

BOARD OF TRADE

5 42 [HA 251]

Report on the Census of Production 1963

58 Radio and other electronic apparatus



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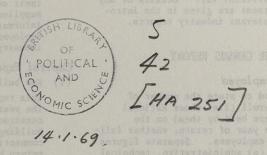
BOARD OF TRADE

Report on the Census of Production 1963

58

Radio and other electronic apparatus

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



Notes

These notes give the main information needed for interpreting the figures in the industry reports. (More detailed information about the Census is given in a separate booklet - 'Introductory Notes': Part 1 of the Report on the Census of Production for 1963.)

GENERAL INFORMATION

Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. However, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses.

The principle of classification by major output was also normally followed in compiling the analysis by sub-divisions of an industry.

In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

TERMS USED IN THE CENSUS REPORT

Average number employed

Firms were required to state the number of persons on the payroll (i.e. whose National Insurance cards were held by them) on the average during the year of return, whether fulltime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working Proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving a fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

Employees

- (i) Administrative, technical and clerical employees include managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.
- (ii) Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves

Capital Expenditure

(i) New building work.

This represents the cost incurred during the year of new building and other new constructional work (including office buildings, canteens and the like used in connection with the business covered by the return but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

Notes - continued on pages iii and iv

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Radio and other electronic apparatus

This Report on the Radio and Other Electronic Apparatus Industry relates to establishments engaged wholly or mainly in manufacturing electronic valves (including cathode-ray tubes, semi-conductors and electronic rectifiers); radio and television receivers; sound reproducing and recording equipment, including gramophones, gramophone records and tape recordings; radio and television transmitters; radio communication receivers; radar and electronic navigational aids; electronic computers; industrial electronic equipment; electronic medical equipment; high frequency heating apparatus; electronic testing and measuring equipment; X-ray apparatus etc. (but not other electro-medical equipment); and radio and electronic components and assemblies such as resistors, capacitors, inductors, circuit breakers for electronic equipment, sound reproduction components and printed circuits.

This industry corresponds to minimum list heading 364 in the Standard Industrial Classification (Consolidated edition, 1963).

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

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TABLE 1 Industry summary: United Kingdom Estimates for all firms, 1958 and 1963 (a)

		Unit	. 1958	1963
Number of enterprises	passervit and gransphoten	No.	491	737
Number of establishments		н	712	1,072
Gross output		£'000	325,894	587,542
Net output (b)		"	149,282	320,168
Net output per head (b)		3	853	1,322
AND A CONTROL OF THE PROPERTY	[goods produced and work done	\$,000	303,134	532,355(
Sales and work done	merchanted goods and canteen takings	'n	15,809	44,973
Artistes' royalties, fees and	copyright payments, etc.		2,101	3,039
Performing rights, royalties a	nd copyright receipts, etc.		2818	765
Purchases	materials for processing and packaging, and fuel		163,727	214,527
TOROLDE LARGERIA LA 1906	goods for merchanting and canteen purchases			36,811
Payments to other	for work done on materials given out	11	5,753	15,386
organisations	{ for transport)3 0 HOO 20	2,652	2,283
Stocks and work in progress			negreelisio	ga So sebal
Total stocks and work in	change during year	п	+ 4,571	+ 14,121
progress	at end of year	3. T. T. W. W. W. W.	107,989	216,560
Carda an hand fam anda	change during year		+ 2,096	+ 2,172
Goods on hand for sale	at end of year	н	21,320	36,336
man a la marena la se	change during year	н	+ 4,855	+ 8,042
Work in progress	at end of year		61,610	131,354
aug see agsee '	change during year		- 2,380	+ 3,906
Materials, stores and fuel	at end of year		25,059	48,870
	(total, including working proprietors	Th.	175.0	242.1
Average number employed	operatives	н	119.7	157.8
	other employees (d)		55.3	83.5
reader Longian e	fof operatives	\$,000	54,130	88,404
Wages and salaries	of other employees (d)		40,821	75,221
Employers' contributions to Na pension schemes, etc. (e)	tional Insurance and private		1887	10,723
Capital expenditure (f)			Sheeper Letting 17.5	South Springs
Total			198	18,715
New building work			2,071	3,760
Land and existing buildings	(g)		trans	- 407
Plant and machinery (g)		n n	7,408	14,678
Vehicles (g)			446	584

- (a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 2 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was also 2 per cent.) A summary of the detailed returns received is given in Table 2.
- (b) Net output for 1958 and 1963 is not strictly comparable. For 1958 receipts for performing rights, royalties and copyright, etc. were not collected separately but for 1963 such receipts were taken into account in the calculation of net output.
- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Including pensions and gratuities paid other than from pension funds.
- (f) Excluding expenditure for establishments not yet in production.
- (g) Acquisitions less disposals.

Total

1963

281

1958

257

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom (a)

10/022 Attack 31/02			Sub-div	
	to any con-	Unit	Electroni (including of tubes) and se devi	cathode ray
		569	1	o fugruo last
252.4			1958	1963
Number of enterprises (d)		No.	14	19
Number of establishments			42	52
Gross output		£'000	38,640	70,580
Net output (e)			22,576	46,923
Net output per head (e)		£	1,002	1,374
	f goods produced and work done	£'000	35,070	67,518(f
Sales and work done	merchanted goods and canteen takings		1,750	3,656
Sales of characteristic products	A CONTRACTOR OF THE SERVICE OF THE S	н	32,778	54,689
Index of specialisation (i)		Per	93	81
Artistes' royalties, fees and co	pyright payments, etc.	£'000	AT BOARD OF BROOM	_
Performing rights, royalties and			nt xyon han and	ora latel
ioriorming rights, royalties and	materials for processing and	1	1	
Purchases	packaging, and fuel		15,805	19,533
ruichases	goods for merchanting and canteen purchases	j •		3,159
Payments to other organisations	for work done on materials given out		188	355
rayments to other organisations	for transport	н	204	395
Stocks and work in progress		学品品	of how Payora	
Coods on hand for calls	change during year		+ 1,555	- 350
Goods on hand for sale	at end of year		3,917	5,761
2.05	change during year	н	+ 265	- 243
Work in progress	at end of year		1,730	5,717
	Change during year	н	+ 133	- 215
Materials, stores and fuel	at end of year		2,490	4,490
	f total, including working proprietors	No.	22,529	34,151
Average number employed	operatives	н	16,945	23,600
iverage number employed	other employees (j)			
		01000	5,584	10,542
Wages and salaries	of operatives	£,000	7,718	13,122
	of other employees (j)		4,156	9,751
Wages and salaries per head	{ operatives other employees (j)	2	455	556
			744	925
Employers' contributions to Natio		£'000		872
Employers' contributions to priva	ate pension schemes, etc. (1)	Long sol	S ser seat.	858
Capital expenditure (m)		1.2000 3	og 2 ogla esw	
New building work		DI SMELLS	173	647
Land and existing buildings	acquisitions disposals	200 . 200 200 . 200 200 . 200	red and dopyr	5 37
transions . tosiq too solvid to	(acquisitions	de recisso	1,993	2,811
Plant and machinery	disposals	.bivorq	. 70	440
	(acquisitions	BE ISSUE	68	45
Vehicles	disposals	MARKET DE	6	16

