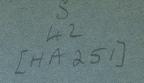
BOARD OF TRADE



The Report on the Census of Production for 1954

Volume 4: Industry I

MECHANICAL ENGINEERING (GENERAL)



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

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The Report on the Census of Production for 1954

MECHANICAL ENGINEERING (GENERAL)

THIS REPORT on the Mechanical Engineering (General) Industry relates to establishments engaged wholly or mainly in the manufacture of mechanical engineering products, other than Marine Machinery, Machine Tools, Textile Machinery and Accessories, Small Arms, Constructional Engineering, Mechanical Handling Equipment, Printing and Bookbinding Machinery or in Mechanical Engineering (Repairing) which are covered by separate reports (Volume 4, Industries B,C,D,E,F,G,H and J respectively).

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

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VOLUME 4 INDUSTRY I

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in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separ-ate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the re-port relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works. Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

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. The value of sales is the net selling value, i.e., 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.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

The following notes describe terms in general use ing oil, gas and electricity) for all purposes: packing he tables of the report. More detailed explana- materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own workpeople included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

> Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

> Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

> Employment: Total employment includes working proprietors, administrative, technical and clerical employees. and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

> Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

> Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

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

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries). Symbols used.

- .. for not available
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

TABLE 1 Gross output (production) Net output Total stocks and work in progress At beginning of year Change during year Capital expenditure less disposals (a) Wages and salaries Total employment (including working proprietors) (a) Capital expenditure on new building work, and on plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of. Summary of returns received TABLE 2

FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERS

Number of establishments Total value of sales and work done Products on hand for sale {at beginning of change during ye and work in progress Gross output (production) (b)

Purchases of materials and fuel Stocks of materials and fuel {at beginning of change during yes Cost of materials and fuel used Payment for work done on materials given out

Payment for transport (c)

Net output foperatives others Average number of employees Total employment (e) Net output per person employed (e) fof operatives Wages and salaries of others

Capital expenditure New building work (f)

Vehicles

Plant and machinery

acquisitions (f disposals acquisitions (f disposals

FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSO Number of returns

Total employment, including working proprietors

- (a) Including 149 establishments employing 10 or fewer persons, particulars of which were included with those of
- (b) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.
- (c) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover
- (d) Number in week ended September 25, 1948.
- (e) Excluding outworkers and including working proprietors.
- (f) Excluding expenditure for establishments not yet in production.
- (96209)

MECHANICAL ENGINEERING (GENERAL)

Industry summary

Estimates for the industry as a whole

	Contraction of the second second			
assertion	United Kingdor	n anta a S	Scotland	Wales
1948	1951	1954	1954	1954
£ million	£ million	£ million	£ million	£ million
496.0	763.6	986.7	136.37	19.24
271.1	381.4	514.1	72.01	9.67
+ 174.5	239.5 + 57.0	+ 372.8 + 2.3	+ 56.63 + 0.65	5.90 + 0.50
17.5	31.4	36.8	5.33	0.88
164.1	226.2	299.3	41.40	5.82
Thousands	Thousands	Thousands	Thousands	Thousands
486.4	555.8	598.9	83.95	11.55

	Unit	Great Britain	United	Kingdom
		1948	1951	1954
SONS				and the second second
an shu ta suu t	No.	2,765	2,955	3.0846
I onto ini	£'000	453,694	709,940	946,959
year		114,575	164,253	251,925
ear		+ 19,111	+ 29,865	+ 6,192
	**	468,951	739,805	953,150,
		211,269	370,284	416,316
year		50,427	67,819	108,231
ear		+ 9,129	+ 25,314	- 3,986
ine india		202,140	344,970	420,302
Tarifor.		10,466	16,073	25,194
and a state		3,854	9,252	11,030
in interest		256,345	369,509	496,624
and a red and	No.	358,379	413,783	436,856
A PARTY AND		101,085(d)	124,345	141,448
and the second second second second	icheman	459,818	538,477	578,586
20 82	£	557	686	858
26,9201	£'000	113,473	158,852	206,195
1 553. 1		41,647	60,283	82,904
29, 673		C. TOO		ng ni stras is n' transmission
		3,793	6,579	8,023
1 and the second second		13,136	22,616	26,132
		1,507	1,751	2.077
		1,318	2,782	3,107
and a state		222	542	874
NS		Constant and all that	The second	and the second of the second
820.71	No.	3,042	2,334(g)	2,785
B TOTA RA		17,047	14,327(g)	16,846

larger establishments on single returns. For 1948 and 1951 such establishments were not separately counted; on the same basis the number of establishments in 1954 is 2,935.

payments for transport of both finished goods sold and materials and fuel purchased.

(g) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

MECHANICAL ENGINEERING (GENERAL)

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

4/1/4

Average number	Estab-	Gross	Net	Emplo	yees	Wages and	salaries	Capital	Net output per person
employed (a)	lish- ments	output	output	Operatives	Others	Operatives	Others	expenditure (b)	employed (a)
and the the factor	Number	£,000	£, 000	Number	Number	£'000	£' 000	£'000	£
11 - 24(c)	806	17,444	9,714	9,845	2,521	4,321	1,558	642	778
25 - 49	738	40,671	20,983	20,509	5,582	9,153	3,402	1,398	801
50 - 99	549	58,242	31,566	30,116	8,434	13,307	5,087	2,252	818
100 - 199	405	95,945	50,511	43,234	13,950	19,861	8,518	2,946	883
200 - 299	168	74,483	37,414	30,682	10,593	14,393	6,329	2,779	906
300 - 399	96	52,282	26,848	24,143	8,355	10,952	4,855	1,606	826
400 - 499	75	57,329	29,636	23,869	9,283	10,957	5,581	1,616	894
500 - 749	86	91,458	45,473	38,342	14,192	18,118	8,125	3,490	865
750 - 999	46	70,993	35,121	29,394	10,676	14,131	5,966	2,587	876
1,000 - 1,499	51	104,592	52,937	46,781	14,475	22,886	8,383	4,410	864
1,500 - 1,999	22	68,913	34,603	29,800	8,261	14,089	4,814	2,446	909
2,000 - 2,499	17	66,124	35,049	28,195	9,485	14,054	5,244	2,899	930
2,500 - 2,999	12	54,959	30,603	23,520	9,261	12,023	5,382	3,038	934
3,000 - 3,999	7	39,144	19,954	18,656	6,065	8,905	3,377	2,098	807
4,000 and over	6	60,571	36,213	39,770	10,315	19,047	6,284	3,054	723
Total	3,084	953,150	496,624	436,856	141,448	206,195	82,904	37,262	858

(a) Excluding outworkers and including working proprietors.
 (b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles, excluding expenditure for establishments not yet in production.

(c) Including 149 establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

TABLE 4	in all			Special	list prod	ucers of	e territori	लक्षण्ड्य
444, 544, 544, 964, 144, 15 144, 15	Unit	Ball and roller bear- ings and parts	Trans- mission and pre- cision chains	Pistons, piston rings, packing rings etc.,and cylinder liners, and inserts	Office mach- inery and parts	Rolls of iron or steel for metal roll- ing mills	Indus- trial valves and cocks	Agri- cul- tural mach- inery (except trac- tors) and parts
Number of establishments Total value of sales and work done Sales of characteristic products Products on hand for sale at beginning of year and work in progress change during year Gross output (production) Purchases of materials and fuel Stocks of materials and fuel Cost of materials and fuel used Payment for work done on materials given out Payment for transport	 	26 29,925 28,260 6,732 - 253 29,673 11,331 3,091 - 170 11,501 182 154	9 7,711 7,065 1,229 - 187 7,525 2,430 1,037 - 128 2,558 } 132{	$ \begin{array}{r} 17\\ 8.456\\ 7.323\\ (a)\\ -12\\ 8.444\\ 3.076\\ 545\\ -27\\ 3.102\\ 1\\ 71\\ \end{array} $	73 28,659 26,500 8,702 + 996 29,655 9,906 3,056 3,056 - 189 10,096 386 227	$ \begin{array}{r} 10\\ 4.842\\ 4.236\\ 399\\ - 7\\ 4.836\\ 2.422\\ 279\\ + 23\\ 2.399\\ 36\\ 102 \end{array} $	80 23,944 20,229 4,944 - 176 23,767 8,676 3,431 - 41 8,716 663 303	131 29,720 24,432 3,403 + 906 30,626 16,727 4,727 - 130 16,857 707 751
Net output Average number of operatives employees (others Total employment (b) Net output per person employed (b) Wages and salaries of operatives of others	No. E E' 000	17,836 18,479 4,743 23,222 768 8,232 2,460	4,835 4,040 1,404 5,444 888 1,891 1,087	5,268 6,453 1,249 7,702 684 2,912 648	18,946 17,982 5,161 23,143 819 7,786 2,750	2,299 1,684 389 2,075 1,108 886 248	14,084 11,858 3,626 15,493 909 5,451 2,059	12,312 11,020 3,046 14,092 874 4,636 1,820
Capital expenditure New building work (c) Plant and machinery {acquisitions (c) disposals Vehicles {acquisitions (c) disposals	 	308 1,219 25 59 15	1 550	(a) 235 15 11 2	267 1,236 29 60 10	<pre>500 { 1 2 1 </pre>	106 705 33 77 32	61 432 8 141 55

TABLE 4 (contd.)

Number of establishments Total value of sales and work done Sales of characteristic products Products on hand for sale {at beginning of year and work in progress { change during year Gross output (production) Purchases of materials and fuel at beginning of year change during year Stocks of materials and fuel Cost of materials and fuel used Payment for work done on materials given out Payment for transport Net output Average number of {operatives others employees Total employment (b) Net output per person employed (b) {of operatives of others Wages and salaries Capital expenditure New building work (c) {acquisitions (c) disposals Plant and machinery {acquisitions (c) disposals Vehicles TABLE 4 (contd.) Number of establishments Total value of sales and work done Sales of characteristic products Products on hand for sale {at beginning of year and work in progress { change during year Gross output (production) Purchases of materials and fuel Stocks of materials and fuel and fuel and fuel used [at beginning of year change during year Payment for work done on materials given out Payment for transport Net output Average number of foperatives employees others Total employment (b) Net output per person employed (b) fof operatives Wages and salaries lof others Capital expenditure New building work (c) {acquisitions (c) disposals Plant and machinery

Vehicles

{acquisitions (c) disposals (a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given. (b) Excluding outworkers and including working proprietors.
 (c) Excluding expenditure for establishments not yet in production. (96209)

MECHANICAL ENGINEERING (GENERAL)

t to cal	a_adversed	et Mases	Specia	list pro	ducers of		
Unit	Air con- dition- ing, heating and venti- lating appar- atus, and parts	Boilers and boiler- house plant, and parts	Mining mach- inery and parts	Gas meters and parts	Stat- ionary inter- nal combus- tion engines and parts	Pulp- making and paper and board making mach- inery and parts	Pumps and pump- ing mach- inery, and parts
No. £'000	164	48	60	57	44	28	76
£ 000	20,984	51,048 37,199	31,497 28,363	8,244 5,936	43,893 28,891	7,589	26,950
	3,129	12,879	5,244	1,184	11,806	7,017 2,536	22,731 5,800
	+ 811	+ 1,451	+ 511	+ 51	+ 485	- 188	+ 7
	21,794	52,499	32,008	8,295	44,378	7,401	26,957
	9,493	23,562	15,900	3,693	22,809	3,868	13.144
	1.749	4,980	3,458	836	5,285	572	2,192
	+ 96	- 448	- 375	+ 62	- 464	- 36	+ 122
	9,397 311	24,010 821	16,275	3,631	23,272	3,904	13,022
	271	885	1.707 352	60 60	1,054 521	110	879 265
					125 1. 3	N	1200120-1
No.	11,815 9,492	26.783 21.321	13,675	4,543 5,713	19,530 17,370	3,309	12.790
	3.764	7,995	3,523	937	6,261	2,319	9,455 4,363
	13,286	29,316	13,804	6,651	23,633	3,400	13,825
£	889	914	991	683	826	973	925
£'000	4,556	11,134	4,920	2,394	8,295	1,130	4,400
	2,166	4,857	2,196	525	3,421	624	2,543
h	1						
	147	418	293	21	125	153	108
	188	1,409	685	144	1,086	243	491
	2	73	22	14	65	3	29
	115 29	155	99	16	118	17	99
	29	38	21	12	47	6	23

		and Alace Dials		August and a second		and the house is	
1			Spec	ialist pr	oducers	of	the same
Unit	Refri- gera- ting mach- inery and parts	Sewing mach- ines and parts	Tanning and leather working mach- inery, and parts	Ord- nance (except small arms) and parts	Scales and weigh- ing mach- inery, and parts	Remain- der of the industry	Total
No. £'000	41 33,811 29,556	33 13,740 11,563	5 855 806	151 83,394 63,255	47 7,735 5,938	1,984 483,961	3,084 946,959
 	7,557 + 505 34,316	(α) - 455 13,285	173 - 9 846	28,579 - 1,617 81,777	1,186 - 139 7,596	$140.399 + 3.513 \\ 487.474$	251,925 + 6,192 953,150
 	18,505 3,805 + 386	4,282 2,104 - 99	358 99 - 6	36,108 15,660 - 2,150	2,456 889 + 64	207,570 50,434 - 477	416,316 108,231 - 3,986
	18,119 936 491	4,381 24 104	364] 14 {	38,258 1,992 374	2,392 84 135	208,047 15,180 5,801	420,302 25,194 11,030
No.	14,769 11,020 4,827 15,848	8,776 12,141 1,464 13,608	469 560 174 735	41,152 46,502 9,279	4,985 4,238 1,313	258,446 214,929 76,852	496,624 436,856 141,448
£ 000	932 5,757	645 5,002	638 240	55,794 738 22,239	5,556 897 1,914	291,959 885 102,419	578,586 858 206,195
	2,625	1,056	94	5,599	826	45,298	82,904
	151 453 20	(α) 745 15	16	650 3,821	148 196	4,629 12,046	8.023 26,132
•• •• ••	84 16	16 8	5	1,086 171 57	11 21 9	616 1,811 485	2,077 3,107 874

