



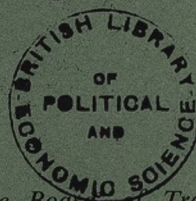
BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

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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* Not applicable to this trade

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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 manufacture of Marine Machinery, Machine Tools, Textile Machinery, Small Arms, Constructional Engineering, Mechanical Handling Equipment, Printing and Bookbinding Machinery or in Mechanical Engineering (Repairing) which are covered by separate reports (Volume 4, Trades B, C, D, E, F, G, H and J respectively). In 1935, however, establishments in Northern Ireland include those wholly or mainly engaged in the manufacture and repair of textile machinery and in constructional engineering.

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.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

MECHANICAL ENGINEERING (GENERAL) TRADE

Summary

Larger establishments (a)

TABLE 1

	United Kingdom			Great Britain		United Kingdom		
	1951	1950	1949	1949	1948	1946(b)	1937(b)	1935
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (c)	739,805	594,527	528,557	525,556	468,951	316,375	150,707	103,178
Cost of materials and fuel used (d)	344,970	277,901	244,257	243,013	202,140	129,192	63,871	41,264
Payment for work done on materials given out	16,073	12,834	12,364	12,326	10,466	6,409	1,256	638
Transports payments (e)	9,252	..	..	..	..	..	..	..
Net output	369,509	303,792	271,936	270,216	256,345	180,774	85,580	61,276
Wages and salaries of persons employed	219,135	186,255	171,317	170,127	155,120	118,760	..	..
Average number of persons employed (f)	No. 538,477	No. 501,439	No. 484,077	No. 480,176	No. 459,818	No. 415,910	No. 324,381	No. 265,107
Net output per person employed (f)	£ 686	£ 606	£ 562	£ 563	£ 557	£ 435	£ 264	£ 231
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	194,118	152,916	146,418	145,793	133,686	105,351	33,525(g)	18,284(g)
Materials and fuel	93,133	65,641	61,230	60,750	59,556	31,948	..	..
Number of establishments	No. 2,955	No. 3,035	No. 2,968	No. 2,935	No. 2,765	..	..	No. 1,595

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

	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (h)								
Principal products (i)	624,088	593,418	524,091	521,052	389,643(j)	306,506	108,464	80,323
Other output (k)	85,852	..	..	..	64,051(j)	..	32,339	20,557
Changes in stocks and work in progress (l)	+29,865	+ 7,089	+ 9,447	+ 9,416	+19,111	+ 9,869	+ 9,904(g)	+2,298(g)
Less payment for transport outwards (e)	739,805	600,507	533,538	530,468	472,805	316,375	150,707	103,178
Gross output (production)	739,805	594,527	528,557	525,556	468,951	316,375	150,707	103,178
Materials and fuel used by firms in this trade								
Purchases	370,284	281,238	245,452	244,167	211,269	135,065	63,871	41,264
Changes in stocks (l)	-25,314	- 3,337	-1,196	-1,154	- 9,129	- 5,873	..	..
Materials and fuel used	344,970	277,901	244,257	243,013	202,140	129,192	63,871	41,264

(a) For small firms' summary see Table 2.

(b) Excluding Government Departments.

(c) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

(d) Amounts paid for delivery services are excluded for 1951 but included for other years.

(e) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(f) Excluding outworkers but including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

(g) Work in progress only.

(h) Total value of sales (1951, 1950, 1949, 1948 and 1946) or production for sale (1937 and 1935).

(i) For details for 1951 and 1948 see Table 8.

(j) Corrected figure.

(k) For details for 1951 and 1948 see Table 10.

(l) For details for 1951 see Table 21.

Summary: Small firms (a)

TABLE 2

	Great Britain		United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	2,334	2,115	2,787	2,776	3,042
Average number of persons employed (b)					
Males	12,454	11,115	14,020	13,957	14,884
Females	1,873	1,574	1,986	1,976	2,163
Total	14,327	12,689	16,006	15,933	17,047

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.

(b) Including working proprietors.

Estimated average employment (a): All firms

TABLE 3

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
As returned by firms					
Employing on the average more than ten persons (b)	538,477	501,439	484,077	480,176	459,818
Employing on the average ten or fewer persons (c)	14,327(d)	12,689(d)	16,006	15,933	17,047
Estimated average employment in firms not making satisfactory returns	552,804	514,128	500,083	496,109	476,865
Estimated average employment in all firms	2,915	1,924	2,597	2,597	5,515
Estimated average employment in all firms	555,719(d)	516,052(d)	502,680	498,706	482,380

(a) Including working proprietors.

(b) See Tables 1, 13(iv) and 14.

(c) See Table 2.

(d) Excluding any small firms in Northern Ireland.

Analysis by size, 1951

Larger establishments in the United Kingdom

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	713	14,976	8,072	12,645	3,512	1,250	4,762	638
25 - 49	737	33,475	17,158	25,683	7,380	2,612	9,992	668
50 - 99	556	50,244	25,681	38,482	11,011	4,012	15,023	667
100 - 199	406	81,882	41,224	56,737	16,202	6,641	22,843	727
200 - 299	157	54,541	27,137	38,245	10,657	4,785	15,442	710
300 - 399	95	45,670	23,261	32,593	9,530	3,836	13,366	714
400 - 499	64	42,591	20,081	28,583	7,950	3,448	11,398	703
500 - 749	80	70,701	35,123	49,110	14,076	5,988	20,063	715
750 - 999	43	54,174	25,587	37,289	10,466	3,982	14,449	686
1,000 - 1,499	50	94,804	42,701	59,397	18,316	6,811	25,127	719
1,500 - 1,999	20	53,093	27,532	35,525	11,222	3,792	15,014	775
2,000 - 2,499	11	37,379	18,497	24,792	7,852	2,766	10,619	746
2,500 - 2,999	11	38,719	18,967	29,590	8,515	3,684	12,200	641
3,000 - 3,999	7	26,554	15,027	23,770	7,195	2,501	9,696	632
4,000 and over	5	40,999	23,462	46,036	14,967	4,175	19,143	510
Total	2,955	739,805	369,509	538,477	158,852	60,283	219,135	686

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percentage of total		Operatives	Other employees (a)	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England and Northern Ireland									
Northern	110	42,366	20,324	5.5	34,463	10,474	3,523	13,997	590
East and West Ridings	328	78,119	38,181	10.3	54,031	16,547	5,767	22,314	707
North Midland	212	77,361	38,550	10.4	56,851	17,128	6,134	23,262	678
Eastern	141	52,008	27,267	7.4	38,424	10,572	4,209	14,781	710
London and South Eastern	768	144,384	72,275	19.6	100,062	29,725	13,428	43,153	722
Southern	113	21,132	10,138	2.7	14,354	4,208	1,650	5,858	706
South Western	117	23,840	11,762	3.2	18,981	5,020	1,971	6,991	620
Midland	434	85,978	42,653	11.5	61,212	18,281	7,068	25,349	697
North Western and Northern Ireland	440	98,593	48,717	13.2	71,567	20,614	7,663	28,277	681
Total England and Northern Ireland	2,663	623,780	309,868	83.9	449,945	132,567	51,414	183,982	689
Wales	52	11,967	5,681	1.5	8,775	2,627	897	3,524	647
Scotland	240	104,058	53,960	14.6	79,757	23,658	7,971	31,629	677
United Kingdom	2,955	739,805	369,509	100.0	538,477	158,852	60,283	219,135	686

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Operatives	Other employees (a)	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of Agricultural machinery (other than tractors) and parts	149	39,118	29,453	15,241	20,162	5,627	1,899	7,526	756
Boilers and boiler-house plant (other than boilers for ships and locomotives, and furnaces and burners), and parts	50	34,500	26,065	18,853	26,474	8,444	3,398	11,842	712

(9598)

TABLE 6 (contd.)

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Operatives	Other employees (a)	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of (contd.)									
Prime movers (stationary) and parts									
Internal combustion	45	47,128	31,934	19,782	28,270	8,291	3,203	11,494	700
Other	8	7,648	4,179	3,877	5,951	1,687	853	2,540	651
Arms, ammunition, and naval, military and air force stores (other than small arms)	58	41,459	29,741	19,222	37,806	13,156	3,257	16,413	508
Office machinery and parts	76	24,557	21,630	14,911	21,151	5,787	2,099	7,886	705
Ball and roller bearings, and parts	25	23,627	21,547	13,696	21,542	6,526	1,678	8,205	636
Mining machinery (other than portable power tools) and parts	47	17,421	13,790	7,482	10,889	3,019	1,413	4,433	687
Air conditioning, heating and ventilating plant and appliances, and parts	158	19,236	14,768	9,445	14,185	3,936	1,991	5,928	666
Gas meters and parts	60	9,363	7,429	4,980	7,663	2,261	467	2,728	650
Weighing machines and parts	73	6,800	4,686	4,391	6,008	1,856	600	2,456	731
Refrigerating machinery and parts	47	31,689	27,249	13,074	15,353	4,588	1,952	6,541	852
Pumps and parts	60	23,469	17,438	11,523	16,372	4,292	2,253	6,546	704
Transmission chains	6	6,140	5,039	3,936	6,100	1,760	681	2,441	645
Remainder of the trade	2,093	407,650		209,096	300,551	87,620	34,538	122,158	696
Total	2,955	739,805		369,509	538,477	158,852	60,283	219,135	686

(a) Administrative, technical and clerical employees.

Total make of certain intermediate products

Larger establishments in the trade

TABLE 7

	United Kingdom 1951		Great Britain 1948
	Quantity	Entries	Quantity
	Th. tons	No.	Th. tons
Other than principal products			
Castings			
Of iron, including malleable iron (a)	517.7	374	428.2
Of non-alloy steel (b)	27.3	21	21.4
Of alloy steel (b)	8.3	11	9.3
	Th.cwts.		Th.cwts.
Of brass and other alloys of copper (c)	27.2	254	17.0
Of aluminium (d)	4.1	107	3.3

(a) For total output returned in all trades see the Iron Foundries Trade (Volume 3, Trade C).

(b) For total make returned in all trades see the Iron and Steel (Melting and Rolling) Trade (Volume 3, Trade B).

(c) For total output returned in all trades see the Brass Manufactures Trade (Volume 5, Trade F).

(d) For total output returned in all trades see the Non-Ferrous Metals (Smelting, Rolling, etc.) Trade (Volume 3, Trade G).

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Sales of the principal products of the trade, including sales 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

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000
PARTS OF MACHINERY, SOLD SEPARATELY					
Bearings and parts thereof					
Ball bearings	..	1,654	43	..	16,311
Roller bearings	..	6,353	40		
Unclassified ball and roller bearings	..	14,281	12		
Other bearings (e.g., plain) and bushes	..	8,326	99	..	4,330(a)
Burners					
Oil fuel burning equipment	..	2,021	51	..	1,210
Other	..	102	29		
Chains					
Steel transmission					
Roller type					
Up to and including 0.625 in. pitch					
Not over 0.2 in. width between plates	..	1,453	6	..	810
Over 0.2 in. width between plates	..	1,652	12	..	1,224
Over 0.625 in. pitch	..	1,778	16	..	1,140
Other than roller type	..	255	18	..	500
Precision chains, other than transmission chains	..	582	12		
Cylinder liners and inserts	Thous. 1,538.4	1,004	23	Thous. 341.6	212(a) 364
Gears and gear wheels					
For vehicles	..	1,131	44	..	802
Other than for vehicles	..	7,254	288	..	4,457
Unclassified	..	841	7	..	1,017
Lubricators and parts (other than of railway wagon, etc. axle boxes), not elsewhere specified (a)	..	599	21	..	419
Oil seals	..	2,208	25	..	945(a)
Pistons	..	3,924	41	..	2,276
Piston rings, packing rings, etc.	..	2,072	41	..	1,304
Pulleys and pulley wheels	..	1,442	126	..	793
Rolls of iron or steel					
For metal rolling mills	Tons			Tons	
Cast iron	39,650	2,797	36	39,973	2,284
Cast steel	17,773	1,458	23	9,191	668
Other	19	5	5	209	18
For machinery, other than metal-working					
Cast iron	7,423	637	49	7,649	539
Other	269	35	13	324	36
Valves, other than for motor vehicles, and cocks (excluding domestic cocks and taps of brass or other copper alloys)					
Industrial valves (a)	35,501	11,333	243	33,599	7,154(b) 856
	..	11,512			
Other	..	1,216	40	..	..
Wooden accessories, other than patterns (c)	..	944	70	..	377

(9598)

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity No.	Value £'000	Entries No.	Quantity No.	Value £'000
MACHINERY AND PARTS THEREOF NOT SPECIFIED ABOVE					
Agricultural machinery, other than tractors					
Ploughs	{ (i) 69,108 (ii) ..	2,492 1,097	29 36	{ 85,864 ..	2,528 22 1,476
Cultivators and grubbers	{ (i) 31,429 (ii) ..	2,707 23 531	42 45	{ 56,964 ..	1,401 23 431
Disc harrows	{ (i) 14,730 (ii) ..	770 555	14 20	{ 21,081 ..	878 4 426
Planters, drills and seeders	{ (i) 20,006 (ii) ..	1,241 14 137	38 36	{ 8,910 ..	516 11 96
Insecticide and similar spraying machines	{ (i) 31,513 (ii) ..	651 298 271	23 24	{	483(a) 119
Hay and grass mowers, other than rotary blade type	{ (i) 32,948 (ii) ..	1,678 20 377	17 23	{ 17,356 ..	934 382
Reapers and binders	{ (i) 1,645 (ii) ..	313 310	.. 14	{ 2,809 ..	377 11 140
Threshers	{ (i) 1,377 (ii) ..	474 104	13 18	{ 1,490 ..	649 156 131
Milking machines	{ (i) 9,447 (ii) ..	1,338 30 899	8 20	{ 7,141 ..	1,106 330 681
Combine harvesters	{ (i) 5,720 (ii) ..	5,384 26 819	.. 21	{ .. ..	.. ..
Potato and sugar beet lifters	{ (i) 4,596 (ii) ..	253 11 105	28 36	{ .. ..	.. ..
Hay and corn elevators	{ (i) 4,635 (ii) ..	459 57	28 22	{	8,675 1,272
Grain and grass driers	{ (i) 679 (ii) ..	645 88 84	30 24	{ .. ..	.. ..
Sheep shearers and clipping machines	{ (i) 32,960 (ii) ..	245 197	.. ..	{ .. ..	.. ..
Other agricultural machinery	{ (i) .. (ii) ..	11,540 1,720	218 234	{ .. ..	.. ..
Unclassified agricultural machinery					
Complete	..	1,357	9	..	497
Parts	..	2,485	23	..	706
Unclassified	..	530	..	-	-
Air and gas compressors and exhausters, and other pneumatic appliances					
Air compressors and exhausters, other than compressors supplied with paint spraying equipment					
Stationary					
Reciprocating					
Under 200 cu. ft.	{ (i) 24,280 (ii) ..	2,085 108 322	44 31	{	1,948 390 506
200 cu. ft. and over	{ (i) 835 (ii) ..	1,177 131 359	21 22	{ .. ..	.. ..

(9598)

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Air and gas compressors and exhausters, and other pneumatic appliances (contd.)					
Air compressors and exhausters, other than compressors supplied with paint spraying equipment (contd.)					
Stationary (contd.)					
Rotary	(i) 15,335 (ii) ..	631 112	25 22	11,463 ..	506 101 101
Turbo-types	(i) 30 (ii) ..	363 118	.. ..	(i) 9,790 (ii) ..	1,187 (d) 885 297
Portable	(i) 5,943 (ii) ..	2,119 740 427	29 23		
Gas compressors and exhausters	(i) 1,308 (ii) ..	1,028 269	20 18	1,121 ..	430 102 130
Other pneumatic appliances, not elsewhere specified					
Complete	..	313	22	..	163
Parts	..	372	23	..	115
Unclassified	..	167	..	-	-
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting and extracting, but excluding gas appliances)					
Plenum systems	(i) .. (ii) ..	5,006 519	57 37	.. ..	3,613 122
Sectional boilers, other than for steam	(i) 2,909 (ii) ..	279 23 69	12 6	5,052 ..	274 430 190
Air, water and steam radiators, other than of cast iron or for use with gas or electricity (e)	(i) 15,356 (ii) ..	166 354 63	16 10	25,172 ..	84 106 8
Unit heaters	(i) 8,962 (ii) ..	761 157 70	26 17	21,349 ..	524 241 53
Ventilators, hoods, cowls and pipes	..	3,743	387	..	4,753 (a)
Other descriptions, not of cast iron, not elsewhere specified					
Heating plant and appliances	(i) .. (ii) ..	850 336	39 37	.. ..	1,246 71
Other	(i) .. (ii) ..	3,673 477	94 55	.. ..	1,620 177
Unclassified	(i) and (ii) -	-	-	..	119
Automatic slot machines, other than weighing machines (f)	(i) 1,137 (ii) ..	23 159 16	6 ..	3,732 ..	121 227 32
Battery and cell making machinery, not elsewhere specified	(i) .. (ii) ..	61 87	.. 11	.. ..	112 130
Boilers and boiler-house plant (other than boilers for ships and locomotives, and burners and furnaces) (g)					
Boilers					
Water tube	(i) .. (ii) ..	9,484 1,215	12 21	.. ..	2,343 888

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Boilers and boiler-house plant (other than boilers for ships and locomotives, and burners and furnaces) (g) (contd.)					
Boilers (contd.)					
Lancashire and Cornish types	(i) .. (ii) ..	961 230	16 21	.. ..	616 116
Economic types	(i) .. (ii) ..	1,864 147	24 19	.. ..	825 44
Vertical types	(i) .. (ii) ..	1,182 122	32 21	.. ..	1,065 97
Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes	(i) .. (ii) ..	897 96	39 41	.. ..	991 75
Unclassified	(i) .. (ii) ..	363 148	.. ..	- -	- -
Boiler-house plant, sold separately					
Fuel economisers, feed water heaters and steam superheaters	(i) .. (ii) ..	5,310 462	25 22	.. ..	2,771 345
Boiler firing plant	(i) .. (ii) ..	2,039 1,092	31 31	.. ..	1,421 (h) 680
Mechanical stokers	(i) .. (ii) ..	773 209	19 18	.. ..	488 157
Other boiler-house plant, not elsewhere specified					
Complete	..	6,321	40	..	4,025
Parts	..	1,740	83	..	825
Unclassified	-	-	-	..	492
Unclassified	(i) - (ii) -	- -	- -	.. ..	1,050 55
Bottle washing machinery	(i) .. (ii) ..	2,015 339	25 37	.. ..	1,352 253
Boot and shoe making and repairing machinery, other than sewing machines (i)	(i) .. (ii) ..	1,105 1,140	22 38	.. ..	851 774
Bottling, packing, canning, packeting and labelling machinery					
Bottling and capping	(i) .. (ii) ..	2,129 420	37 50	.. ..	1,545 301
Canning (j)	(i) .. (ii) ..	349 88	18 23	.. ..	469 59
Filling and closing machinery for solids and semi-solids	(i) .. (ii) ..	595 70	22 23	.. ..	175 12
Labelling	(i) .. (ii) ..	759 195	25 25	.. ..	292 69
Packing and wrapping	(i) .. (ii) ..	3,545 515	57 43	.. ..	1,848 101
Brick, tile and cement block making machinery, other than kilns	(i) .. (ii) ..	912 925	50 93	.. ..	980 746
Cable making machinery	(i) .. (ii) ..	637 172	17 34	.. ..	656 64
Cement making machinery	(i) .. (ii) ..	521 413	17 47	.. ..	634 215
Centrifuges, other than cream separators and hydro-extractors for use in laundries	(i) 3,039 (ii) ..	1,812 17 534	23 20	1,686 ..	747 23 246