233 220 474 598 546 93 432 85,181 573,313 281,239 502,732 172,393 245,158 319,878 123,950 265,492 72,833 141,928 50,731 146,526 312,414 830 1,313 1,342 1,489 966 853 1,322 152,015(f) 262,469 451,945(f) 218,772(f) 81,158(f) 297,539 519,463(f) 13,767 40,229 17,168 20,135 2,926 15,517 43,884 236,859(g) 399,909 129,958 163,904 66,298 (h) (h) 90 88 85 75 82 91 2,062 2,966 2,062 2,966 747 747 189,798 82,451 75,228 32,119 209,331 144,900 160,705 32,760 14,436 16,132 2,192 35,919 5,459 797 14,658 1,233 12,628 5,647 15,013 2,399 1,833 874 504 455 2,603 2,228 + 502 2,469 - 394 + 2,363 500 + 2,057 + 2,119 17,009 29,695 12,562 13,787 3,345 20,926 35,456 + 3,605 + 4,501 8,092 + 3,889 + 598 + 4,765 + 7,848 122,455 58,743 55,096 61,422 5,937 128,172 60,473 - 2,469 + 4,026 + 1,619 + 1,296 + 1,111 - 2,336 + 3,812 22,106 43,197 10,688 24,213 8,296 47,687 24,596 202,082 149,286 54,274 95,279 52,529 236,233 171,815 100,575 130,731 36,635 51,938 42,158 117,520 154,331 48,697 71,179 17,607 43,310 10.262 54,281 81,721 45,442 73,363 19,329 34,745 19,289 53,160 86,485 35,933 63,837 15,481 39,644 8,712 40,090 73,588 452 561 528 668 458 452 560 738 896 879 915 849 739 900 2,660 5,307 1,348 1,299 6,179 3,454 904 2,098 452 4,312 1,860 3.022 428 1,819 775 2,033 3,669 643 31 347 265 648 .. 1,008 225 .. 685 98 1,045 5,757 13,473 2,903 7,750 7,974 2,595 16,284 408 1,521 754 648 119 478 1,961 618 1,152 304 499 349 685 1.198 241 514 173 193 148 247 531

Sub-divisions of the industry (b)

Radio and other electronic equipment and gramophones

Total

1958(c)

250

Total

271

Broadcast

receiving equipment and

gramophones 20

49

Radio, radar

30

96

1963

and electronic electronic capital goods components

Radio and

40

154

For notes to this table - see page 58/7

Analysis of larger firms by size of enterprise within the industry, 1963

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enter- prises	Estab- lish- ments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expendi- ture (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	£,000	£'000	£ 02	£'000	\$,000
25-49	62	66	2,284	5,737	2,969	1,300	167	1,282
50-99	71	80	4,932	10,980	5,761	1,168	356	2,699
100-199	56	72	7,882	19,625	10,150	1,288	1,020	5,109
200-299	16	29	4,000	9,642	4,461	1,115	137	2,360
300-399	14	18	4,596	12,150	5,961	1,297	243	2,652
400-499	6	7	2,698	6,430	3,824	1,417	176	1,943
500-749	14	32	8,284	18,236	9,672	1,168	358	5,900
750-999	7	16	6,360	13,903	9,486	1,492	539	3,084
1,000-1,499	8	20	9,441	20,949	11,625	1,231	1,132	5,442
1,500-1,999	6	18	10,741	20,657	12,003	1,117	659	9,841
2,000-2,499	3	17	6,994	15,280	6,965	995	671	4,695
2,500-2,999	3	19	8,385	30,078	16,753	1,998	146	7,945
3,000-3,999	3	10	10,205	23,080	17,241	1,689	788	7,839
4,000-7,499	4	39	23, 194	58,944	34,931	1,506	1,164	19,497
7,500 and over	8	155	126,237	307,622	160,614	1,272	10,706	131,028
Total	281	598	236,233	573,313	312,414	1,322	18,262	211,316

(ii) Employees, wages and salaries, and employers' contributions Firms employing 25 or more persons: United Kingdom

Average number	Empl	oyees	Wages and	salaries	Emplo contrib		Wages and per	salaries head
employed by the enterprise in the industry (a)	Oper- atives	Others (c)	Oper- atives	Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Oper- atives	Others (c)
	Number	Number	£'000	£'000	£,000	£'000	2	2
25-49	1,672	570	874	605	62	17	523	1,062
50-99	3,649	1,213	1,918	1,099	129	31	526	906
100-199	5,629	2,217	2,771	2,244	195	84	492	1,012
200-299	2,937	1,054	1,653	1,048	109	65	563	994
300-399	3,052	1,537	1,443	1,403	116	65	473	913
400-499	2,108	589	1,212	557	69	48	575	946
500-749	6,155	2,128	3,592	1,822	217	109	584	856
750-999	5,211	1,148	2,765	1,261	183	129	531	1,099
1,000-1,499	5,853	3,588	3,385	3,553	296	115	578	990
1,500-1,999	8,470	2,271	5,086	2,109	326	189	600	929
2,000-2,499	4,664	2,330	2,151	1,693	166	61	461	726
2,500-2,999	6,109	2,276	3,387	1,744	214	90	554	766
3,000-3,999	7,831	2,365	3,939	2,042	199	224	503	864
4,000-7,499	13,692	9,502	8,417	9,196	688	453	615	968
,500 and over	77,299	48,933	43,891	43,210	3,210	2,633	568	883
Total	154,331	81,721	86,485	73,588	6,179	4,312	560	900

- (a) Including working proprietors.
- (b) Acquisitions less disposals.
- (c) Administrative, technical and clerical employees.
- (d) Including both flat rate and graduated contributions.
- (e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £294,000.

Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a) TABLE 4

Ages	Males	Females	All employees
RSDASSAGETTS	Per cent.	Per cent.	Per cent.
Under 18	3	4	7
18 and over	53	40	93
All ages	56	44	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

Footnotes to Table 2

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns, which account for 7 per cent. of the employment shown for 1963 and 3 per cent. for 1958.

	1958	1963
Number of firms	217	451
Average number employed:		
Working proprietors Other persons employed	2,503 {	622 3,514

- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) Total figures only are available for 1958.
- (d) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (e) Net output for 1958 and 1963 is not strictly comparable. For 1958 receipts for performing rights, royalties and copyright, etc. were not collected separately but for 1963 these receipts were taken into account in the calculation of net output.
- (f) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services
- (g) Excluding repair work carried out on radio, television and other electronic appliances which is no longer a characteristic product of the industry.
- (h) Characteristic products relate only to sub-divisions of the
- (i) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (j) Administrative, technical and clerical employees.
- (k) Including both flat rate and graduated contributions.
- (1) Including pensions and gratuities paid other than from pension funds.
- (m) Excluding expenditure for establishments not yet in production.

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963

ndustry		19	58		1963	793	
sub- ivision (a)	The second of th	Quantity	Value	Quantity	Value	Enter- prises	Entries
10	Valves, electronic (other than X-ray valves), electronic stabilising tubes and cathode ray tubes, sold separately	2310 Za	£'000	Thousands	\$,000	Number	Number
and the second second	Complete	and an extraordinate				1 98	
700	Thyratons and hot cathode			1.182	250	2.69	
100000	mercury vapour gas-filled rectifiers (excluding mercury arc rectifiers) (b)	s sics Assistan (sold	849	762	1,126	6	6
2000 A	Photo-electric cells, (excluding photo semi-conductors), stabilising tubes and cold cathode valves (excluding discharge lamps not over 5 watts)(c)	Thousands	1,564	2,701	1,310	8	11
	Magnetrons and klystrons	51.5	1,587	53.8	3,447	8	10
13000	Cathode ray tubes including rebuilt tubes:	2,025	2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.005		4.69 7.38	
2,000-3	Domestic television receiving tubes including industrial monitor tubes	2,622	15,162	2,390	11,797	5	6
100.00	Industrial tubes			91.0	1,282	11	11
200	Other	,	13-414	1,323	18, 202	333633	
	Not over 50 watts anode dissipation	63,285	13,176 {	74,363	15,189 2,560	} 12	14
	Over 50 watts anode dissipation	104	1,215	212	2,263	7	7
10	Parts (except glass envelopes) Semi-conductor devices (excluding power rectifiers)	denan Na dela masa Mananan	1,115	Cost toda	2,152	8	10
	Photo-sensitive transistors)	1	145	103		
25.00	Semi-conductor transistors	s grrantari		45,219	9,390	11	13
201.	Semi-conductor signal diodes not exceeding 200 milliamperes current rating	\$10,872	3,484	13,252	1,946	7	8
983488 99354 99041	Semi-conductor rectifiers, diodes, controlled rectifier elements and cells, singly or as part of stacks above 200 milliamperes current rating	3100 7400 345 32 8381 303 28331 1950 3	{	27,192	5,035 4,028	} 12	14
30	Transmitters, sound and vision, for public broadcasting	n gartustius na specialis	2,202	108	5,636	9	10
30	Industrial television equipment (including equipment for teaching and demonstration purposes)		201	363 380	940	8	12
30	Radio communication equipment in- cluding radio relay link equipment, complete	cantaranti Channakeria Channakeria	11,495	20 724	32,617	30	40
30	Radar and electronic navigational aid equipment, complete	015-300 105 60 10.0169	17,044	2,533	54,924	34	47
	requirementages of the later and	Dar School	0,179	1,313		1 199	
20	Television receiving sets, complete, (whether or not sound reception or radiogram is incorporated)	1,948	62,851	1,757	56,833	15	18
20	Television terminal units (excluding industrial types) and television chassis, substantially assembled	104	2,631	100	3,199	5	7

TABLE 5 (continued)

sub- livision		CONTRACTOR DESCRIPTION OF THE PERSON NAMED IN		1963			y Paudoni House
(a)	Value Quantity Value prison	Quantity	Value	Quantity	Value	Enter- prises	Entries
Huseber	1000.3 Spursout 000.3	Thousands	£'000	Thousands	£,000	Number	Number
20	Radio receiving sets, domestic, in- cluding car radios, complete		1,848.	abs		15.200	39
	Transistor including valve/ transistor]1,416	11,418	2,613	18,124	23	29
	Other		1	169	1,686	7	7
20	Radiograms, complete			g will state on the	arkelones en l		ne
	Transistors, including valve/ transistor)	5 000	73.5	1,929	8	9
	Other	196	5,080 {	175	4,183	15	17
20	Radio receiver and radiogram chassis, substantially assembled	0.82	275	32.5	232	6	6
30	X-ray apparatus, industrial and		55,857(15)		The state of	e 1	te
	medical (including parts other than tubes and valves)	000	1,691	gospia.im	4,655	13	17
10	X-ray tubes and valves	7.2	444		301	5	5
30	Electronic measuring and testing	4.00		zoniza	linesh ind	0.	.04
TX	instruments		27 (. 208(%)		599,025 J	285	13451
	Mainly used in the testing of radio, radar and television equipment		5,453	entering per	8,311	40	50
	Other, not elsewhere specified, including medical, surgical and surveying instruments but excluding industrial process control	6, 250 Sed	Peraliser's	SERVICE SERVICES	area vales arguero arau aar Elera	Strate P	2.540
	equipment (d)	se leens de	3,931		7,174	54	65
30	Nucleonic instruments		2,088		8,012	33	40
30	Industrial radio-frequency induction and dielectric heating equipment (valve type)	205.152 15 101 101 1 100	1,347	tundiles tundiles galles and	1,630	7	8
30	Electronic data processing and handling equipment (including computors and machine tool position controls) (e)	star explain	6,905	example b	40,141	44	52
20	SU 1 300.0 910.1871 203.4	421.356	0,303		40,141	77	02
30	Other electronic industrial process control equipment	160	(f)	d	11,526	51	58
	Gramophones and record players, tape recorders and reproducers	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF	14 dp 1 1 29 h	ordalasia i-sema be	ARTOGRADAS.	27 (1)	
20	Gramophones with built-in electrical amplification	524	4,885(g)	489	4,948	22	. 25
20	Turntable units without built-in amplification, including those complete with cabinet	3,865	12,798	3,798	11,636	14	14
40	Parts and accessories of gramophones and record players		1,922		2,821	17	21
20	Magnetic (tape, wire, magnetic			5	on alazon	Second	
	discs, etc.) sound recorders, complete with built-in amplification	40.3	1,507 512	} 407	6,727	28	29
20	Tape decks and similar machines	38.6	493	314	1,500	13	14
20	Recording tape, wire and magnetic discs, etc.		923		2,186	5	5
			Contract Con				