4/I/5

MECHANICAL ENGINEERING (GENERAL)

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

The second se	19	51	i denera	1954	
Advances and state and state and state	Quan ti ty	Value	Quan ti ty	Value	Entries
PARTS OF MACHINERY, SOLD SEPARATELY		£'000		£'000	Number
Bearings and parts thereof		Mar Landstein			in a start of the start
Ball and roller bearings and parts thereof (excluding non-precision balls for ball-point			ben States in		n n n n n n n n 1 n n n n n n n n 1 n n n n
pens, etc.)	••	22,288	the second second	28,491	67
Other bearings (e.g. plain) and bushes		8,326		9,452	78
Burners			A set bars	adali iden ko	Section 201
Oil fuel burning equipment	••	2,021	· · ·	3,002	50
Other	··· - /	102	11. · ·	550	23
Chains		A STATE OF A STATE	A THE REAL AND A		- Support
Steel transmission		Las Jones and	an ana la		a since size
Roller type		and an advance of the second			
Up to and including 0.625 in. pitch		1 450	anne and really		
Not over 0.2 in. width between plates	••	1,453		1,115	9
Over 0.2 in. width between plates	•••••	1,652	and the second	2,341	7
Over 0.625 in. pitch	••	1,778	••	2,375	23
Other than roller type		255		270	27
Precision chains, other than transmission chains		582		739	8
Transmission chains of iron	BARRA CAL VINE	(a)	A LANDARD C	440	5
and the part of the second second	Thousands	a superior and the second	Thousands		and a second second
Cylinder liners and inserts	1,541	1,006	1,360.9	1,101	27
Gears and gear wheels					
For vehicles	Andrew Martin	1,131		1,284	32
Other than for vehicles	- re 16.	7,254		8,445	199
Unclassified		841		1,235	13
Oil seals		2,208		2,510	31
Pistons	Long .	3,924		3,944	40
Piston rings, packing rings, etc.		2.072		2,836	45
Pulleys and pulley wheels		1,442		1,385	107
Rolls of iron or steel		1. 推了 1. 日间的	and the second second second		and the second
For metal-rolling mills	State 1 and	Arrente Tougart	mation made and		
Cast iron .	Tons 39,650	2,797	Tons 43,467	3,992	33
Cast steel	17,773	1,458	21,672	2,620	22
Other		d	99	8	h
Other	19	5 1		20	3 .5
For machinery, other than metal-working		and and any	a ta cu pigran an		
Cast iron	7.423	637			
Other	269	35	6,092	593	46
Valves and cocks for the control of liquids, steam and gases (excluding inlet and exhaust valves for internal combustion engines)			an un an an		
Wholly or mainly of iron or steel	(35,501	11,333		18,901	171
Wholly or mainly of other metals and alloys	33,301	12,728 (b)		ALTER ALTER A	The state of
(excluding domestic cocks and taps of brass and other copper alloys)				10,876	248

TABLE 5 (contd.)

Kind of output (i) Complete machines, etc.		19.	51		1954	
(ii) Parts	on inst	Quan ti ty	Value	Quantity	Value	Entries
MACHINERY, AND PARTS THEREOF N ELSEWHERE SPECIFIED	IOT	No.	£°000	No.	£,000	Numbe r
Agricultural machinery, other than tract	ors			a ha encol		ng dan saka Ng kanalang
Ploughs	(i) (ii)	69,108 	2.492 1.097	33,285	1,701 863	12 25
Cultivators and grubbers	{ (i) { (ii) }	31,429	2,707 23 531	23,305	2,198	29
Disc harrows	{ (i) (ii)	14,730 	770 555	4,709	344 401	10 15
Planters, drills and seeders	{ (i) { (ii) }	20,006	1.241 14 137	7.453	433 205 144	33
Insecticide and similar spraying machines	{ (i) { (ii) }	31,513	651 298 271	32,720	989	23
Hay and grass mowers, including mowing attachments for tractors, other than rotary blade type	H S S .	 32,948 	1,678 20 377	 10,167 	206 585 1,095 333	23] 17 23
Reapers and binders	{ (i) (ii)	1,645	313 310	506	122 170	9
Combine harvester-threshers	{ (i) { (ii) }	5,720 	5,384 26 819	} 4.874 	5,649 1,062	6 22
Potato and sugar beet lifters	{ (i) { (ii) }	4,596	253 11 105	2,710	302 116	21 24
Threshers	{ (i) (ii)	1,377	474 104	984	317 52	8 12
Hay and corn elevators	{ (i) (ii)	4,635	459 57	3,548	454 61 72	25
Grain and grass driers	{ (i) { (ii) {	679 	645 88 84	829	501 151 120	} 28
Sheep shearers and clipping machines	{ (i) (ii)	32,960	245 197	16,376	232 202	
Nilking machines	{ (i) { (ii) }	9.447	1,338 30 899	5,725	747 558 933	8
Other agricultural machinery	{ (i) (ii)		11,540 1,720		13,252 2,827	243 211
Unclassified agricultural machinery Complete	and the		1.055	and the second	and a spectrum	Elane t
Parts			1,357 2,485		993	12
Unclassified	inten -		530		1,952	12
lir and gas compressors and exhausters an other pneumatic appliances	nd					
Air compressors and exhausters, other to compressors supplied with paint spray equipment	than ing			-		- Canada and
Stationary						
Reciprocating				, Timer Cars		
Under 200 cu.ft, per minute	{ (i) { (ii) {	24,280	2.085 108 322	21,205	2.293 270 435	} 44 34
200 cu.ft. per minute and over	{ (i) { (ii) {	835	1,177 131 359] 1,554	1.884	20

MECHANICAL ENGINEERING (GENERAL)

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MECHANICAL ENGINEERING (GENERAL)

TABLE 5 (contd.)

Kind of output		195	1		1954	Care and
(i) Complete machines, etc. (ii) Parts	- Value	Quan ti ty	Value	Quan ti ty	Value	Entries
MACHINERY, AND PARTS THEREOF N ELSEWHERE SPECIFIED (contd.)	TO	No.	£°000	No.	£°000	Number
Air and gas compressors and exhausters pneumatic appliances (contd.)	and other			and vertice . "		distant Antipation
Air compressors and exhausters, othe compressors supplied with paint spra equipment (contd.)	r than aying	54. A. 428 1929 - 10				
Stationary (contd.)					00.0	00
Rotary	{ (i) (ii)	15.335	631 112	14,605	922 180	29 21
Turketturg	ſ (1)	30	363	5,591	689	12
Turbo-types	(ii)	100.00	118		71	7
Portable	{ (i) {	5,943	2.119 740	4,921	2,959 718	} 26
	l(ii)	616.14	.427	and young to fail a	900	27
Gas compressors and exhausters	{ (i) (ii)	1,308	1.028 269	1.609	1.779 225	27
Other pneumatic appliances, not elsewhere specified	Sara.1	899.85	10 parts	a individuo a		
Complete	Log		313		1.388	51
Parts	1 TE		372		321	27
Unclassified	186.3		167	•	• ***	•
Air conditioning, space heating and ve plant and appliances, including waste fumes, heated air, steam or vapour co and extracting, but excluding fans so such and gas appliances	. dust, llecting					
such the gas apparances	c co d	2,909	279	7.532	82.8	1 40
Boilers for central heating (c)	$\left\{\begin{array}{c} (i) \\ (ii) \end{array}\right\}$	••	23		474 191	26
The second second second	(11)	15,356	166	34,370	370	h
Hot air, water and steam radiators, other than those for use with gas	(i) {		354		798	22
or electricity (d)	((ii)		63		87	11
Heater batteries and unit heaters	(i) {	28,962	761	37,806	1,126 295	42
Neuter Mitterres and unit houters	(ii)	••	70		225	22
the second se	Rei			(i){ ^{21,315}	43 9 84 8	39
Air filters, washers and scrubbers	SCE, L	S	(α)	(ii)	253	28
Plenum systems (c)	∫ (i)		5,008	1	2,057	12
Plenum systems (e)	(ii)	••	519		180	8
Ventilators, hoods, booths, cowls, du and similar sheet metal work for ai			1241.			
conditioning, etc. plant		••	3,743		8,038	405
Other descriptions, not of cast iron elsewhere specified	. not					
Space heating plant and appliances	{ (i) (ii)		850 336		1.750 317	37
Other	{ (i) (ii)	••	3.673		3,527	56
the second of the second of the		1,137	23	2,271	52	6
Automatic slot machines, other than weighing machines	(i) {	••	159		154	8
	(ii)	•••	16		31 191	6
Battery and cell making machinery, not elsewhere specified	(i) (ii)	••	87		109	14
Boilers and boiler-house plant, other boilers for ships and locomotives, bu and furnaces			in t			
Boilers	ALC: N		(4)	to the alternation		
Water tube	{ (i) (ii)	••	9,484		15,130 1,258	31
	(,,]	1 1	-,=	1

TABLE 5 (contd.)

Kind of output (i) Complete machines, etc. (ii) Parts

(ii) Parts	國
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	
Boilers and boiler-house plant, other that boilers for ships and locomotives, burned and furnaces (contd.)	rs
Boilers (contd.)	
Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes but excluding boilers for	{ (i)
central heating Boiler-house plant, sold separately	(ii)
Fuel economisers, feed water heaters and steam superheaters	(ii) (ii)
Boiler firing plant	
Mechanical stokers	{ (i) (ii)
Other boiler firing plant	{ (i) (ii)
Other boiler-house plant	{ (i) (ii)
Bottle-washing machinery	$\begin{cases} (i) \\ (ii) \end{cases}$
Boot and shoe making and repairing machinery other than sewing machines	$\left\{ \begin{array}{c} (i) \\ (ii) \end{array} \right.$
Bottling, packing, canning, packeting and labelling machinery	
Bottling and capping	$\begin{cases} (i) \\ (ii) \end{cases}$
Canning	$\begin{cases} (i) \\ (ii) \end{cases}$
Filling and closing machinery for solids and semi-solids	$\begin{cases} (i) \\ (ii) \end{cases}$
Labelling	${(1) \\ (1)}$
Packing and wrapping	{ (i) (ii)
Brick, tile and cement block making machinery, other than kilns	{(i) (ii)
Cable making machinery	$\begin{cases} (i) \\ (ii) \end{cases}$
Cement making machinery, other than kilns	{ (i) (ii)
Centrifuges, other than cream separators and hydro-extractors for use in laundries	{ (i) (ii)
Chemical making machinery and plant, not elsewhere specified	
Mineral-oil refining	{(i) (ii)
Oil (other than mineral) extraction and refining	(i) (ii)
Paint, varnish and ink making	$\begin{cases} (i) \\ (ii) \end{cases}$
Soap and fatty acid making	(i) (ii)
Other chemical machinery and plant	
Unclassified Complete	
Complete Parts	101
Unclassified	

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MECHANICAL ENGINEERING (GENERAL)

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	195	1		1954	SILTON AND
Quan	tity	Value	Quantity	Value	Entries
No		£°000	No.	£°000	Numbe r
		•	and the second s		
			e marchine e		
	and		- president data and a		a new T
			a second to the second second		
	:	5,267 743		5,833 532	61 52
		A STREET	el statuti i		a trace
80 C K.	:	5,310 462		5,892 634	26 28
			Carlonaury a		
		2,039 1,092		2,688	33 30
		773 209		1.759 329	23
OK L. L		6,321	ity - units a	9,742	27 61
•		1,740 2,015		2,112	88
:		339		1,455 385	23 41
1.2134.12		1,105 1,140		1,338	24
	.	2,129		1,802	38
•	•	420 349	And a Minda	508	46
	:	349 88		629 245	13 22
:	Sector Contractor	595 70	and Long	880 126	20 13
	2341101-12413-14	759	Anal Line	n an	
	:	195 3,545	(i) (ii)	2,903	53 49
•	•	515 J			
:		912 925		1,240 1,161	55 94
		637 172		2.034 398	20
		521	h	1,896	41
3.03	A CONTRACTOR OF STREET	413 1,812	J		41
	•	17 534	2,541	1,982 780	20
47.1		004		780	18
67		761		4,115	15
••	•	437		252	33
		887 737		1,512 273	23 24
		549 154		627 183	31 34
		446		320	20
		28		73 7,440	26
		(f)	{(i) (ii)	2,622	127 173
		257	The state of the second s	4.229	29
		227		121	
		4,495		-	

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Other

Complete

Unclassified

Coal preparation plant

For steam turbines

Dishwashing machinery

making machinery

Filter presses

Parts

Tar, bitumen and asphalt plant, with

Other civil engineering and contracting plant (including mechanical handling plant for civil engineering and contracting)

or without mixing gear

not elsewhere specified

Civil engineering and contracting

machinery and plant. reconditioned

Cloth cutting and other garment making

machinery, not elsewhere specified

- Condensers, steam, other than marine

Crushing, washing and screening

machinery for quarry products

Drying machinery, not elsewhere

than desk and ceiling fans

Electric lamp and electronic valve

Fans, with or without motors, other

TAB

TABLE 5 (contd.)				a at aution	o.1.3	
Kind of output	19	51	1954			
(i) Complete machines, etc.(ii) Parts	Quantity	Value	Quan ti ty	Value	Entries	
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	No.	£*000	No.	£*000	Number	
Civil engineering and contracting machinery and plant, new				(.53465) ***	Lught	
Excavators, trenchers, ditchers and similar digging machinery, other than cable- way dragline excavators and rope- {(i) hauled dragscrapers {(i)	2,218	7,737 3,850	3,916	14,574 4,514	20 48	
Earth-moving, earth-levelling and land-clearing machinery	Same F		en un obside al alla	anto antidica e a	20293	
Angledozers, bulldozers, calf- dozers and muledozers (i.e. { (i) equipment without tractors) { (ii)	2.701	1,154 275	2,108	989 359	13 23	
Graders, including motor graders, levellers, scrapers (other than rope-hauled dragscrapers), loaders { (i) and loading shovels { (ii)	2,608	2,584 435	2,570	4,687 762	18 28	
Other, including dumpers $\begin{cases} (i) \\ (ii) \end{cases}$	2,156	3,048 28 542	} 2,850	4,209	17	
Concrete mixing, placing and finishing, etc. machinery		042		do na Locada ori-	11100	
Mixers (fixed, portable, truck, etc.) { (i) { (ii) }	12,422	2,532 33 514	9,182	2,426 863 825	} 33	

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5,706

514

718

126

885

333

1,234

1,164

3 93

17

40

241

54

(a)

3,283

255

45 13

81

2,612

1,409

281

1,552

204

228

114

370

121

(a)

54

l(ii)

(i)

(ii)

{ (1) (11)

{(i) (ii)

(ii) (ii)

 ${(i) \\ (ii)}$

(i)

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(i) (ii)

(i) (ii)

(i)

(ii)

 ${(i) \\ (ii)}$

{ (i) (ii)

MECHANICAL ENGINEERING (GENERAL)

TABLE 5 (contd.)