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Chemical and gas making machinery and plant, not elsewhere specified					
Mineral oil refining	{ (i) .. (ii) ..	761 437	12 30	.. ..	1,033 184
Oil (other than mineral) extraction and refining	{ (i) .. (ii) ..	887 737	18 23	.. ..	1,430 231
Paint, varnish and ink making	{ (i) .. (ii) ..	549 154	33 45	.. ..	708 138
Soap, and fatty acid making	{ (i) .. (ii) ..	446 28	17 19	.. ..	415 24
Gas works plant					
Gas producers	{ (i) .. (ii) ..	1,288 789	13 33	.. ..	1,219 559
Water gas plant	{ (i) .. (ii) ..	500 349	6 16	.. ..	365 58
Other, including by-products plant for use at gas works	{ (i) .. (ii) ..	9,727 3,669	.. ..	.. ..	5,029 1,877
Unclassified					
Complete	..	257	..	..	443
Parts	..	227	6	..	53
Unclassified	..	4,495	23	-	-
Civil engineering and contracting machinery and plant, new					
Excavators, trenchers, ditchers and similar digging machinery, other than cableway dragline excavators and rope-hauled drag scrapers	{ (i) 2,218 (ii) ..	7,737 3,850	16 50	1,381 ..	4,778 2,659
Earth-moving, earth-levelling and land-clearing machinery					
Angledozer, bulldozers, calf dozers and mule dozers (i.e., equipment without tractors)	{ (i) 2,701 (ii) ..	1,154 275	13 24		
Graders, levellers, scrapers (other than rope-hauled drag scrapers), loaders and loading shovels	{ (i) 2,608 (ii) ..	2,584 435	20 30	{ (i) 3,128 (ii) ..	2,666(k) 701
Other	{ (i) 2,156 (ii) ..	3,048 542	19 32		
Concrete mixing, placing and finishing, etc. machinery					
Mixers (fixed, portable, truck, etc.)	{ (i) 12,422 (ii) ..	2,532 33 514	27 32	{ 11,515	1,987 250 360
Other	{ (i) 5,706 (ii) ..	718 7 126	18 21	{ 1,703	346 16 53
Tar, bitumen and asphalt plant, with or without mixing gear	{ (i) .. (ii) ..	885 333	21 35	.. ..	732 119
Other civil engineering and contracting plant, not elsewhere specified					
Complete	..	1,234	32	..	344
Parts	..	393	47	..	61
Unclassified	..	17	..	..	509
Civil engineering and contracting machinery and plant, reconditioned	{ (i) .. (ii) ..	1,164 40	26 20	..	492(a)

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Unclassified civil engineering machinery and plant	{ (i) - (ii) -	- -	- -	.. ..	61 131
Cloth cutting and other garment making machinery, not elsewhere specified (1)	{ (i) .. (ii) ..	241 54	15 16	.. ..	153 19
Condensers, steam, other than marine					
For steam turbines	{ (i) 172 (ii) ..	3,283 255	12 12	{ 71 ..	702 923
Other	{ (i) 55 (ii) ..	45 13 81	9 12	{ 121 ..	83 42 9
Crushing, washing and screening machinery for quarry products	{ (i) .. (ii) ..	2,612 1,409	48 83	.. ..	1,617 1,059
Dishwashing machinery	{ (i) .. (ii) ..	281 54	8 10	.. ..	345 41
Drying machinery, not elsewhere specified					
Complete	..	1,552	66	..	1,171
Parts	..	204	53	..	108
Unclassified	-	-	-	..	180
Electric lamp and radio valve making machinery, not elsewhere specified	{ (i) .. (ii) ..	228 114	21 38	.. ..	229 67
Filter presses	{ (i) .. (ii) ..	370 121	15 17	.. ..	455 96
Food and drink preparation, processing and sterilising machinery, not elsewhere specified					
Bakery and biscuit ovens					
Complete	{ 910 ..	600 1,255	{ 26 ..	{ 1,377 ..	1,141 50
Parts	..	96	28	..	175
Unclassified	-	-	-	..	77
Bakery, biscuit and flour confectionery machinery	{ (i) .. (ii) ..	4,406 722	64 87	.. ..	4,508 622
Cocoa preparation, chocolate and sugar confectionery making machinery	{ (i) .. (ii) ..	1,326 216	36 50	.. ..	887 98
Sugar making and refining machinery, other than centrifuges					
Complete	..	1,603	17	..	1,422
Parts	..	1,323	36	..	526
Unclassified	-	-	-	..	516
Dairy machinery and plant, other than milking machines	{ (i) .. (ii) ..	2,648 306	54 67	.. ..	2,338 210
Mineral water making machinery and plant	{ (i) .. (ii) ..	649 187	13 17	.. ..	555 197
Brewing and distilling machinery and plant	{ (i) .. (ii) ..	1,898 429	39 52	.. ..	2,117 369
Other machinery for the preparation, processing and sterilising					
Of food	{ (i) .. (ii) ..	5,206 1,009	143 158	{ (i) .. (ii) ..	4,384(m) 869(m)
Of drink	{ (i) .. (ii) ..	782 114	31 33	....	....
Unclassified food and drink preparation, processing and sterilising machinery	{ (i) - (ii) -	- -	- -	.. ..	374 25

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Founding and diecasting machinery (n)					
Complete	..	1,544	36	..	622
Parts	..	371	41	..	104
Unclassified	-	-	-	..	668
Furnaces and kilns					
Blast furnaces	{ (i) .. (ii) ..	777 827	.. 23	.. ..	272 214
Other metallurgical furnaces					
Electric	{ (i) { 2,078 .. 56 (ii) { .. 385	2,039 56 385	{ 19 .. 18	{ 1,230	1,294 66 402
Gas	{ (i) { 1,189 .. 216 (ii) { .. 322	914 216 322	{ 28 .. 27	{ 647	277 408 122
Oil	{ (i) { 788 .. 38 (ii) { .. 108	713 38 108	{ 31 .. 22	{ 444	124 117 93
Other descriptions					
Complete	{ .. 505	167 35	{ 15	..	266
Parts	..	95	22	..	72
Unclassified	..	198	..	..	127
Boiler furnaces	{ (i) { 550 .. 36 (ii) { .. 37	89 36 37	{ 7 .. 9	..	(o)
Other furnaces and kilns (p)					
Complete	{ .. 546	275 813	{ 33	..	78
Parts	..	169	46	..	11
Unclassified	..	168	..	-	-
Gas appliances, other than meters, pipes and fittings					
Water heaters, other than of cast iron	{ (i) { 214,377 .. 34 (ii) { .. 208	1,841 34 208	{ 15 .. 10	..	(o)
Other	{ (i) { 35,922 .. 417 (ii) { .. 187	438 417 187	{ 22 .. 16	..	(o)
Gas meters					
Domestic	{ (i) { 1,013,972 .. 30 (ii) { .. 1,462	5,883 30 1,462	{ 45 .. 28	{ 783,891	3,950 32 1,202
Other	{ (i) { 11,846 .. 45 (ii) { .. 138	544 45 138	{ 26 .. 15	{ 9,597	521 5 83
Glass making and glass working machinery and plant, other than furnaces					
Complete	..	513	50	..	716
Parts	..	551	70	..	242
Unclassified	..	319	..	..	387
Grain processing machinery and plant	{ (i) .. (ii) ..	3,393 787	32 40	.. ..	2,434 446

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Laundrying and dry cleaning machinery, including hydro-extractors and other drying machinery used in laundries, but excluding machinery for textile finishing					
Washing machines, other than dry cleaning washers					
For domestic use, hand operated	{ (i) 58,948 (ii) ..	864 68	12 10	{ 77,349	563 78 41
Other than for domestic use					
Electrically driven	{ (i) 1,030 .. (ii) ..	521 65 79	21 19	{ 842	369 41
Other	{ (i) 452 .. (ii) ..	189 33	17 18	{ 736	280 12 67
Dry cleaning washers	{ (i) 196 (ii) ..	215 10	12 13	{ 234 ..	182 20
Wringers and mangles for domestic use	{ (i) 783,986 (ii) ..	2,984 24 67	20 16	{ 642,363	2,215 47 65
Other drying machines	{ (i) 1,541 .. (ii) ..	524 48 93	25 19	{ 1,738 ..	601 134
Ironing machines	{ (i) 8,139 .. (ii) ..	526 96 68	16 15	{ 3,277 ..	527 50
Steam presses	{ (i) 1,671 .. (ii) ..	475 93 99	15 14	{ 2,566	550 15 46
Other laundrying and dry cleaning machinery	{ (i) .. (ii) ..	426 135	34 44	{	363 70
Lawn mowers					
Hand driven	{ (i) 671,096 (ii) ..	1,771 16 193	16 27	{ 481,912	1,387 22 143
Animal and mechanically driven	{ (i) 51,516 (ii) ..	1,865 407	18 19	{ 31,055 ..	1,417 274
Lighting appliances, not elsewhere specified	{ (i) .. (ii) ..	352 91	9 11	{	484 78
Machine tools, wood-working, new, other than portable power tools					
Sawing	{ (i) 8,995 .. (ii) ..	1,421 230 189	73 41	{ 24,225	1,467 173 153
Planing and moulding	{ (i) 4,254 .. (ii) ..	1,224 48 160	48 25	{ 4,505 ..	1,214 58 121
Mortising and tenoning	{ (i) 1,606 .. (ii) ..	398 40 54	34 20	{ 1,684 ..	458 62
Veneer and plywood	{ (i) 287 .. (ii) ..	89 152 12	7 6	{ 464	219 12 19
Other	{ (i) 6,897 .. (ii) ..	1,237 238 241	77 53	{ 8,733	1,079 15 113
Machine tools, wood-working, reconditioned	{ (i) 762 .. (ii) ..	154 156 11	33 13	{ 74	12(a) 125 2

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Cutting tools for use on wood-working machines, except saws and saw blades	..	373	32	..	232
Mechanical power transmission plant, not elsewhere specified					
Complete	..	3,743	30	..	2,273
Parts	..	1,061	51	..	666
Unclassified	-	-	-	..	1,647
Mining machinery, other than portable power tools					
Coal cutters, power operated	{ (i) 701 (ii) ..	{ 1,183 2	{ 9	{ ..	{ 1,519
Conveyors, underground	{ (i) 2,784 (ii) ..	{ 3,371 3	{ 18	{ ..	{ 4,276
Power loaders	{ (i) 211 (ii) ..	{ 335 256	{ 8 12	{ ..	{ 256 89
Winding	{ (i) .. (ii) ..	{ 1,121 418	{ 18 23	{ ..	{ 402 149
Hauling engines (stationary)	{ (i) 852 (ii) ..	{ 438 14 325	{ 15	{ ..	{ 583 302
Other	{ (i) .. (ii) ..	{ 3,851 1,694	{ 73 138	{ ..	{ 2,329 1,681
Unclassified	{ (i) .. (ii) ..	{ 134 22	{ 5 ..	{ ..	{ 1,339 377
Office machinery (q)					
Adding and listing machines	{ (i) 9,161 (ii) ..	{ 949 23 29	{ 9 11	{ ..	{ ..
Other calculating machines	{ (i) 35,087 (ii) ..	{ 1,313 88	{ 7 8	{ (i) 26,401 (ii) ..	{ 1,343 38
Accounting, book-keeping, billing or posting machines or any combination thereof (not being machines operated in conjunction with punched cards) including typewriters incorporated therein	{ (i) 6,776 (ii) ..	{ 3,300 138	{ 7 12	{ ..	{ ..
Duplicators, excluding litho-offset machines (r)	{ (i) 47,504 (ii) ..	{ 1,585 81 395	{ 11 8	{ 34,081 ..	{ 1,318 130 269
Addressing machines	{ (i) 10,080 (ii) ..	{ 805 358	{ 5 11	{ 10,199 ..	{ 425 401
Letter opening, coin sorting, counting and wrapping, letter sealing, stamp affixing, postage franking, perforating and cheque writing machines					
Complete	{ 9,524	{ 319 5	{ 9	{ 4,834	{ 178(s) 20
Parts	..	66	7	..	52
Unclassified	-	-	-	..	55
Typewriters					
New					
Not exceeding 22 lb. in weight	{ (i) 57,491 (ii) ..	{ 803 23	{ 6 7	{ 20,741 ..	{ 277 (o)
Exceeding 22 lb. in weight	{ (i) 122,514 (ii) ..	{ 3,374 166	{ 7 8	{ 46,665 ..	{ 1,333 (o)

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Office machinery (q) (contd.)					
Typewriters (contd.)					
Reconditioned	{ (i) 4,984 (ii) ..	{ 142 56 46	{ 16	{ 20,918	{ 543 41 (o)
Parts, unclassified	-	-	-	..	106
Other office machinery (q)					
Complete	..	7,442	39	..	3,753
Parts	..	1,651	32	..	886
Unclassified	..	394	..	..	1,154
Paint spraying, metal spraying and similar machines, other than insecticide spraying machines	{ (i) .. (ii) ..	{ 1,091 291	{ 29 25	{ ..	{ 883 323
Plantation machinery, not elsewhere specified	{ (i) .. (ii) ..	{ 890 203	{ 18 17	{ ..	{ 293 64
Plastics working machinery, other than presses	{ (i) .. (ii) ..	{ 834 87	{ 32 48	{ ..	{ 379 38
Portable power tools					
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					
Pneumatic	{ (i) 49,713 (ii) ..	{ 648 384 550	{ 16	{ 47,712 (m)	{ 403 379 297
Petrol	{ (i) 3,715 (ii) ..	{ 239 33 69	{ 7	{ 1,877	{ 171 53
Of the type employed in civil engineering, mining and quarrying					
Pneumatic	{ (i) 22,116 (ii) ..	{ 965 353 1,133	{ 19	{ 20,342	{ 653 245 617
Petrol	{ (i) 2,938 (ii) ..	{ 208 92	{ 6	{ 2,403	{ 148 67
Thous.	308	609	15	261	274
Detachable tools (drilling bits, etc.) used in rock drilling machinery (a)	..	1,146	..	..	174
Pottery and other ceramic making machinery, other than furnaces and kilns (t)	No.		No.		
Complete	..	408	21	..	585
Parts	..	179	29	..	139
Unclassified	-	-	-	..	73
Presses, not elsewhere specified					
Tableting and pelleting presses, other than for powder metallurgy	{ (i) 156 (ii) ..	{ 82 84	{ 12	{ 78	{ 30 82 86
Plastics moulding, other than tableting and pelleting	{ (i) 1,353 (ii) ..	{ 977 9 243	{ 32	{ 842	{ 762 219 127
Baling presses (u)	{ (i) 766 (ii) ..	{ 280 36 51	{ 20	{ 1,087	{ 620 159 178

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948			
	Quantity		Value	Entries	Quantity		Value
	No.	E.h.p.	£'000	No.	No.	H.p.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)							
Prime movers							
Internal combustion, new, other than engines for aircraft, road vehicles, locomotives, ships and boats							
Gas turbines	(i) 2	9,664	419	..	..	..	(o)
	(ii) ..	..	115	..	..	..	..
	(i) 2	..	83	7	..	..	..
	(ii) ..	..	212	..	..	..	..
Reciprocating							
Compression ignition (diesel and dual fuel)							
Not exceeding 50 b.h.p.	(i) 83,763	1,052,184	14,224	29	36,884	572,248	6,641
	(ii) 8,875	..	879	..	382	..	88
	(i) ..	..	2,322	40	..	..	1,335
	(ii) ..	..	1,434	29	3,530	369,976	5,640
Over 50 b.h.p., not exceeding 300 b.h.p.	(i) 5,141	512,346	7,639	26	3,530	369,976	5,640
	(ii) ..	..	1,434	29	..	..	760
Over 300 b.h.p., not exceeding 1,500 b.h.p.	(i) 630	369,557	5,308	15	285	162,820	1,759
	(ii) ..	..	1,003	16	..	..	541
Over 1,500 b.h.p.	(i) 31	55,250	977	6	5	9,120	136
	(ii) ..	..	116	6	..	..	25
Paraffin, petrol and other spirit							
Not exceeding 10 b.h.p.	(i) 73,309	253,012	2,464	19	55,926	168,734	1,791
	(ii) 99,697	..	1,338	..	54,105	..	614
	(i) ..	..	20	..	..	..	219
	(ii) ..	..	518	24	..	..	237
Over 10 b.h.p.	(i) 1,877	38,492	326	..	1,883	59,524	270
	(ii) ..	..	156	7	..	..	38
Other reciprocating (including gas and semi-diesel)	(i) 967	13,764	245	6	353	10,480	180
	(ii) ..	..	83	13	..	..	112
Reconditioned reciprocating internal combustion engines	(i) ..	..	54	5	235	78,482	1,194(a)
	(ii) ..	..	177	5	..	..	176
Unclassified reciprocating internal combustion engines	(i) -	-	-	-	..	..	152
	(ii) -	-	-	-	..	..	1,510
Steam reciprocating (other than marine, and winding engines for mining machinery)	(i) 343	31,764	537	12	479	32,252	308(v)
	(ii) 29	..	22	..	123	..	199
	(i) ..	..	303	20	..	..	364
Turbines, other than marine and gas							
Steam	(i) 256	981,472	3,548	21	190	619,936	1,617
	(ii) 129	..	5,741	..	..	..	3,077
	(i) ..	..	1,476	22	..	..	1,075
	(ii) ..	..	..	..	..	..	..
Other (e.g., water turbines)	(i) 112	697,830	762	9	67	82,128	114
	(ii) 2	..	15	..	15	..	54
	(i) ..	..	..	..	..	..	40
	(ii) ..	..	533	11	..	..	262
Other and unclassified	(i) ..	..	1,623	8	..	..	40
	(ii) ..	..	2,795	27	..	..	688(m)

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Pulp making and paper and board making machinery, including finishing machinery	(i) ..	3,269	45	..	1,867
	(ii) ..	2,875	84	..	1,195
Pulverising machinery and plant, other than crushing machinery for quarry products (w)	(i) ..	651	18	..	367
	(ii) ..	365	21	..	162
Pumps					
Petrol and oil measuring	(i) 23,298	2,661	14	18,395	1,865
	(ii) ..	57	..	..	64
	(i) ..	724	21	..	658
Hand pumps, other than petrol and oil measuring	(i) 98,259	388	38	111,706	304
	(ii) ..	24	..	..	84
	(i) ..	27	24	..	23
Other kinds					
Reciprocating	(i) 20,534	3,205	64	23,715	2,894
	(ii) ..	64	..	..	162
	(i) ..	954	62	..	774
Centrifugal and axial flow	(i) 97,526	8,807	90	64,394	4,719
	(ii) ..	143	..	..	136
	(i) ..	1,858	81	..	1,251
Turbine	(i) 1,050	559	11	750	279
	(ii) ..	193	12	..	92
Rotary	(i) 29,880	1,950	57	21,273	1,204
	(ii) ..	32	..	..	73
	(i) ..	250	46	..	130
Other	(i) 61,667	2,730	88	47,876	1,336
	(ii) ..	182	..	..	220
	(i) ..	762	95	..	269
Pumps, unclassified	(i) 992	68	10	249	19
	(ii) ..	286	..	..	161
	(i) ..	366	8	..	220
Refrigerating machinery					
Automatic power operated refrigerators					
Of a storage capacity not over 12 cu.ft.					
Complete	209,262	10,727	17	122,170	5,818
	..	145	..	..	72
Mechanical units, complete	144,263	3,001	12	57,576	2,101
	..	9	..	..	..
Parts	..	1,982	36	..	780
Of a storage capacity over 12 cu.ft.					
Complete					
Not over 10 h.p.	15,185	1,877	21	13,211	1,981
	..	173	..	..	585
Over 10 h.p.	265	504	8	420	1,049
	..	497	..	..	119
Mechanical units, complete	35,306	1,789	13	12,331	1,129
	..	26	..	..	53
Parts	..	741	41	..	914
Automatic heat operated refrigerators					
Complete					
Complete	98,286	3,194	5	..	..
Mechanical units, complete	56,014	444	..	(i) ..	3,945
	..	57	..	(ii) ..	633
Parts	..	198	12	..	..
Non-automatic refrigerating machinery	(i) ..	4,601	7	..	..
	(ii) ..	750	12	..	..