Continued on next page

TABLE 5 (continued)

Industry	· The same of the	19	58		1963		ya (neshe i
sub- division (a)	raint males stites in nulse	Quantity	Value	Quantity	Value	Enter- prises	Entries
20	Gramophone records pre-recorded tape, wire, etc.	Thousands	£'000	Thousands	£'000	Number	Number
	Gramophone records		410 m	73,660	15,816	8	8
	Pre-recorded tape and wire	56,373	12,251		272		*
	Matrices impressed for the re- production of gramophone records and biscuits	50,515	12,231		448	130.7	7
20	Dictating machines, complete		1,197(i)		1,620	6	6
20	Other electrical sound reproducing and recording apparatus		Ses\evi	ev gažnutsi	l latohic tereis	sTE	8
	Complete	Tacalence				630	
30	For public address	25.0	432 306 }	\{\ 4.4 \\ \dots	264 1,096	} 16	16
30	For sound films	38.8 ** }	601		LEAST EXAMINE	107-1	-(CE
40	Loudspeakers and microphones sold separately	6,699	3,870 {	7,450	4,393 480	} 29	33
40	Other descriptions {	20.4	3 19 87	70.2	924 707	23	26
40	Parts	12,000	426	2,390	933	14	17
40	Other electronic equipment		14,163	river and	19,402	94	101
40	Radio, television, and other electronic components, not elsewhere specified	64.285	,5a123	POUR STORES	in the in	uo mir	14
	Capacitors		ananaranan	ing armanury orthogological	FOR LEGATER	luo il	
	Complete		4 4 10 2		Appendi (d)	723	
	Fixed	414,235	11,173 {	471,088	13,637 1,624	} 23	27
	Variable (including drives and couplings)	4,967	713	9,513	1,391	10	10
	Parts		(f)	10 1 3 n. 1 2 n	1,954	5	6
22	Resistors, sold separately		NOL 2 LEGIS	1001 3015	tote and p	race II	
	Fixed	388,164	4,505	791,089	6,656	22	23
	Variable {	20,931	2,772 437	25,746	3,936	} 24	2.4
	Transformers, other than for light- ing, heating and power		eder with	alg brener	tine appenda	2520 2500	13
250 []	Instrument	341	1,288 188	448	1,543 265	} 26	28
	Other	5,163	2,821 {	3,229	2,498 3,102	39	41
	Other components		28,178		30,235	85	104
	Other products		524		2,335(j)	21	21
	Scrap metals sold			Th. tons	griffy William		0
	Iron and steel	8.00	56 {	13.3	75 13	} 49	70
25	Copper	8.76	45	0.9	132	65	83
	Brass	•	151	1.5	218	61	81
	Other metals	3.55.	199	1.7.1	327	65	93
	Other waste products	··#	121	on according	126	36	59
	Total goods sold		283,738	20n 20a 10a	471,374	10 11	

TABLE 5 (continued)

Industry sub-	nobga 13	1	958	1963			
division (a)	E381	Quantity	Value	Quantity	Value	Enter- prises	Entries
	Work done		£,000		£,000	Number	Number
	Machinery purchased and installed and other installation work		1,845		3,674	14	19
	Repair and maintenance work on customers' machinery, plant apparatus and appliances	odf 600	657	gs To de	2,259	42	49
	Research and development work for customers (including Government Departments)		18,151	eader 31	25,103	47	69
	Other work done on commission		1,444	55	4,162	43	51
	Total work done	200	22,098(k)	V 100 E	35,198	1 8 8 9 1 1	3338 136%
	Total		305,837(k)	14	506,572		co.
	Sales in other industries (see Table 6)	111 586	34,571	his see	47,496	100 B	10 7 8 6 7 6 9 7 6 10
	Principal products of this industry sold by establish-ments in the industry	1 1 1 1 1 1 1	271,266(k)	140	459,076	281	373(1)

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to
- (b) Described as 'Thyratons and hot cathode mercury vapour and gas-filled rectifiers' for 1958.
- (c) For 1958 photo semi-conductors and discharge lamps not over 5 watts were not specifically excluded.
- (d) For 1958 medical and sugical instruments were excluded.
- (e) Described as 'Data processing and handling equipment (including electronic computors and machine tool position controls) and parts' for 1958. Data processing and handling equipment other than electronic, including card punching machines and verifiers is included in the report on Office Machinery and the sales were recorded as £11,941,000 for 1958 and £19,354,000 for 1963.
- (f) Not recorded separately for 1958.
- (g) Including some acoustic gramophones for 1958.
- (h) For 1958 electric motors were not specifically excluded.
- (i) Including parts.
- (j) Including Government contracts not further defined.
- (k) Revised figure. Radio repairs (including repairs to television and all electronic apparatus) included in this table in the 1958 report on this industry are now shown in Table 7.
- (1) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown in Table 2 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

control Value orland Massaca	19	58	196 T Ass		1963	
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
The market good of the mark	Thousands	£'000	Thousands	£,000	Number	a Sus rikosa
Valves, electronic (other than X-ray valves), electronic stabil- ising tubes and cathode ray tubes, sold separately	TAB		70		ysmaiks mailga magalaryb lymanalsa	customers' and appetratus and Table and Table and Table and Screenscon ()()
Complete	4 - 35					(4.7 stems (6.09s)
Thyratrons and hot cathode mercury vapour gas-filled rectifiers (excluding mercury arc rectifiers)	37.3	193			anab ca ca	Sice later
	7,1100	100				1.552 15 18
Photo-electric cells (ex- cluding photo semi-conductors) stabilising tubes and cold cathode valves (excluding dis- charge lamps not over 5 watts)	393	363	700	1,179	Patronia To alde	55,57
Magnetrons and klystrons	11.3	374			the same	ionitis 11 to
Cathode ray tubes including rebuilt tubes	(2)001,					5 50 504
Domestic television receiving tubes including industrial monitor tubes	30031 9	4,501	coluivit continu	4,509	india india	55,57,60,64
Industrial tubes Other including semi-conductor	on I make		eg satios:		ubseckts	es orned SECI
devices	a milberial				A 60 C 10 C	priidona Ridio
Radio communication equipment in- cluding radio relay link equipment, complete	tera guinas Loci el est tento •••22 o	3,332		4,091	7	57,64,124
Transmitters, sound and vision, for public broadcasting			F 10 F 101		3-21 1970 3-31 1970	ok sobs gelbis
Radio receiving sets, domestic, including car radios, complete	}	1,390(б)			las I	Larray dalby
Radiograms, complete	J			3,173	10	53,55,57,60
K-ray apparatus, industrial and medical (including tubes, valves and other parts)	CHARTE VE	660	no it voge v To ved a towards		ser mudica el marcina evincan 15 e	ludedite "file e figure repre
Radar and electronic navigational aid equipment, complete		2,123		6,341	13	53,55,57,64
Electronic measuring and testing instruments			2.4		122	7,886 / Th
Mainly used in the testing of radio, radar and television equipment		719	28.	736	14	53,55,57,60
Other, including medical, surgical and surveying instru- ments but excluding industrial process control equipment		852(c)		2,177	27	53,55,57,64
Vucleonic instruments		651		1,719	18	30,49,55,64
Electronic data processing and nandling equipment (including computers and machine tool position		4,552(d)		4,194	19	53,55,57,64
controls)		4,002(4)				
Other electronic industrial process control equipment		(e)		2,344	23	44,49,53,55