23

27

22

36

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75

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24

24

42 71

15 13

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16

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80

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48

39

18 32

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15

431

57

111

305

1,313

2,271

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635

686

288

(g)

5,205

1,629

5,868

461

120

27

188

336

241

331 121

2,503

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46

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1,458

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(i)

(ii)

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(i)

(ii)

Kind of output (i) Complete machines, etc.	LEA	19	51		1954	s ball
(ii) Parts	44/1004	Quan ti ty	Value	Quan ti ty	Value	Entries
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	000.3	No.	£*000	No.	£,000	Number
Food and drink preparation, processing of sterilising machinery, not elsewhere sp other than portable mechanical appliance electrically operated	pecified		(1) (21)			n ann ann an
Bakery and biscuit ovens	{ (i) { (ii) {	910 	600 1,255 96	562 	756 1,331 141	} 27 26
Bakery, biscuit and flour confectionery machinery	{ (i) (ii)	::	4,406 722	por - 1 · · · · · ·	5,981 1,284	58 67
Cocoa preparation, chocolate and sugar confectionery making machinery	{(i) (ii)	::	1,326 216		1,403 319	43 45
Sugar making and refining machinery. other than centrifuges	{(i) (ii)	::	1,603 1,323	::	2,994	22 32
Dairy machinery and plant, other than milking machines	(i) (ii)	::	2,648 306	••) (••	2,863	48
Mineral water making machinery and plant	(i) (ii)	::	649 187		248 73	13 15
Brewing and distilling machinery and plant	{(i) (ii)	::	1,898 429		1.897	34
Other machinery for the preparation, processing and sterilising	818 196 1	-	103 870		n Malia Sala	Dire Linder
Of food	{(i) (ii)	::	5,206 1,009		4,437	116 133
Of drink	{(i) (ii)		782 114	diora ond note	1,134	36 28
Founding and diecasting machinery	(i) (ii)		1,544 371		1,429	33
Furnaces and kilns	210	SWA. L		o and the second second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55
Blast furnaces	{(i) (ii)	::	777 827		2,200 1,239	6 18
Other metallurgical furnaces		2,078	2,039			of the state
Electric	(i) { (ii) {		56	} 1.417	2,626	22
	18.	1,189	385 914		662	31
Gas	(i) { (ii) {	10-2-1	216 322	} 1.003	1.742	32
145 34	((i) {	788	713		422	29
Oil	(ii) (iii)		38 108	} 625	635 262	27
Other descriptions	66				202	23
Complete	{	505	167	3 94	159	} 17
Parts	4		35 95		365 42	1
Unclassified	CD 6 11		198	-	42	17
Boiler furnaces	∫ (i) {	550	89	366	89	6
1 733,791 A 2116 1 21	(ii) 4	980.1.	36 37		133	14
Other furnaces and kilns			(14)			
Complete	{	546	275 813	601	563 638	} 40
Parts	628		169	energies.el e 20	466	49
Unclassified	13	•••••	168	-	• No.	in the second
Gas appliances, other than meters, pipes and fittings			*	lings bus stor		tion poil
Water heaters, other than of cast iron	f (1) f	214,377	1,841	376,369	3,262	} 14
the of the the of the of the of the	1(11)		34 208	::	415 298	
Other	{(i) (ii)	••••••	855		531	20
(96209)		••]	187	••]	195	18

Other

specified

MECHANICAL ENGINEERING (GENERAL)

MECHANICAL ENGINEERING (GENERAL)

TABLE 5 (contd.)

Kind of output (i) Complete machines, etc.		10	51		1954	e parta /
(ii) Parts	and and a	Quan ti ty	Value	Quantity	Value	Entries
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	2015-12	No.	£°000	No.	£* 000	Number
as meters			line of the	chicas, property		Red States
	((i)	1.013,972	5,883	} 752,142	4,654	40
Domestic	(11)	Y	30 1,462	1 102.142	1,120	34
	and a busic	11,846	544	5,579	469	1 34
Other	(i)	1	45		131	} 28
A state of the second se	((ii)		138		116	14
as-works plant, not elsewhere specified		·	Asi. I	1		Constants .
Gas producers	(i) (ii)		1.288	inaci ar internatio	1,557 891	15 24
	((i)		500		760	7
Water gas plant	1 (iii)		349	La de la tel anti-sen d'al la de	207	15
Other (including by-products plant for use at gas works) (h)	{(i) (ii)		9.727	ample	7.214	50
lass making and glass working machinery and plant, other than furnaces	alles at the second		3,669		2,286	91
Complete			513		93 5	29
Parts			551	A react the last	633	54
Unclassified			319			-
ain processing machinery and plant	(i)		3,393	and and a	2,769	33
The state of the second second	(ii)		787		738	40
undering and dry-cleaning machinery. acluding hydro-extractors and other rying machines used in laundries. acluding machinery for textile finishing	ng	1				
Washing machines, excluding electrically-operated machines of			and the second	LIGHS LIPER D		a provinsion
250 lb. net weight or less. all		1,482	710	868	318	1
hand-operated machines and dry- cleaning washers (i)	{ (i) (ii)	(···)	65		45	} 19
creating washers (1)			112		75	22
Dry-cleaning washers	{ (i) (ii)	196	215 10	246	287 8	13
	((i) ,	783,986	2,984	1 720 050	0 700	17
Wringers and mangles for domestic use	(ii)	l	24 67	39,956	2.768	17
	and the second	1,541	524	L	33	11
Other drying machines	(i)		48	1,288	690	27
	(ii)	arr	93		146	26
Ironing machines	(i)	8,139	526 96	4,780	490	} 15
	(ii)	۲ ۲	68		31 82	14
	[(i)	1.671	475	1.927	468	h
iteam presses	(11)		93 99		60 168	18
Other laundering and dry-cleaning	∫ (i)		1,290		674	35
machinery (j)	(iii)		2 03		207	44
wn mowers		DEB	1 de la com			
Wand driver	((i)	671,096	1.771	732,761	2,116	11
and driven	(ii)		16 193	, , , , , , , , , , , , , , , , , , , ,	2,110	11
nimal and mechanically driven.	((i)	51,516	1,865	49,687	1,970	23
including gang mowers	(11)		407		324	23
ghting appliances, not elsewhere pecified	((i)		352		210	5
chine tools, woodworking, new, other	((ii)		91		82	8
han portable power tools and small ools for use in machine tools						
	1	8,995	1,421	h		al general
Sawing	(i)		230	6,566	1,186	55
	((ii)		189		154	41

Kind of output		fit is taber Q 19	51	1954			
(i) Complete machines, etc.(ii) Parts		Quantity	Value	Quan ti ty	Value	Entries	
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)		No.	£°000	No.	£°000	Number	
Machine tools, woodworking, new, other t portable power tools and small tools fo in machine tools (contd.)		3.22.6		a seding, com se seding, si frinking,	os painas no apinas in painas no poles no poles no poles no poles	tatta	
Planing and moulding	(i) { (ii) {	4.254	1,224 48 160	} 2.656	1,101	33	
Mortising and tenoning	(i) { (ii) {	1.606	398 40 54] 1,241	348 14	28	
Veneer and plywood	(i) {	287 	89 152	} 489	1 92	6	
Othe r	(ii)	6,897	12 1,237 238	··· } 6.391	16 1.224	6 59	
Machine tools, woodworking,	(ii) {	 762	241 154	 1,228	171 196	42	
reconditioned Cutting tools for use on woodworking	(ii)		156 11	142. ··· 44	133 6	13	
machines, except saw blades Mechanical power transmission plant, not elsewhere specified	(i) (ii)	·· ·	373 3,743 1,061		582 3,935 2,598	31 48 42	
Mining machinery, other than portable power tools	(anter Litt	1,001	bry pattange	2,000		
Coal cutters, power operated	{ (i) { (ii) {	701	1,183 2 1,186	} 1,056	1,919 2,363	11	
Conveyors, underground	{ (i) { (ii) }	2.784	3,371 3 3,436	} 3.525	5.091	18	
Power loaders	$\begin{cases} (i) \\ (ii) \end{cases}$	 211 	335 256	283 	486 415	11 12	
Winding machinery	(i) (ii)		1.121 418		1.049	18 25	
Hauling engines (stationary)	$\begin{cases} (i) \\ (ii) \end{cases}$	852 	438 14 325	254 	431 933 515	20	
Other, except coal preparation plant (k)	{ (i) (ii) ((i)	oters	3.851 1.694 134	···	4,052 3,571 482	51 105 5	
Unclassified Office machinery (1)	{ (ii)		22	fil and extended and	34	6	
Adding and listing machines	{ (i) { (ii)	9,161	949 23 29	} 26.284	1,487 43	7 9	
Other calculating machines	{ (i) (ii)	35,087	1,313 { 88	22.984	1,625	<pre>9 7</pre>	
Accounting, book-keeping, billing or posting machines or any combination thereof (not being machines operated in conjunction with punched cards),	atvit			and the second second	57		
including typewriters incorporated therein Punched card machines, including card	{ (i) (ii)	6.776	3.300 138	(i)	4,187 217 5,786	5 13 9	
punching machines and verifiers Duplicators, excluding litho-offset	[(i) {	47,504	(a) (1,585	(ii) } 50.554	1,035	11	
machines (1)	l(ii)		81 395	and	459	11	
Addressing machines	{ (i) (ii)	10,080	805 358	10,753	911 263	8	

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MECHANICAL ENGINEERING (GENERAL)

TABLE 5 (contd.)

MECHANICAL ENGINEERING (GENERAL)

Kind of output (i) Complete machines, etc.		19	51	1954			
(ii) Parts	12	Quan ti ty	Value	Quantity	Value	Entries	
MACHINERY, AND PARTS THEREOF N ELSEWHERE SPECIFIED (contd.)		No.	£,000	No.	£°000	Number	
Office machinery (1) (contd.)		-011	TOM	POBRAR ATRACO		NAC I	
Letter opening, coin sorting, counti		1.003,000	1 . Barris .	CHODY GALLAN			
and wrapping, letter sealing, stamp affixing, postage franking,	- (9,524	319	jot II ma bas		el dui zog	
perforating and cheque writing machines	{ (i) { (ii)		5 66	}	511	17	
Typewriters			See Law			Garas (d	
New		500	12273		-		
Not exceeding 22 lb. in weight	{(i) (ii)	57,491	803 23	106,706	1,543	7 9	
The same in the the	A REAL PROPERTY AND A REAL	122,514	3,374	134,710	3,920	7	
Exceeding 22 lb. in weight Mc	l(ii)		166	0	182	1 ii	
Reconditioned	(i) {	4,984	142	3,919	140	12	
neconaltionea	1 _(ii)	6,897	56 46		12		
Dictating machines, complete, i.e. recording and reproducing machines		785	(111)				
and record shavers including dictaphones (e)			(α)	9,127	368 893	} 10	
Other office machinery			518	ald the base of	ools for use	3 681.272	
Complete		• • • • •	7.442	andes	2,009	26	
Parts			1,651(m)	·· be	622	24	
Unclassified			394	dollog and a	dio . Treatide	n potais	
int spraying, metal spraying and imilar machines, other than	∫ (i)	10X ···	1,091		1,163	25	
gricultural spraying machines	((ii)		2 91	ວ ຊຸສ ຂຕໍ , ໂດຍັ	474	23	
antation machinery, not elsewhere pecified	{ (i) (ii)		890		705 136	19	
astics working machinery, other	ſ (i)		834	·	691	36	
than presses	(ii)	•••	87		178	45	
ortable power tools	202	1.1.2	1 21. 14			Spare 1	
Of the hand-held type (including fle shaft drive tools) as employed in t		290.344	Lan alter				
general engineering, metal-working, woodworking, stone-working and		0.40	(12)] 49			Christian Color	
building industries	11 10	10 510		(vrsuso I s	engines (str	dail wat	
Pneumatic	(i) {	49,713	648 384	64,964	1,292 666	17	
	l(ii) `		550		1,146	15	
Petrol	[(i) {	3,715	239	1	240	10	
Petrol	(ii) (~	33 69	J	249	10	
Of the type, including hand-held, employed in civil engineering, mini	ng	681.4	1			and an ANA	
and quarrying			1 Martin	sealdar		e pestekt	
Preumatic	∫ (i) {	22,116	965 353	16,754	762 315	7 19	
Part Pert A	(ii)	780.40	1,133	and Life	884	J 17	
Petrol	{ (i)	2,938	208	2,657	201	5	
tachable tools (drilling bits, etc.)	(ii)		92	taridens vas.	94		
used in rock drilling machinery	f		1,756	babo beesso	1,154	14	
ttery and other ceramic making achinery, other than furnaces and ki	lns (ii) (ii)		408 179		484 54	20 20	
esses, other than metal-working	(6)		bra	painsions		States	
Tableting and pelleting presses, other than for powder metallurgy	(i) (ii)	156	82 84]	321		
Plastics moulding, other than	∫ (i) {	1,353	977	879	1,391	1 22	
tableting and pelleting	(ii) { (ii)		9 243		447 376	23 26	
	353	766	243	562	225	h	
Baling presses	(i) {		36		124	} 24	
(96209)	l(ii)		51		64	19	