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Refrigerating machinery (contd.)					
Unclassified refrigerating machinery	{ (i) .. (ii) ..	62 402	.. 14	.. ..	556 422
Refuse and sewage disposal machinery	{ (i) .. (ii) ..	1,073 127	21 31	.. ..	490 127
Rubber working machinery	{ (i) .. (ii) ..	2,095 484	48 81	.. ..	1,492 412
Sewing machines (including machine heads and parts thereof other than needles New	Thous.			Thous.	
Industrial	{ (i) 140.6 (ii) ..	2,286 991	18 25	{ 140.0 ..	1,788 25
Domestic	{ (i) 617.7 (ii) ..	5,332 555	7 7	{ 398.4 ..	3,031 (o)
Reconditioned	{ (i) 0.9 (ii) ..	64 38 16	{ 10 6	{ 3.1 ..	114 4 (o)
Unclassified parts, other than needles	-	-	-	..	1,145
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified					
Cold drawing plant for tubes and other tube making machinery, except hydraulic extrusion presses (x)	{ (i) .. (ii) ..	519 206	13 16	.. ..	469 135
Rolling mills (hot and cold), other than tube making					
For steel	{ (i) .. (ii) ..	1,927 1,455	11 37	.. ..	1,198 518
For non-ferrous metals	{ (i) .. (ii) ..	715 196	7 7	.. ..	590 87
Other steel-works and non-ferrous machinery and plant	{ (i) .. (ii) ..	3,797 1,818	41 74	.. ..	1,010 427
Stone working machinery, not elsewhere specified	{ (i) .. (ii) ..	81 129	10 18	.. ..	162 32
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	{ (i) .. (ii) ..	805 463	21 41	.. ..	564 381
Testing machinery and equipment (a)	{ (i) .. (ii) ..	1,342 125	37 12	.. ..	868 81
Tobacco processing and cigar and cigarette making machinery	{ (i) .. (ii) ..	3,128 767	27 34	.. ..	3,047 867
Water meters	{ (i) No. 141,193 (ii) ..	826 750 183	{ 13 18	{ No. 88,848 ..	566 568 165
Water treatment plant, other than plant for waterworks					
Water softeners, water filters and water sterilising equipment					
Domestic	{ (i) .. (ii) ..	276 13	12 10	.. ..	242(y) 29
Other	{ (i) .. (ii) ..	1,141 122	25 25	{ (i) .. (ii) ..	1,016 132
Other water treatment plant	{ (i) .. (ii) ..	705 111	15 19	....	....

TABLE 8 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Waterworks equipment and plant	{ (i) .. (ii) ..	1,618 463	21 49	.. ..	832 118
Weighing machines and parts thereof, other than ribbon spools with or without ribbons	{ (i) 763,825 (ii) ..	5,213 340	48 49	.. ..	3,801(z) 251
Well drilling machinery					
Petroleum	{ (i) .. (ii) ..	763 1,541	.. 18	....	....
Other					
Complete	..	63	7	{ (i) .. (ii) ..	568 204
Parts	..	182	12	..	..
Unclassified	..	54	..	..	..
Unclassified (i) and (ii)	-	-	-	..	1,111
Wire making machinery	{ (i) .. (ii) ..	726 86	11 22	.. ..	496 80
Wire working and wire winding machinery, other than cable making machinery					
Complete	..	547	35	..	276
Parts	..	98	34	..	146
Unclassified	..	97	..	-	-
Other and unclassified machinery and parts thereof (aa)					
Hydraulic, including hydraulic accumulators but excluding presses and pumps	{ (i) .. (ii) ..	1,355 511	42 38	.. ..	578 147
Other					
Complete	..	7,667	..	..	5,629
Parts	..	3,701	..	..	1,539
Unclassified	..	470	..	..	116
Reconditioned machinery and plant, not elsewhere specified (a)					
Air and gas compressors and exhausters	..	..	..	..	40
Boilers and boiler-house plant, other than boilers for ships and locomotives	..	..	..	..	112
Chemical and gas making machinery and plant	..	..	..	..	58
Food and drink preparation, processing and sterilising machinery	..	1,873	40	..	52
Laundry and dry cleaning machinery	..	..	..	..	56
Office machinery, other than typewriters	..	..	..	..	284
Pumps	..	..	..	..	52
Other	..	..	..	..	1,731
OTHER PRINCIPAL PRODUCTS					
Arms, ammunition and naval, military and air force stores, not elsewhere specified	Tons	45,952	..	Tons	26,154 5,098
Canteen and cafe boiler, etc. sets (excluding purely sheet metal catering equipment) and parts (a)	{ 135 ..	186 170	..	{ 225 ..	273 373
Carpet sweepers, not electrically operated	No.	..	..	No.	..
Complete	{ 273,365 ..	513 50	{ 10	{ 241,642 ..	400 34
Parts	..	21	..	..	15

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948		
	Quantity	Value	Entries	Quantity	Value	
	No.	£'000	No.		£'000	
OTHER PRINCIPAL PRODUCTS (contd.)						
Fairground equipment	..	227	18	..	444(a)	
Filters						
Oil	311,957	478	24	..	679(a)	
Other	..	1,116		45	..	700(a)
Unclassified	..	427		8		
Parts (a)	..	388	11	..	105	
Fire extinguishing apparatus, other than chemical	..	3,263	24	..	1,210(a)	
Garage equipment and plant, not elsewhere specified	..	1,424	54	..	911	
Heavy duty cooking apparatus (not purely cast iron products) (a)	Tons			Tons		
Gas	738	204	6	1,017	163	
Electric	61	32		..	116	70
Steam	776	210	7	277	82	
Oil	11	3		..	96	140
Unclassified	405	79	..	865	104	
Heavy plate work, not elsewhere specified (a)	..	53		..	104	..
Buoys and flotation vessels	240	52	6	772	81	
Bunkers, bins and silos	3,263	258		20	2,234	156
Heat exchangers	582	140	11	1,934	255	
Pipes and chimneys	8,327	795		24	12,406	856
Storage tanks, assembled or not, 3/16 in. and over in thickness, (including tanks, sold separately, which when mounted on a chassis are used for the conveyance of liquid in bulk)	113,943	8,533	151	96,764	5,656	
Pressure vessels	6,133	861		26	7,838	812
Sundry vessels	12,689	1,556	21	10,198	1,482	
Pressure and sundry vessels, unclassified	1,232	175	9	980	152	
Welded and rivetted built-up plate work	25,821	2,151		52	21,907	1,788
Mechanical remote control equipment (except electrical and marine steering gear) (a)	..	614	..	..	881
Metal moulds, other than moulds and dies for use as engineers' small tools, moulds for use in civil engineering and ingot moulds and bottoms	1,348	336	81	1,633	396(bb)	
Moulding boxes and parts thereof	3,221	395		37	4,737	406
Pressure gauges	Thous. 1,406	1,166	45	Thous. 2,120	1,048	
Wood and metal patterns	..	179		345
Other and unclassified principal products	..	2,309	216	..	1,374(a)	
	..	20,891	..	..	18,027

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
		£'000	No.		£'000
OTHER PRINCIPAL PRODUCTS (contd.)					
Waste products other than scrap metals	..	149	192	..	98
Machinery purchased and installed and other installation work (cc)					
Air conditioning, heating and ventilating plant and appliances		1,563	107	}	5,383
Other (excluding marine machinery)		14,023	214		
Research and development work (a) (cc)		2,091	20		1,019
Repair and jobbing work (cc) (dd)		19,873	1,345		14,321
Other work done for the trade or on commission (cc)		7,971	597		5,780
Total		736,444	..		457,337
Sales in other trades (see Table 9)		112,356	..		67,694
Principal products of this trade sold by establishments in the trade		624,088	2,627		389,643

(a) So far as recorded separately.

(b) Excluding industrial valves of brass or other copper alloys; particulars for these valves were not recorded separately for 1948. Sales in that year of all valves of brass or other copper alloys amounted to £7,377,000 (see the Brass Manufacturers Trade - Volume 5, Trade F).

(c) So far as recorded separately. The figure for 1951 includes some wooden accessories for textile machinery (bobbins, reels, shuttles, etc.) and may also include some wooden patterns.

(d) Including some unclassified sales of air compressors and exhausters.

(e) For radiators of cast iron, see the Iron Foundries Trade (Volume 3, Trade C).

(f) Including automatic slot weighing machines and parts in 1948.

(g) Not specified as excluding furnaces in 1948.

(h) Travelling grate, sprinkler and underfeed screw type stokers only.

(i) Not specified as excluding sewing machines in 1948.

(j) Described as 'Canning (including industrial washing, peeling, etc.) machinery' in 1948.

(k) Recorded as:-

	No.	£'000
Loading shovels and dumpers	(i) 1,852	1,747
	(ii) ..	488
Bulldozers, angledozers, rooters, graders, scrapers and levellers	(i) 1,276	919
	(ii) ..	15
		213

(l) Described as 'Cloth cutting machinery' in 1948.

(m) Corrected figure.

(n) So far as recorded separately in 1948.

(o) Not recorded separately.

(p) Glass-making and glass-working furnaces only in 1948.

(q) Ribbon spools (with or without inked ribbons), sold separately, for use in all types of office machinery, weighing machines and time recorders are included in the figures shown for 'Other Office machinery'.

(r) Described as 'Duplicators' in 1948.

(s) Including machines for the automatic production of typewritten correspondence, other than typewriters.

(t) Described as 'Pottery making machinery' in 1948.

(u) Described as 'Other presses, including baling presses' in 1948.

(v) Excluding pumping engines.

(w) Described as 'Pulverising plant for coal' in 1948.

(x) Described as 'Cold drawing plant for bars and tubes, and other tube making machinery, except extrusion presses' in 1948.

(y) Water softeners only.

(z) Excluding automatic slot weighing machines.

(aa) Excluding marine, textile, printing and bookbinding machinery, metal-working machine tools and mechanical handling equipment, see Introductory note.

(bb) Including some ingot moulds and bottoms.

(cc) Amount charged.

(dd) Exclusive of the value of goods used by firms and recorded as their output. The total value of these goods used in repair and jobbing work in 1951 was recorded as £3,169,000; similar information is not available for 1948.

Sales of principal products of the trade by establishments
classified to other trades

Larger establishments

TABLE 9

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000
PARTS OF MACHINERY, SOLD SEPARATELY					
Bearings and parts thereof					
Ball bearings	..	12	14	..	88
Roller bearings	..	14	13		
Unclassified ball and roller bearings	..	55	..		
Other bearings (e.g., plain) and bushes	..	1,075	42	..	581
Burners					
Oil fuel burning equipment	..	439	8	..	8
Other	..	24	7		
Chains, steel transmission and other precision chains	..	122	11	..	20
Gears and gear wheels					
For vehicles	..	147	9	..	72
Other than for vehicles	..	1,406	147	..	1,311
Unclassified	..	41	..	..	41
Lubricators and parts (other than of railway wagon, etc. axle boxes), not elsewhere specified	..	61	5	..	57
Pulleys and pulley wheels	..	339	51	..	153
Rolls of iron or steel	Tons			Tons	
For metal rolling mills	16,498	1,097	34	12,219	662
For machinery, other than metal-working					
Cast iron	3,252	165	29	3,714	169
Other	23	6	..	226	22
Valves, other than for motor vehicles, and cocks (excluding domestic cocks and taps of brass or other copper alloys)					
Industrial valves	4,638	2,408	93	3,174	421(a)
Other	..	652			
Other	..	122	14	..	381
Wooden accessories	..	944	70	..	377
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE					
Agricultural machinery, other than tractors	No.			No.	
Cultivators and grubbers	(i) 353	14	7	19,245	405
	(ii) ..	18			
	(ii) ..	70				5
Insecticide and similar spraying machines	(i) and (ii) ..	65	6	..	209
Reapers and binders	(ii) ..	2	..	..	11
Hay and corn elevators	(i) 182	29	7	5	..
	(ii) ..	6			
Grain and grass driers	(i) 99	155	8	..	2,277
	(ii) ..	41			
Other agricultural machinery, including ploughs, disc harrows, planters, drills and seeders, hay and grass mowers, threshers, milking machines, combine harvesters, and potato and sugar beet lifters	(i) ..	5,948	6	(i) ..	322
	(ii) ..	357				(ii) ..

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity No.	Value £'000	Entries No.	Quantity No.	Value £'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Agricultural machinery, other than tractors (contd.)					
Unclassified agricultural machinery					
Complete	..	557	7	..	139
Parts	..	619	19	..	305
Unclassified	..	530	..	-	-
Air and gas compressors and exhausters and other pneumatic appliances					
Air compressors and exhausters, other than compressors supplied with paint spraying equipment					
Stationary					
Reciprocating					
Under 200 cu.ft.	(i) 118	9	9	(i) 67	30
	(ii) ..	46			
200 cu.ft. and over	(i) 19	78	..	(ii) ..	257
	(ii) ..	31			
Rotary	(i) 673	4	..	..	1
Turbo-types	(i) and (ii) -	-	..	(i) 131	29
				(ii) ..	29
Portable	(i) and (ii) ..	13	..	..	36
Other pneumatic appliances, not elsewhere specified, including gas compressors and exhausters					
Complete	..	131	10	..	44
Parts	..	51	8		
Unclassified	..	19	..		
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting and extracting, but excluding gas appliances)					
Air, water and steam radiators, other than of cast iron or those for use with gas or electricity (i) and (ii)	..	299	6	..	-
Ventilators, hoods, cowls and pipes	..	1,497	226	..	2,146
Heating plant and appliances not of cast iron, not elsewhere specified	(i) ..	88	6	..	220
	(ii) ..	37	5	..	1
Plenum systems	(i) ..	25	..	..	..
	(ii) ..	1			
Sectional boilers, other than for steam	(i) 101	14	..	(i) ..	663
	(ii) ..	-			
Unit heaters and other descriptions of air conditioning and ventilating plant and appliances (not of cast iron)	(i) ..	413	23	(ii) ..	173
	(ii) ..	101	8		
Unclassified	(i) and (ii) -	-	-	..	22
Boilers and boiler-house plant (other than boilers for ships and locomotives, and burners and furnaces)					
Boilers					
Economic types	(i) ..	90	5	..	88
	(ii) ..	13	5	-	-

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Boilers and boiler-house plant (other than boilers for ships and locomotives, burners and furnaces) (contd.)					
Boilers (contd.)					
Water tube { (i) .. 628 ..			}	(i) .. 815	}
{ (ii) .. 82 ..					
Other boilers, including sectional boilers for steam, locomotive type boilers for stationary purposes, Lancashire and Cornish types, and vertical types { (i) .. 323 14			}		
{ (ii) .. 23 9					
Unclassified { (i) .. 363 ..			}		
{ (ii) .. 97 ..					
Boiler-house plant, sold separately					
Fuel economisers, feed water heaters and steam super-heaters (i) and (ii) .. 649 9			}	(i) .. 427	}
Boiler firing plant					
Mechanical stokers { (i) .. 106 7			}		
{ (ii) .. 11 ..					
Other boiler firing plant (i) and (ii) .. 40 10					
Other boiler-house plant, not elsewhere specified { (i) .. 16 5			}		
{ (ii) .. 139 17					
Unclassified { (i) - -			}	.. 228	}
{ (ii) - -					
Bottle washing machinery { (i) .. - 5			}	.. 7	}
{ (ii) .. 28 ..					
Boot and shoe making and repairing machinery, other than sewing machines { (i) .. 2 ..			}	.. 5	}
{ (ii) .. 100 9					
Bottling, packing, canning, packeting and labelling machinery					
Bottling and capping { (i) .. 114 7			}	.. 20	}
{ (ii) .. 14 6					
Canning { (i) .. 31 ..			}	.. 20	}
{ (ii) .. 33 ..					
Filling and closing machinery for solids and semi-solids (i) and (ii) .. 36 ..				.. 42	
Labelling (i) and (ii) .. 79 8				.. 22	
Packing and wrapping { (i) .. 448 14			}	.. 98	}
{ (ii) .. 10 10					
Brick, tile and cement block making machinery, other than kilns { (i) .. 56 10			}	.. 110	}
{ (ii) .. 58 19					
Cable making machinery (i) and (ii) .. 152 10				.. 46	
Centrifuges, other than cream separators and hydro-extractors for use in laundries (i) and (ii) .. 158 6				.. 15	
Chemical and gas making machinery and plant, not elsewhere specified					
Paint, varnish and ink making { (i) .. 89 5			}	.. 19	}
{ (ii) .. 3 6					
Mineral oil refining (i) and (ii) .. 124 5					
Oil (other than mineral) extraction and refining { (i) .. 45 ..			}	.. 749	}
{ (ii) .. 36 7					
Gas producers (i) and (ii) .. 29 7					
Other, including by-products plant for use at gas works, water gas plant and soap and fatty acid making machinery { (i) .. 1,077 ..			}	.. 690	}
{ (ii) .. 690 ..					

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity No.	Value £'000	Entries No.	Quantity No.	Value £'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Chemical and gas making machinery and plant, not elsewhere specified (contd.)					
Unclassified					
Complete - - -				.. 23	
Parts .. 99 ..				.. 12	
Unclassified .. 4,208 22				- -	
Civil engineering and contracting machinery and plant, new					
Excavators, trenchers, ditchers and similar digging machinery, other than cableway dragline excavators and rope-hauled drag scrapers { (i) 209 472 5			}	.. 385	}
{ (ii) .. 504 16					
Concrete mixing, placing and finishing, etc. machinery (i) and (ii) .. 536 14			}	.. 331	}
Tar, bitumen and asphalt plant, with or without mixing gear (i) and (ii) .. 281 10			}	.. 47	}
Earth-moving, earth-levelling and land-clearing machinery					
Angledozers, bulldozers, calf- dozers and muledozers (i.e., equipment without tractors) (i) and (ii) .. 268 9			}	.. 1,063	}
Graders, levellers, scrapers (other than rope-hauled drag scrapers), loaders and loading shovels { (i) 523 201 5						}	.. 147	}
{ (ii) .. 14 10				.. 771	
Other (i) and (ii) .. 145 10				.. 34	
Other civil engineering and contracting plant, not elsewhere specified					
Complete .. 25 6					
Parts .. 21 9					
Unclassified .. 17 ..					
Civil engineering and contracting machinery and plant, reconditioned { (i) .. 68 7			}	.. 147 (b)	}
{ (ii) .. 2 6					
Condensers, steam, other than marine					
For steam turbines { (i) 77 1,668 5			}	.. 89	}
{ (ii) .. 51 ..					
Other { (i) - -			}	.. 76	}
{ (ii) .. 14 ..					
Crushing, washing and screening machinery for quarry products { (i) .. 230 12			}	.. 19	}
{ (ii) .. 49 16					
Drying machinery, not elsewhere specified { (i) .. 175 12			}	.. 4	}
{ (ii) .. 7 9					
Electric lamp and radio valve making machinery, not elsewhere specified { (i) .. 65 9			}	.. 76	}
{ (ii) .. 35 15					
Food and drink preparation, processing and sterilising machinery, not elsewhere specified					
Bakery and biscuit ovens (i) and (ii) .. 94 9				.. 11	
Bakery, biscuit and flour confectionery machinery { (i) .. 184 13			}	.. 19	}
{ (ii) .. 50 18					
Cocoa preparation, chocolate and sugar confectionery making { (i) .. 151 6			}	.. 4	}
{ (ii) .. 15 8					