TABLE 6 (continued)

	19	958	9400 TO 35		1963	
out at landar	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	to act	\$,000	io this i	£,000	Number	all actuaretes
Gramophones and record players, tape recorders and reproducers	Quantity:	Quant 223	Sector		onelous I	
Gramophones with built-in electrical amplification, parts and accessories of gramophones and record players, other than electric motors and records	l von savis	7000000	Nespyga	310	6	52,53,57,68
Magnetic sound recorders, tape decks and similar machines, recording tape wire and magnetic discs etc., and other parts and accessories other than electric	\$77.1 3843	243(f)	n and old		est included the state of the s	
motors	2,172		• • •	181	8	49,52,55
Other electrical sound reproducing and recording apparatus and parts except gramophone records, prerecorded tape, wire, etc.	10010A	s arring in	c,iommove		sasod a	
For public address		263		146		57,59,60
Other (including loudspeakers, microphones, dictating machines and parts)		405		515	12	53,55,57,59
Other electronic equipment		6,045		5,911	38	53,55,57,60
Radio, television and other electronic components	Thousands	Serie section	Thousands	ni (langla	Errica a count	resting course
Capacitors (other than for power { factor improvement) complete	2,244	1,032(g) 402	5,773	1,783 691	} *	56,57,73
Resistors, sold separately					oga fant	
Fixed		866	31,969	529	5	55,57,59,60
Variable		295		433		49,53,60
Transformers (other than for lighting, heating and power)					mam lare	
Instrument	135	787 188	174	1,196 75	} 14	53,55,57,60
Other {	81.5	429 92	380	728 504	} 14	55,56,60,107
Other components		3,813		4,032	32	53,57,60,74
Total		34,571	e.	47.496		

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

⁽b) Including television receiving sets.

⁽c) For 1958 medical and surgical instruments were excluded.

⁽d) For 1958 described as 'Data processing and handling equipment and parts thereof'.

⁽e) Not recorded separately for 1958.

⁽f) Including gramophone records and biscuits.