MECHANIC

Kind of output (i) Complete machines, etc.			1951		a series of	1954	and the second second		
(ii) Parts		Q	uantity	Value	Quant	Quantity No. B.h.p.			
MACHINERY, AND PARTS THEREOF N ELSEWHERE SPECIFIED (contd.)		No.	B.h.p.	£,000	No.	B.h.p.	£,000	Numbe	
ime movers			And the second	A MARINE		HAR YO STRONG		Que trans	
Internal combustion, new, other th engines for aircraft, road vehicl (including agricultural tractors) ships and boats (n)	es		8:0.59	444	10000 1000	ng same sait		a antis Titon	
	((i) {	22	9,664	419 115	1 1 0	7,800	2 5 2	h	
Gas túrbines	1 (1.1.15	83 212		••	170 532	b	
Reciprocating	((ii)		••	212		••	332		
Compression ignition (diesel and dual fuel)			112.00			aldric bas		in a tra	
Not exceeding 50 b.h.p.	{ (i) {	83,763 8,875	1,052,184	14,224 879	61,802	706,214	9,368	26	
Not exceeding 50 b.n.p.	(ii)			2,322	· · ·	• ••	2,121	24	
Over 50 b.h.p., not	{ (i) (ii)	5,141	. 512,346	7,639	2,805	312,705	5.032	21 22	
exceeding 300 b.h.p. Over 300 b.h.p., not	((11) ((i)	630	369,557	5,308	585	311,681	6,464	14	
exceeding 1,500 b.h.p.	1(ii)			1,003			1,470	15	
Over 1,500 b.h.p.	{ (i) (ii)	31	55,250	977 116	72	154,771	2.432 496	69	
Paraffin, petrol and other spirit						in francisco	inggalanna Maria	angerster P	
	((i) {	64,009 99,697	229,112	2,169(o) 1,338		Plants a		angi Mis	
Not exceeding 10 b.h.p.	(ii)			20 492 (o)	$\begin{cases} (i) \\ (ii) \\ 171,028 \end{cases}$	127,700	1,390	23	
the later and and the second	(ii)	1,877	38,492	492 (8) 326	(ii)		3.004 745	27	
Over 10 b.h.p.	(ii)			156	p.			a and the	
Other (including gas and semi-diesel)	(i) (ii)	967	13.764	245 { 83	25 4,448 	1,134	22 289 131	} 7 9	
Internal combustion, reconditioned		A.S. I						CN CS (SI)	
other than engines for aircraft, road vehicles (including						and and a second		and the second	
agricultural tractors), ships and boats	{ (i) (ii)			54 177	}		96	13	
ships the seats	• • • • • •	No. of	801,64		No. of			with a	
		sets	Н.р.		sets	Н.р.			
Steam reciprocating, other than marine and winding engines	(i)	343	31,764	537 22	244	23,180	458	11	
for mining machinery	((ii)	Sec. 1. • •	. • • 15 . 206	3 03		Lencon C. Co als	326	17	
Turbines, other than gas and marine									
	[(i) {	256	981,472	3,548	359	686,105	3,611	} 21	
Steam	(ii)	129		5,741 1,476			8,795 2,385	20	
	. (112	697,830	762	n to the state of	nteren aptition	a kreating	and said	
Other (e.g. water turbines)	{ (i){ (ii)	2	••	15 533	38	1,051,188	2.012	6	
	((11)			333				12	
Other prime movers) (i)			1.623	(i) (ii)		40 208	io	
Unclassified) (ii)		••	2.795	(i) (ii)		4,425 3,498	11 31	
lpmaking and paper and board aking machinery, including inishing machinery	{ (i) (ii)		abananad ••• 4.5 (3,269 2,875	::		3,975 4,816	43 97	
lverising machinery and plant, ther than crushing machinery for quarry products	(i) (ii)			651 365	· · ·		968 555	24	

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MECHANICAL ENGINEERING (GENERAL)

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4/1/16TABLE 5 (contd.)

MECHANICAL ENGINEERING (GENERAL)

Kind of output (i) Complete machines, etc.		19	21	1954			
(ii) Parts	1	Quan ti ty	Value	Quantity	Value	Entrie	
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	900 2	No.	£°000	No.	£*000	Numbe	
Pumps			1	TE THERE OF BE	1949 (1942), 1949 1953:1949 2000 20		
Petrol and oil measuring	{(i) { (ii) {	23,298	2,661 57 724	} 26,962	3.070 1,226	11 31	
Hand pumps, other than petrol and oil measuring	{(i) { (ii) {	98,259	388 24 27	44,166	182 195 45	}- 33 22	
Other kinds	•(11)	143.0	27				
Reciprocating	(i) { (ii) {	20,534	3,205 64 954	16,216	4,914 519 1,936	} 75 70	
Centrifugal and turbine (p)	1	(i) {98.576	9,366	$ \begin{cases} (i) \begin{bmatrix} 79,694 \\ \\ (ii) \end{bmatrix} & \end{cases} $	11,455 1,248 2,832	<pre>} 95 93</pre>	
Axial flow (p)]	(ii)	143 2,051	$\left\{\begin{array}{c} (i) 14.154 \\ (\underline{i}i) & \end{array}\right.$	2,384 690	11 16	
Rotary	(i) (ii)	29.880	1,950 32 250	25,143	2,314 457	58 50	
Other	(i) { (ii) {	61,667	2,730 182 762	41,129	1,632 185 486	} 83 82	
Pumps, unclassified	{ (i) { (ii)	992	68 286 366	}	1,216		
efrigerating machinery		1.013.025	680.46				
Power operated refrigerators of a storad capacity of not over 12 cu.ft. and automatic heat operated refrigerators					estelletas -		
Complete	{	307.548	13,921 × 145	327.628	13,265	23	
Mechanical units, complete	1	200.277	3.445	3 01,926	5,583	18	
Parts			2,180	bana i artest	2,043	40	
Automatic power operated refrigerators of a storage capacity over 12 cu.ft. Complete				or sirees bing if	ath springs victor (noi) whet tracto	la ladit i Grandina Carlona	
Not over 10 h.p.		15,185	1,877	11,693	1,551 364] 16	
Over 10 h.p.		265	504	598	1,133	1 10	
Mechanical units, complete	and a	35,306	497 1,789	35,929	622 1.754	14	
Parts			26 741		1,469	35	
Non-automatic refrigerating machinery	{(i) (ii)	214.000	4,601 750		3,573	5	
Unclassified refrigerating machinery	$\begin{cases} (i) \\ (ii) \end{cases}$		62		126	5	
efuse and sewage disposal machinery	5 (i)		402	1 (0493 1.17)	362	15	
ubber-working machinery	[(ii) ∫ (i)		127 2,095		225	30 54	
wing machines (including machine heads) and parts thereof other than needles	(ii)		484		687	86	
New		Thousands		Thousands	p training Berg	de l'Armente	
Industrial	{(i) (ii)	140.6	2,286 991	92.9	2,436	17 29	
Domestic	{(i) (ii)	617.7	5,332	640.2	7,542	7	
	(1		The second s	anterestation to	-	
Reconditioned	(i) {	0.9	64	0.9	27	} 8	

TABLE 5 (contd.) Kind of output (i) Complete machines, etc.(ii) Parts MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.) Steel-works and non-ferrous machinery and plant (excluding iron or steel rolls sold separately), not elsewhere specified Cold drawing plant for bars and tubes, and other tube making machinery, (1) (ii) except extrusion presses Rolling mills (hot and cold), other than tube making {(i) (ii) For steel (i) For non-ferrous metals (ii) Other steel-works and non-ferrous (i) (ii) machinery and plant (ii) (ii) Stone-working machinery, not elsewhere specified Tanning and leather working machinery, (i) other than boot and shoe making and (ii) repairing machinery Tobacco processing and cigar and cigarette making machinery {(i) (ii) ((i) Water meters (ii) Water treatment plant, other than plant for waterworks Water softeners, water filters and water sterilising equipment { (i) (ii) Domestic (ii) (ii) Other (ii) (ii) Other water treatment plant (e) {(i) (ii) Waterworks equipment and plant Weighing machines and parts thereof. (ii) (ii) other than ribbon spools with or without ribbons Well-drilling machinery {(i) (ii) Petroleum Other Complete Parts Unclassified {(i) (ii) Wire-making machinery Wire-working and wire-winding machinery, other than cable-making machinery Complete - 2 Parts Unclassified Other machinery and parts thereof (r) Hydraulic, including hydraulic {(i) (ii) accumulators but excluding presses and pumps Other (i) and (ii)

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MECHANICAL ENGINEERING (GENERAL)

195.	1		1954						
Quantity	Value	Quantity	Value	Entries					
11	£'000		£°000	Number					
Quer 13.19		- oke - deal for		23					
A STREET		These states of the		1000.000					
		SAMTO TRANS		13 MA					
	519		975	10					
· · · ·	206		161	14					
	(11. bur (1)	bell swant bed	. grand dires	1					
	1,927 1,455	and atting	3.496 2.092	16 32					
	715 196	and & Last Marrie	875 164	7					
	3,797	a 1200ge diana	2,467	49					
	1,818		2.223 114	59 10					
585, 554	129		49	20					
	805		546	17					
	463 3.128		315 4,829	26					
	767	ter Itera a	1,184	38					
No. 141,193	826	No. 103,018	709	1 12					
	750 183		592 176	۲۲ ۱5					
				3,46,62%					
1		•		at cal map() -					
	276	1 2 ed tot leither e		a ton and					
•••	13	}	208	13					
	1,141 122	· · · · · · · · · · · · · · · · · · ·	3,085 288	30 25					
	705	}	363	5					
	111 1,618	a second second	1.424	19					
	463		260	35					
and T.	5,553	h bros stand it	6,301	44					
Sec. 1 · ·	380	a refut we bet	333	41					
	763	10000000000	1,233	5					
	1,541		1,644	13					
6814-11	63		146	8					
••	182		197	14					
	54 726	-	- 856	- 12					
800	86		191	20					
€\$8,843	to beld	or steel, usues with thistees	acts to sum	91 eganos 81 C ; 40e					
	547	in an aratimate	540	31					
	98		88	26					
	97		•	-					
	1,355 511		2,237 520	36 37					
	8,996		11,765	475					

MECHANICAL ENGINEERING (GENERAL)

/:) Complete metines ate	1951		1954			
(i) Complete machines, etc. (ii) Parts	Quan ti ty	Value	Quan ti ty	Value	Entries	
in the second		£.000	and all the los	£'000	Number	
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	inc. 14		end erst fildelated for end – 2 m		n al n dau 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
econditioned machinery and plant, not elsewhere specified (s)		1,873		1,159	26	
Plant and machinery, unclassified (i) and (ii)		2,842	••	5,480	167	
OTHER PRODUCTS OF THE INDUSTRY		tsen h			a kan	
rms, ammunition and naval, military and air force stores, not elsewhere specified (t)	100.00	45,952	•	104,682	637	
arpet sweepers, not electrically operated		inter l				
	No.	510	No.			
Complete	273,365	513 50	485,289	913	7	
Parts	••	21	an a shari share an a	25		
airground equipment		227	ban	73	15	
ilters, other than water filters and filter presses	, ett 192				and the state of the	
011	311,957	478 712	235,305	262 852	} 26	
Other		1,116	a and	1,219	23	
Unclassified		427		46	5	
ire-extinguishing apparatus (other than fire engines, etc. and hand-operated chemical extinguishers sold separately)	····	3,263	and a second second	4,266	28	
arage equipment and plant, not elsewhere specified	••	1.424		2,009	61	
ubricators and parts, other than of railway wagon, etc. axle boxes, not elsewhere specified		599	(a) table	1.445	17	
			apada ba	1,115	11	
etal moulds (other than moulds and dies for use as engineers' small tools, moulds for	Tons		Tons		alet in the second	
use in civil engineering and ingot moulds and bottoms)	1,348	336 809	3,506	512 637	} 55	
oulding boxes and parts thereof	3,221	3 9 5	3,463	411	28	
	Thousands		Thousands		A SUMALITY	
ressure gauges	1,406	1.166 179	1,239	1,246 545	} 61	
rilway and tramway equipment, not elsewhere specified	••	(a) {	798 ••	320 757	} 53	
10 1 10 1 10 1 10 10 10 10 10 10 10 10 1	Tons	in the second	Tons		A Conversion of	
torage tanks of iron or steel, assembled or {	113,943	8,533 1,017	98,053	9,861 2,689	} 169	
eavy plate work, not elsewhere specified (s)					学校の研究の	

TABLE 5 (contd.)

OTHER PRODUCTS OF THE INDUSTRY (contd.) Heavy plate work, not elsewhere specified (s) (contd.)

Bunkers, bins and silos

Heat exchangers

Pipes and chimneys

Pressure vessels

Sundry vessels

Pressure and sundry vessels, unclassified

Other and unclassified welded and rivetted built-up plate work

Canteen and cafe boiler, etc. sets (excluding purely sheet metal catering equipment) and parts (s)

Heavy duty cooking apparatus (not purely cast iron products) (s)

Gas

Steam

Electric

Oil

Unclassified

Wood and metal patterns

Other and unclassified products of the industry

Waste products other than scrap metals

Machinery purchased and installed and other installation work (u)

Air conditioning, heating and ventilating plant and appliances

Other (excluding marine machinery)

Thermal insulation of plant, machinery, etc. (e)

Research and development work (s) (u)

Repair and jobbing work (u) (v)

MECHANICAL ENGINEERING (GENERAL)

4/I/19

T	195	1			1954	
T	Quantity	Value	1	Quantity	Value	Entries
	Tons	£*000		Tons	£.000	Number
				value as bed	india di caladi Reconcico peri	
{	3,263	258 50		1,130	115 33	} 10
{	582	140 66		552	139 159	} 12
{	8,327	795 449		5,710	616 323	} 25
{	6,133	861 111		4,559	692 338	} 21
	12,689	1,556	{	9,849	1,448 1,176	} 17
{	1,232	175 190	}		28	••
{	25,821	2,151 1,175		26,361	2,495 826	} 38
{	135 	186 170	}	· · ·	416	
{	73 E	204 212		3 02	115 370	}
{	776 61	210 189 32	}	622	131	
{	 11 	270 3 6		20113 2011 24:12 ••0 1	587	9
1	405	79 53	1		1000	
	••	2,309			2,621	235
		24,304		••	31,329	2.06
		stotuteuri			a sugaran	
		1,563		artis de participartes en la comparte de la comparte de la comparte de la comparte de la comparte de la compart	4,209	67
		14,023			17,404	207
		(α)		ant merica and	386 (u)	
		2.091		••	3,452	47

MECHANICAL ENGINEERING (GENERAL)

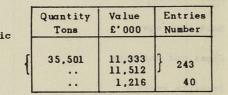
	19	51		1954	3 8 10%
·	Quan ti ty	Value	Quantity	Value	Entries
	Repairing any and a sub-	£*000		£'000	Number
OTHER PRODUCTS OF THE INDUSTRY (contd.)		•			
Other work done for the trade or on commission (u)	••	7,971		19,095	560
Total		736,123(0)	antering a start	970,158	
Sales in other industries (see Table 6)		112,356	inestory apor	152,140	**
Principal products of this industry sold by establishments in the industry		623.767(0)		818,018	2,614

(a) Not recorded separately.