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Food and drink preparation, processing and sterilising machinery, not elsewhere specified (contd.)					
Dairy machinery and plant, other than milking machines { (i) (ii)	..	122	10	..	205
Sugar making and refining machinery other than centrifuges (i) and (ii)	..	17	9	..	21
Brewing and distilling machinery and plant { (i) (ii)	..	139	12	} (i) .. (ii) ..	693
Other machinery for the preparation, processing and sterilising of food and drink, excluding mineral water making machinery and plant { (i) (ii)	..	21	6			..	161
Unclassified food and drink preparation, processing and sterilising machinery { (i) (ii)	..	9	6	..	..
Founding and diecasting machinery { (i) (ii)	..	666	35	..	50
Furnaces and kilns					
Elast furnaces (i) and (ii)	..	93	31	..	11
Other metallurgical furnaces					
Gas (i) and (ii)	..	-	-	..	89
Electric { (i) (ii)	..	244	12	..	53
Other descriptions, including oil furnaces					
Complete {	13	21	..	..	294
Parts ..	..	22	..	..	..
Unclassified ..	..	30	..	..	..
Other furnaces and kilns, including boiler furnaces					
Complete {	446	64	8	..	..
Parts ..	..	38	14	..	..
Unclassified ..	..	54	..	..	..
Gas appliances, other than meters, pipes and fittings { (i) (ii)	30,226	228	7	..	..
Gas meters					
Domestic { (i) (ii)	6,068	35	5	} (i) {10,007 (ii) ..	49 7
Other (i) and (ii)	..	30	5			..	50
Glass making and glass working machinery and plant, other than furnaces					
Complete ..	..	70	12	..	394(c)
Parts ..	..	22	9	..	..
Unclassified ..	..	319	..	..	..
Grain processing machinery and plant { (i) (ii)	..	19	..	..	94
	..	8	6	..	14

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Laundering and dry cleaning machinery, including hydro-extractors and other drying machinery used in laundries, but excluding machinery for textile finishing					
Washing machines, other than dry cleaning washers					
Electrically driven (other than for domestic use) { (i) (ii)	1	-	..	} ..	129
Other than electrically driven { (i) (ii)	48,997	741	9			..	410
Dry cleaning washers (ii)	..	67	7	..	22
Wringers and mangles for domestic use { (i) (ii)	41,780	184	7	} ..	53
Steam presses (i) and (ii)	..	18	..		
Other drying machines (i) and (ii)	..	1	..	..	..
Ironing machines (i)	-	6	..	..	-
Other laundering and dry cleaning machinery, including parts of ironing machines { (i) (ii)	..	24	..	} (i) .. (ii) ..	42 26
Lawn mowers					
Hand driven { (i) (ii)	8,058	21	..	..	45
Animal and mechanically driven { (i) (ii)	1,268	16	8	..	..
Machine tools, wood-working, new, other than portable power tools					
Sawing { (i) (ii)	2,809	92	..	2,823	220
Planing and moulding { (i) (ii)	311	9	6	..	..
Other wood-working machine tools, including mortising and tenoning and veneer and plywood machines { (i) (ii)	2,862	208	24	12,304	271
Machine tools, wood-working, reconditioned { (i) (ii)	197	7	12	..	60
Cutting tools for use on wood-working machines, except saws and saw blades	..	6	..	..	13
Mechanical power transmission plant, not elsewhere specified { (i) (ii)	..	55	12	110	10
Mining machinery, other than portable power tools					
Coal cutters (i) and (ii)	..	188	30	726	70
Conveyors, underground (i) and (ii)	..	89	15	..	20
Winding (i) and (ii)	..	19	..	..	19
Other mining machinery, including power loaders and hauling engines (stationary) { (i) (ii)	..	49	11	7	2
Unclassified { (i) (ii)	..	55	..	..	..
Mining machinery, other than portable power tools					
Mechanical power transmission plant, not elsewhere specified { (i) (ii)	..	248	23	..	48
Mining machinery, other than portable power tools					
Mechanical power transmission plant, not elsewhere specified { (i) (ii)	..	80	6	..	292
Mining machinery, other than portable power tools					
Coal cutters (i) and (ii)	..	107	15	..	..
Conveyors, underground (i) and (ii)	..	45	6	..	35
Winding (i) and (ii)	..	334	11	..	95
Other mining machinery, including power loaders and hauling engines (stationary) { (i) (ii)	..	17	..	..	372
Unclassified { (i) (ii)	..	270	18	..	85
	..	172	28	..	75
	..	111	..	..	..
	..	16	..	..	..

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Office machinery					
Adding and listing machines (i) and (ii)	..	18	..		
Accounting and other calculating machines, book-keeping, billing or posting machines or any combination thereof (not being machines operated in conjunction with punched cards), including typewriters incorporated therein	{ (i) .. (ii) ..	-	..	{ (i) .. (ii) ..	{ 1 2
Typewriters, new and reconditioned	{ (i) 1,502 (ii) ..	{ 46 23	{ 6 ..	{ 6,057 ..	{ 152 13 4
Other office machinery	{ (i) .. (ii) ..	{ 172 52	{ 13 8	{	{ 361 64
Paint spraying, metal spraying and similar machines, other than insecticide spraying machines	{ (i) .. (ii) ..	{ 32 23	{ 7 ..	{	{ 17 ..
Plantation machinery (i) and (ii)	..	1	..	..	6
Plastics working machinery, other than presses (i) and (ii)	..	332	18	{ (i) .. (ii) ..	{ 12 9
Portable power tools					
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	{ (i) 512 (ii) ..	{ 10 48 20	{	{	{
Of the type employed in civil engineering, mining and quarrying (i) and (ii)	..	150	6	..	635
Detachable tools (drilling bits, etc.) used in rock drilling machinery	{ Thous. 179 ..	{ 392 312	{ 5	{ ..	{ ..
Pottery and other ceramic making machinery, other than furnaces and kilns (i) and (ii)	..	29	6	(ii) ..	6
Presses, not elsewhere specified					
Tableting and pelleting presses, other than for powder metallurgy (i)	8	5	..	-	-
Plastics moulding, other than tableting and pelleting	{ (i) 98 (ii) ..	{ 34 3 9	{ 6 6	{ 84	{ 22 11 2
Baling presses	{ (i) 274 (ii) ..	{ 61 6	{ 8 8	{ 337	{ 94 55 25

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948		
	Quantity	Value	Entries	Quantity	Value	
	No.	B.h.p.	£'000	No.	No.	H.p.
						£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Prime movers						
Internal combustion, other than engines for aircraft, road vehicles, locomotives, ships and boats						
Reciprocating, new						
Compression ignition (diesel and dual fuel)						
Not exceeding 50 b.h.p.	{ (i) 990 (ii) 5,322	{ 20,412 ..	{ 234 538 153	{ 7 10	{	{ .. 674
Over 50 b.h.p., not exceeding 300 b.h.p.	{ (i) 477 (ii) ..	{ 49,662 ..	{ 686 71	{ 8 9	{ (i) 313 (ii) ..	{ 88,001 1,143 209
Over 300 b.h.p.	{ (i) 169 (ii) ..	{ 111,167 ..	{ 1,654 140	{ 7 6	{	{
Paraffin, petrol and other spirit	{ (i) 4,144 (ii) 96,768	{ 17,980 ..	{ 149 1,218 20 51	{ 6 9	{ 28,612 54,105	{ 109,826 21 957 614 219 21
Other reciprocating (including gas and semi-diesel); gas turbines; and reconditioned reciprocating internal combustion engines (d) (i) and (ii)	..	..	445	9	..	33
Steam reciprocating (other than marine, and winding engines for mining machinery)	{ (i) 98 (ii) 29	{ 5,971 ..	{ 84 22 59	{ .. 8	{ - -	{ - -
Turbines, other than marine and gas (d)	{ (i) 111 (ii) 88	{ 203,303 ..	{ 431 5,737 825	{ 11 9	{ 139	{ 92,829 294 3,077 730
Other and unclassified (d)	{ (i) .. (ii) ..	{	{ 1,623 2,059	{ 8 11	{	{ 76 1,613(e)
Pulp making and paper and board making machinery, including finishing machinery	{ (i) .. (ii) ..	{	{ 258 77	{ 10 19	{	{ 62 109
Pumps						
Petrol and oil measuring	{ (i) .. (ii) ..	{	{ 182	{ 6	{	{ 60 54
Other kinds, except hand pumps and petrol and oil measuring						
Reciprocating	{ (i) 1,675 (ii) ..	{ 323 47	{ 11 10	{ 1,237	{ 204 49 67	
Centrifugal and axial flow	{ (i) 14,439 (ii) ..	{ 378 98 53	{ 14 14	{ 6,624	{ 141 7 34	
Rotary	{ (i) 4,958 (ii) ..	{ 266 21 34	{ 15 9	{ 2,878 ..	{ 301 44	
Turbine (i) and (ii)	..	8	..	..	..
Other	{ (i) 8,463 (ii) ..	{ 230 29 97	{ 23 19	{ (i) 2,567 (ii) ..	{ 129 143 95	
Hand pumps, other than petrol and oil measuring	{ (i) 3,340 (ii) ..	{ 31 5 2	{ 7 ..	{ ..	{ ..	

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Pumps (contd.)					
Pumps, unclassified	{ (i) 992 (ii) ..	{ 68 151 54	{ 8 5	{ 9	{ 4 115 52
Refrigerating machinery					
Automatic power operated refrigerators					
Of a storage capacity not over 12 cu.ft. (i) and (ii)	..	2,590	11	..	1,476
Of a storage capacity over 12 cu.ft. (i) and (ii)	..	68	..	..	..
Automatic heat operated refrigerators and non-automatic and unclassified refrigerating machinery	{ (i) .. (ii) ..	{ 443 119	{ 6 12	{	{ 492 ..
Refuse and sewage disposal machinery	{ (i) .. (ii) ..	{ 20 4	{ 5 5	{	{ 9 ..
Rubber working machinery	{ (i) .. (ii) ..	{ 270 94	{ 10 9	{	{ 218 57
Sewing machines (including machine heads) and parts thereof, other than needles					
New, industrial (i) and (ii)	..	11	..	(i) ..	7
Unclassified parts, other than needles	-	-	-	..	16
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified					
Cold drawing plant for tubes and other tube making machinery, except hydraulic extrusion presses	{ (i) .. (ii) ..	{ 95 17	{ 6 ..	{	{ 701 155
Rolling mills (hot and cold), other than tube making (i) and (ii)	..	103	9	(i) .. (ii) ..	..
Other steel-works and non-ferrous machinery and plant	{ (i) .. (ii) ..	{ 302 187	{ 9 16	{	{
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	{ (i) .. (ii) ..	{ 22 4	{ 8 10	{	{ 31 2
Testing machinery and equipment	{ (i) .. (ii) ..	{ 152 14	{ 18 ..	{	{ 38 3
Water treatment plant, other than for waterworks					
Water softeners, water filters and water sterilising equipment					
Domestic	{ (i) .. (ii) ..	{ 57 -	{ .. -	{	{ .. 691(f)
Other, including parts of other water treatment plant (i) and (ii)	..	145	8	..	..
Weighing machines and parts thereof, other than ribbon spools with or without ribbons	{ (i) 311 (ii) ..	{ 11 54 48	{ 10 13	{	{ 43 10
Well drilling machinery					
Petroleum (i) and (ii)	-	-	-	(i) .. (ii) ..	33 9
Other (i) and (ii)	..	113	6	..	..

TABLE 9 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
		£'000	No.		£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Wire working and wire winding machinery, other than cable making machinery					
Complete	..	118	12	..	103
Parts	..	27	11	..	..
Unclassified	..	97	..	..	..
Reconditioned machinery and plant, not elsewhere specified	..	121	10	..	110
Other and unclassified machinery and parts thereof					
Hydraulic, including hydraulic accumulators but excluding presses and pumps { (i) .. (ii) ..	..	397	14	..	115
Other (g)					
Complete	..	3,751	..	..	2,237
Parts	..	2,300	..	..	780
Unclassified	..	423	..	..	123
OTHER PRINCIPAL PRODUCTS					
Arms, ammunition and naval, military and air force stores, not elsewhere specified	..	11,387	..	Tons 7,588	2,467 1,256
Carpet sweepers, not electrically operated, complete and parts	..	62	6	..	48
Fairground equipment	..	13	7	..	152(h)
Filters	No.				
Oil	{ 62,306	28	5	..	186
Other	..	11	..	..	..
Unclassified	..	17	6	..	..
Parts	..	85	..	..	..
Garage equipment and plant, not elsewhere specified	..	26	..	..	..
Heavy plate work, not elsewhere specified	Tons				
Bunkers, bins and silos	{ 1,242	84	6	904	52
Heat exchangers	..	14	..	..	26
Pipes and chimneys	{ 151	-	-	16	2
Storage tanks, assembled or not, 3/16 in. and over in thickness (including tanks, sold separately, which when mounted on a chassis are used for the conveyance of liquid in bulk)	{ ..	10	..	6,506	411
Pressure and sundry vessels	{ 8,252	14	..	..	28
Welded and rivetted built-up plate work, including buoys and flotation vessels	{ ..	842	50	10,555	859
Metal moulds, other than moulds and dies for use as engineers' small tools, moulds for use in civil engineering and ingot moulds and bottoms	{ 5,129	275	9	3,089	518
Pressure gauges	{ 4,323	644	6	6,290	516
Wood and metal patterns	{ ..	78	..	..	150
Pressure gauges	{ 781	379	28	873	142
Wood and metal patterns	{ ..	14	..	..	355
Pressure gauges	{ 108	99	22	..	559(i)
Wood and metal patterns	{ ..	28	89	..	467

TABLE 9 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
OTHER PRINCIPAL PRODUCTS (contd.)		£'000	No.		£'000
Other and unclassified principal products, including fire extinguishing apparatus; heavy duty steam cooking apparatus (not purely cast iron products); moulding boxes; and mechanical remote control equipment (except electrical and marine steering gear)	..	8,229	..	..	9,645
Machinery purchased and installed and other installation work (j)					
Air conditioning, heating and ventilating plant and appliances		135	29	}	627
Other (excluding marine machinery)		599	48		
Repair and jobbing work (j) (k)		8,777	454		4,026
Research and development work (j)		1,414	7	}	1,137
Other work done for the trade or on commission (j)		2,692	136		
Total		112,356	..		67,694

- (a) Excluding industrial valves of brass or other copper alloys (see footnote (b) to Table 8).
 (b) Including stone working machinery, not elsewhere specified.
 (c) Including furnaces.
 (d) For 1948, reconditioned reciprocating internal combustion engines and water turbines are included in the figures shown for 'Other and unclassified' prime movers.
 (e) Corrected figure.
 (f) Including water meters.
 (g) Including automatic slot machines, other than weighing machines; battery and cell making machinery, not elsewhere specified; cement making, cloth cutting and garment making and dishwashing machinery; filter presses, lighting appliances, not elsewhere specified; pulverising machinery and plant, other than crushing machinery for quarry products; stone working machinery, not elsewhere specified; tobacco processing and cigar and cigarette making machinery; waterworks equipment and plant; wire making machinery; cylinder liners and inserts; oil seals; pistons; and piston rings, packing rings, etc.
 (h) Including playground equipment (swings, slides, etc.)
 (i) Including parts of pressure gauges.
 (j) Amount charged.
 (k) Exclusive of the value of goods used by firms and recorded as their output. The total value of these goods used in repair and jobbing work in 1951 was recorded as £91,000; similar information is not available for 1948.

Sales in the trade of other than principal products
 Larger establishments

TABLE 10

	United Kingdom 1951	Great Britain 1948
	Value	Value
	£'000	£'000
Marine machinery and parts		
Boilers	913	615
Internal combustion engines		
Compression ignition (diesel)		
Propelling	2,485	1,407
Auxiliary	1,962	1,261
Steam		
Propelling	344	} 2,414
Auxiliary, reciprocating	273	
Other descriptions	2,656	
Machine tools, metal-working (other than portable power tools), and parts		
New		
Lathes	227	589
Presses	2,185	930
Forging machinery, other than presses	189	} 1,825
Sawing	203	
Other, including welding and cutting machinery	1,809	
Reconditioned	353	318
Engineers' small tools and parts	1,038	875
Textile machinery		
Finishing machinery and parts	1,364	989
For processes preparatory to spinning and twisting, including parts	417	} 938(a)
Other, including parts	1,061	
Accessories, sold separately	497	461
Mechanical handling equipment and parts		
Conveyors and elevators		
Belt	1,716	1,523
Other	1,463	1,329
Cranes, complete and parts		
Road, wheel or track mounted	531	528
Overhead travelling	653	346
Dock, harbour, wharf and shipyard	246	} 507
Other	418	

TABLE 10 (contd.)

	United Kingdom 1951	Great Britain 1948
	Value	Value
	£'000	£'000
Mechanical handling equipment and parts (contd.)		
Winches and capstans	337	282
Lifts and escalators	684	1,843
Other and unclassified, including reconditioned equipment	1,931	
Printing, bookbinding, paper-working, etc. machines and parts		
Printing machinery	1,908	702
Other	722	744
Electrical machinery and apparatus, including parts		
Generators and generating sets	1,138	634
Motors	1,218	760
Other	4,569	4,302(a)
Motor vehicles and cycles, and parts		
Tractors and industrial trucks, complete	5,079	1,050
Parts of motor vehicles and cycles	3,308	2,435
Other descriptions, including trailers	239	708
Aircraft parts and accessories	415	526
Rail locomotives and parts (except axles, tyres and wheels)	983	1,011
Road rollers and parts	946	474
Railway carriages and wagons, and parts (except axles, tyres and wheels)	1,025	841
Colliery tubs, trams and trucks, and parts	105	300
Non-mechanically propelled vehicles (except cycles) and parts	237	347
Electric portable power tools and parts	832	604
Edge and similar tools	221	958(a)
Engineers and similar hand tools	116	
Other types of hand tools and implements	1,437	
Hollow-ware of wrought iron or steel	745	741
Manufactures of brass or other copper alloys, not elsewhere specified		
Engineers' and mechanics' goods		
Domestic cocks and taps	251	1,558(b)
Other, excluding industrial valves and pressure gauges	736	785
Castings in the rough, sold as such	783	
Other	828	

TABLE 10 (contd.)

	United Kingdom 1951	Great Britain 1948
	Value	Value
	£'000	£'000
Stampings and pressings of iron or steel	602	428
Fabricated iron and steel	4,295	2,198
Jigs and fixtures	451	346
Scientific, surgical, and photographic instruments, apparatus and appliances	665	621
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings therefor	334	1,491
Castings of iron or steel		
Iron		
Motor and cycle industry	931	4,560
Marine	186	
For prime movers for land	199	
For machine tools	190	
For iron and steelworks plant	226	
For civil engineering and contracting machinery and plant	146	
Other and unclassified	5,141	
Steel	1,321	734
Drop forgings	276	8,742
Furniture of metal and parts thereof	296	
Machinery guards of sheet metal	137	
Other manufactures	7,601	
Scrap metals sold		
Iron and steel	1,496	763
Brass	2,443	807
Copper	217	388
Other	1,119	
Constructional engineering, etc. work carried out in the United Kingdom (1951) or Great Britain (1948) (c) (d)		
Work done as main contractors		
On factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)	2,247	1,437

TABLE 10 (contd.)

	United Kingdom 1951	Great Britain 1948
	Value	Value
	£'000	£'000
Constructional engineering, etc. work carried out in the United Kingdom (1951) or Great Britain (1948) (c) (d) (contd.)		
Work done as main contractors (contd.)		
Other	1,393	6,024
Work done as sub-contractors	715	494
Total constructional engineering work	4,355	7,955
Less total value of goods made or fabricated in firms' own works and used in the work	1,074	4,727
Total constructional engineering work exclusive of goods made and used by firms	3,282	3,227
Other work done (d)	502	1,288
Total	85,852	64,051

(a) Corrected figure.

(b) Including industrial valves.

(c) Excluding for 1951, but including for 1948, the cost of erection of industrial machinery and plant.

(d) Amount charged.

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

Note - Particulars of second-hand machinery, etc., whether reconditioned or not, are included in the oversea 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. Particulars of certain specific parts of machinery are shown separately; other parts are included with complete machines unless otherwise indicated.