⁽g) Including parts.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963

Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Domestic electrical appliances Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 365 361 117 98 382 382 382 382 382 383 382 382 382 38	medican say	1958	1963
Metal-working machine tools Engineers' small tools and gauges Office machinery Miscellaneous non-electrical machinery Offodnance and small arms General mechanical engineering Scientific, surgical and photographic instruments Electrical machinery Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Tresting equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Domestic electrical appliances Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,510 1,732 1,784 2,240 2,240 3,956 3,95		Value	Value
Engineers' small tools and gauges Office machinery Miscellaneous non-electrical machinery Ordanace and small arms General mechanical engineering Scientific, surgical and photographic instruments Electrical machinery Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 107 1,299 6,270 1,739 1,739 1,739 3,956 422 882 24 72 882 24 72 882 88	The state of the s	£'000	£'000
Engineers' small tools and gauges Office machinery Miscellaneous non-electrical machinery Offondance and small arms General mechanical engineering Scientific, surgical and photographic instruments Electrical machinery Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Domestic electrical appliances Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1, 240 1, 239 1, 739 1, 739 1, 739 1, 739 1, 739 1, 739 1, 739 1, 739 1, 739 1, 739 1, 739 3, 958 242 82 82 84 72 882 1, 831 1, 831 1 104(a) 1, 198 395 3, 988 2, 261 2, 849 9, 118 2, 182 2, 817 1, 733 3, 989 2, 261 2, 849 9, 118 2, 182 2, 817 1, 733 3, 989	Wetal-working machine tools	17 (1,984
Office machinery Miscellaneous non-electrical machinery Ordnance and small arms General mechanical engineering Scientific, surgical and photographic instruments Electrical machinery Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Obmestic electrical appliances Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,240 1,739 3,956 6,083 1,739 1,1831 1,739 1,739 1,739 1,739 1,739 1,739 1,741 1,184 1,198 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,291 1,2		27075 25 50 0	107
discellaneous non-electrical machinery Ordnance and small arms General mechanical engineering Scientific, surgical and photographic instruments Electrical machinery Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Other Omestic electrical appliances discellaneous electrical goods Plastics moulding and fabricating discellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,214 6,083 1,739 1,739 3,956 422 882 24 72 882 34 72 365 355 351 117 385 382 895 382 895 382 24 72 882 24 72 882 24 72 882 24 72 882 24 72 882 24 72 882 24 72 882 24 72 882 382 382 383 382 895 385 385 385 385 385 385 385			1.299
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Scientific, surgical and photographic instruments Electrical machinery Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Other Other Other Other Other Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,739 3,956 1,739 3,956 422 882 24 72 365 351 1,831 382 382 385 395 395 395 395 3,989 3,99 3,9	THE THE PARTY AS IN THE PARTY TO THE PARTY THE	abrases is	6,083
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Transformers for lighting, heating and power including choking coils and parts thereof Not over 5kVA 5-800kVA 624 72 Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Tother Domestic electrical appliances discellaneous electrical goods Plastics moulding and fabricating discellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 422 882 24 72 365 365 361 365 365 361 37 382 382 382 382 382 382 382 382 382 382		e eachises,	linin bas sat
Not over 5kVA 5-800kVA Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Tother Domestic electrical appliances Wiscellaneous electrical goods Plastics moulding and fabricating Wiscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 422 365 351 365 351 367 367 368 382 382 382 383 382 385 389 389 395 395 395 398 398 398 398 398 398 399 398 398 398	Transformers for lighting, heating and power including	on the state and a	
Capacitors for power factor improvement and parts thereof Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Domestic electrical appliances discellaneous electrical goods Plastics moulding and fabricating discellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 365 361 117 98 382 382 104(a) 104(422	882
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Switchgear and switchboards Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Domestic electrical appliances Wiscellaneous electrical goods Plastics moulding and fabricating Wiscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 11,831 1,831 104(a) 1,198 395 3,989 2,261 2,849 5,294 9,118 2,182 2,881 1,703 7,319 2,486 51,552 4,278 5,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 3,322 4,278 1,510 4,278 1,531		365	351
Fuses and fuse gear Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Other Omestic electrical appliances discellaneous electrical goods Plastics moulding and fabricating discellaneous metal manufactures Other Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any nanufacturing process (merchanted or factored) 1,831 1,831 382 382 382 383 382 385 3.989 2,281 2,849 5,294 9,118 2,875 { 1,703 7,319 20,486 51,552 4,278 5,322 4,278 1,530 4,278		1)	117
Battery chargers Other Telegraph and telephone equipment Testing equipment and signalling apparatus Line apparatus for long distance communication and speech input equipment Other Tother Total goods Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	TO THE CONTROL OF THE PERSONNEL OF THE P		98
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Line apparatus for long distance communication and speech input equipment Other Other Commestic electrical appliances Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,198 395 753 3,989 2,261 2,881 2,182 2,881 1,703 7,319 20,486 51,552 4,278 5,322 4,278 5,322		104(a)	hadda bees tare da
input equipment Other products Other produ		210	1,198
Domestic electrical appliances Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 2,261 2,849 9,118 2,182 2,881 1,703 7,319 1,510 1,510 4,278 5,322 4,278 1,501 4,278 1,502 4,278 1,503 4,278 1,503 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278		395	fiel a torious
Miscellaneous electrical goods Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 5,294 2,182 2,881 1,703 7,319 20,486 51,552 4,278 5,322 4,278 5,322 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278	Other	753	3,989
Plastics moulding and fabricating Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 2,881 1,703 7,319 2,882 2,881 1,703 7,319 4,278 5,322 4,278 5,322 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278	Domestic electrical appliances	2,261	2,849
Miscellaneous metal manufactures Other products Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 2,875 20,486 51,552 4,278 5,322 4,278 5,322 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278 1,510 4,278	Miscellaneous electrical goods	5,294	9,118
Total goods sold Total goods sold Z0,486 Z0,486 Total goods sold Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) Z2,875 Z0,486 Total 1,510 3,322 4,278 Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	Plastics moulding and fabricating	2,182	2,881
Total goods sold Total goods sold 20,486 51,552 Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 7,319 20,486 51,552 4,278 5,322 4,278 1,510 3,511	Miscellaneous metal manufactures	2.875	1,703
Work done Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,510 4,278 5,322 4,278 14,211 41,531	Other products		7,319
Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,510 4,278 5,322 4,278 1,510 1,510 1,510 4,278 14,211 41,531	Total goods sold	20,486	51,552
Structural work carried out by main or direct contractors and sub-contractors (b) Repair work to radio (including television and all electronic apparatus) Total work done Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 1,510 4,278 5,322 4,278 14,211 41,531	Work done		
Repair work to radio (including television and all electronic apparatus) 4,278 Total work done 5,788(c) 5,322 Services rendered to other organisations (d) Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 14,211 41,531		1,510	S of the contraction of the con-
Services rendered to other organisations (d) 3,511 Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 14,211 41,531		4,278	5,322
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 14,211 41,531	Total work done	5,788(c)	5,322
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) 14,211 41,531	Services rendered to other organisations (d)	of see dayle ac	3,511
Canteen takings 1,306 2,354	Total value of goods sold without having been subjected to any	14,211	41,531
MARKET THE PROPERTY OF THE PARTY OF THE PART	Canteen takings	1,306	2,354
Total 41,791(c)(e) 104,270	personal ter exclusive endustrial to the endustrial to the endustrial to the endustrial terms and	44 70:4:34:3	104,270

- (a) Described for 1958 as 'Testing equipment excluding electronic'.
- (b) Excluding the estimated value of goods made and recorded as being sold which were used in the contract work.
- (c) Revised figure; see footnote (k) in Table 5.
- (d) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.
- (e) Excluding amounts charged for services rendered to other organisations.

Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	19	958			19	63		
	Returned in this industry	Returned in all industries	Returned in this industry			Returned in all industries		
thought to rain 16	Quantity	Quantity	Quantity	Enter- prises	Entries	Quantity	Enter- prises	Entries
Valves, electronic (other than X-ray valves), electronic stabil- ising tubes and cathode ray tubes Complete	Thousands	Thousands	Thousands	Number	Number	Thousands	Number	Number
Magnetrons and klystrons) (57.1	(a)		bath at	59.0	8	10
Cathode ray tubes including rebuilt tubes	2,592	2,771	(a)	dan 200	inclusion of	2,508	11	13
Thyratrons and hot cathode mercury vapour gas-filled rectifiers (excluding mercury arc rectifiers)	511	552	a andorn	lis to	ades Hus	onis Arker antigati el	eme, las	tain tain took
Photo-electric cells (excluding photo semi-conductors), stabil- ising tubes and cold cathode valves (excluding discharge lamps not over 5 watts)	768	1, 205	(a)	sia gni	misely is miseld be expressed	76,182	13	20
Not over 50 watts anode dissipation	(a)	73,900	al all liquid	b balling		ent alles	eese ba	
Over 50 watts anode dissipation	(a)	214	3 8 8 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Zigazona Railabelo		o the lone and	der Seg	
Semi-conductor devices (excluding power rectifiers)	of Lie of the	Asultan a	a trace					
Photo-sensitive transistors Semi-conductor transistors	sea of all	3 to 5	(a)	94 30 1 303 0 9 1	espenioni eralizati	46,580	11	13
Semi-conductor signal diodes not exceeding 200 milliamperes current rating	9,189	11,663	(a)	(0) es si sis	NE COOP	14,506	7	8
Semi-conductor rectifiers, diodes, controlled rectifier elements and cells, singly or as parts of stacks above 200 milliamperes current rating	Secondarius Second	182 (1974) 182 (1974)	28,507	bricki) g lie p	epila so	31,072	12	14

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

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963 Firms employing 25 or more persons: United Kingdom