(b) Recorded as:

Other

Valves, other than for motor vehicles, and cocks (excluding domestic cocks and taps of brass or other copper alloys)



Industrial valves so far as recorded separately

- (c) Described in 1951 as 'Sectional boilers, other than for steam.
 (d) Excludes radiators of cast iron made in iron foundries, for which see Iron Foundries Industry (Volume 3, Industry C). (e) So far as recorded separately in 1954.
- (f) Not recorded separately. (See footnote (h)).
 (g) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.
- (h) The figures shown for 1951 include both other gas making and other chemical making machinery and plant not elsewhere specified. (See footnote (f)).
 (i) Described in 1951 as 'Other than for domestic use'.
- (j) Recorded in 1951 as:

) Recorded in 1951 as:	Quantity Number	Value £'000
Washing machines, other than dry cleaning washers, for domestic {(i) use, hand operated {(ii)	58,948	864 68
Other laundering and dry cleaning machinery $\begin{cases} (i) \\ (ii) \end{cases}$	 	426 135

- (k) Not specified as excluding coal preparation plant in 1951.
 (1) Litho-offset machines are included in the Printing and Bookbinding Machinery Industry (Volume 4. Industry H).
- (m) Including ribbon spools (with or without inked ribbons), sold separately, for use in all types of office machinery, weighing machines and time recorders. (n) Excluding, in 1951, internal combustion engines for locomotives.

(o) Corrected figures.

(p)	Record	led :	in 1	951	as:
-----	--------	-------	------	-----	-----

(),	Quantity	Value	
	Number	£,000	
	((i) { 97.526	8,807	
Centrifugal and axial flow	4 4	143	1000
	((ii)	1,858	
Turbine	∫ (i) 1,050	559	60/25-1
Iurpine	(ii)	1 93	1971 T 491
(q) Recorded in 1951 as:	at at an an interest and a second	and the second	
(1)	Quantity	Value	
1	Number	£'000	200.000
Automatic power operated refrigerators			States And
Of a storage capacity not over 12 cu.ft.	pairellinger par particula	1.000.000	-
Complete	209.262	10.727	39223
	· · ·	. 145	
Mechanical units, complete	144,263	3.001	1 2.06
	ų	9	1 Care
Parts	•••	1,982	1.01
Automatic heat operated refrigerators	· · ·	A state of	
Complete	98,286	3,194	- 910-23
	1 56.014	444	
Mechanical units, complete	1	57	
Parts		198	
			Concernant Names

(r) Excluding marine, textile, printing and bookbinding machinery, metal working machine tools and mechanical handling equipment. (See introductory note). (s) So far as recorded separately.

(t) Excluding small arms and parts thereof for which see the Small Arms Industry (Volume 4, Industry E). (u) Amount charged.

(v) Exclusive of the value of goods made by firms and used in this work, which was recorded as sales. (96209)

TABLE

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P

Kind of output		0.6		Principal		
(i) Complete machines, etc. (ii) Parts			Quantity	Value	Entries	industries in which produced (a
PARTS OF MACHINERY, SOLD SEPARATE	.LY			£.000	Number	STREETS
arings and parts thereof				, riene pash	Losi . ease	pilons has sooly
Ball and roller bearings and parts thereof (excluding non-precision balls for ball-p pens, etc.)			2002 10	51	16	4C, 4D, 5E, 5G
Dther bearings (e.g. plain) and bushes				758	33	3G, 4G, 5G, 11A
nins, steel transmission and other precisi nains	.on		(5.2) hao (••) hao	41	19	31, 4G, 5C
			No. 1.480	113	1	AP AND TO I ARASY
linder liners and inserts		1		32	} 13	4B, 4G, 5F
ars and gear wheels				1,076	68	4B, 4C, 4D, 4K
stons				117	19	4B, 4G, 4J
ston rings, packing rings, etc.				23	17	4B, 4J
lleys and pulley wheels				104	36	4D, 4F, 4G, 5C
lls of iron or steel			-	auto vendo sto	Die anna	Billed the stalland
For metal rolling mills		{	Tons 13,133 	1,736	} 27	3B, 3C, 4J
For machinery, other than metal working		1	2,831	174	23	3C, 4D, 4K
lves and cocks for the control of liquids, nd gases (excluding inlet and exhaust value or internal combustion engines)				(1) finactives evilgencoal	nivoise. Das cent	Barner Stifter States Boldines bol instruktion
Industrial				an activity parent	acrus a sol statistic	The States
Wholly or mainly of iron or steel				281	30	3F, 4B, 4J
Wholly or mainly of other metals and all including copper alloys	loys,			3,163	110	3F, 4B, 4J
Unclassified			() bda	287	17	5F
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED				123	plant tohore ··	alt: (alter Lociacion
ricultural machinery, other than tractors				> (1) (1) (1)	in politica i	and the control
Potato and sugar beet lifters (i) an	nd (ii)			21	5	31, 4G
Hay and corn elevators (i) an	nd (ii)			8	7	4J
Grain and grass driers (i) an	nd (ii)			139	10	3C. 4D. 4F. 4G
Other agricultural machinery	(i) (ii)	-		5,616 630	55 66	3I. 3M. 4G. 4J 3I. 4F. 4G. 4J
Unclassified	{(i) (ii)			687 1,916	97	3B, 3I, 5C 3I, 5C, 5E
r and gas compressors and exhausters and ther pneumatic appliances	(,			and and	ann har d	for mainter
Air compressors and exhausters, other	C	S	No. 129	45	1 -	27 47 47
than compressors supplied with paint spraying equipment	(i) (ii)	1		26 145	} 7 7	3I. 4C. 4J 3G. 3I. 4J
Other pneumatic appliances, not else- where specified, including gas compressors and exhausters	(i) (ii)			262 34	9 6	4K 3I, 4B
r conditioning, space heating and ventila lant and appliances, including waste, dus umes, heated air, steam or vapour collect nd extracting, but excluding fans sold as nd gas appliances	t, ing			isi escrutore	a 1960 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975	the straight transfer
and the second s	((i)	5	84	43	} 7	4C, 4F, 4G
Boilers for central heating	(ii)	1		30	1	4F

Kind of output		150		Principal		
(i) Complete machines, etc. (ii) Parts			Quantity	Value	Entries	industries in which produced (a
PARTS OF MACHINERY, SOLD SEPARATE	LY			£'000	Number	princip
rings and parts thereof				, ord a see posito	Loci . ease	ritary has really
all and roller bearings and parts thereof (excluding non-precision balls for ball-pa				51	16	AC AD 55 50
pens, etc.)				51 758	16	4C, 4D, 5E, 5G 3G, 4G, 5G, 11A
ther bearings (e.g. plain) and bushes			···	/38	33	3G, 4G, 3G, IIA
ins, steel transmission and other precision and other precision and the precision an	on		 No.	41	19	3I, 4G, 5C
		r	1.480	113	1 10	10 10 50
inder liners and inserts		1		32	} 13	4B, 4G, 5F
rs and gear wheels				1,076	68	4B, 4C, 4D, 4K
tons				117	19	4B, 4G, 4J
ton rings, packing rings, etc.				23	17	4B. 4J
leys and pulley wheels			••	104	36	4D, 4F, 4G, 5C
ls of iron or steel			Terr	une vente	The assessment	stied has welled
or metal rolling mills		{	Tons 13,133	1.736	27	3B, 3C, 4J
or machinery, other than metal working		`	2,831	174	23	3C, 4D, 4K
ves and cocks for the control of liquids, ad gases (excluding inlet and exhaust valve or internal combustion engines)				(t) imosioes evijencosi	nicioita tean cad	Noter Schene
Industrial				an construct	NATES OF SOL	The Martin Martin
Wholly or mainly of iron or steel				281	30	3F, 4B, 4J
Wholly or mainly of other metals and all including copper alloys	oys,			3,163	110	3F. 4B. 4J
Unclassified			() hdw	287	17	5F
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED				123	plant Lohere -	Bolis Teilod Meneral
ricultural machinery, other than tractors				(a) States	in willing h	Also rola
Potato and sugar beet lifters (i) an	d (ii)		1 1	21	5	31, 4G
ay and corn elevators (i) an	d (ii)		2	8	7	4J
Grain and grass driers (i) an	d (ii)		··	139	10	3C. 4D. 4F. 4G
Other agricultural machinery	(i) (ii)			5,616 630	55 66	3I. 3M. 4G. 4J 3I. 4F. 4G. 4J
Inclassified	(i) (ii)			687 1,916	9 7	3B, 3I, 5C 3I, 5C, 5E
r and gas compressors and exhausters and ther pneumatic appliances			No.	143 141 14 14 14		Agener malitation
ir compressors and exhausters, other than compressors supplied with paint spraying equipment	(i) (ii)	{	129 	45 26 145	} 7 7	3I. 4C. 4J 3G. 3I. 4J
Other pneumatic appliances, not else- where specified, including gas compressors and exhausters	{(i) (ii)			262 34	9	4K 3I, 4B
r conditioning, space heating and ventilat lant and appliances, including waste, dust umes, heated air, steam or vapour collecti nd extracting, but excluding fans sold as nd gas appliances	ing		(11) 300			terrest believe aller terrest believe aller terrest believe atta
and the second s	((i)	5	84	43	7	4C, 4F, 4G
Boilers for central heating	(ii)	1		30	1	4F

4/1/20

MECHANICAL ENGINEERING (GENERAL)

Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

4/I/22

MECHANICAL ENGINEERING (GENERAL)

TABLE 6 (contd.)

Kind of output (i) Complete machines, etc.			1954	Principal industries in	-	
(ii) Parts		Quantity	Value	Entries	which produced (a)	4 -
MACHINERY, AND PARTS THERE	OF NOT		£°000	Number		
	ntd.)	and a second				Che
ir conditioning, space heating and plant and appliances, including was		1. 2.03644		A STATISTICS OF	The strategy	0
fumes, heated air, steam or vapour	collecting					
and extracting, but excluding fans and gas appliances (contd.)	sold as such	and the second second second		ST NUMBERS	man thanket share a second	P
Hot air, water and steam radiators	, other					C
than those for use with gas or electricity	(i) and (ii)		340	7	3M. 4F. 4K	U
Air filters, washers and scrubbers	CONTRACTOR AND A CONTRACTOR		40	7	4C. 4G. 5E	
Ventilators, hoods, booths, cowls,	And the second states					
ducting and similar sheet metal w for air conditioning, etc. plant	ork		1,937	221	4A, 4F, 4J, 5E	Civ
Other descriptions, not of cast ire	on, not	ter the second	2,007	441		an
elsewhere specified						E
Space heating plant and appliance heater batteries and unit heater			261 118	12	4F. 5E. 5F 4D. 5F	1
Other	(i) and (ii)		392	13	4D, 4F, 5E	
oilers and boiler-house plant, other		une aller most mount in			n se and se substitue	E
boilers for ships and locomotives, band furnaces						Y
Boilers		1				
Water tube	(i) and (ii)		212	12	4B, 4F, 4G	
Other boilers, including section			the consistence and		ALL STATE LOOKS	
boilers for steam, and locomotiv type boilers for stationary pur				ing many second and a second	and Large & Charles	Ť
but excluding boilers for centre	il [(i)]		526	18	4B. 4F. 4G. 4J	-
heating	((ii)		104	11	4B. 4F. 4K	
Boiler-house plant, sold separately Fuel economisers, feed water	Y	and the second second second		erand da fi		
heaters and steam superheaters	(i) and (ii)		33	7	4F. 5E	1
Boiler firing plant	alter been weeks with			ra sta chan -		
Mechanical stokers	(i) and (ii)	••	355	10	3C. 4C. 4G. 12A	٢
Other boiler firing plant	(i) and (ii)		10	7	and the state of the state of the	
Other boiler-house plant	$\left\{ \begin{array}{c} (i) \\ (ii) \end{array} \right\}$	•••••••	38 133	7	4F, 4G 31, 4D, 4F	Civ
ottle-washing machinery	(i) and (ii)	4.4.1 000	18	6	4F	mc
oot and shoe making and repairing	(i)		16	6	4G. 4J	Cox
machinery other than sewing machines		···	5	11		Cr
ottling, packing, canning, packeting and labelling machinery	3			Contraction of the second		f
the rest and provide the design of	∫ (i)		120	11	4C	Dr
Bottling, capping and canning	((ii)	••	39	10	4C	El
Filling and closing machinery for solids and semi-solids	(i) and (ii)		48		3F. 3K. 4H	m
Packing, wrapping and labelling	(i) and (ii)		222	15	3L. 4D. 4H. 5E	Fo
ick, tile, and cement blockmaking						W
achinery, other than kilns	(i) and (ii)	· · · (a)]	261	17	1F. 4C. 4I	0
ble making machinery	(i) (ii)	1	1,259 134	67	4A. 4D. 4L 4A. 4D. 4L	
ment making machinery, other	(·/	- Cro / -	an a		nulation and the second	Ť
than kilns	(i) and (ii)	•• 25	3	6		
entrifuges, other than cream separat and hydro-extractors for use in	ors	And the second sec				
aundries	(i) and (ii)	11	43		4B, 4H, 5E	
emical making machinery and plant. Isewhere specified	not	In marine		This came is		
Mineral-oil refining	(ii)		36	5	4 Ā	
96209)	(11)	••				¥ (