TABLE 11

PARTS OF MACHINERY		Production (b) (c)	Exports (d)	Retained imports (e)
		£'000	£'000	£'000
Ball and roller bearings and parts	{ 1951 1948 1937	22,288 16,311 4,672	2,471 2,032 543	1,951 1,789 505
Oil fuel burning equipment	1951	2,021	600	..
Chains				
Steel transmission				
Roller type				
Up to and including 0.625 inch pitch				
Not over 0.2 inch width between plates	{ 1951 1948	1,453 810	677 327	....
Over 0.2 inch width between plates	{ 1951 1948	1,653 1,224	324 283	....
Over 0.625 inch pitch	{ 1951 1948	1,778 1,140	670 313	....
Other	1951	255	43 (f)	..
Total chains, steel transmission	{ 1951 1948 1937	5,139 3,674 (g) 1,207	1,713 945 428	122 48 20

(9598)

TABLE 11 (contd.)

PARTS OF MACHINERY (contd.)	Production (b) (c)		Exports (d)		Retained imports (e)	
	Tons	£'000	Tons	£'000	Tons	£'000
Rolls of iron or steel						
For metal rolling mills						
Cast iron	{ 1951 1948	39,650 39,973	2,797 2,284	3,549 3,691	267 266	493 567
Cast steel	{ 1951 1948	17,773 9,191	1,458 668	2,267 1,204	222 127	1,708 430
For machinery other than metal working						
Cast iron	{ 1951 1948	7,423 7,649	637 539	1,549 1,339	167 100	50 230
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE						
Agricultural machinery, other than tractors		£'000		£'000		£'000
Ploughs	{ 1951 1948 1937	3,590 4,026 629		3,079 1,518 238		31 272 118
Hay and grass mowers, other than rotary blade type (i)	{ 1951 1948 1937	2,075 1,316 314		920 259 34		240 190 57
Reapers, binders and threshers	{ 1951 1948 1937	1,201 1,464 241		247 345 92		331 321 140
Milking machines	{ 1951 1948 1937	2,266 2,117 22		375 158 13		117 11 91
Other descriptions						
Planters, drills and seeders	{ 1951 1948	1,392 623		46 20		30 24
Combine harvesters	1951	6,229		2,147		1,307
Sheep shearers and clipping machines	1951	442		282		..
Other	1951	20,770		7,042		..
Total other descriptions	{ 1951 1948 1937	28,833 14,335 1,380		9,516 3,563 411		1,337 2,061 192
Total agricultural machinery, other than tractors	{ 1951 1948 1937	42,337 (j) 24,461 (j) 2,586		14,138 5,843 788		2,056 2,857 598
Air and gas compressors and exhausters						
Complete						
Air compressors and exhausters, other than compressors supplied with paint spraying equipment	{ 1951 1948	7,352 5,017		3,395 2,187		285 105
Gas compressors and exhausters	{ 1951 1948	1,028 532		281 136		252 113
Parts	{ 1951 1948	1,608 1,034		677 377		212 172
Total air and gas compressors and exhausters	{ 1951 1948 1937	9,988 6,623 (j) 1,766		4,353 2,700 419		748 390 137
Battery and cell making machinery, not elsewhere specified	{ 1951 1948	148 242		45 44		.. 10
Boilers and boiler-house plant (other than boilers for ships and locomotives, and burners and furnaces)						
Boilers						
Water tube (k)	{ 1951 1948 1937	10,700 3,231 2,007		6,877 3,943 2,034		5 43 12

(9598)

TABLE 11 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	£'000		£'000		£'000	
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Boilers and boiler-house plant (other than boilers for ships and locomotives, and burners and furnaces) (contd.)						
Boilers (contd.)						
Lancashire and Cornish types	1951	1,191	188	(1)	(1)	
	1948	732	261	(1)	(1)	
	1937	438	44	-	-	
Other descriptions						
Economic types	1951	2,011	146	..	..
	1948	869	108	..	..
Vertical types	1951	1,304	428	..	..
	1948	1,162	365	..	..
Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes (k)	1951	993	1,038	..	..
	1948	1,066	942	..	..
Total other descriptions (k)	1951	4,308	1,612	24	24	
	1948	3,097	1,415	62	62	
	1937	1,006	199	4	4	
Boiler-house plant						
Fuel economisers, feed water heaters and steam superheaters	1951	5,772	994	..	..
	1948	3,116	859	1	1	
	1937	1,812	345	9	9	
Other boiler-house plant	1951	12,174	3,393	..	..
	1948	8,088	3,284	46	46	
	1937	4,340	494	76	76	
Total boilers and boiler-house plant	1951	34,656(j)	13,065	194	194	
	1948	19,481(j)	9,761	152	152	
	1937	9,603	3,116	101	101	
Boot and shoe making and repairing machinery, other than sewing machines (m)						
	1951	2,245	718	169	169	
	1948	1,625	626	143	143	
	1937	880	186	80	80	
Bottling (including bottle washing), packing, canning, packeting and labelling machinery (n)						
	1951	11,019	3,117	741	741	
	1948	4,871	1,495	680	680	
	1937	783	197	176	176	
Brick, tile, cement block making, pottery and other ceramic making machinery, other than furnaces and kilns						
	1951	2,424	450	..	..
Cement making machinery						
	1951	935	1,506	..	..
	1948	849	691	8	8	
	1937	436	86	277	277	
Chemical making machinery and plant						
Mineral oil refining	1951	1,198	942	..	..
Oil (other than mineral) extraction and refining	1951	1,624	583	..	..
Civil engineering and contracting machinery and plant						
Excavators, trenchers, ditchers and similar digging machinery, other than cableway dragline excavators and rope-hauled drag scrapers		No.	£'000	No.	£'000	No.
Complete	1951	2,218	7,737	1,144	4,288	..
	1948	1,381	4,778	817	1,931	574
	1937	..	..	..	..	4,089
Parts	1951	..	3,850	..	950	..

TABLE 11 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	No.	£'000	No.	£'000	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Civil engineering and contracting machinery and plant (contd.)						
Earth-moving, earth-levelling and land- clearing machinery						
Complete						
Angledozer, bulldozers, calldozers and muledozers (i.e., equipment without tractors)	1951	2,701	1,154	1,084	563	..
Graders, levellers, scrapers (other than rope-hauled drag scrapers), loaders and loading shovels	1951	2,608	2,584	1,037	1,570	..
Other	1951	..	3,076	1,475	1,937	..
Parts	1951	..	1,252	..	530	..
Total excavators, etc. and earth- moving, etc. machinery						
Complete	1951	..	14,551	4,740	8,358	15
Parts	1951	..	5,102	..	1,480	..
Concrete mixers						
	1951	..	3,079	..	1,182(o)	..
	1948	..	2,597	..	1,298	..
	1937	..	817	..	154	..
Condensers, steam, other than marine (k)						
	1951	..	£'000	..	£'000	..
	1948	..	3,677	..	653	..
	1937	..	1,848	..	318	..
Electric lamp and radio valve making machinery						
	1951	..	777	..	212	..
	1948	..	342	..	79	..
	1937	..	296	..	149	..
Filter presses						
	1951	..	490	..	130	..
	1948	..	551	..	107	..
	1937	..	104	..	13	..
Food and drink preparation, processing and sterilisation machinery, not elsewhere specified						
Bakers' and confectioners' (including sweetmaking) machinery	1951	8,621	1,946	406	406	
	1948	7,558	1,813	143	143	
	1937	1,191	221	252	252	
Sugar making and refining machinery, other than centrifuges	1951	2,926	2,327	104	104	
	1948	2,464	2,146	180	180	
	1937	759	590	32	32	
Dairy machinery and plant, other than milking machines	1951	2,954	1,540	159	159	
	1948	2,548	1,107	38	38	
	1937	550	216	147	147	
Other machinery for the preparation, processing and sterilising						
Of food	1951	6,215	1,389	341	341	
Of drink	1951	4,058	820	148	148	
Furnaces						
Blast furnaces	1951	1,605	311	(p)	(p)	
	1948	486	109	1	1	
	1937	515	105	16	16	
Other metallurgical furnaces	1951	5,288	759	69(p)	69(p)	
	1948	3,368	870	22	22	
	1937	903	142	77	77	
Gas meters						
	1951	8,103	411	..	..
Glass making and glass working machinery and plant, other than furnaces (q)						
	1951	1,383	304	405	405	
	1948	1,345	176	472	472	
	1937	171	23	98	98	
Grain milling machinery						
	1951	4,180(r)	2,112	..	..
	1948	2,880(r)	1,858	30	30	
	1937	530	282	13	13	

TABLE 11 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)
	No.	£'000	No.	£'000	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)					
Lawn mowers					
Complete					
Hand driven	1951	677,160(s)	1,786	333,052	907
Animal and mechanically driven	1951	51,516	1,865	21,392	804
Parts	1951	..	601	..	121
Total lawn mowers, complete and parts	{ 1951	..	4,252	..	1,832
	1948	..	3,243	..	1,014
	1937	..	1,155	..	147
Machine tools, wood-working, other than portable power tools		£'000		£'000	
Sawing	{ 1951	1,840	627	..	..
	1948	1,793	546	..	..
Planing and moulding	{ 1951	1,433	515	..	..
	1948	1,393	418	..	..
Other	{ 1951	2,462	1,059	..	..
	1948	1,977	881	..	..
Total machine tools, wood-working	{ 1951	6,055(j)	2,200	534	..
	1948	5,302(j)	1,846	319	..
	1937	930	215	200	..
Mining machinery, other than portable power tools					
Coal cutters, power operated					
Complete	1951	1,185	514	..	..
Parts	1951	1,186	252	..	..
Total coal cutters, power operated	{ 1951	2,371	766	37	..
	1948	2,763	478	2	..
	1937	787	87	2	..
Winding					
Complete	1951	1,121	347	..	..
Parts	1951	418	330	..	..
Total winding	{ 1951	1,539	677	43	..
	1948	551	438	5	..
	1937	635	252	14	..
Conveyors, underground					
Complete	1951	3,374	387	..	..
Parts	1951	3,436	407	..	..
Total conveyors, underground	{ 1951	6,810	794	162	..
	1948	7,226	357	4	..
Power loaders	{ 1951	591	196	21	..
	1948	345	53	33	..
Hauling engines (stationary)	{ 1951	777	121	..	..
	1948	885	64	..	..
Other	{ 1951	5,546	2,412	321	..
	1948	4,010	2,111	295	..
Total mining machinery	{ 1951	17,789(j)	4,967	583	..
	1948	17,496(j)	3,500	339	..
	1937	3,657	2,054	203	..

TABLE 11 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	No.	£'000	No.	£'000	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Office machinery (t)						
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	{ 1951	51,044(s)	5,585	29,054	2,947	17,047
	1948	26,401	1,343	8,323	427	10,314
Parts	{ 1951	..	255	..	141	..
	1948	..	38	..	164	..
Typewriters						
Complete						
Not exceeding 22 lb. in weight	1951	57,491	803	25,253	386	27,767
Exceeding 22 lb. in weight	1951	122,514	3,374	50,457	1,752	14,948
Total typewriters, complete	{ 1951	186,900(j) (s)	4,374(j)	75,710	2,138	42,715
	1948	90,000(j) (s)	2,194(j)	25,898	533	24,441
	1937	51,420	606	11,798	141	63,885
Parts	{ 1951	..	235	..	121	..
	1948	..	106	..	30	..
	1937	..	42	..	19	..
Other descriptions						
Duplicators, excluding litho-offset machines						
Complete	1951	49,900(s)	1,665	33,751	1,057	..
Parts	1951	..	395	..	248	..
Addressing, letter opening, coin sorting, counting and wrapping, letter sealing, stamp affixing, postage franking, perforating and cheque writing machines, complete (u)	1951	19,740(s)	1,128	8,478	338	438
Other, complete and parts (t)	1951	..	9,911	..	3,012	..
Total other descriptions	{ 1951	..	13,099	..	4,655	..
	1948	..	8,641	..	2,487	..
Total office machinery	{ 1951	..	23,549(j)	..	10,001	..
	1948	..	12,606(j)	..	3,641	..
	1937	..	2,209	..	701	..
Paint spraying, metal spraying and similar machines, other than insecticide spraying machines	{ 1951	..	1,382	..	416	..
	1948	..	1,206	..	174	..
Portable power tools						
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						
Pneumatic	{ 1951	..	1,031	19,191	372	1,704
	1948	..	782	10,095	203	1,091
Petrol	{ 1951	..	272	458	41	3
	1948	..	171	113	8	-
Of the type employed in civil engineering, mining and quarrying, complete						
Pneumatic	{ 1951	..	1,318	13,412	595	662
	1948	..	898	10,727	453	737
Petrol	{ 1951	2,938	208	1,097	124	13
	1948	..	148	896	78	2

TABLE 11 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	No.	£'000	No.	£'000	No.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Presses						
Tableting and pelleting presses, other than for powder metallurgy	{ 1951 ..	166	..	38	..	..
	{ 1948 ..	198	..	40	..	..
Plastics moulding, other than tableting and pelleting	{ 1951 ..	1,229	..	459	..	..
	{ 1948 ..	1,108	..	303	..	..
Prime movers (v)						
Internal combustion, reciprocating, other than engines for aircraft, road vehicles, locomotives, ships and boats						
Complete						
Compression ignition (diesel and dual fuel)						
Not exceeding 50 b.h.p.	{ 1951 92,638	15,103	65,589	11,971	1,025	187
	{ 1948 37,266	6,729	22,784	3,949		
Over 50 b.h.p., not exceeding 300 b.h.p.	{ 1951 5,141	7,639	4,055	4,037	44	47
	{ 1948 3,530	5,640	2,115	2,388		
Over 300 b.h.p., not exceeding 1,500 b.h.p.	{ 1951 630	5,308	433	2,789	1948	47
	{ 1948 285	1,759	198	1,302		
Over 1,500 b.h.p.	{ 1951 31	977	19	480	1948	47
	{ 1948 5	136	15	317		
Paraffin, petrol and other spirit						
Not exceeding 10 b.h.p.	{ 1951 173,900(s)	3,822	73,310	2,133	168	17
	{ 1948 ..	2,624	32,301	977		
Over 10 b.h.p.	{ 1951 1,877	326	2,739	321	213	12
	{ 1948 1,883	270	1,737	460		
Other (including gas and semi-diesel)	{ 1951 967	245	182	133	23	7
	{ 1948 353	180	542	233		
Parts	{ 1951 ..	5,810	..	6,248	..	610
	{ 1948 ..	4,624	..	2,803		
Total internal combustion, reciprocating	{ 1951 ..	39,284(j)	..	28,113	..	821
	{ 1948 ..	23,484(j)	..	12,429		
	{ 1937 ..	5,238	..	3,005		
Steam reciprocating (other than marine, and winding engines for mining machinery)	{ 1951 ..	862	..	259	..	2
	{ 1948 ..	871(w)	..	303		
	{ 1937 ..	604	..	135		
Turbines, other than marine and gas						
Steam	{ 1951 ..	10,766	..	3,626	..	96
	{ 1948 ..	5,769	..	1,388		
	{ 1937 ..	2,587	..	538(x)		
Other (e.g., water turbines)	{ 1951 ..	1,310	..	992	..	19
	{ 1948 ..	470	..	479		
	{ 1937 ..	133	..	9		
Total prime movers (v)	{ 1951 ..	57,468	..	32,990	..	938
	{ 1948 ..	31,322	..	14,599		
	{ 1937 ..	8,562	..	3,687		
Pulp making and paper and board making machinery, including finishing machinery (y)						
	{ 1951 ..	£'000 6,143	..	2,081	..	283
	{ 1948 ..	3,062	..	1,211		
	{ 1937 ..	1,297	..	596		
Pumps						
Petrol and oil measuring						
Complete	{ 1951 2,718	..	25,117	1,352	138	5
	{ 1948 1,929	..	9,635	791		

TABLE 11 (contd.)

	Production (b) (c)		Exports (d)		Retained imports (e)	
	£'000	No.	£'000	No.	£'000	No.
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Pumps (contd.)						
Petrol and oil measuring (contd.)						
Parts	{ 1951 724	..	264	..	..	..
	{ 1948 658	..	142	..		
Total petrol and oil measuring	{ 1951 3,442	..	1,616	..	..	..
	{ 1948 2,587	..	933	..		
	{ 1937 780	..	75	..		
Hand pumps, other than petrol and oil measuring						
Complete	{ 1951 412	84,022	206	113	2	1
	{ 1948 388	157,225	295	403		
Parts	{ 1951 27	..	23	..	..	..
	{ 1948 23	..	12	..		
Total hand pumps, other than petrol and oil measuring	{ 1951 439	..	229	..	..	..
	{ 1948 411	..	307	..		
	{ 1937 133	..	44	..		
Other kinds						
Complete						
Reciprocating	{ 1951 3,268	7,966	1,754	..	35	4
	{ 1948 3,056	3,561	580	..		
Centrifugal and axial flow	{ 1951 8,950	26,334	2,820	..	108	30
	{ 1948 4,855	19,477	1,822	..		
Turbine	{ 1951 559	241	218	..	..	..
	{ 1948 279	278	171	..		
Rotary	{ 1951 1,982	4,402	372	..	173	7
	{ 1948 1,277	3,601	209	..		
Other	{ 1951 2,912	13,607	1,154	..	..	..
	{ 1948 1,556	12,734	1,490	..		
Total other kinds, complete	{ 1951 17,671	52,550	6,318	..	..	..
	{ 1948 11,023	39,651	4,272	..		
Parts						
Total other kinds, complete and parts	{ 1951 4,017	..	1,613	..	..	..
	{ 1948 2,516	..	971	..		
Total pumps of all descriptions and parts	{ 1951 26,289(j)	..	9,776	..	..	338
	{ 1948 16,989(j)	..	6,483	..		
	{ 1937 4,481	..	1,270	..		
Refrigerating machinery						
Automatic power operated refrigerators						
Complete (including complete mechanical units)						
Of a storage capacity not over 12 cu.ft.	{ 1951 356,800(s)	13,881	162,369	7,197	5,455	201
	{ 1948 181,300(s)	7,991	36,257	1,659		
Of a storage capacity over 12 cu.ft.	{ 1951 ..	4,867	7,216	563	347	38(z)
	{ 1948 ..	4,916	5,452	429		
Parts	{ 1951 ..	2,723	..	4,104	..	..
	{ 1948 ..	1,694	..	789		
Other descriptions						
Total refrigerating machinery	{ 1951 ..	31,179(j)	..	14,000	..	719
	{ 1948 ..	20,157(j)	..	4,091		
	{ 1937 ..	3,968	..	461		

TABLE 11 (contd.)

	Production (b)(c)		Exports (d)		Retained imports (e)	
	Thous.	£'000	Thous.	£'000	Thous.	£'000
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)						
Sewing machines (including machine heads)						
Complete	{ 1951 759.7(s)	7,719	608.4	6,020	12.8	956
	{ 1948 544.2(s)	4,962	475.1	3,915	15.5	989
	{ 1937 266.2	839	149.8	444	24.3	139
Parts, other than needles	{ 1951 ..	1,563	..	1,004	..	678
	{ 1948 ..	1,145	..	854	..	350
	{ 1937 ..	1,831(aa)	..	1,378	..	335
		£'000	£'000	£'000		
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold or consigned separately), not elsewhere specified						
Cold drawing plant for bars and tubes and other tube making machinery, except hydraulic extrusion presses	{ 1951	724	272		28	
	{ 1948	604	101		5	
Rolling mills (hot and cold) other than tube making	{ 1951	4,293	1,674			
	{ 1948	2,393	446	(1951)	500	
Other steel-works and non-ferrous machinery and plant	{ 1951	5,615	467	(1948)	815	
	{ 1948	1,437	533			
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	{ 1951	1,268	278		70	
	{ 1948	945	216		..	
Tobacco processing and cigar and cigarette making machinery	{ 1951	3,895	2,419		80	
	{ 1948	3,914	2,588		111	
	{ 1937	1,224	645		29	
Water meters	1951	1,758	999		..	
Water softeners, water filters and water sterilising equipment	1951	1,552	837		..	
Weighing machines and parts thereof, other than ribbon spools with or without ribbons	{ 1951	5,933	1,514		90	
	{ 1948	4,052(bb)	953		21	
	{ 1937	1,910(bb)	254		54	
Well drilling machinery						
Petroleum	1951	2,304	1,784		..	
Other	1951	300	306		..	