The second secon	198	54	1963	
	Quantity	Cost	Quantity	Cost
aterials for processing	Th.tons	\$,000	Th.tons	£'000
Iron	mheil kyras	hin [1,884	
Pig iron, including refined pig iron, and other irons for re-melting	} { 0.5	61 17	1.6	87 24
Castings	,	India I	0.270	
Steel			0203 12010 70218 5255	
Ingots, blooms, billets, slabs, and sheet and tinplate bars	4.3	247	1.4	144
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (a)	7.5	427 73	} 13.8	1,368
Plates, 3mm. thick and over	1,	}	1.5	113 32
	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	348 J	15.1	1,117
Hoop and strip (including tape of all thicknesses)	1)	l	15.1	1,111
Sheets under 3mm. thick (including electrical sheets)	16.6	1,109	31.1	2,270
Tinplate, terneplate and blackplate	1.7	111 {	0.2	23 23
Forgings (except drop forgings)		31	0.2	51
Castings		34	5.1	97
Iron and steel not elsewhere specified except finished parts, wire and scrap	ET (a)		Sport 1113	
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc.)	0.1	18 {	1.0	134
Other	1.0	43 100	5.3	75 16
Steel wire and wire manufactures, including wire cables and ropes but excluding insulated wires and cables (b)	0.4	24 10	0.9	6
Springs, laminated and other types (c)		113		48
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap	11 621			
Aluminium and aluminium alloys	5.8	1,852 683	9.1	3,78
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel	men		4.5	1,57
alloys)	4.9	1,561	inias (- 203	26
Copper (excluding blister) (d)	0.7	258 35	1.2	55
Lead and alloys of lead (excluding solder)		21		2
Zinc and alloys of zinc	0.8	79 13	3.2	27
moral according property (Merchantes of Cantalant)	Th.cwt.		Th.cwt.	
Contest takings	0.3	11	1	
Tin		4	0.5	2
Solder, soft		256	•••	49
Uninsulated wire and cables of non-ferrous metals	massasist.			
Copper (e)	786 B.156	381	0 756 151	72
Other non-ferrous metals (e)		345	1963 IB63	1,00
Bitumen and bitumastic compound	and govern	8	2 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	

TARLE 10 (continued)

1964 1969		54	1963	
	Quantity	Cost	Quantity	Cost
Materials for processing (continued)	7 State	£,000	and the same and	£'000
Glass in all forms, including finished parts	(S.Dullysta	5,265	griller (wee)	5,678
Ferrite Technology of the Perite Technology of	bello ros	(f)	gar shawards	564
Insulating oils		52	Chart	100
Mica Mica			21.1	
Block and splittings	wasin.com	213	tralused to	474
Built-up (Micanite)	Martin has	36		192
	Th.gal.	rost tol	Th.gal.	en menarana Magrechalde
board (except sulkivel) sack);	260	299)	369 Th.cwt.	523
Paint and varnish (including lacquers and stains)	33d3 sag	53)	11.9	filed 1
		spinters	oon best sea	8
Paper and paperboard, including press-board and paper yarn, tubes, etc. (excluding packaging materials) Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	arozon ola	673	-ouron less on was in ord randwood in	1,004
Polyethylene and polypropylene and co-polymers: granules, moulding and extrusion compounds	1	[{	14.2	193
Polyvinyl chloride (including co-polymers): resins, solutions, emulsions, dispersions, moulding and extrusion compounds	o pal ajnea - Pio .eleje	ordent lo	124	97 21
Polystyrene moulding and extrusion compounds	Paldar hot	1	10.1	14
at and description (1884)		(f){	5000	70:
Phenolics and cresylics	1		ss unitable	
Resins, solutions, emulsions, dispersions, moulding and extrusion compounds	Adres ins	4	23.5	23 36
Industrial laminates, cast sheet, laminated or cast rod, tube and profile shapes	The pair of	1 7 7 7 7 7 7 7	56.5	97- 26
Thermosetting polyesters (including epoxide resins and resin glass fibre mixtures)	lizza (anduz ye	[{	8.6	25 25
Porcelain and other ceramics in all forms		700		1,56
Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms, including finished parts	The Charma Node babel	608	The Charms	85
Timber 1990 - 19	Wolfossi my		OJOH TRIOS	
Softwood and hardwood, manufactured or semi- manufactured (i.e. further prepared than sawn or	ine prises		101,813970	
planed)		185	atverbis I	57
propriate propri	Th.sq.ft.		Th.sq.ft.	
Plywood, including blockboard, laminboard and battenboard	3,598	204	4,234	28
Textiles (excluding packaging materials)	many managing			
Yarn, thread, tape and cloth, not oiled or otherwise	STATE OF THE PARTY		n washing a	
coated or impregnated with insulating materials	Th.lb.		Th.lb.	
-log-ST New Ji	01.4	102	52.1	2
Of cotton	81.4	43 U 146 J	Th.sq.yds.	2
	pathelant	abanava fo	122	1
			Th.lb.	
ter impacting "Proposica" too open),	47.6	3:
Of man-made fibres (rayon, nylon, etc.)	30.7	21 U 46 N	Th.sq.yds.	Replan
by the total quadricular contractly processed to Taxan'	wate bureus.	Service of the	99.4	20

TABLE 10 (continued)