TABLE 6 (contd.)					Log Fire Red Book
Kind of output	y 2 2 3 1	and the second	1954	, construction	Principal industries in
(i) Complete machines, etc. (ii) Parts		Quantity	Value	Entries	which produced (a)
MACHINERY, AND PARTS THEREOF NOT			£°000	Number	UNDERTAIN DO
ELSEWHERE SPECIFIED (contd.) Chemical making machinery and plant, not	fier.	bel		aty. sot	nizona pareiituse Idasse pareiituse
elsewhere specified (contd.)				tent (canted	olego vilizobritele
Oil (other than mineral) extraction and refining (i) a	nd (ii)	····	76		2P. 3F
Paint, varnish and inkmaking (i) a	nd (ii)		6	5	Other wide in and
Other, including soap and fatty acid making	{(i) (ii)	:::::::::::::::::::::::::::::::::::::::	2,604 80	25 28	2C. 4C. 4F. 4G 4D. 4F. 4G. 4J
Unclassified			4,229	29	2B, 2E, 2J, 3G
Complete			119		3C
Parts Civil engineering and contracting machinery and plant, new		No.	15 -vann	i do ser para	Frunding and gloogn Furnesses and bline
Excavators, trenchers, ditchers and	and ship	NO.	14	1860-0	the ultimation of
similar digging machinery, other than cableway dragline excavators and rope- hauled dragscrapers	{(i) (ii)	867	490 68	6 11	3L. 4F. 4G 3I. 3L. 4D. 4F
Earth-moving, earth-levelling and land- clearing machinery	1		6. (3) 67 vill	a Laure . av	OLL GARELLELL
Angledozers, bulldozers, calfdozers and muledozers (i.e. equipment without tractors) (i) a	nd (ii)	(41)	165	13	3L. 4J
Graders, including motor graders,	The second		2 had the set	and Lands	Generation and the second
levellers, scrapers (other than rope- hauled dragscrapers), loaders and	nd (ii)	1.125 60	1 03	7	3C. 4F
Other. including dumpers	(i)	372	196	6	3L. 5E. 12A
Concrete mixing, placing and finishing,	(ii) and (ii)	(11) 40	526	12	3L. 4F. 5E 3L. 4F. 4G
Tar, bitumen and asphalt plant, with or	(nd (ii)	(LLA) (#1)	94	9	4F, 4G, 4J, 5E
Other civil engineering and contracting			ving ancisings	ab vedže k mitolome	avara-exclusions an
plant (including mechanical handling plant for civil engineering and contracting). not elsewhere specified	(i) (ii)		446 147	13 19	4F. 4G. 4J 4F. 4G. 4J
Civil engineering and contracting machinery and plant, reconditioned	(i) (ii)		97 6	6 6	3H. 4C. 4G. 12Å
Coal preparation plant	{(i) (ii)		532 283	7 16	4A, 4D, 4F, 4G 4B, 4C, 4F, 4G
Crushing, washing and screening machinery for quarry products	(ii) (ii)		618 66	13 14	1B, 3B, 4G, 4J 4G, 4J, 5A
Drying machinery, not elsewhere specified (i) a	und (ii)		231	9	4D, 4F, 4H, 5E
Electric lamp and electronic valve making machinery	(ii) (ii)		42 7		4B 4J
Food and drink preparation, processing and sterilising machinery, not else- where specified other than portable mechanical appliances, electrically operated		iur k	ta. 1. othqa than 1. taala for	ene .Delle Liges bee	a indaha bea indini adampany pullifan adams , ilan adian adam , ilan adian ada dan ada indini ada pulling ai sa
Bakery and biscuit ovens	(i) { (ii)	95	55 17 31	<pre>6 8</pre>	3K. 4D. 4J. 5E 3K. 4D. 4J
Bakery. biscuit and flour confectionery machinery	(ii) (ii)		46 5	11 8	3L. 4J. 8C
Cocca preparation, chocolate and sugar confectionery making machinery	(i) (ii)	S.E .: 11	189 19	8 8	4C. 4J. 5E. 8I 4C. 4J
Sugar making and refining machinery, other than centrifuges	(i) (ii)		593 55	5 7	4A. 4G. 8H 4D. 4F. 4G. 4J
(96209)		· · · · · · · · · · · · · · · · · · ·			and the second second

MECHANICAL ENGINEERING (GENERAL)

MECHANICAL ENGINEERING (GENERAL)

.TABLE 6 (contd.)

Kind of output (i) Complete machines, etc.		1954	Principal industries in	
(ii) Parts	Quantit	y Value	Entries	which produced (a)
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	i i des s	£'000	Number	in ellipse dine a
ood and drink preparation, processing and sterilising machinery, not elsewhere specified other than portable mechanical appliances, electrically operated (contd.)		TON, ACARAN (.contos) Jos Jeste	Canal Contract	BLCHINCRY, 1 Classical miles and eliestere apochin
Dairy machinery and plant, other than milking machines (i) and (i	.i)	214	12	4F, 4J, 4K, 5E
Other machinery for the preparation, processing and sterilising		LI: an (I) N (intensities	Balai. waralah ah Ginari, Lucinskog
Of food	li)	229	21 19 [.]	4F, 4J, 4K 4J
Of drink {(i		301 7	8	4J, 5E
ounding and diecasting machinery	(i) .i)	230 53	10 9	2K, 3G, 4C, 4G 3G, 4B, 4G
urnaces and kilns	- Martin Contractor		i in the second	Right - Likeling Ship
Metallurgical furnaces		2010 UT	dotth ann	194832 . 6163 67 (208)
Electric (i) and (i	.i)	113	in the second	4G. 4H
Gas (i) and (i		6		these sectors and the
Oil (i) and (i	li)	shani 9 m	nilin-tid	4C
Other descriptions, including blast furnaces (i) and (i	.i)	374	6	2E, 3C, 4G
	.i)	54	Latio	4F. 4J
Other furnaces and kilns (i) and (i	.i)	677	17	1H. 4F. 4J
as appliances including meters, but		the royan .	actives, training	ET
excluding pipes and fittings (i) and (i		727	10	SE, SF
s-works plant, not elsewhere specified {(i		1.494 1.070	10 24	4F, 4G, 4M, 5K 4F, 4G, 5E
lass making and glass working machinery and plant, other than furnaces (i) and (i	.i)	443	14	1H. 1I. 4C. 4F
	(i) (i)	3 96 91	79	4B. 4G. 4K 4G. 4J. 4K
aundering and dry-cleaning machinery, including hydro-extractors and other drying machines used in laundries, excluding machinery for textile finishing		ii) me (i) paisstriau paištea	and a second sec	el prilere tunicite minere treis tudat tutica destrictures
Washing machines, excluding electrically- operated machines of 250 lb. net weight or less, all hand operated machines and dry-cleaning washers (i) and (i	i)	39	an Hilpinel y Traves / Argen 2 . Angene 1	31, 4G
Wringers and mangles for domestic use (i) and (i		38	5	4D, 4K, 5E
Other laundering and dry-cleaning machinery, including steam presses, parts of ironing machines, dry-cleaning washers, and		al granidang	a spinner a star	in paiders pains
drying machines (i) and (i	.i)	139	18	3I, 4G, 4K
Wn mowers		and and	y blacy the	the Buse card and call
Hand driven (i) and (i	.1)	113	6	3I, 4D, 4J, 5E
Animal and mechanically driven, including gangmowers (i) and (i	.i)	1 52	9	3I. 3K. 4J
chine tools, woodworking, new, other than oortable power tools and small tools for ise in machine tools	N	y Line	siosis .re	
Sawing {(i		66	16 9	4C, 4F, 4J 4C
Planing and moulding (i) and (i		11	7	Salare, Manual da
Other woodworking machine tools, including mortising and tenoning and veneer { and plywood machines { (i	i) 3,262	218	25 11	3I, 4C, 4F, 5E 4C
achine tools, woodworking,	.1)	(III) stands	and particular the	a bas patient triple.
reconditioned (i) and (i	i)	35	13	4C, 5E

(96209)

Kind of output		and free to an interest	Principal industries in		
(i) Complete machines, etc.(ii) Parts		Quantity	Value	Entries	which produced (a)
and the second s	and the second	and the second second second	£,000	Number	
MACHINERY, AND PARTS THEREOF NO ELSEWHERE SPECIFIED (contd.)			TEM HEARTS	1977 - 1973 - 1974 - 19 1977 - 1975 - 1975 - 1975	
echanical power transmission plant, not elsewhere specified	(i) (ii)		247 27	16 	4D, 4G, 4J, 5C 4G, 5F
ining machinery, other than portable pateols	ower	1.1.1			ung task sursek
Coal cutters, power operated	(i) and (ii)		51	7	3I, 4F, 4J
Conveyors, underground	(i) and (ii)		420	8	3C, 4C, 4G, 4J
Winding machinery	(i) and (ii)		42	7	3L, 4G, 4J
Other mining machinery, except coal preparation plant, but including power loaders and hauling	{ . (1)		150 187	14	3B, 4C, 4G, 12A 4C, 4F, 4G, 4K
engines (stationary)	((ii)		Latit and Provide Constant	5	4G, 4K, 5A, 5E
Unclassified	{(i) (ii)		482 25	5	31. 5C
fice machinery		A ALERA			
Adding and listing machines	(i) and (ii)		16		31. 4K
Duplicators, excluding litho- offset machines	(i) and (ii)		10		4J
		No.			
Typewriters, new and reconditioned	(i)	2,110	46 67	5	4C, 4J 4C, 11A
	[(ii)		764	23	4K. 4M. 5H. 11F
Other office machinery	(i) (ii)		19	12	(b)
nint spraying, metal spraying and similar machines, other than agricultu spraying machines	ral {(i) (ii)	::	26 1	86	4F, 4J, 4K
lastics working machinery other than presses	(i) (ii)		64 21	9 11	4D. 4K. 11I 4D
ortable power tools, other than electr	ic				
Of the hand-held type (including flex shaft drive tools) as employed in th general engineering, metal-working, woodworking, stone-working and building industries	ible e (i) and (ii)		224	6	4G, 4J, 5A, 5F
Of the type, including hand-held, employed in civil engineering	ALL STREET		Tedte	a pho tun	00 04 04 10
mining and quarrying ottery and other ceramic making machin			158	7	3B, 3K, 3M, 4C
other than furnaces and kilns	(i) and -(ii)		15	6	1G, 4J
resses, other than metal-working Tableting and pelleting presses, othe	r			E	
than for powder metallurgy	(i) and (ii)		16	5	(b)
Plastics moulding (other than tableti and pelleting) and baling presses	$ \begin{array}{c} \text{ing} \\ \left\{\begin{array}{c} \text{(i)}\\ \text{(ii)} \end{array}\right\} $	284	142	11 5	3C, 3N, 4C, 4D 4C
rime movers		1 1 1 1 1 1 1 1	These and	ana nanitra	and a strategy and a
Internal combustion, new, other than aircraft, road vehicles (including agricultural tractors), ships and bo		in the	and a second	and the second	water at the set
Reciprocating				with with the	the sealants public
Compression ignition (diesel and dual fuel) over 50 b.h.p.	(i) and (ii)	. 10	1,351	7	31. 4B. 4K
Turbines, other than gas and marine	(i) (ii)		7,954 1,200		4C, 4K 4C, 4K
Other and unclassified	{(i) (ii)		6,067 2,941	19 31	3I, 4B, 4G, 4K 3I, 4B, 4K, 5E
ulpmaking and paper and board making machinery, including finishing machine	ry {(i) (ii)	:: 00	249 278	8 16	4C, 4D, 4H, 12A 4C, 4D, 4H, 4J
mps					A DATE THE DATE OF THE PARTY OF
Petrol and oil measuring	(ii)		3 03	14	31. 4C. 5E. 51
Hand pumps, other than petrol and oil measuring	l (i) and (ii)		7		5A

MECHANICAL ENGINEERING (GENERAL)

MECHANICAL ENGIN	EERING (GENERAL)
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Kind of output		1954			Principal industries in	
(i) Complete machines, etc. (ii) Parts		Quantity	Value	Entries	which produced (a	
MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)	·	No .	£.000	Numbe r	MCHINERY. A CLEENRERS	
Pumps (contd.)		1 (4) 3	dant .	polaatmen	est range lesigned	
Other kinds		1 and	Total In porces	ther then a	a street upont path	
Reciprocating	(ii) (iii)	178	251 263	12 11	3I, 4C, 4G 4C, 4G	
Centrifugal and turbine	(i) {	2,005	136 87	9	4G. 4K. 5F	
42 F 30 410	l(ii)	••••) bm	42	11	4D, 4J	
Rotary	(i) (ii)	1,938	322 87	14 13	4B, 4C, 4G, 5F 4B, 4G	
Other, including axial flow	((i) {	374	238 28	} 13	4B, 4G, 4N, 5A	
Other, including datal flow	(ii) (••	126	20	4C. 4G. 4J	
Pumps, unclassified	(i) (ii)		1,193 36	11	31. 3K. 3M 3B, 3M, 4K	
lefrigerating machinery	i.	(31) in	n (1)	a sin kato na	paitati bar polibl	
Automatic power operated refrigerators				ossil gate	ulore Archioling	
Complete	{	30,484	1,295	} 5	4K, 5E	
Mechanical units complete	{	77	6 7	}:		
Parts			143	8	4K. 5E	
Automatic heat operated refrigerators and non-automatic and unclassified refrigerating machinery	(i) (ii)		106 350	5 17	5E. 12A 3I. 3K. 5F. 11D	
lefuse and sewage disposal machinery (i) and		(141)	• 122	8	3C, 4F, 4G	
ewing machines (including machine heads) and parts thereof other than needles, new and reconditioned			those	ania gipali ani yana		
New, industrial }	{(i) ((i)	469	13	ter pile a	4D	
Reconditioned J teel-works and non-ferrous machinery and	((11)	••	10	8		
plant, not elsewhere specified Rolling mills (hot and cold), other	∫ (i)	12.17 4	128	5	3C, 4D	
than tube making	(ii)	••	64	5	3C, 4D, 4F	
Other steel-works and non-ferrous machinery and plant	{(i) (ii)	••	365 64	15 10	3B, 3G, 4D, 4F 4D, 4G, 4J	
anning and leather working machinery, other than boot and shoe making and repairing machinery	(i) (ii)		26 10	5	4D, 4J	
esting machinery and equipment	{(i) {(ii)		270	18	3G, 4C, 4F	
obacco processing and cigar and cigarette making machinery (i) and			31 683		4J, 5E	
ater treatment plant, other than plant for waterworks			entipse andra	dia .vor .	3L. 4C. 4H. 9M	
Water softeners, water filters and water sterilising equipment	{(i) (ii)		26 50	6	5E, 5F 4C, 4F	
eighing machines and parts thereof, other than ribbon spools with or without ribbons	(i) (ii)	iter a	94 59	9 11	3N. 4J. 5E. 5H	
ell drilling machinery	((i)		50	bas	4C. 4J. 5I 4J. 12A	
ire making machinery (i) and	(ii) (ii)		91	10 9	3C, 4F, 4G 4D, 5D	
ire working and wire winding machinery, other than cablemaking machinery	(ii) {(ii)		135 13	10 6	4D, 4K, 5A 4D	
econditioned machinery and plant, not			41001000	and date of the	product indiana	
elsewhere specified			231	11	3K, 4C, 4K, 7A	

