unclassified	865	140	-	-	865	140
..	..	104	..	..	..	104

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£'000	Tons	£'000	Tons	£'000
Other engineering products (contd.)						
Heavy plate work, not included elsewhere (b)						
Bunkers, bins and silos	..	(a)	..	(a)	1,330	105
Heat exchangers	1,918	253	-	-	1,918	253
Pipes and chimneys	..	(a)	..	(a)	5,900	445
Storage tanks, assembled or not	..	(a)	..	(a)	86,209	4,798
Pressure vessels	..	(a)	..	(a)	7,383	773
Sundry vessels	..	(a)	..	(a)	7,577	1,009
Pressure and sundry vessels, unclassified	..	(a)	..	(a)	967	147
Welded or rivetted built up plate work, including buoys and flotation vessels	..	(a)	..	(a)	16,389	1,354
Metal moulds	709	230	51	24	760	254
Moulding boxes and parts thereof	3,967	361	-	-	3,967	361
Other and unclassified engineering products, including engines for model aircraft, etc., and ships' telegraphs	..	7,357	..	544	..	7,900
Waste products other than scrap metals	4,379	54	2,419	10	6,798	64
Installation work other than constructional engineering work (d)	..	33	..	-	..	34
Repair and jobbing work, including roller covering (d)	..	3,223	..	1,533	..	4,756
Other work done for the trade or on commission (including research and development work and case-hardening done on commission) (d)	..	8,967	..	1,328	..	10,295
Total principal products	..	5,358	..	305	..	5,663
Other output						
Marine machinery and parts						
Compression ignition (diesel) internal combustion engines and parts	..	338,985	..	52,041	..	391,026
Propelling	..	2,565	..	103	..	1,407
Auxiliary	..	..	..	..	..	1,261
Boilers	..	(a)	..	(a)	..	615
Other descriptions	..	894	..	1,520	..	2,414

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Other output (contd.)	Quantity	Value	Quantity	Value	Quantity	Value
Machine tools, metal-working (other than portable power tools), and parts		£'000		£'000		£'000
New						
Presses	..	830	..	100	..	930
Lathes	..	(a)	..	(a)	..	589
Other, including welding machinery and equipment	..	1,752	..	73	..	1,825
Reconditioned	..	(a)	..	(a)	..	318
Engineers' small tools	..	815	..	60	..	875
Textile machinery						
Finishing machinery and parts	..	950	..	39	..	989
Other, including parts	..	994	..	59	..	1,053
Accessories, sold separately	..	(a)	..	(a)	..	461
Mechanical handling equipment and parts						
Conveyors and elevators						
Belt	..	1,395	..	128	..	1,523
Other	..	1,118	..	211	..	1,329
Cranes						
Road, wheel or track mounted	..	527	..	1	..	528
Overhead travelling	..	683	..	170	..	346
Other	..	253	..	29	..	282
Winches and capstans	..	253	..	29	..	282
Other and unclassified, including reconditioned equipment	..	1,454	..	389	..	1,843
Printing, bookbinding, paper-working, etc. machines and parts						
Printing machinery	..	701	..	1	..	702
Other	..	724	..	20	..	744
Electrical machinery and apparatus, including parts						
Generators	..	536	..	98	..	634
Motors	..	543	..	217	..	760
Other	..	2,692	..	13	..	2,705
Motor vehicles and cycles, and parts						
Complete	..	458	..	-	..	458
Tractors	..	458	..	-	..	458