THE CONTRACTOR OF THE CONTRACT	198	54	19	63
Contract Cont Cont Cont	Quantity	Cost	Quantity	Cost
laterials for processing (continued)	Campa I valor	£,000	Th.sq.yds.	£,000
Textiles (excluding packaging materials) (continued)	sa decadati	getietoni	amolulis	
Yarn, thread, tape and cloth, not oiled or otherwise coated or impregnated with insulating materials (continued)			allo je	
Of silk	Tan.	4	15.5	13
Electrical insulating materials not elsewhere specified		142	kartige bou	738
Insulated wires, cables, strips and strands (e). Purchased components for incorporation in firms' own products	••	2,921	3.4	4,818
Ball and roller bearings and parts thereof	bee wromen	143	dakarer h	431
Batteries and accumulators		36		644
Fractional horse-power electric motors (i.e. less	pd-500 to b		seod toquu da	
than one horse-power)	}	109	-5610 1830	1,596
Internal combustion engines	J REDLEMA		r apa, evel	
Loudspeakers and microphones	1-00 by 50	1,349	has seited	2,268
Magnets, permanent	DOC MODE TO LEE	1,175	ablibon, es	1,055
Measuring and control instruments including ammeters, voltmeters, thermostats, etc.	rost sects	680	A TOLES AND SAND SAND SAND SAND SAND SAND SAND	4,00
Radio, radiogram and television cabinets				
Of wood	oca nos sug	7,441	1000 010070	10,51
Of plastics materials		562	no bes. and	85
Valves, electronic (other than X-ray valves), electronic stabilising tubes and cathode ray tubes, excluding mercury pool rectifiers	Thousands		Thousands	and non-153
THE COURT OF THE C	290	125	8,725	4,83
Transmitting and industrial		604		99
Other (including cathode ray tubes)	26,347	11,364 {	7,297	8,83 5,59
Semi-conductor devices	n stated	(f) {	42,076	7,73
Electrical machinery not included above, e.g., generators, motors (other than fractional horse-power motors), converting machinery, static rectifiers, transformers for lighting, heating and power, starting control and switchgear, etc., and parts thereof	scratted or	589	and Bals block	5.84
Other purchased electrical components, including parts and accessories (pick-ups, automatic record	400	1,181	4.5	analij
changers, etc.) for gramophones and radiograms, not elsewhere specified	ednigai ,61	17,060	Spending the spend	44,49
Other finished parts not elsewhere specified	water talks		nibulges) is	all radio
Wholly or mainly of plastics materials	1110 Ju. 1	1,852	of abasessi	4,60
Other, except those of rubber and glass	••	11,258	parder so in	26,58
c can be a se	Th.gal. 162	37	Th.gal. 375	13
Lubricating oils and greases (including cutting oils and emulsions)	Th.cwt.	25 {	Th.cwt.	1 7
Parlament same for firm, and marking along all		·		
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	in only the	2,020	t ohm-ma	3,88
All other materials for processing		18,813	en un senson un prign	21,42

TABLE 10 (continued)

		19	54	1963	
		Quantity	Cost	Quantity	Cost
		Salar Salar Salar	£,000		£,000
ackaging materials		The state of the s	As VINLEY	System is	
Paper and board		Carrier Street	71004	500	a Checker
	cking cases, and drums and without metal ends) of paper, eboard			Chainning	3,258
plastics and any l not metal), moulde	cluding paper coated with aminates incorporating paper but d pulp units, labels and other	gay: ·ol	1,667	19 18630 03	ggzgwys5
board (except mult	s of paper, cardboard and fibre-iwall sacks)				733
Timber '			1974		SH SM GREE
Containers wholly boxes and drums, b	or mainly of wood, including plywood askets and wickerwork crates		James	******	865
	aned) for manufacture into packing	5727,50% as	5881{	Th.cu.ft. 92.9	55
cases, etc.			٥٥٥	••	16
D1	Table 1 Secured 1		r	Th.sq.ft.	17
Plywood for manufa	cture into packing cases	J	[]	••	17
Sheet, film, foams, (including bags and	etc. wholly or mainly of polyethylene lay flat tubing)]	560{	michemosto • • pro-	147
All other packaging	materials				245
uel and electricity (g)	Th.tons		Th.tons	
Coal		72.2	306	41.0	233
Coke (including scre	enings) and manufactured fuel	18.7	108 {	9.2	78 24
		Th.gal.		Th.gal.	
Derv fuel and motor	spirit for use in road vehicles	1,215	248 {	1,716	33 7 180
Other liquid fuels (mixtures, etc., and	including creosote/pitch liquefied petroleum gases)	5,700	256	24,799	1,037
Gas		Th.therms 9,049	539	Th.therms 10,428	811
		Th.kWh	\$81 LT 65 a	Th.kWh	
Electricity		232,820	1,359 {	489,015	2,896 748
Total cost of	materials and fuel			Kata Japan III	design Energy
oods purchased for me		epiane tari	101,010	S. AND NO. 20	209,331
anteen purchases	renanting	sur he soil	LE TRANSPORT AND	i galamail	33,972
Total cost of	purchases 300 %				
lotal cost of	purchases		80.00	District Control	245,25

- (a) 'Pillars rolled (not fabricated) including tube rounds and squares' not included for 1954.
- (b) Main heading for 1954 covered 'Iron and steel'.
- (c) Described for 1954 as of 'steel' only.
- (d) 'Blister' was not specifically excluded for 1954.
- (e) Including 'flexibles' for 1954.
- (f) Not recorded separately for 1954.
- (g) The total quantity of electricity generated in firms' own establishments cannot be given owing to the risk of disclosure of information relating to individual firms.

TABLE 11 Transport costs and employment of larger firms, 1963

•	Unit	1963
Average number employed mainly on transport	No.	1,393
Transport costs	Table 1	
Wages and salaries	£'000	1,019
Derv fuel and motor spirit	TOURS TO A	518
Payments to other organisations for transport	/ In in	2,228
Costs of operating road goods vehicles	totto bea s	latel va
Insurance		114
Vehicle licences	en antiquitant	60
Depreciation	4923 12 23	722
Payments to other organisations for repairs and maintenance	raig nas þi	196
Total		4,857

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

eminaria and another and an another and a	Amounts payable
Repairs and maintenance to	£,000
Buildings	982
Road goods vehicles	196
Plant, machinery, and other capital equipment	1,487
Insurance, licensing and depreciation of road goods vehicles (b)	897
Rates, excluding water rates	2,535
Hire of plant and machinery	764
Postage, telephone, telegrams and cables	2,404
Total	9,266

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

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963

Firms employing 25 or more persons:
United Kingdom

Year ended	Percentage of total number employed	Year ended	Percentage of total number employed
1963	Per cent.	1963 (contd.)	Per cent.
April (a)	9.8	November	1.2
Nay	0.3	December	34.0
June	18.1		
July	0.5	1964	CANEC NO CONTRACTOR
August	1.0	January	1.2
September	5.3	February	0.8
October .	0.7	March	27.1
	Whose core of	Total	100

⁽a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

⁽b) For details see Table 11.

Capital Expenditure (continued)

(ii) Land and existing buildings.

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

Enterprise

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

Establishment

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other

ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

Gross Output

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

Net Outpu

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

Net output per person employed

The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other

services rendered to other organisations. It includes amounts credited for similar services rendered to other departments of the same firm not covered by the return.

Small Firms

These are firms in which fewer than twenty-five persons were employed on the average during the

Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments

Transport Payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and Salaries

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded; in Northern Ireland this exclusion extends also to payments to directors of limited companies. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to National Insurance and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

Symbols used

The following symbols are used throughout the

- Not available
- Nil or negligible (less than half the final digit shown)
- Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

Rounding of Figures

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

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- 44 Industrial Engines
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