Unclassified, complete and parts Fire extinguishing apparatus (other than fire engines, etc. and hand operated chemical extinguishers sold separately) Garage equipment and plant, not elsewhere specified Heavy plate work, not elsewhere specified Bunkers, bins and silos Welded and rivetted built-up plate work Lubricators and parts, other than of railway wagons, etc. axleboxes, not elsewhere specified Metal moulds (other than moulds and dies for use as engineers' small tools, moulds for use in civil engineering and ingot moulds and bottoms) Pressure gauges Storage tanks of iron and steel, assembled or not. 3/16 in. and over in thickness Tools and implements (excluding engineers' small tools, saws and sawblades), not elsewhere specified Cutting tools for use on woodworking machines Detachable tools (drilling bits, etc.) used in rock-drilling machinery

Other

Wood and metal patterns

Other and unclassified products of the industry (e)

(i) and

(i) and

TABLE 6 (contd.)

(ii) Parts

and pumps

Other (c)

presses

Oil Other

Kind of output (i) Complete machines, etc.

Other machinery and parts thereof Hydraulic, including hydraulic accumulators but excluding presses

Plant and machinery, unclassified

MACHINERY, AND PARTS THEREOF NOT ELSEWHERE SPECIFIED (contd.)

OTHER PRODUCTS OF THE INDUSTRY Arms, ammunition and naval, military and air force stores, not elsewhere specified (d) Carpet sweepers, not electrically operated, complete and parts Filters, other than water filters and filter

MECHANICAL ENGINEERING (GENERAL)

		1954		Principal industries in
	Quantity	Value	Entries	which produced (a)
	463.803	£.000	Number	PA ADMINI
		realise loss healts	sunt boy the	uddus gywaldadd
	1	and the Line and America	and a second second	PP 144 Statistics
	1 and	71.0	1,1	3K, 4B, 4C, 4G
(i) (i)		710 14	11 8	4C
li)	•••	7.894		rodel par states
ii)		4,955	···	mente anna andro
			1.01	
		26,287		(b)
			al statistics	4D. 5E. 11C
	a. 440	116	ante ateas	4D, 3E, 11C
	in ancient incert.	a to driv anni		and a second side
	No. 1 49,804	19		
	1	39	6	3F, 3I, 4J, 4K
	. il passo e qu'hian	34	6	4F, 4K, 40 4K, 5E, 5F
	···	e chose about 1	tine or con	TR, OL, OL
		179	13	31, 4J, 5F
	- the is were	at nets the end	8	
	···	498	23	3I, 4G, 5E
	Tons			TABLE P
	180	15	}	4F
	(299	26	}	17.57
	1	134	J	4F, 5E
	for the second second	ted cody adding.	appendix or with ph	and the second second second
		19		4J, 5E, 5F
	(132	13		
	۱	245	} 17	3B, 3I, 5E, 11I
	Thousands 71	226	1	- A server
		111	} 33	21. 4C. 5F. 5H
	Tons [11,133	1,003	wei z ind	e fore pairtitari
	{	780	} 58	4F, 5E
		Sheetyd yn Ondrae of State of	ORC AND AL	the state of the s
			pag propriet	Sont the sector
		2 07	16	4C, 5A
		651	7	3B, 4C, 40, 5A
		104	7	31. 4K. 40. 5A
		679	97	3B, 3C, 3G, 4K
		11,243	. autore po	Interior Policetar

MECHANICAL ENGINEERING (GENERAL)

TABLE 6 (contd.)

		1954	Principal industries in	
	Quantity	Value	Entries	which produced (a)
	Le present de la Constantina	£'000	Number	and the second s
OTHER PRODUCTS OF THE INDUSTRY (contd.) Machinery purchased and installed and other installation work		ECF FOR		GRA PARKENINA NA PARKENINA NA PARKENINA
Air conditioning, heating and ventilating plant and appliances		108	16	4A. 4F. 4J
Other (excluding marine machinery)		4,408	76	4F, 4H, 4J
Repair and jobbing work (f) (g)		7,959	359	3C, 3L, 3M, 4A, 4F
Research and development work (f)		355	7	anna the bir the
Other work done for the trade or on commission (f)		7,998	99	REN ARMAN ACTION
Total		152,140	alla ···	And Barthauther The

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Production is widely distributed among other industries.
(c) Including burners, transmission chains of iron, oil seals, automatic slot machines other than weighing machines, battery and cell making machinery not elsewhere specified, steam condensers other than marine, dishwashing machinery, fans with or without motors other than desk and ceiling fans, filter presses, lighting appliances not elsewhere specified, plantation machinery not elsewhere specified, pulverising machinery and plant other than crushing machinery for quarry products, rubber working machinery, stone working machinery not elsewhere specified, water meters and waterworks equipment and plant. (d) Excluding small arms and parts thereof for which see the Small Arms Industry (Volume 4, Industry E).

(e) Including fairground equipment, moulding boxes and parts, railway and tramway equipment, heat exchangers, pipes and chimneys, pressure vessels, sundry vessels, and heavy duty cooking apparatus not purely cast iron. (f) Amount charged.

(g) Exclusive of the value of goods made by firms and used in this work.

Sales in the industry of other than principal products

Larger establishments in the United Kingdom

TABLE 7

			1954
			Value
Wachine tools, metal=working	(other than portable power to	ole) and marte	£'000
New	(other than portuble power to		the second state
Boring and drilling			265
Grinding, other than three	ading		304
lathes	and the second		471
Milling, other than three	ding		362
Sawing	militan a tree T		189
Presses			3.436
Forging machinery, other	than presses		190
Punching and shearing	than prosoes		130
Tin box and can making		t the partmental resta	206
	plate and sheet metal working	michines not algembers	206
specified	place and sheet metal working	menines, not elsewhere	76
Screwing and threading		and the second	3 91
Other		front i - me the breakting of	873
Reconditioned			440
arine machinery and parts			
Boilers		and the second	
Water tube		1	2,657
Other			372
Internal combustion engines		add to introduce	ry build noor love has a
Compression ignition (die	sel), propelling	and a state of the second	
Not exceeding 50 b.h.p.			766
Over 50 b.h.p., not ove	r 300 b.h.p.		1.075
(96209)		•	2,0/0

TABLE 7 (contd.)

Marine machinery and parts (contd.) Internal combustion engines (contd.) Compression ignition (diesel), propelling (co Over 300 b.h.p., not over 1,500 b.h.p. Over 1,500 b.h.p. Compression ignition (diesel), auxiliary Steam Propelling Auxiliary, reciprocating Other descriptions Mechanical handling equipment and parts, new Aerial transporters Conveyors and elevators Belt Other Cranes and bridge transporters Tib Overhead travelling Other Hoists Winches and capstans Other Lifts and escalators For passengers For goods Other Mechanical handling equipment and parts, recondi Electric portable power tools and parts Printing, bookbinding, paper-working, etc. machi Printing machinery Other Textile machinery For processes preparatory to spinning and twis Looms for weaving, including parts Finishing machinery, including parts Other, including parts Accessories, sold separately Welding and cutting machinery and equipment, inc Small arms and ammunition Iron and steel fabricated Engineers' small tools and parts thereof Press tools Jigs and fixtures Other Tractors and industrial trucks Tractors Track-laying Other Industrial and works trucks Parts of tractors and mechanically-propelled Hand trucks and trolleys, including parts (96209)

MECHANICAL ENGINEERING (GENERAL)

	1954
	Value
and a prime period and an and a second	£'000
NING PRESS	
d.)	
all properties and i have a standard and and	4,576
	3 0 5
and the set of the set of the	4,042
Tischetse tradies	0.100
trass or to a	2,188 340
rackedy and Theest	11,303
	11,000
wegome and parts threeps or los. Types	610
and purifies to add the period	
	2,345
	1,796
Instant to set 1	1,724
and the section of the section of the	1,724
etues 'eastalus	212
agent b	
reacting sites and presence gauges	1,279
dere an there was	189
	363
to the second second second second second	562
oned	1,934 174
oned	851
and parts	and the first
and the second s	1,617
Line 1400	555
Received in the	
ng, including parts	232
	159
and the second	1,124 1,174
	573
ding parts	108
s destructions and	4,190
	5,321
	in and then the state
	458
	769
	1,265
	and and a second for
	423
	3,581
	1,608
ustrial trucks	1,128
	2 02

MECHANICAL ENGINEERING (GENERAL)

TABLE 7 (contd.)

	1954
	Va lue
Electrical machinery and apparatus, including parts	£*000
Generators and generating sets	2,235
Motors	1,869
Washing machines, vacuum cleaners and floor polishers, including parts	2,906
Other	2,338
Motor vehicles and cycles, and parts	2,000
Parts of motor vehicles and cycles	3,507
Other descriptions, including trailers	587
Aircraft parts and accessories	2,586
Rail locomotives and parts (except axles, tyres and wheels)	2,347
Road rollers and parts	1,534
Railway carriages and wagons, and parts (except axles, tyres and wheels)	2,495
Non-mechanically propelled vehicles (except cycles) and parts	93
Tools and implements	33
Engineers' hand tools	158
Other	816
Uther Hollow-ware of wrought iron or steel	1,579
Manufactures of brass or other copper alloys, not elsewhere specified	1.3/9
Engineers' and mechanicians' goods	100
Domestic cocks and taps	122
Other, excluding industrial valves and pressure gauges	127
Castings in the rough, sold as such	615
Other Stanion and any finance stall	1,030
Stampings and pressings of iron or steel	841
Scientific, surgical and photographic instruments, apparatus and appliances	867
Castings of iron or steel Iron	0.004
Steel	6,694
Drop forgings	1,568 279
Furniture of metal and parts thereof	425
Machinery guards of sheet metal	42.5
Other manufactures	8,999
Scrap metals sold	0,333
Iron and steel	0 007
Brass	2,227
Copper	2,217 399
Other	1,230
	1,230
Structural work carried out in the United Kingdom	
Work done as main or direct contractors	
Houses and flats	COCHE DE LE COME DE LA COMPANY
Construction of new houses and flats	58
Repair and maintenance of houses and flats	13
Construction, alteration, repair or maintenance of	
Railways and light railways, tramways and trackless trolley systems, etc.	1 03
Gas works and mains	282
Power stations	461
All other civil engineering work including highways, harbours, airfields, etc.	143
New construction work (including site preparation, and major extensions and alterations)	
Factories, workshops and other industrial premises (e.g. oil refineries, steel works, etc.)	685
Warehouses and storage premises	685
	113

MECHANICAL ENGINEERING (GENERAL)

(96209)

TABLE 7 (contd.) Structural work carried out in the United Kingdom Work done as main or direct contractors (contd.) New construction work (including site preparati and alterations) (contd.) Other new construction work including hospita college buildings, etc. All repair and maintenance work not included abo Work done as sub-contractors Total constructional engineering, etc. Less total value of goods made or fabr and used in the work Total constructional engineering, etc. made and used by firms (a) Other work done (a) Total 28,94 (a) Amount charged. Total make of intermediate products Larger establishments in the United Kingdom TABLE 8 Other than principal products Iron and steel castings Iron (a) Grey and high duty Malleable (white or blackheart) Steel (b) Non-alloy Alloy (a) For total output returned in all industries see the Iron Foundries Industry (Volume 3, Industry C).
(b) For total output returned in all industries see the Iron and Steel (Melting and Rolling) Industry (Volume 3, Industry B).