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Other output (contd.)		£'000		£'000		£'000
Motor vehicles and cycles, and parts (contd.)						
Complete (contd.)						
Industrial trucks	..	586	..	6	..	592
Other commercial motor vehicles	..	538	-	-	..	538
Parts						
Of motor vehicles, including motor cycles	..	(a)	..	(a)	..	2,091
Of cycles	..	344	-	-	..	344
Other descriptions, including trailers	..	170	-	-	..	170
Aircraft parts and accessories	..	526	-	-	..	526
Rail locomotives and parts (except axles, tyres and wheels)	..	967	..	44	..	1,011
Road rollers and parts	..	474	-	-	..	474
Railway carriages, wagons and trucks, including rail motor vehicles, and parts (except axles, tyres and wheels)	..	841	-	-	..	841
Colliery tubs, trams and trucks, and parts	..	300	-	-	..	300
Non-mechanically propelled vehicles (except cycles) and parts	..	311	..	36	..	347
Electric portable power tools and parts	..	396	..	208	..	604
Other hand tools and implements	..	944	..	113	..	1,057
Hollow-ware of wrought iron or steel	..	700	..	41	..	741
Manufactures of brass or other alloys of copper, not elsewhere specified						
Valves and cocks	..	1,406	..	152	..	1,558
Other	..	751	..	34	..	785
Scientific instruments, apparatus and appliances	..	576	..	45	..	621
Springs	..	(a)	..	(a)	..	451
Castings						
Iron	..	4,227	..	333	..	4,560
Steel	..	(a)	..	(a)	..	734
Stampings and pressings of iron or steel	..	358	..	70	..	428
Fabricated iron and steel	..	2,166	..	32	..	2,198
Jigs and fixtures	..	332	..	14	..	346
Cast iron stoves, grates and ranges for domestic cooking and heating, and parts and fittings therefor	..	1,486	..	5	..	1,491

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Other output (contd.)		£'000		£'000		£'000
Other goods	..	7,586	..	705	..	8,291
Scrap metals sold						
Iron and steel	..	629	..	134	..	763
Brass	..	756	..	51	..	807
Other	..	359	..	29	..	388
Constructional engineering carried out in Great Britain						
Work done as main contractors						
On factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)						1,437
On gas mains and works		6,679		782		1,972
Other						4,052
Work done as sub-contractors		481		13		494
Total constructional engineering work		7,160		795		7,955
Less total value of goods made or fabricated in firms' own works and used in the work		4,280		467		4,727
Total constructional engineering work, exclusive of goods made and used by firms		2,898		329		3,227
Repair and maintenance work on motor vehicles		780		-		780
Other work done		507		1		508
Total		395,334		58,360		453,694

- (a) Owing to the risk of disclosure of information relating to individual firms separate figures cannot be given.
- (b) So far as recorded separately.
- (c) Including battery and cell-making machinery, not elsewhere specified; cement making, cloth cutting, and dishwashing machinery; counting and measuring mechanisms; degreasing plant; lighting appliances, not elsewhere specified; pneumatic appliances not included elsewhere; pulverising plant for coal; sterilising equipment, industrial, other than for the sterilisation of food; piston rings, packing rings, etc.; and mechanical remote controls.
- (d) Amount charged.

Purchased materials and fuel

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000
Materials						
Iron and steel						
Pig iron	253.3	2,690	60.0	627	313.3	3,317
Bars and rods						
Alloy steel	56.0	3,369	3.6	260	59.6	3,629
Iron and non-alloy steel	183.4	5,001	26.4	695	209.8	5,696
Angles, shapes and sections, of iron and non-alloy steel	112.6	2,383	16.1	327	128.7	2,710
Bars, rods, angles, shapes and sections, of iron and non-alloy steel, unclassified	43.6	1,063	2.2	63	45.8	1,126
Girders, beams, joists and pillars, of iron and non-alloy steel	32.6	683	7.1	152	39.7	835
Sheets and strip, of alloy steel	26.0	1,874	0.9	84	26.9	1,958
Iron and non-alloy steel						
Plates and sheets						
Tinned	8.4	463	0.7	46	9.1	509
Other	335.4	7,707	74.9	1,642	410.3	9,349
Hoop and strip (including tape)	20.7	857	4.3	153	25.0	1,010
Plates, sheets, hoop and strip (including tape), unclassified	55.0	1,341	4.0	97	59.0	1,438
Tubes and fittings	52.1	3,172	13.9	847	66.0	4,019
	..	497	..	54	..	551
Castings in the rough						
Iron	213.9	11,716	31.0	1,806	244.9	13,522
Alloy steel	15.0	1,822	0.7	132	15.7	1,954
Non-alloy steel	44.8	3,781	9.5	841	54.3	4,622