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). 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 1951 and 1948, and production for sale in 1937.

(c) Including production (or sales) by establishments classified to other trades.

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) Inverted tooth type only.

(g) Including steel precision chains other than transmission.

(h) Including rolls of cast steel.

(i) Described in 1937 as 'Grass cutters, other than lawn mowers'.

(j) Including unclassified output (new or reconditioned).

(k) The oversea trade figures include marine plant consigned separately.

(l) Included with 'Other descriptions' of boilers.

(m) Described in 1948 as 'Boot and shoe making and repairing machinery' and in 1937 as 'Boot and shoe making machinery'.

(n) Excluding bottle washing machinery in 1948 and 1937.

(o) Excluding parts.

(p) The figure shown for 'Other metallurgical furnaces' relates to 'Furnace plant of all kinds' including blast furnaces.

(q) Excluding glass-making machinery and plant in 1937.

(r) Described as 'Grain processing machinery and plant' for 1951 and 'Grain machinery and plant' for 1948.

(s) Partly estimated.

(t) Ribbon spools (with or without inked ribbons), sold or consigned separately, for use in all types of office machinery, weighing machines and time recorders, are included in the figures shown for 'Other, complete and parts' office machinery.

(u) The oversea trade figures include machines for the automatic production of typewritten correspondence, other than typewriters.

(v) Owing to the large unclassified output of prime movers and parts (new and reconditioned) recorded, the 1951 and 1948 sales figures for individual classes of engines may be significantly understated. This unclassified output has been included in the total values shown for prime movers.

(w) Excluding pumping engines which are, however, included in the total value shown for prime movers.

(x) Including marine turbines consigned separately.

(y) Described as 'Paper making and board making machines' in 1937.

(z) Described as electrically operated.

(aa) Including some needles.

(bb) Excluding automatic slot machines.

(9598)

Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

TABLE 12

Materials used	Quantity
Iron	Th. tons
Pig iron	354.8
Iron castings in the rough	308.9
Wrought iron in all forms, except finished parts	4.3
Non-alloy steel	
Ingots, billets, blooms and slabs	82.8
Angles, shapes and sections	181.4
Girders, joists, beams and pillars (not fabricated)	58.0
Bars and rods	242.6
Hoop and strip (including tape)	43.7
Tin-, terne- and black-plates and sheets	27.8
Other plates and sheets	
1/8 inch thick and over	461.3
Under 1/8 inch thick	112.9
Tubes and fittings	92.7
Wire (single wire)	8.1
Tyres, wheels and axles (railway and tramway)	3.0
Forgings in the rough, other than drop forgings	33.3
Drop forgings	27.4
Castings in the rough	82.2
Alloy steel (including high-speed steel)	
Ingots, billets, blooms and slabs	15.5
Bars, rods, angles, shapes, sections, girders, joists and pillars (not fabricated)	76.0
Plates, sheets and strip	
1/8 inch thick and over	12.1
Under 1/8 inch thick	6.4
Tubes and fittings	23.0
Wire (single wire)	5.3
Forgings in the rough, other than drop forgings	11.8
Drop forgings	13.9
Castings in the rough	21.6
Non-ferrous metals in all forms (except finished parts)	Th.cwts.
Aluminium and aluminium alloys	768.3
Antimony	3.4
Brass and other copper alloys, including nickel silver but excluding other nickel alloys	1,337.5
Copper	525.1
Lead and alloys of lead	97.6
Tin	35.4
Zinc and alloys of zinc	210.8
Timber (other than reclaimed), including that used for packing case manufacture but excluding joinery, other fabricated woodwork and purchased packing cases	Th.cu.ft.
Hardwood	2,609.6
Softwood	6,722.3

(9598)

TABLE 13
Employment in September
Larger establishments (a)
(i) Operatives
Number

	United Kingdom			Great Britain		United Kingdom	
	1951(b)	1950(b)	1949(b)	1949(b)	1948(c)	1937(c)	1935(c)
Males							
Under 18	20,191	18,551	18,767	18,460	19,490	36,173	25,210
All ages	368,243	348,416	336,963	333,917	320,444	249,262	201,630
Females							
Under 18	2,139	1,661	1,825	1,819	1,907	4,747	3,884
All ages	46,556	40,747	37,562	37,461	37,935	17,904	14,792
Total							
Under 18	22,330	20,212	20,592	20,279	21,397	40,920	29,094
All ages	414,799	389,163	374,525	371,378	358,379	267,166	216,422

(ii) Administrative, technical and clerical employees (d)
Number

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Males							
Under 18	3,033	2,800	2,994	2,953	2,836	4,453	2,884
All ages	85,416	79,232	74,419	73,891	67,821	41,941	35,978
Females							
Under 18	6,775	5,888	5,542	5,513	5,289	3,837	2,323
All ages	40,539	36,850	35,091	34,897	33,264	15,274	12,707
Total							
Under 18	9,808	8,688	8,536	8,466	8,125	8,290	5,207
All ages	125,955(e)	116,082(e)	109,510(e)	108,788(e)	101,085(e)	57,215	48,685

(iii) Total employees
Number

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Males							
Under 18	23,224	21,351	21,761	21,413	22,326	40,626	28,094
All ages	453,659	427,648	411,382	407,808	388,265	291,203	237,608
Females							
Under 18	8,914	7,549	7,367	7,332	7,196	8,584	6,207
All ages	87,095	77,597	72,653	72,358	71,199	33,178	27,499
Total							
Under 18	32,138	28,900	29,128	28,745	29,522	49,210	34,301
All ages	540,754(e)	505,245(e)	484,035(e)	480,166(e)	459,464(e)	324,381	265,107

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers):-

Canteen workers 413 Males 5,055 Females
Other workers 3,745 Males 1,529 Females

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(c) Average for the year.

(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

(e) Working proprietors. In addition working proprietors, shown in Table 13(iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working proprietors
Number

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
Males	340	415	435	370	340
Females	9	18	23	19	14
Total	349	433	458	389	354

Average employment
Larger establishments (a)

TABLE 14

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Operatives	413,783(b)	386,276	375,305	372,193	358,379(b)	267,166	216,422
Administrative, technical and clerical employees	124,345	114,730	108,314	107,594	101,085(c)	57,215(c)	48,685(c)
Total	538,128	501,006	483,619	479,787	459,464	324,381	265,107

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

(b) Including 23,720 operatives in 1951 and 17,032 in 1948 in Great Britain engaged on outside work of erection, fitting, etc. Similar information is not available for other years.

(c) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Males	29	23	18	18	12	..	..
Females	81	60	50	50	47	..	..
Total	110	83	68	68	59	..	..

Shift working, 1951 (a)
Larger establishments in Great Britain

TABLE 15

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift	7,641	62,883	28
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	460,157	4,529,969	215
Other shift systems	71,545	694,663	36
Total	539,342	5,287,514	(b)

(a) Shift working during week ended September 22, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Returns		Operatives		
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work
Number	..	263	..	182,214	106,942
Percentage of total in trade	100.0	10.0(c)	100.0	44.0(c)	26.0(c)
Percentage of total on returns showing shift-work				100.0	58.7

(c) Rounded to avoid disclosure.

Wages and salaries and employers' National Insurance contributions paid during the year

Larger establishments

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
Wages and salaries (a) of					
Operatives	156,852	134,272	124,330	123,416	113,473
Administrative, technical and clerical employees	60,283	51,983	46,987	46,711	41,647
Total	219,135	186,255	171,317	170,127	155,120
Employers' contributions to all National Insurance Schemes	5,429	4,966	4,829	4,791	3,747

(a) Including bonus and commission payments, but excluding payments to outworkers shown below.

United Kingdom			Great Britain	
1951	1950	1949	1949	1948
10	8	6	6	6

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

Larger establishments

	United Kingdom		Great Britain	
	1951	1949	1949	1948
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	20,761	11,270	10,988	11,323
Second-hand	1,855	1,961	1,945	1,813
Vehicles				
New	2,014	1,212	1,204	965
Second-hand	768	381	378	353
Total acquisitions	25,399	14,824	14,515	14,454
Disposals				
Plant and machinery	1,751	826	824	1,507
Vehicles	542	333	332	222
Total disposals	2,293	1,159	1,156	1,729
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	6,579	3,985	3,947	3,793

1951

Summary

Larger establishments

TABLE 18

	England (a)	Wales	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	623,780	11,967	104,058	..	..	739,805
Cost of materials and fuel used	291,662	5,949	47,359	..	..	344,970
Payment for work done on materials given out	14,788	166	1,118	..	..	16,073
Transport payments	7,461	171	1,620	..	..	9,252
Net output	309,868	5,681	53,960	..	..	369,509
Wages and salaries of persons employed	183,982	3,524	31,629	..	..	219,135
	No.	No.	No.	No.	No.	No.
Average number of persons employed (b)	449,945	8,775	79,757	..	..	538,477
	£	£	£	£	£	£
Net output per person employed (b)	689	647	677	..	..	686
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	162,724	2,352	29,042	..	..	194,118
Materials and fuel	79,287	1,766	12,079	..	..	93,133
	No.	No.	No.	No.	No.	No.
Number of establishments	2,663	52	240	..	..	2,955

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

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade						
Total value of sales (see Table 20)	598,106	11,153	100,681	..	..	709,940
Changes in stocks and work in progress (see Table 21)	+ 25,674	+ 813	+ 3,377	..	..	+ 29,865
Gross output (production)	623,780	11,967	104,058	..	..	739,805
Materials and fuel used by firms in this trade						
Purchases	313,417	6,384	50,482	..	..	370,284
Changes in stocks (see Table 21)	- 21,755	- 435	- 3,123	..	..	- 25,314
Materials and fuel used	291,662	5,949	47,359	..	..	344,970

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland, where net output was less than 1 per cent. of that of the United Kingdom, cannot be given separately and have been included with those for England.

(b) Excluding outworkers but including working proprietors.

Summary

Small firms in Great Britain (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	2,162	52	120	2,334
Average number of persons employed (b)				
Males	11,471	294	689	12,454
Females	1,766	27	80	1,873
Total	13,237	321	769	14,327

(a) Small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns.

(b) Including working proprietors.

Sales in the trade: Larger establishments

TABLE 20

Kind of output (i) Complete machines, etc. (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000		£'000		£'000		£'000
Principal products										
PARTS OF MACHINERY, SOLD SEPARATELY										
Bearings and parts thereof										
Ball bearings	..	1,640(a)	..	2	..	..	..	(a)	..	1,642
Roller bearings	..	(b)	..	(b)	..	..	..	(b)	..	6,339
Unclassified ball and roller bearings	..	14,226	-	-	..	14,226	-	-	..	14,226
Other bearings (e.g., plain) and bushes	..	(b)	..	(b)	..	..	..	(b)	..	7,251
Burners										
Oil fuel burning equipment	..	(b)	..	(b)	..	1,582	-	-	..	1,582
Other	..	76	..	2	..	79	-	-	..	79
Chains										
Steel transmission										
Roller type										
Up to and including 0.625 in. pitch										
Not over 0.2 in. width between plates	..	1,453	-	-	..	1,453	-	-	..	1,453
Over 0.2 in. width between plates	..	1,652	-	-	..	1,652	-	-	..	1,652
Over 0.625 in. pitch										
Other than roller type	..	(b)	..	(b)	..	2,493	-	-	..	2,493
Precision chains, other than transmission chains										
Gears and gear wheels										
For vehicles	..	(b)	..	(b)	..	985	-	-	..	985
Other than for vehicles	..	5,730(a)	..	118	..	..	..	(a)	..	5,848
Unclassified	..	665	..	135	..	800	-	-	..	800
Lubricators and parts (other than of railway wagon, etc. axle boxes), not elsewhere specified (c)	..	538	-	-	..	538	-	-	..	538
Pulleys and pulley wheels	..	(b)	..	(b)	..	..	..	(b)	..	1,103
Rolls of iron or steel										
For metal rolling mills	Tons	(b)	Tons	(b)	Tons	40,944	3,163	-	Tons	40,944
For machinery, other than metal-working										
Cast iron	..	(b)	..	(b)	..	..	..	(b)	4,171	472
Other	..	(b)	..	(b)	..	246	29	-	..	246
Valves, other than for motor vehicles, and cocks (excluding domestic cocks and taps of brass or other copper alloys)										
Industrial valves (c)	19,592	6,440	11,271	2,485	30,863	8,925	-	-	30,863	8,925
	..	10,005	..	855	..	10,860	-	-	..	10,860

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS COUNTRY TABLES

Other	..	(b)	..	(b)	..	..	..	(b)	..	1,094
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE										
Agricultural machinery, other than tractors	No.		No.		No.				No.	
Cultivators and grubbers	{ (i) 29,589	2,654	1,487	39	31,076	2,693	-	-	{ 31,076	2,693
	{ (ii) ..	4	..	1	..	6	-	-	{ ..	6
	..	450	..	11	..	461	-	-	..	461
Insecticide and similar spraying machines	(i) and (ii)	(b)	..	(b)	..	..	..	(b)	..	1,155
Reapers and binders	{ (i) ..	(b)	..	(b)	1,645	313	-	-	{ 1,645	313
	{ (ii) ..	297	..	11	..	308	-	-	{ ..	308
Hay and corn elevators	{ (i) ..	(b)	..	(b)	4,453	430	-	-	{ 4,453	430
	{ (ii) ..	51	..	-	..	51	-	-	{ ..	51
Grain and grass driers	{ (i) 580	491	-	-	580	491	-	-	{ 580	491
	{ (ii) ..	47	..	-	..	47	-	-	{ ..	47
	..	77	..	-	..	77	-	-	..	77
Sheep shearers and clipping machines	{ (i) 32,960	245	-	-	32,960	245	-	-	{ 32,960	245
	{ (ii) ..	197	..	-	..	197	-	-	{ ..	197
Other agricultural machinery, including ploughs, disc harrows, planters, drills and seeders, hay and grass mowers, threshers, milking machines, combine harvesters and potato and sugar beet lifters	{ (i) ..	12,858(a)	..	6,466	..	..	..	(a)	..	19,324
	{ (ii) ..	5,087(a)	..	369	..	..	..	(a)	..	5,457
Unclassified agricultural machinery	{ (i) ..	800	-	-	..	800	-	-	{ ..	800
	{ (ii) ..	1,867	..	-	..	1,867	-	-	{ ..	1,867
Air and gas compressors and exhausters and other pneumatic appliances										
Air compressors and exhausters, other than compressors supplied with paint spraying equipment										
Stationary										
Reciprocating										
Under 200 cu. ft.	{ (i) 24,001	1,895	161	181	24,162	2,076	-	-	{ 24,162	2,076
	{ (ii) ..	19	..	44	..	62	-	-	{ ..	62
	..	279	..	36	..	315	-	-	..	315
200 cu. ft. and over	{ (i) 669	752	147	347	816	1,099	-	-	{ 816	1,099
	{ (ii) ..	215	..	131	..	131	-	-	{ ..	131
	..	..	..	114	..	328	-	-	..	328
Rotary	{ (i) ..	(b)	..	(b)	14,662	626	-	-	{ 14,662	626
	{ (ii) ..	(b)	..	(b)	..	..	..	(b)	..	112
Turbo-types	{ (i) 30	363	-	-	30	363	-	-	{ 30	363
	{ (ii) ..	118	..	-	..	118	-	-	{ ..	118
Portable	(i) and (ii)	(b)	..	(b)	..	3,273	-	-	..	3,273
Other pneumatic appliances, not elsewhere specified, including gas compressors and exhausters										
Complete	..	1,185(a)	..	25	..	..	..	(a)	..	1,210
Parts	..	589	..	2	..	591	-	-	..	591
Unclassified	..	148	-	-	..	148	-	-	..	148

MECHANICAL ENGINEERING (GENERAL) COUNTRY TABLES

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TABLE 20 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000	No.	£'000	No.	£'000
Principal products (contd.)										
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)										
Air conditioning, heating and ventilating plant and appliances (including waste, dust, fumes, heated air, steam or vapour collecting and extracting, but excluding gas appliances)										
Air, water and steam radiators, other than of cast iron or those for use with gas or electricity (i) and (ii)	..	(b)	..	(b)	..	..	..	(b)	..	283
Ventilators, hoods, cowls and pipes	..	2,156(a)	..	90	..	..	..	(a)	..	2,246
Heating plant and appliances, not of cast iron, not elsewhere specified	{ (i) ..	652(a)	..	110	..	..	..	(a)	..	762
	{ (ii) ..	(b)	..	(b)	..	299	..	-	..	299
Plenum systems	{ (i) ..	2,819(a)	..	2,164	..	..	..	(a)	..	4,983
	{ (ii) ..	(b)	..	(b)	..	..	..	(b)	..	518
Sectional boilers, other than for steam	{ (i) ..	(b)	..	(b)	..	..	..	(b)	2,808	266
	{ (ii) ..	68	-	-	..	68	-	-	..	23
										68
Unit heaters and other descriptions of air conditioning and ventilating plant and appliances (not of cast iron)	{ (i) ..	4,143(a)	..	34	..	..	..	(a)	..	4,178
	{ (ii) ..	444	..	2	..	446	-	-	..	446
Boilers and boiler-house plant (other than boilers for ships and locomotives, and burners and furnaces)										
Boilers										
Economic types	{ (i) ..	1,328	..	445	..	1,773	-	-	..	1,773
	{ (ii) ..	(b)	..	(b)	..	135	-	-	..	135
Water tube	{ (i) ..	(b)	..	(b)	..	8,857	-	-	..	8,857
	{ (ii) ..	(b)	..	(b)	..	1,134	-	-	..	1,134
Other boilers, including sectional boilers for steam, locomotive type boilers for stationary purposes, Lancashire and Cornish types and vertical types	{ (i) ..	2,054(a)	..	664	..	..	..	(a)	..	2,718
	{ (ii) ..	327	..	98	..	425	-	-	..	425
Unclassified	(ii) ..	51	-	-	..	51	-	-	..	51
Boiler-house plant sold separately										
Fuel economisers, feed water heaters and steam super-heaters (i) and (ii)	..	(b)	..	(b)	..	..	..	(b)	..	5,123

Boiler firing plant										
Mechanical stokers	{ (i) ..	(b)	..	(b)	..	1,933	-	-	..	1,933
	{ (ii) ..	(b)	..	(b)	..	1,081	-	-	..	1,081
Other boiler firing plant (i) and (ii)	..	(b)	..	(b)	..	941	-	-	..	941
Other boiler-house plant, not elsewhere specified	{ (i) ..	2,013(a)	..	4,291	..	..	..	(a)	..	6,305
	{ (ii) ..	(b)	..	(b)	..	..	..	(b)	..	1,601
Bottle washing machinery	{ (i) ..	(b)	..	(b)	..	2,014	-	-	..	2,014
	{ (ii) ..	(b)	..	(b)	..	311	-	-	..	311
Boot and shoe making and repairing machinery, other than sewing machines	{ (i) ..	(b)	..	(b)	..	1,103	-	-	..	1,103
	{ (ii) ..	1,040	-	-	..	1,040	-	-	..	1,040
Bottling, packing, canning, packeting and labelling machinery										
Bottling and capping	{ (i) ..	(b)	..	(b)	..	2,015	-	-	..	2,015
	{ (ii) ..	401	..	5	..	406	-	-	..	406
Canning	{ (i) ..	(b)	..	(b)	..	318	-	-	..	318
	{ (ii) ..	(b)	..	(b)	..	55	-	-	..	55
Filling and closing machinery for solids and semi-solids (i) and (ii)	..	(b)	..	(b)	..	629	-	-	..	629
Labelling (i) and (ii)	..	(b)	..	(b)	..	875	-	-	..	875
Packing and wrapping	{ (i) ..	(b)	..	(b)	..	3,097	-	-	..	3,097
	{ (ii) ..	(b)	..	-	..	..	..	(b)	..	504
Brick, tile and cement block making machinery, other than kilns	{ (i) ..	(b)	..	(b)	..	..	..	(b)	..	856
	{ (ii) ..	828(a)	..	39	..	..	..	(a)	..	867
Cable making machinery (i) and (ii)	..	656	-	-	..	656	-	-	..	656
Centrifuges, other than cream separators and hydro-extractors for use in laundries (i) and (ii)	..	(b)	..	(b)	..	2,204	-	-	..	2,204
Chemical and gas making machinery and plant, not elsewhere specified										
Paint, varnish and ink making	{ (i) ..	451	..	9	..	460	-	-	..	460
	{ (ii) ..	150	..	1	..	151	-	-	..	151
Mineral oil refining (i) and (ii)	..	712	..	362	..	1,074	-	-	..	1,074
Oil (other than mineral) extraction and refining	{ (i) ..	(b)	..	(b)	..	843	-	-	..	843
	{ (ii) ..	701	-	-	..	701	-	-	..	701
Gas producers (i) and (ii)	..	2,047	-	-	..	2,047	-	-	..	2,047
Other, including by-products plant for use at gas works, water gas plant and soap and fatty acid making machinery	{ (i) ..	9,101	..	496	..	9,597	-	-	..	9,597
	{ (ii) ..	3,244	..	112	..	3,356	-	-	..	3,356
Unclassified										
Complete	..	257	-	-	..	257	-	-	..	257
Parts	..	127	-	-	..	127	-	-	..	127
Unclassified	..	287	-	-	..	287	-	-	..	287
Civil engineering and contracting machinery and plant, new										
Excavators, trenchers, ditchers and similar digging machinery, other than cableway dragline excavators and rope-hauled drag scrapers	{ (i) 2,009	7,265	-	-	2,009	7,265	-	-	2,009	7,265
	{ (ii) ..	3,341	..	5	..	3,346	-	-	..	3,346