	1954
	Value
	£'000
(contd.)	
ion, and major extensions	and mail and second
ton, and mijor extensions	and there are a series of the
ils, clinics, schools and	the representation of the
	535
oove	313
	801
. work	3,510
ricated in firms' own works	872
. work exclusive of goods	
	2,638
	472
	128,940

Re	turne	d in this indus	try
1951	1951		54
Quantity	Las - 1 98	Quantity	Entries
Th.tons		Th.tons	Numbe r
		442.2	200
517.7	{	442.2	329 13
27.3	ata	30.1	17
8.3		21.9	15

MECHANICAL ENGINEERING (GENERAL)

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

G20 3	Quantity	Cost
Materials (1999)	Th.tons	£,000
Iron and steel	inclo sine collo	17 MILL 1 19435
Drop forgings	{ 25.1	3,874
EES	(69.9	637 5,755
Wrought tubes and fittings for wrought tubes	{	752
Fabricated bridge components and other structural iron and steelwork	8 35.4	3.214 764
Wire (single wire)	7.5	770
Wire manufactures, including wire cables and ropes and stranded wire of two or more ply	\$ 2.7	444 262
Chains	antituest same 1 ph	202
Transmission and conveyor types	{ 2.1	708
	((0.8	699 119
Other chains	1	398
Iron and steel scrap Other iron	197.2	1,603
Pig-iron, except refined pig-iron	275.1	4,837
Castings in the rough or machined, except machined castings		1,007
elsewhere specified	232.9	17.246
Other iron, except finished parts Ferro-alloys	29.0	1,614
Spiegeleisen and ferro-manganese (other than refined)	1 1.2	78
		19
Other ferro-alloys	{ 4.2 	480 122
Other steel (alloy and non-alloy)		
Ingots, blooms, billets, and slabs, and sheet and tinplate bars Angles, shapes, sections, bars, rods (including wire rods) and	149.1	6,005
girders, beams and joists (not fabricated)	545.5	26,181
Castings in the rough or matchined, except matchined castings elsewhere specified	120.8	15,339
Forgings, except drop forgings, in the rough or machined, except	1 34.0	5,400
machined forgings elsewhere specified	1	1,724
Tin-, terne-, and black-plates and tinned and terne sheets	{ ^{17.8} 	971 129
Other plates and sheets, 1/8 in. thick and over, and hoop and strip (including tape) of all thicknesses	518.1	20,680
Other plates and sheets under 1/8 in. thick, including electrical		20,000
quality sheets	130.4	7,785
Axles, tyres and wheels (rail type)	{	203 148
Springs, laminated and other types	1.7	269 594
Light metals and non-ferrous metals in all forms, except finished parts,	the store and	554
wire and scrap	Th.cwt.	david too
Aluminium and aluminium alloys	436.4	6,398
Magnesium and magnesium alloys	6.7	692 198
Antimony	1 4.4	52
Brass and other alloys of copper, including nickel silver and	η	15
cupro-nickel, but excluding other nickel alloys	Andrew Angling	2267 267 16
Castings	356.8	6,476
Other	792.3	663 10.556
(96209)	ų	1,419

	Quantity	Cost
230.73	Th.cwt.	£,000
terials (contd.)		
Light metals and non-ferrous metals in all forms, except finished parts, wire and scrap (contd.)	amparents for incorpore	
Copper	471.8	7.293
Lead and alloys of lead. except solder	112.4	755
Tin	46.7	1,645
Zinc	193.2	995
Non-ferrous metal wire, not insulated	{ 2.2	27 31
Soft solder	18.3	344
Scrap non-ferrous metals	92.3	681
Insulated wires and cables		1,151
all deserves and a second of the second s	(101.2	1,886
Rubber in all forms, including finished parts	1	2,427
	Th.tons	Neter pice
Refractory materials	90.8	51 7
	al birarial brandoru	52
Asbestos in all forms, including finished parts	all the part of the	71
Other thermal insulating materials	*******	2,62
Paint, enamel and varnish	Th.gal.	
	5 3,161.4	79
Lubricating oils and greases (including cutting oil and emulsions)	{	48
Timber (excluding timber for making into packing cases, etc. or for repairing returnable cases)	* (the reding or gents /	and blank
for repairing returnable cases)	Th.cu.ft.	1 1990 A. 1975
des at the second se	\$ 3.012.3	2,17
Hardwood and softwood	stall in the last	28
	Th.sq.ft.	
Plywood, including battenboard, blockboard and laminboard	6,485.0	37
Nuts, bolts, studs, screws, rivets, washers, mails, tacks, etc.	· · · · · · · · · · · · · · · · · · ·	5,61
Purchased components for incorporation in own products		
Ball and roller bearings and parts		4,52
	Thousands	Fran Ger
Internal combustion engines	{ 96.8 	6,88
Electric motors	571.9	7.78
Liectric motors	(d) beautoring	4,08
Pumps	{ 43.5 	1,74
Industrial valves	s -ebradi .idolad	3,09
Gears and gearwheels of metal		3.71
Measuring instruments and gauges and parts		
Electronic (including valves)	Test bankbul	60
Other	inter inter	1,59
Other purchased components		
Finished components of plastic materials	MALINAL CLUB IN THE LEVEL MALIN	1,51

MECHANICAL ENGINEERING (GENERAL)

MECHANICAL ENGINEERING (GENERAL)

TABLE 9 (contd.)

- Questafy Cost	Quantity	Cost
add a second		£°000
Materials (contd.)	· (. b)	and all a reside
Purchased components for incorporation in own products (contd.)	for the state of the second	a ma and the first
Other purchased components (contd.)		Connet
Other, not elsewhere specified	. bool '18' teratt	78.157
Replacement parts for plant, machinery and vehicles		6,167
Consumable tools, including gauges, etc. bought as replacement		7, 547
Packaging materials	Ann anim Inian	
Paper and paperboard, and cardboard boxes, fibreboard packing cases, etc.	· · ·	1,315
and the second and the second of the second s	Th.cu.ft. or	rotion side
188 / 0.128	Th.cu.ft. of timber used	Benne grand
Timber and timber packing cases, etc.	4,152.9	2,191
		1,555
	Th.cwt.	
Jute piece goods, including hessian, and jute sacks and bags	3.4	22 42
Other packing materials	alpingla	576
All other purchased materials	anal min lin	57,351
Unclassified materials	na patraterat i	13,991
Fuel and electricity		arne issieht
it mp. dt	Th.tons	
Coal and the state of the second s	882.0	3,559
Coke	387.1	2.466
Liquid fuels (including creosote/pitch mixtures)		ase) tetali sicqer sel
For use in internal combustion engines	T 1 1	
- This is a second the second second second second in the second s	Th.gal.	1 504
Motor spirit (petrol) for use in road vehicles and derv. fuel	7.525.1	1,524 277
Other	7,590.5	442
For burning in furnaces, boilers, kilns, etc.	28,147.4	1,333
Gas purchased (a)		a handdings
222.4	Th.therms	
From Gas Boards	46,044.5	2,317
and a second and a second poster 1/1 as thinks to resting admittant.	••	315
682,5	Th.cu.ft. 340,473.0	129
From other sources, including other departments of the same firms		25
Electricity purchased (b)		
CAR I - The second s	Th.kWh.	and an a constant
From Electricity Boards {	1,188,064	6,213 633
From other sources, including other departments of the same firms	38,190	151
All other purchased fuel	and an and in state of a second	242
Total cost	17 Jult 200 2 State 1 - 52 S	410 010
		416,316

TABLE 10 Average number of employees Operatives Administrative, technical and clerical employees Total Wages and salaries paid to Operatives Administrative, technical and clerical employees Total Wages and salaries per head Operatives Administrative, technical and clerical employees Superannuation and other pension funds for employe and dependents (b) Employers' contributions Employees covered Pension, etc. payments to former employees and dep (a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting); Canteen workers Males Females Total Other workers Males Females Total Total excluded employees (b) The figures given relate to larger establishments in Great Britain only. Employment in a specified week (a) Larger establishments in the United Kingdom

		1951			1954	
	Males	Females	Total	Males	Females	Total
Working proprietors	340	9	349	268	14	282
Operatives	368,243	46,556	414,799	395,345	51,587	446,932
Administrative, technical and clerical employees	85,416	40,539	125,955	100,146	46,214	146,360
Total employees	453,659	87,095	540,754	495,491	97,801	593,292

(a) Week ended September 22, 1951, or October 30, 1954.

(a) Owing to the risk of disclosure of information relating to individual firms the total quantity of gas (a) Swing to the first of disclosure of information relating to individual firms the total quantity of gas produced in firms' own establishments cannot be given.
 (b) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 134,811 Th.kWh.

MECHANICAL ENGINEERING (GENERAL)

Average number of employees and wages, salaries and superannuation payments (a)

Larger establishments in the United Kingdom

	1051	
	1951	1954
	Number	Number
3	413.783 124.345	436.856 141.448
	538,128	578,304
	£.000	£,000
3	158,852 60,283	206.195 82.904
	219,135	289,100
	£	£
5	384 485	472 586
ees		
		£°000 5,359
		Number 212,718
pendents (b)		£'000 860

1951	1954
Number	Number
413 5,055	279 5,089
5,468	5,368
5,400	5,500
3.745 1,529	3,137 1,400
5,274	4,537
10,742	9,905

								LIST OF INDU
					and a second		VOLUME 1	VOLUI
					I SLIBBAN		Coal Mines	H. Printing and
					designed and	Β.	Non-Metalliferous Mines and Quarries (other than Coal, Salt	I. Mechanical En J. Mechanical En
						C	and Slate) Salt Mines, Brine Pits and	K. Electrical En L. Electric Wire
					Same and B		Salt Works	M. Radio and Te. N. Batteries and
						D. E.	Slate Quarries and Mines Metalliferous Mines and Quarries	O. Electric Light
							Brick and Fireclay Ching and Earthenware	Fittings
					1. State	Н.	Glass Containers	VOLU
					The set of	J.	Glass (other than Containers) Cement	A. Tool and Imp
					A SALANDA		Abrasives Building Materials	B. Cutlery C. Chain, Nail,
	Harmond Ampre mary	Part Superior			to Lota		Manufactured Fuel	Miscellaneo
							VOLUME 2	D. Wire and Wire E. Hardware, Ho
						٨.	Coke Ovens and By-products	Furniture an F. Brass Manufa
					a to a separat	В.	Dyes and Dyestuffs	G. Needles, Pina Metal Smalls
					starmal 1		Fertiliser, Disinfectant, Insecti- cide and Allied Industries	H. Scientific,
					二 為 化明阳床		Coal Tar Products Chemicals (General)	Photographic I. Watch and Cla
					a a ta ta degrada de la de Recentaria de la degrada de	F.	Drugs and Pharmaceutical Preparations	J. Jewellery and K. Precious Mete
							Toilet Preparations and Perfumery	L. Musical Inst
					-	I.	Explosives and Fireworks Paint and Varnish	VOLU
					1 Laure		Soap. Candles and Glycerine Polishes	
						L.	Ink Match	A. Cotton Spinn B. Cotton Weavin
					(ANT MATCHE	N.	Mineral Oil Refining	C. Woollen and
					17 103	Ρ.	Oils and Greases Seed Crushing and Oil Refining	D. Rayon, Nylon E. Rayon, Nylon
					S. Market	Q.	Glue, Gum, Paste and Allied Industries	Silk F. Flax Process
					1	R.	Plastics Materials	G. Linen and So H. Jute
							VOLUME 3	I. Rope, Twine
							Blast Furnaces	J. Hosiery and K. Lace
							Iron and Steel (Melting and	L. Carpets M. Narrow Fabri
							Rolling) Iron Foundries	N. Canvas Goods O. Textile Conv
							Steel Sheets Tinplate	P. Made-up Hous
					Mark 1	F.	Wrought Iron and Steel Tubes Non-Ferrous Metals (Smelting,	Q. Textile Finis R. Textile Pack
						Constant of the	Rolling, etc.)	VOIN
						H. I.	Scrap Metal Processing Motor Vehicles and Cycles	VOLU A. Asbestos
						J.	(Manufacturing) Motor Vehicles and Cycles	B. Flock and Ra
							(Repairing) Aircraft Manufacture and Repair	C. Hair, Fibre Industries
							Railway Locomotive Shops and	D. Leather (Tan E. Fellmongery
						M.	Locomotive Manufacturing Railway Carriages and Wagons	E. Leather Good G. Fur
						Ν.	and Trams Carts, Perambulators, etc.	H. Tailoring, D
					and the second second			I. Hats, Caps a J. Glove
					- Charles and a		VOLUME 4	K. Umbrella and
						A.	Shipbuilding and Ship Repairing	L. Boot and Sho
							Marine Engineering Machine Tools	VOLU
			1 114		per la v	D.	Textile Machinery and Accessories	A. Grain Millin
					1 - Designed		Small Arms Constructional Engineering	B. Bread and Fl C. Biscuit
					at the the	G.	Mechanical Handling Equipment	D. Bacon Curing
					Sal			
					and I all			
					Internal A			

LIST OF INDUSTRY REPORTS

JME 4 (contd.)

nd Bookbinding Machinery Engineering (General) Engineering (Repairing) Engineering (General) ires and Cables Telecommunications and Accumulators ghting Accessories and

UME 5

plement

Screw and eous Forgings ire Manufactures Hollow-ware, Metal and Sheet Metal and Sneet Metal factures ns, Fish Hooks and Iwares Surgical and ic Instruments, etc. llock and Plate tals Refining trumen ts

UME 6

ning and Doubling ing Wors ted on, etc. Production on, etc. Weaving, and

sing Soft Hemp

and Net Other Knitted Goods

- ics
- nics Is and Sacks Inverting Ischold Textiles Nishing
- king

UME 7

- ag and Kindred mning and Dressing) da
- Dressmaking, etc. and Millinery
- d Walking Stick

UME 8

Flour Confectionery

g and Sausage

VOLUME 8 (contd.)

- E. Preserved Meat F. Milk Products

- G. Ice Cream H. Sugar and Glucose I. Cocca, Chocolate and Sugar Confectionery J. Preserved Fruit and Vegetables

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- C. Cattle, Dog and Poultry Foods D. Vinegar and Other Condiments E. Starch

- F. Ice G. Miscellaneous Preserved Foods H. Brewing and Malting I. Wholesale Bottling

- J. Spirit Distilling K. Spirit Rectifying and Compounding L. Soft Drinks, British Wines and Cider M. Tobacco

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- A. limber B. Furniture and Upholstery C. Soft Furnishings D. Shop and Office Fitting E. Wooden Containers and Baskets
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- G. Wallpaper H. Cardboard Box, Carton and Fibre-board Packing Case I. Manufactured Stationery, Paper Bag and Kindred Industries
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- B. Linoleum, Leathercloth and Allied Industries
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- D. Toys and Games

- D. Toys and Games E. Sports Requisites F. Miscellaneous Stationers Goods G. Cinematograph Film Production H. Cinematograph Film Printing I. Plastic Goods and Fancy Articles J. Incandescent Mantles

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 C. Railways (Civil Engineering)
 D. Tranway, Trolley Bus and Omnibus Undertakings (Civil Engineering)
 E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- Engineering) F. Gas Supply Industry G. Electricity Supply Industry H. Water Undertakings

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