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
Iron and steel (contd.)						
Forgings in the rough						
Alloy steel						
Drop	6.9	764	0.2	24	7.1	788
Other	6.7	701	0.7	79	7.4	780
Unclassified	3.5	316	0.7	65	4.2	381
Iron and non-alloy steel						
Drop	13.8	1,164	2.1	181	15.9	1,345
	..	342	..	1	..	343
Other	17.3	1,361	3.1	218	20.4	1,579
Unclassified	7.6	624	2.1	125	9.7	749
Blooms, billets and slabs, of iron and non-alloy steel	..	(a)	..	(a)	51.0	1,086
Wire of iron and non-alloy steel						
Cables and rope	1.0	110	0.1	19	1.1	129
	..	49	..	3	..	52
Other	6.3	287	0.7	44	7.0	331
	..	34	..	3	..	37
Other descriptions, except finished parts						
Alloy steel	39.8	1,968	0.4	90	40.2	2,058
Iron and non-alloy steel	25.1	499	0.6	19	25.7	518
	..	158	..	8	..	166
Scrap	168.9	870	27.6	146	196.5	1,016
Machined castings	12.3	1,376	1.0	146	13.3	1,522
	..	287	..	53	..	340
Chains	1.3	410	0.2	51	1.5	461
Transmission	..	262	..	15	..	277
Other	2.0	235	0.3	51	2.3	286
	..	99	..	7	..	106

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
Iron and steel (contd.)						
Fabricated bridge and structural steelwork	..	1,221	..	171	..	1,392
Tyres, wheels and axles	2.4 ..	219 372	0.4 ..	31 18	2.8 ..	250 390
Brass (including all alloys of copper, other than nickel alloys)	Th. cwts.		Th. cwts.		Th. cwts.	
Rods and sections	218.6	1,613	23.2	167	241.8	1,780
Plates, sheets and strip	80.8	715	13.7	123	94.5	838
Castings	230.5	2,773	33.5	418	264.0	3,191
Other descriptions, except finished parts	256.2	1,838	39.6	273	295.8	2,111
Unclassified	130.9	1,118	5.6	65	136.5	1,183
Copper						
Rods and sections	56.1	468	1.2	11	57.3	479
Plates, sheets and strip	75.1	763	15.4	142	90.5	905
Other descriptions, except finished parts	130.6	1,213	23.5	246	154.1	1,459
Aluminium and aluminium alloys						
Plates, sheets, strip and circles	67.5	589	5.4	48	72.9	637
Extruded tubes, bars, sections and wire	15.9	176	0.7	6	16.6	182
Castings and forgings, rough dressed	159.1	2,024	11.3	150	170.4	2,174
Other descriptions, except finished parts	54.1	274	3.4	17	57.5	291
Tin						
Blocks, ingots, bars and slabs	23.2	590	2.8	72	25.9	662
Other descriptions, except finished parts	10.0 ..	104 38	1.3 ..	21 -	11.3 ..	125 38
Lead and alloys of lead						
Pigs, ingots, blocks, bars, slabs and cakes	27.4	188	3.1	17	30.5	205
Other descriptions	12.7	80	4.2	30	16.9	110
Unclassified	19.5	88	0.2	1	19.7	89

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials (contd.)						
Zinc and alloys of zinc						
Ingots, blocks, bars, slabs and cakes	20.7	105	6.2	28	26.9	133
Other descriptions, except finished parts	16.6 ..	103 80	0.9	5	17.5 ..	108 80
Unclassified	44.1	153	0.1	-	44.2	153
Consumable tools bought as replacement	..	3,793	..	463	..	4,256
Timber (excluding timber used for making into cases, etc., or for repairing returnable cases)						
Hardwood	Th. cu. ft. 605.2 ..	363 76	Th. cu. ft. 228.0 ..	149 11	Th. cu. ft. 833.2 ..	512 87
Softwood	Th. stds. 11.6 ..	874 138	Th. stds. 1.9 ..	145 14	Th. stds. 13.5 ..	1,019 153
Plywood	Th. sq. ft. 1,692.9 ..	125 23	Th. sq. ft. 117.8 ..	12 2	Th. sq. ft. 1,810.5 ..	137 25
Packing materials	..	2,638	..	572	..	3,210
Nickel compounds for plating	Th. cwts. 2.9 ..	22 6	Th. cwts. - ..	- -	Th. cwts. 2.9 ..	22 6
Chromium compounds for plating	.. 0.7 ..	10 2	0.4	5	.. 1.1 ..	.. 15 2
Paint, enamel and varnish	Th. galls. 1,196	1,290	Th. galls. 256	251	Th. galls. 1,452	1,541
Machinery belting (including conveyor and elevator bands)	Th. cwts. 13.4 ..	246 469	Th. cwts. 1.4 ..	16 45	Th. cwts. 14.8 ..	262 514
Ball and roller bearings	..	2,694	..	385	..	3,079
Nuts, bolts, washers, etc. (b)	..	2,004	..	335	..	2,339
Purchased components, not elsewhere specified	..	59,789	..	7,984	..	67,773
Replacement parts for firms' machinery, other than machined castings	..	1,387	..	240	..	1,627
Second-hand machinery (b)	..	(a)	..	(a)	..	1,853
All other purchased materials	..	16,215	..	3,747	..	19,962
Unclassified materials	..	4,163	..	266	..	4,429