TABLE 20 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000	No.	£'000	No.	£'000
Principal products (contd.)										
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)										
Civil engineering and contracting machinery and plant, new (contd.)										
Concrete mixing, placing and finishing etc. machinery (i) and (ii)	..	(b)	..	(b)	..	3,393	-	-	..	3,393
Tar, bitumen and asphalt plant, with or without mixing gear (i) and (ii)	..	934	..	3	..	937	-	-	..	937
Earth-moving, earth-levelling and land-clearing machinery										
Angledozer, bulldozers, calf- dozers and muledozers (i.e., equipment without tractors) (i) and (ii)	..	1,156	..	6	..	1,162	-	-	..	1,162
Graders, levellers, scrapers (other than rope-hauled drag-scrappers), loaders and loading shovels	{ (i) (ii)	2,085 421	-	-	2,085 ..	2,383 422	-	-	2,085 ..	2,383 422
Other (i) and (ii)	..	(b)	..	(b)	..	3,473	-	-	..	3,473
Other civil engineering and contracting plant, not else- where specified										
{ (i) (ii)	..	(b) (b)	..	(b) (b)	..	1,209 372	-	-	..	1,209 372
Civil engineering and contracting machinery and plant, reconditioned										
{ (i) (ii)	..	(b) (b)	..	(b) (b)	..	1,096 ..	-	(b)	..	1,096 38
Condensers, steam other than marine										
For steam turbines	{ (i) (ii)	(b) (b)	..	(b) (b)	95 ..	1,615 204	-	-	95 ..	1,615 204
Other	{ (i) (ii)	(b) 68	..	(b) -	55 ..	45 13 68	-	-	55 ..	45 13 68
Crushing, washing and screening machinery for quarry products										
{ (i) (ii)	..	(b) (b)	..	(b) (b)	..	2,382 1,360	-	-	..	2,382 1,360
Drying machinery, not elsewhere specified										
{ (i) (ii)	..	1,351(a) (b)	..	27 (b)	..	.. 197	-	(a)	..	1,378 197
Electric lamp and radio valve making machinery, not elsewhere specified										
{ (i) (ii)	..	163 79	-	-	..	163 79	-	-	..	163 79
Food and drink preparation, processing and sterilising machinery, not elsewhere specified										
Bakery and biscuit ovens (i) and (ii)	..	(b)	..	(b)	..	..	..	(b)	..	1,857
Bakery, biscuit and flour confectionery machinery	{ (i) (ii)	3,817 580(a)	..	405 92	..	4,222 ..	-	(a)	..	4,222 673
Cocoa preparation, chocolate and sugar confectionery making machinery										
{ (i) (ii)	..	1,063(a) (b)	..	113 (b) 201	-	(a)	..	1,176 201

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Dairy machinery and plant, other than milking machines	{ (i) (ii)	.. (b)	2,483(a)	..	44 (b)	..	289	..	(a)	..	2,526 289
Sugar making and refining machinery other than centrifuges											
(i) and (ii)	..	639	..	2,149	..	2,788	-	-	..	2,788	
Mineral water making machinery and plant											
{ (i) (ii)	..	(b) (b)	..	(b) (b)	..	649 187	-	-	..	649 187	
Brewing and distilling machinery and plant											
{ (i) (ii)	..	(b) 386	..	(b) 34	..	1,877 420	-	-	..	1,877 420	
Other machinery for the prepara- tion, processing and sterilising of food and drink											
{ (i) (ii)	..	5,106 894	..	216 136	..	5,322 1,030	-	-	..	5,322 1,030	
Founding and diecasting machinery											
{ (i) (ii)	..	(b) (b)	..	(b) (b)	..	1,300 319	-	-	..	1,300 319	
Furnaces and kilns											
Blast furnaces (i) and (ii)											
..	..	1,580	-	-	..	1,580	-	-	..	1,580	
Other metallurgical furnaces											
Gas (i) and (ii)											
..	..	1,438	-	-	..	1,438	-	-	..	1,438	
Electric											
{ (i) (ii)	1,862	1,973 349	-	-	1,862	1,973 349	-	-	1,862	1,973 349	
Other descriptions, including oil furnaces											
{ (i) (ii)	..	(b) 173	..	(b) -	1,280 ..	859 51 173	-	-	1,280 ..	859 51 173	
Other furnaces and kilns, including boiler furnaces											
{ (i) (ii)	..	(b) 150	..	(b) 3	650 ..	300 811 153	-	-	650 ..	300 811 153	
Gas appliances, other than meters, pipes and fittings											
{ (i) (ii)	220,013	2,051 428 354	60	1 2	220,073	2,052 430 354	-	-	220,073	2,052 430 354	
Gas meters											
Domestic											
{ (i) (ii)	883,283	5,146(a) (b)	124,621	703 (b)	..	.. 1,462	..	(a)	1,007,904	5,848 1,462
Other (i) and (ii)											
..	..	604	..	24	..	628	-	-	..	628	
Glass making and glass working machinery and plant, other than furnaces											
{ (i) (ii)	..	438(a) 487	..	5 42	..	.. 529	..	(a)	..	443 529
Grain processing machinery and plant											
{ (i) (ii)	..	(b) (b)	..	(b) (b)	..	3,374 779	-	-	..	3,374 779	
Laundering and dry cleaning machinery, including hydro- extractors and other drying machinery used in laundries, but excluding machinery for textile finishing											
Washing machines, other than dry cleaning washers											
Electrically driven (other than for domestic use)											
{ (i) (ii)	..	(b) (b)	..	(b) (b)	1,029 ..	521 65 79	-	-	1,029 ..	521 65 79	
Other than electrically driven											
{ (i) (ii)	..	(b) (b)	..	(b) (b)	10,403 ..	312 34	-	-	10,403 ..	312 34	

MECHANICAL ENGINEERING (GENERAL) COUNTRY TABLES

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(9598)

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TABLE 20 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000	No.	£'000	No.	£'000
Principal products (contd.)										
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)										
Laundering and dry cleaning machinery, including hydro-extractors and other drying machinery used in laundries, but excluding machinery for textile finishing (contd.)										
Dry cleaning washers	{ (i) ..	(b)	..	(b)	196	215	-	-	196	215
	{ (ii) ..	(b)	..	(b)	..	10	-	-	..	10
Wringers and mangles for domestic use	{ (i) ..	(b)	..	(b)	..	..	..	(b)	742,206	2,800
	{ (ii) ..	(b)	..	(b)	..	66	-	-	..	66
Steam presses	(i) and (ii) ..	(b)	..	(b)	..	663	-	-	..	663
Other drying machines	(i) and (ii) ..	(b)	..	(b)	..	642	-	-	..	642
Ironing machines	(i) ..	(b)	..	(b)	{ 8,139	526	-	-	{ 8,139	526
					..	96			..	96
Other laundering and dry cleaning machinery, including parts of ironing machines	{ (i) ..	390	..	14	..	404	-	-	..	404
	{ (ii) ..	(b)	..	(b)	..	144	-	-	..	144
Lawn mowers										
Hand driven	{ (i) ..	(b)	..	(b)	663,038	1,750	-	-	663,038	1,750
	{ (ii) ..	(b)	..	(b)	..	172	-	-	..	172
Animal and mechanically driven	{ (i) ..	(b)	..	(b)	50,248	1,773	-	-	50,248	1,773
	{ (ii) ..	(b)	..	(b)	..	399	-	-	..	399
Machine tools, wood-working, new, other than portable power tools										
Sawing	{ (i) ..	(b)	..	(b)	{ 6,186	1,212	-	-	{ 6,186	1,212
	{ (ii) ..	(b)	..	(b)	..	223	-	-	..	223
					..	183	-	-	..	183
Planing and moulding	{ (i) ..	(b)	..	(b)	{ 3,943	1,170	-	-	{ 3,943	1,170
	{ (ii) ..	(b)	..	(b)	..	48	-	-	..	48
					..	159	-	-	..	159
Other wood-working machine tools, including mortising and tenoning and veneer and plywood machines	{ (i) ..	(b)	..	(b)	..	..	..	(b)	5,928	1,535
	{ (ii) ..	(b)	..	(b)	..	289	-	-	..	341
					..	105	-	-	..	289
					{ 565	101	-	-	{ 565	105
					..	10	-	-	..	101
					..	10	-	-	..	10
Machine tools, wood-working, reconditioned										
Cutting tools for use on wood- working machines, except saws and saw blades	..	125	-	-	..	125	-	-	..	125
Mechanical power transmission plant, not elsewhere specified	{ (i) ..	(b)	..	(b)	..	3,663	-	-	..	3,663
	{ (ii) ..	(b)	..	(b)	..	..	..	(b)	..	955

Mining machinery, other than portable power tools										
Coal cutters	(i) and (ii) ..	(b)	..	(b)	..	2,326	-	-	..	2,326
Conveyors, underground	(i) and (ii) ..	(b)	..	(b)	..	6,476	-	-	..	6,476
Winding	(i) and (ii) ..	(b)	..	(b)	..	1,522	-	-	..	1,522
Other mining machinery, including power loaders and hauling engines (stationary)	{ (i) ..	3,811	..	556	..	4,368	-	-	..	4,368
	{ (ii) ..	1,605	..	499	..	2,103	-	-	..	2,103
Unclassified	{ (i) ..	23	-	-	..	23	-	-	..	23
	{ (ii) ..	6	-	-	..	6	-	-	..	6
Office machinery										
Adding and listing machines	(i) and (ii) ..	(b)	..	(b)	..	983	-	-	..	983
Other calculating machines	(i) ..	(b)	..	(b)	35,087	1,313	-	-	35,087	1,313
Accounting, book-keeping, billing or posting machines or any combination thereof (not being machines operated in conjunction with punched cards), including typewriters incorporated therein and other calculating machine parts	{ (i) ..	(b)	..	(b)	6,776	3,300	-	-	6,776	3,300
	{ (ii) ..	(b)	..	(b)	..	219	-	-	..	219
Typewriters, new and reconditioned	{ (i) ..	(b)	..	(b)	{ 183,487	4,273	-	-	{ 183,487	4,273
	{ (ii) ..	(b)	..	(b)	..	56	-	-	..	56
					..	212	-	-	..	212
Other office machinery										
Complete	..	(b)	..	(b)	..	..	..	(b)	..	10,064
Parts	..	(b)	..	(b)	..	..	..	(b)	..	2,418
Unclassified	..	394	-	-	..	394	-	-	..	394
Paint spraying, metal spraying and similar machines, other than insecticide spraying machines										
	{ (i) ..	(b)	..	(b)	..	..	..	(b)	..	1,059
	{ (ii) ..	(b)	..	(b)	..	268	-	-	..	268
Plantation machinery	(i) and (ii) ..	(b)	..	(b)	..	..	..	(b)	..	1,092
Plastics working machinery, other than presses	(i) and (ii) ..	(b)	..	(b)	..	589	-	-	..	589
Portable power tools										
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	{ (i) ..	(b)	..	(b)	{ 52,916	877	-	-	{ 52,916	877
	{ (ii) ..	(b)	..	(b)	..	368	-	-	..	368
					..	599	-	-	..	599
Of the type employed in civil engineering, mining and quarrying	(i) and (ii) ..	(b)	..	(b)	..	2,601	-	-	..	2,601
Detachable tools (drilling bits, etc.) used in rock drilling machinery (c)										
	..	(b)	..	(b)	{ 129	218	-	-	{ 129	218
					..	835	-	-	..	835
Pottery and other ceramic making machinery, other than furnaces and kilns										
	(i) and (ii) ..	(b)	..	(b)	..	559	-	-	..	559
Presses, not elsewhere specified										
Tableting and pelleting presses, other than for powder metallurgy	{ (i) 148	78	-	-	148	78	-	-	148	78
	{ (ii) ..	84	-	-	..	84	-	-	..	84

TABLE 20 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Principal products (contd.)	No.	£'000	No.	£'000	No.	£'000		£'000	No.	£'000	
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)											
Presses, not elsewhere specified (contd.)											
Plastics moulding, other than tableting and pelleting	{ (i) { 1,255	943	-	-	{ 1,255	943	-	-	{ 1,255	943	
	{ (ii) { ..	7	-	-	{ ..	7	-	-	{ ..	7	
	{ (ii) { ..	234	-	-	{ ..	234	-	-	{ ..	234	
Baling presses	{ (i) { 492	218	-	-	{ 492	218	-	-	{ 492	218	
	{ (ii) { ..	36	-	-	{ ..	36	-	-	{ ..	36	
	{ (ii) { ..	45	-	-	{ ..	45	-	-	{ ..	45	
Prime movers											
Internal combustion, other than engines for aircraft, road vehicles, locomotives, ships and boats											
Reciprocating, new											
Compression ignition (diesel and dual fuel)											
Not exceeding 50 b.h.p.	{ (i) { 81,567	13,748	{ 1,206	B.h.p.	241	{ 82,773	13,989	-	-	{ 82,773	13,989
	{ (i) { 1,014,952										
	{ (ii) { 3,553	341	-	-	-	{ 3,553	341	-	-	{ 3,553	341
	{ (ii) { ..	2,159	-	-	10	{ ..	2,169	-	-	{ ..	2,169
Over 50 b.h.p., not exceeding 300 b.h.p.	{ (i) { ..	(b)	-	-	(b)	{ 4,664	6,952	-	-	{ 4,664	6,952
	{ (ii) { ..	(b)	-	-	(b)	{ 462,684	1,363	-	-	{ 462,684	1,363
Over 300 b.h.p.	{ (i) { 492	4,630	-	-	{ 492	4,630	-	-	{ 492	4,630	
	{ (ii) { E.h.p.										{ (ii) { E.h.p.
	{ (ii) { 313,640	979	-	-	{ 313,640	979	-	-	{ 313,640	979	
	{ (ii) { ..	979	-	-	{ ..	979	-	-	{ ..	979	
Paraffin, petrol and other spirit	{ (i) { No.	2,641	-	-	{ No.	2,641	-	-	{ No.	2,641	
	{ (i) { E.h.p.										{ (i) { E.h.p.
	{ (ii) { 273,524	120	-	-	{ 273,524	120	-	-	{ 273,524	120	
	{ (ii) { No.	623	-	-	{ No.	623	-	-	{ No.	623	
	{ (ii) { 2,929	623	-	-	{ 2,929	623	-	-	{ 2,929	623	
	{ (ii) { ..	623	-	-	{ ..	623	-	-	{ ..	623	
Other reciprocating (including gas and semi-diesel); gas turbines; and reconditioned reciprocating internal combustion engines	(i) and (ii)	943	-	-	..	943	-	-	..	943	

Kind of output (i) Complete machines, etc. (ii) Parts	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
											No. of sets
Steam reciprocating (other than marine, and winding engines for mining machinery)	{ (i) { ..	(b)	..	..	(b)	{ 245	453	-	-	{ 245	453
	{ (ii) { ..										
	{ (ii) { ..	(b)	(b)	{ ..	244	-	-	{ ..	244
Turbines, other than marine and gas	{ (i) { 191	3,597	{ 66	H.p.	283	{ 257	3,879	-	-	{ 257	3,879
	{ (i) { 1,347,948										
	{ (ii) { 41	5	2	15	(b)	{ 43	20	-	-	{ 43	20
	{ (ii) { ..	(b)	..	..	(b)	{ ..	1,184	-	-	{ ..	1,184
Other and unclassified	(ii)	735	..	2	..	736	-	-	-	..	736
Pulp making and paper and board making machinery, including finishing machinery	{ (i) { ..	2,494(a)	..	517	..	..	..	..	(a)	..	3,011
	{ (ii) { ..	2,586	..	212	..	2,798	..	..	..	..	2,798
Pumps											
Petrol and oil measuring	(i) and (ii)	(b)	..	(b)	..	3,260	-	-	-	..	3,260
Hand pumps, other than petrol and oil measuring	{ (i) { 93,609	349	1,310	8	94,919	357	-	-	-	94,919	357
	{ (ii) { ..	19	-	-	..	19	-	-	-	..	19
	{ (ii) { ..	25	-	-	..	25	-	-	-	..	25
Other kinds											
Reciprocating	{ (i) { 12,729	1,404	6,130	1,478	{ 18,859	2,882	-	-	-	{ 18,859	2,882
	{ (ii) { ..	64	..	478	{ ..	64	-	-	-	{ ..	64
	{ (ii) { ..	430	..	..	{ ..	908	-	-	-	{ ..	908
Centrifugal and axial flow	{ (i) { ..	(b)	..	(b)	{ 83,087	8,430	-	-	-	{ 83,087	8,430
	{ (ii) { ..	(b)	..	(b)	{ ..	45	-	-	-	{ ..	45
	{ (ii) { ..	(b)	..	(b)	{ ..	1,805	-	-	-	{ ..	1,805
Rotary	{ (i) { ..	(b)	..	(b)	{ 24,922	1,685	-	-	-	{ 24,922	1,685
	{ (ii) { ..	(b)	..	(b)	{ ..	11	-	-	-	{ ..	11
	{ (ii) { ..	(b)	..	(b)	{ ..	216	-	-	-	{ ..	216
Turbine	(i) and (ii)	744	-	-	..	744	-	-	-	..	744
Other	{ (i) { 53,148	2,452(a)	56	48	..	..	..	(a)	..	53,204	2,499
	{ (ii) { ..	153	..	26	..	..	..	(a)	..	..	153
	{ (ii) { ..	639(a)	..	..	..	..	..	..	..	..	665
Pumps, unclassified	{ (i) { ..	135	-	-	..	135	-	-	-	..	135
	{ (ii) { ..	312	-	-	..	312	-	-	-	..	312
Refrigerating machinery											
Automatic power operated refrigerators											
Of a storage capacity not over 12 cu.ft.	(i) and (ii)	(b)	..	(b)	..	13,273	-	-	-	..	13,273
Of a storage capacity over 12 cu.ft.	(i) and (ii)	5,103	..	437	..	5,540	-	-	-	..	5,540
Automatic heat operated refrigerators and non-automatic and unclassified refrigerating machinery											
	{ (i) { ..	(b)	..	(b)	..	7,915	-	-	-	..	7,915
	{ (ii) { ..	1,065	..	165	..	1,230	-	-	-	..	1,230

TABLE 20 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000		£'000	No.	£'000	No.	£'000	No.	£'000
Principal products (contd.)										
MACHINERY AND PARTS THEREOF, NOT SPECIFIED ABOVE (contd.)										
Refuse and sewage disposal machinery	{ (i) .. (ii) ..	1,053 124	-	-	..	1,053 124	-	-	..	1,053 124
Rubber working machinery	{ (i) .. (ii) ..	1,822 385	..	2 5	..	1,824 389	-	-	..	1,824 389
Sewing machines (including machine heads) and parts thereof, other than needles										
New	Thous.				Thous.				Thous.	
Industrial (i) and (ii)	..	(b)	..	(b)	..	3,266	-	-	..	3,266
Domestic	{ (i) .. (ii) ..	(b) (b)	..	(b) (b)	617.7	5,332 555	-	-	617.7	5,332 555
Reconditioned	{ (i) .. (ii) ..	0.9 64 38 16	-	-	0.9	64 38 16	-	-	0.9	64 38 16
Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified										
Cold drawing plant for tubes and other tube making machinery, except hydraulic extrusion presses	{ (i) .. (ii) ..	424 (b)	-	-	..	424 189	-	-	..	424 189
Rolling mills (hot and cold), other than tube making (i) and (ii)	..	3,722	..	469	..	4,191	-	-	..	4,191
Other steel-works and non-ferrous machinery and plant	{ (i) .. (ii) ..	(b) 1,491	..	(b) 140	..	3,495 1,631	-	-	..	3,495 1,631
Tanning and leather working machinery, other than boot and shoe making and repairing machinery	{ (i) .. (ii) ..	(b) 436	..	(b) 23	..	783 459	-	-	..	783 459
Testing machinery and equipment (c)	{ (i) .. (ii) ..	(b) 111	..	(b) -	..	1,190 111	-	-	..	1,190 111
Water treatment plant, other than plant for waterworks										
Water softeners, water filters, and water sterilising equipment					No.				No.	
Domestic	{ (i) .. (ii) ..	219 (b)	-	-	..	219 13	-	-	..	219 13
Other, including parts of other water treatment plant (i) and (ii)	..	(b)	..	(b)	..	..	..	(b)	..	1,229
Other water treatment plant (i)	..	(b)	..	(b)	..	705	-	-	..	705
Weighing machines and parts thereof, other than ribbon spools with or without ribbons	{ (i) .. (ii) ..	(b) (b)	..	(b) (b)	763,514	5,202 286 332	-	-	763,514	5,202 286 332

Well drilling machinery										
Petroleum	{ (i) .. (ii) ..	763 (b)	-	-	..	763 1,541	-	-	..	763 1,541
Other (i) and (ii)	..	187	-	-	..	187	-	-	..	187
Wire working and wire winding machinery, other than cable making machinery	{ (i) .. (ii) ..	(b) (b)	..	(b) (b)	..	429 ..	-	(b)	..	429 71
Reconditioned machinery and plant, not elsewhere specified (c)	..	(b)	..	(b)	..	1,752	-	-	..	1,752
Other and unclassified machinery and parts thereof										
Hydraulic, including hydraulic accumulators but excluding presses and pumps	{ (i) .. (ii) ..	(b) (b)	..	(b) (b)	..	958 450	-	-	..	958 450
Other										
Complete	..	12,980(a)	..	724	..	..	..	(a)	..	13,703
Parts	..	13,245(a)	..	193	..	..	..	(a)	..	13,438
Unclassified	..	47	-	-	..	47	-	-	..	47
OTHER PRINCIPAL PRODUCTS										
Arms, ammunition and naval, military and air force stores, not elsewhere specified	..	33,313(a)	..	1,252	..	..	..	(a)	..	34,565
Canteen and cafe boiler, etc. sets (excluding purely sheet metal catering equipment) (c)	{ Tons 135 ..	186 170	-	-	{ Tons 135 ..	186 170	-	-	{ Tons 135 ..	186 170
Carpet sweepers, not electrically operated, complete and parts	..	(b)	-	-	..	..	..	(b)	..	522
Fairground equipment	..	214	-	-	..	214	-	-	..	214
Filters					No.				No.	
Oil	..	(b)	..	(b)	{ 249,651 ..	450 702	-	-	{ 249,651 ..	450 702
Other	..	(b)	..	(b)	..	1,099	-	-	..	1,099
Unclassified	..	342	-	-	..	342	-	-	..	342
Parts (c)	..	362	-	-	..	362	-	-	..	362
Garage equipment and plant, not elsewhere specified	..	(b)	..	(b)	..	1,122	-	-	..	1,122
Heavy duty cooking apparatus (not purely cast iron products) except steam (c)										
Gas	{ 738 ..	204 212	-	-	{ Tons 738 ..	204 212	-	-	{ Tons 738 ..	204 212
Electric	{ 61 ..	32 270	-	-	{ 61 ..	32 270	-	-	{ 61 ..	32 270
Oil	{ 11 ..	3 6	-	-	{ 11 ..	3 6	-	-	{ 11 ..	3 6
Unclassified	{ 405 ..	79 53	-	-	{ 405 ..	79 53	-	-	{ 405 ..	79 53

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000		£'000	Tons	£'000
Principal products (contd.)										
OTHER PRINCIPAL PRODUCTS (contd.)										
Heavy plate work, not elsewhere specified (c)										
Bunkers, bins and silos	..	(b)	..	(b)	2,021	174	-	-	2,021	174
					..	35			..	35
Heat exchangers	..	(b)	..	(b)	582	140	-	-	582	140
					..	66			..	66
Pipes and chimneys	..	(b)	..	(b)	8,176	785	-	-	8,176	785
					..	434			..	434
Storage tanks, assembled or not, 3/16 in. and over in thickness, (including tanks, sold separately, which when mounted on a chassis are used for the conveyance of liquid in bulk)	70,829	5,147 (a)	34,862	2,543	..	..	..	(a)	105,691	7,691
	..	532	..	210					..	742
Pressure and sundry vessels	13,770	1,788	1,155	160	14,925	1,948	-	-	14,925	1,948
	..	191	..	31	..	222			..	222
Welded and rivetted built-up plate work, including buoys and flotation vessels	21,351	1,790	387	34	21,738	1,824	-	-	21,738	1,824
	..	1,169	..	20	..	1,189			..	1,189
Metal moulds, other than moulds and dies for use as engineers' small tools, moulds for use in civil engineering and ingot moulds and bottoms	..	(b)	..	(b)	567	236	-	-	567	236
					..	536			..	536
Pressure gauges	..	(b)	..	(b)	Thous. 1,298	976	-	-	Thous. 1,298	976
					..	151			..	151
Wood and metal patterns	..	1,673	..	87	..	1,760	-	-	..	1,760
Other and unclassified principal products, including fire extinguishing apparatus; heavy duty steam cooking apparatus (not purely cast iron products); moulding boxes; and mechanical remote control equipment (except electrical and marine steering gear)	..	16,498 (a)	..	834	..	..	..	(a)	..	17,333
Waste products, other than scrap metals	..	122	..	27	..	149	-	-	..	149
Machinery purchased and installed and other installation work (d)										
Air conditioning, heating and ventilating plant and appliances		1,220 (a)		209		..		(a)		1,428
Other (excluding marine machinery)		10,613 (a)		2,811		..		(a)		13,424
Repair and jobbing work (d) (e)		9,786 (a)		1,310		..		(a)		11,096
Research and development work (d)		(b)		(b)		677		-		677
Other work done for the trade or on commission (d)		4,866 (a)		413		..		(a)		5,279
Total principal products		537,015 (a)		87,073		..		(a)		624,088

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Other output

Marine machinery and parts										
Boilers	..	(b)	..	(b)	..	913	-	-	..	913
Internal combustion engines										
Compression ignition (diesel)										
Propelling	..	(b)	..	(b)	..	2,485	-	-	..	2,485
Auxiliary	..	(b)	..	(b)	..	1,962	-	-	..	1,962
Steam										
Propelling, including steam turbines	..	(b)	..	(b)	..	344	-	-	..	344
Auxiliary, reciprocating	..	(b)	..	(b)	..	273	-	-	..	273
Other descriptions	..	889	..	1,768	..	2,656	-	-	..	2,656
Machine tools, metal-working (other than portable power tools), and parts										
New										
Lathes	..	(b)	..	(b)	..	227	-	-	..	227
Presses	..	2,134	..	51	..	2,185	-	-	..	2,185
Forging machinery other than presses	..	(b)	..	(b)	..	189	-	-	..	189
Sawing	..	203	-	-	..	203	-	-	..	203
Other, including welding and cutting machinery	..	1,655	..	155	..	1,809	-	-	..	1,809
Reconditioned	..	282	..	72	..	353	-	-	..	353
Engineers' small tools and parts	..	990	..	48	..	1,038	-	-	..	1,038
Textile machinery										
Finishing machinery and parts	..	1,310	..	53	..	1,364	-	-	..	1,364
For processes preparatory to spinning and twisting, including parts	..	(b)	..	(b)	..	..	..	(b)	..	417
Other, including parts	..	954 (a)	..	107	..	..	..	(a)	..	1,061
Accessories, sold separately	..	(b)	-	-	..	..	..	(b)	..	497
Mechanical handling equipment and parts										
Conveyors and elevators										
Belt	..	(b)	..	(b)	..	..	..	(b)	..	1,716
Other	..	1,274 (a)	..	189	..	..	..	(a)	..	1,463
Cranes, complete and parts										
Road, wheel or track mounted	..	531	-	-	..	531	-	-	..	531
Overhead travelling	..	(b)	..	(b)	..	..	..	(b)	..	653
Dock, harbour, wharf and shipyard	..	(b)	..	(b)	..	246	-	-	..	246
Other	..	409	..	9	..	418	-	-	..	418
Winches and capstans	..	289	..	48	..	337	-	-	..	337
Lifts and escalators	..	(b)	..	(b)	..	..	..	(b)	..	684
Other and unclassified, including reconditioned equipment	..	1,533 (a)	..	398	..	..	..	(a)	..	1,931
Printing, bookbinding, paper-working, etc. machines and parts										
Printing machinery	..	1,906	..	2	..	1,908	-	-	..	1,908
Other	..	712	..	10	..	722	-	-	..	722

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TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000		£'000		£'000		£'000
Other output (contd.)										
Electrical machinery and apparatus, including parts										
Generators	..	(b)	..	(b)	..	1,138	-	-	..	1,138
Motors	..	(b)	..	(b)	..	1,218	-	-	..	1,218
Other	..	4,531	..	38	..	4,569	-	-	..	4,569
Motor vehicles and cycles, and parts										
Tractors and industrial trucks, complete	..	(b)	..	(b)	..	5,079	-	-	..	5,079
Parts of motor vehicles and cycles	..	3,230	..	77	..	3,308	-	-	..	3,308
Other descriptions, including trailers	..	(b)	..	(b)	..	239	-	-	..	239
Aircraft parts and accessories	..	415	-	-	..	415	-	-	..	415
Rail locomotives and parts (except axles, tyres and wheels)	..	(b)	..	(b)	..	983	-	-	..	983
Road rollers and parts	..	946	-	-	..	946	-	-	..	946
Railway carriages and wagons, and parts (except axles, tyres and wheels)	..	(b)	..	(b)	..	1,025	-	-	..	1,025
Colliery tubs, trams and trucks, and parts	..	105	-	-	..	105	-	-	..	105
Non-mechanically propelled vehicles (except cycles) and parts	..	216	..	21	..	237	-	-	..	237
Electric portable power tools and parts	..	(b)	..	(b)	..	832	-	-	..	832
Edge and similar tools	..	221	-	-	..	221	-	-	..	221
Engineers' and similar hand tools	..	116	-	-	..	116	-	-	..	116
Other types of hand tools and implements	..	1,376	..	61	..	1,437	-	-	..	1,437
Hollow-ware of wrought iron or steel	..	723	..	22	..	745	-	-	..	745
Manufactures of brass or other copper alloys, not elsewhere specified										
Engineers' and mechanics' goods										
Domestic cocks and taps	..	(b)	..	(b)	..	251	-	-	..	251
Other, excluding industrial valves and pressure gauges	..	(b)	..	(b)	..	736	-	-	..	736
Castings in the rough, sold as such	..	516	..	267	..	783	-	-	..	783
Other	..	715	..	114	..	828	-	-	..	828
Stampings and pressings of iron or steel	..	(b)	..	(b)	..	602	-	-	..	602
Fabricated iron and steel	..	3,762	..	533	..	4,295	-	-	..	4,295
Jigs and fixtures	..	428(a)	..	23	..	..	..	(a)	..	451
Scientific surgical and photographic instruments, apparatus and appliances	..	594	..	71	..	665	-	-	..	665
Cast iron stoves, grates and ranges (other than cooking and washing boilers) for domestic cooking and heating, and parts and fittings therefor	..	334	-	-	..	334	-	-	..	334

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Castings of iron or steel										
Iron										
Motor and cycle industry	..	931	-	-	..	931	-	-	..	931
Marine	..	(b)	..	(b)	..	186	-	-	..	186
For prime movers for land	..	199	-	-	..	199	-	-	..	199
For machine tools	..	(b)	..	(b)	..	190	-	-	..	190
For iron and steelworks plant	..	(b)	..	(b)	..	226	-	-	..	226
For civil engineering and contracting machinery and plant	..	(b)	..	(b)	..	146	-	-	..	146
Other and unclassified	..	4,743(a)	..	398	..	..	..	(a)	..	5,141
Steel	..	(b)	..	(b)	..	1,321	-	-	..	1,321
Drop forgings	..	119	..	157	..	276	-	-	..	276
Furniture of metal and parts thereof	..	(b)	-	-	..	..	..	(b)	..	296
Machinery guards of sheet metal	..	119	..	18	..	137	-	-	..	137
Other manufactures	..	6,178(a)	..	1,423	..	..	..	(a)	..	7,601
Scrap metals sold										
Iron and steel	..	1,254(a)	..	242	..	..	..	(a)	..	1,496
Brass	..	2,304	..	139	..	2,443	-	-	..	2,443
Copper	..	204	..	13	..	217	-	-	..	217
Other	..	1,029	..	90	..	1,119	-	-	..	1,119
Constructional engineering, etc. work carried out in the United Kingdom (d)										
Work done as main contractors										
On factories and workshops (including electric power stations, gasworks, petrol filling stations, repair garages, etc.)		3,511(a)		129		..		(a)		2,247
Other										1,393
Work done as sub-contractors		692(a)		23		..		(a)		715
Total constructional engineering work		4,203(a)		152		..		(a)		4,355
Less total value of goods made or fabricated in firms' own works and used in the work		1,045		28		1,074		-		1,074
Total constructional engineering work, exclusive of goods made and used by firms		3,158(a)		124		..		(a)		3,282
Other work done (d)		(b)		(b)		502		-		502
Total		609,259(a)		100,681		..		(a)		709,940

(a) Owing to the risk of disclosure of information relating to individual firms particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

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

(c) So far as recorded separately.

(d) Amount charged.

(e) Exclusive of the value of goods used by firms and recorded as their output. The total value of these goods used in repair and jobbing work was recorded as £2,371,000 for England and Wales and £708,000 for Scotland.

MECHANICAL ENGINEERING (GENERAL) COUNTRY TABLES

Stocks of products on hand for sale and work in progress,
and stocks of materials and fuel

Larger establishments

TABLE 21

£'000

		England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Products on hand for sale	at beginning of year	26,106	3,289	..	..	29,396
	at end of year	30,885	4,022	..	..	34,907
Work in progress	at beginning of year	107,165	21,790	..	..	128,955
	at end of year	127,694	24,470	..	..	152,164
Unclassified	at beginning of year	5,317	584	..	..	5,902
	at end of year	6,497	550	..	..	7,047
Total products on hand for sale and work in progress	at beginning of year	138,589	25,664	..	..	164,253
	at end of year	165,076	29,042	..	..	194,118
Materials and fuel	at beginning of year	58,863	8,957	..	..	67,819
	at end of year	81,053	12,079	..	..	93,133

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Employment in September

Larger establishments (a) (b)

TABLE 22

(i) Operatives

Number

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	16,996	3,195	..	..	20,191
All ages	312,172	56,071	..	..	368,243
Females					
Under 18	1,683	456	..	..	2,139
All ages	39,301	7,255	..	..	46,556
Total					
Under 18	18,679	3,651	..	..	22,330
All ages	351,473	63,326	..	..	414,799

(ii) Administrative, technical and clerical employees

Number

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	2,537	496	..	..	3,033
All ages	73,428	11,988	..	..	85,416
Females					
Under 18	5,888	887	..	..	6,775
All ages	35,385	5,154	..	..	40,539
Total					
Under 18	8,425	1,383	..	..	9,808
All ages	108,813(d)	17,142(d)	..	..	125,955(d)

TABLE 22 (contd.)

(iii) Total employees

Number

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	19,533	3,691	..	..	23,224
All ages	385,600	68,059	..	..	453,659
Females					
Under 18	7,571	1,343	..	..	8,914
All ages	74,686	12,409	..	..	87,095
Total					
Under 18	27,104	5,034	..	..	32,138
All ages	460,286(d)	80,468(d)	..	..	540,754(d)

(a) Excluded employees. The number of persons employed at establishments in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting, and in Northern Ireland canteen and welfare workers) are shown in Table 22(v) below.

(b) Number employed in the week ended September 22, 1951.

(c) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(d) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

(iv) Working proprietors

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	306(c)	34	..	(c)	340
Females	9	-	9	-	9
Total	315(c)	34	..	(c)	349

(v) Excluded employees

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Canteen workers					
Males	394(c)	19	..	(c)	413
Females	4,486(c)	569	..	(c)	5,055
Total	4,880(c)	588	..	(c)	5,468
Other workers					
Males	3,623	122	3,745	-	3,745
Females	1,443(c)	86	..	(c)	1,529
Total	5,066(c)	208	..	(c)	5,274
Total excluded employees	9,946(c)	796	..	(c)	10,742

Average employment

Larger establishments (a)

TABLE 23

Number

	England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom
Operatives	350,990	62,793	..	..	413,783
Administrative, technical and clerical employees	107,415	16,930	..	..	124,345
Total	458,405	79,723	..	..	538,128

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	26	3	29	-	29
Females	81	-	81	-	81
Total	107	3	110	-	110

(a) For employment in small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

(b) Owing to the risk of disclosure of information relating to individual firms particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Wages and salaries and employers' National Insurance contributions
paid during the year: Larger establishments

TABLE 24 £'000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives	135,194	23,658	..	..	158,852
Administrative, technical and clerical employees	52,312	7,971	..	..	60,283
Total	187,506	31,629	..	..	219,135
Employers' contributions to all National Insurance Schemes	4,630	799	..	..	5,429

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(b) Including bonus and commission payments but excluding payments to outworkers shown below.

£'000

England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
10	-	10	-	10

Plant, machinery and vehicles - acquisitions and disposals,
and capital expenditure on new building work

TABLE 25 £'000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Plant, machinery and vehicles					
Acquisitions					
Plant and machinery					
New	16,573	4,189	..	..	20,761
Second-hand	1,658	197	..	..	1,855
Vehicles					
New	1,794	220	..	..	2,014
Second-hand	713	55	..	..	768
Total acquisitions	20,738	4,661	..	..	25,399
Disposals					
Plant and machinery	1,648	103	..	..	1,751
Vehicles	493	49	..	..	542
Total disposals	2,142	152	..	..	2,293
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	5,617	962	..	..	6,579

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Payments for transport services for finished goods sold
and materials and fuel purchased: Larger establishments

TABLE 26 £'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	7,356 (a)	1,570	..	(a)	8,926
Amount paid or credited to firms' own separate transport organisations	276	51	326	-	326
Total	7,632 (a)	1,620	..	(a)	9,252

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

Trade classification: Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

Persons employed: Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

Wages and salaries include all overtime payments, bonuses, and commissions, without any deduction for income tax, insurance, contributory pensions, etc. They exclude payments to working proprietors.

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed to give these at income tax value.

Output: Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

Symbols used: '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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