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Fuel and electricity	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Coal	432.9	1,239	137.2	368	570.1	1,607
Coke	328.6	1,415	44.1	189	372.7	1,604
Electricity purchased (c)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	595,823	2,723	93,627	388	689,450	3,111
From other sources	..	(a)	..	(a)	13,250	55
Electricity obtained from other works under the same ownership	..	(a)	..	(a)	2,600	11
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	3,794	379	291	30	4,085	409
Used for other power purposes	2,220	116	28	2	2,248	118
Other oil fuel (including creosote/pitch mixtures)	15,033	596	1,733	65	16,766	661
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	25,981	920	1,615	56	27,596	976
	Th. cu. ft.		Th. cu. ft.		Th. cu. ft.	
	240,794	45	156,575	21	397,369	66
From other sources	Th. therms		Th. therms		Th. therms	
	222	11	-	-	222	11
	..	18	-	-	..	18
Gas obtained from other works under the same ownership	103	4	3	-	106	4
	..	21	-	-	..	21
All other purchased fuel	..	177	..	32	..	209
Total		183,684		27,585		211,269

(a) Owing to the risk of disclosure of information relating to individual firms separate figures cannot be given.

(b) So far as recorded separately.

(c) The total quantity of electricity generated and consumed in the same works in Great Britain was 101,090,000 B.T. units. Owing to the risk of disclosure of information relating to individual firms separate figures for England and Wales and for Scotland cannot be given.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	16,546	2,418	18,964	2,944	418	3,362	19,490	2,836	22,326
All ages	274,557	58,589	333,146	45,887	9,232	55,119	320,444	67,821	388,265
Females									
Under 18	1,546	4,633	6,179	361	656	1,017	1,907	5,289	7,196
All ages	32,263	28,969	61,232	5,672	4,295	9,967	37,935	33,264	71,199
Total									
Under 18	18,092	7,051	25,143	3,305	1,074	4,379	21,397	8,125	29,522
All ages	306,820	87,558 (b)	394,378 (b) (c)	51,559	13,527 (b)	65,086 (b) (c)	358,379	101,085 (b)	459,464 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	97,755	36,446	134,201	15,718	5,201	20,919	113,473	41,647	155,120

(a) Number at September 25, 1948.

(b) There were, in addition, 354 working proprietors (340 males and 14 females) in Great Britain; 295 males and 13 females in England and Wales, and 45 males and 1 female in Scotland.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £3,747,000; £3,224,000 for England and Wales and £523,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers and remuneration are set out below.

	Average number of outworkers employed			Total amount paid to outworkers
	Males	Females	Total	
England and Wales	12	47	59	£'000
Scotland	-	-	-	-
Great Britain	12	47	59	6

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS COUNTRY TABLES
 Monthly index of employment of operatives: Larger establishments
 (average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	97.9	99.2	98.1	August	100.4	99.6	100.2
February	98.5	99.7	98.7	September	100.8	100.5	100.8
March	99.0	99.2	99.1	October	101.2	102.2	101.4
April	99.5	99.1	99.5	November	101.5	102.8	101.8
May	100.0	98.6	99.7	December	101.2	101.6	101.3
June	100.1	99.2	100.0	Percentage employment in this trade covered by the index	49.8	65.9	52.2
July	99.8	98.1	99.5				

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948. The question of man-hours worked in this trade will be dealt with in a later summary volume.

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