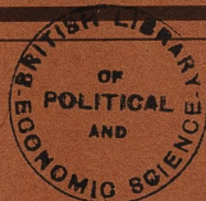


BOARD OF TRADE

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*The Report on the  
Censuses of Production  
for 1952 and 1953*



VOLUME 2

Engineering, Shipbuilding and Vehicles

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

LONDON: HER MAJESTY'S STATIONERY OFFICE

1956

TWO SHILLINGS NET

*The Report on the Censuses of Production  
for 1952 and 1953*

VOLUME 2  
ENGINEERING, SHIPBUILDING AND VEHICLES

GENERAL NOTES

1. The figures in the tables relate to the United Kingdom of Great Britain and Northern Ireland unless otherwise stated.
2. Sampling methods were employed in the censuses for Great Britain (but not Northern Ireland) for 1952 and 1953. The use of sampling methods inevitably means that precise figures cannot be obtained, and that a margin of uncertainty attaches to most of the figures published for individual industries.
3. The figures in this report cannot be regarded as accurate to the last digit shown, though for convenience of presentation most of the values are given to the nearest £ thousand. As the figures have been rounded to the nearest final digit, there may be in some tables apparent slight discrepancies between the sums of the constituent items and the totals shown.
4. The following symbols are used throughout the reports:
  - .. for not available
  - for nil or negligible (less than half the final digit shown)
5. In interpreting the data in the following tables it is essential to bear in mind not only the qualifications mentioned in this volume, but also the general explanations and qualifications contained in the separate booklet published in this series entitled 'The Report on the Censuses of Production for 1952 and 1953: Introductory Notes', price 1s. 6d. net.

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VOLUME 2

Engineering, Shipbuilding and Vehicles

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Table	Order or Trade	Standard Industrial Classification minimum list heading	Activities in which establishments in the Order or trade were wholly or mainly engaged	Page
A	Order VI	29(3) (part) and 50 to 74 inc. and 79 (part)	Engineering, shipbuilding and electrical goods. ... ..	22
B	Shipbuilding and Ship Repairing	50	The building or repairing of ships, boats, barges, lighters, etc., of all types and sizes, whether self-propelled or not. The manufacture of oars, masts and spars, rigging and other tackle (but not engines), and of ships' models is included. The Admiralty dockyards are included in this report. The manufacture and installation of main and auxiliary engines for ships, marine turbines, etc., is excluded and details of these activities are included in the Marine Engineering Trade - C. The output of the establishments making returns in this trade was mostly returned in terms of work done in the year of return, but net selling value was recorded for ships completed in the year of return with the value of work in progress on these ships at the beginning of the year. ... ..	22
C	Marine Engineering	51(2)	The manufacture and installation by other than Government establishments of main and auxiliary engines for ships, marine boilers and turbines, and engines and out-board motors for motor-boats. There were no Government establishments mainly engaged in marine engineering corresponding to minimum list heading 51(1). ... ..	23
D	Machine Tools	54	The manufacture of metal-working machine tools, engineers' small tools for use with machine tools, and welding machinery of all descriptions. ... ..	23
E	Textile Machinery and Accessories	56	The manufacture of spinning, winding, weaving, knitting, printing, dyeing, etc., machinery for use in the textile industries, and accessories such as bobbins, combs, jacquard cards, reeds, rollers, shuttles and spindles. ... ..	24
F	Constructional Engineering	58	The manufacture of structural iron and steel work, tubular scaffolding and prefabricated houses of steel or aluminium, and constructional engineering work. Firms engaged in similar constructional work that did not themselves make any of the material used are included in the Building and Contracting Trade. ... ..	24
G	Mechanical Handling Equipment	69(7)	The manufacture of cranes, lifts, hoists, elevators (other than agricultural), escalators, belt or chain conveyors (other than for mines), excavating and dredging machinery (cableway drag-line and dredge, etc., excavators). Establishments mainly manufacturing excavating machines of a type generally associated with civil engineering and contracting plant (e.g. bulldozers, trenching, ditching and similar digging machinery) are excluded from this trade but are covered by the Mechanical Engineering (General) Trade - H. ... ..	25

Table	Order or Trade	Standard Industrial Classification minimum list heading	Activities in which establishments in the Order or trade were wholly or mainly engaged	Page
H	Mechanical Engineering (General)	52, 53, 55, 57 (part) and 69 (1-6, 9-12)	The manufacture of mechanical engineering products other than Marine Machinery, Machine Tools, Textile Machinery Small Arms, Constructional Engineering, Mechanical Handling Equipment, Printing and Bookbinding Machinery. Establishments engaged in Mechanical Engineering (Repairing) are also excluded. . . . .	25
I	Electrical Engineering (General)	29(3) (part), 70 and 79(part)	The manufacture of electricity generating plant, transformers, dynamos, electric motors, switchgear, electrical equipment for motor vehicles, cycles and aircraft, and other electrical goods except electric wires and cables, radio and tele-communication apparatus and equipment, batteries and accumulators, and electric lighting accessories and fittings. The manufacture of mica goods is also included. . . . .	26
J	Electric Wires and Cables	71	The manufacture of insulated electric wires and cables. . . . .	26
K	Radio and Telecommunications	72, 73 and 74	The manufacture of telegraph and telephone equipment, radio apparatus, gramophones, electric lamps including discharge lamps. . . . .  Information on the following trades in Order VI is not separately published for 1952 and 1953: Small Arms Printing and Book-binding Machinery Mechanical Engineering (Repairing) Batteries and Accumulators Electric Lighting Accessories and Fittings.	27
L	Order VII	80 to 89 inc.	Vehicles. . . . .	28
M	Motor Vehicles and Cycles (Manufacturing)	80 and 83 (part)	The manufacture of motor vehicles and cycles, including parts and accessories other than electrical equipment, rubber tyres and tubes, transmission chains, ball and roller bearings, and springs. . . . .	28
N	Motor Vehicles and Cycles (Repairing)	81(1) and 81 (2) (part)	The repair of motor vehicles and cycles for the trade, including the repair establishments of firms and of transport undertakings which were similarly engaged in work on their own vehicles (other than establishments solely engaged in routine maintenance work). . . . .	29
O	Aircraft Manufacture and Repair	82 and 83 (part)	The manufacture and repair of complete aircraft (including gliders, airships and balloons) and frames, and of engines, propellers, undercarriages, and other parts and accessories (except electrical equipment). . . . .	29
P	Railway Locomotive Shops and Other Locomotive Manufacturing	84 and 85	The manufacture of locomotives, mechanical railway signals, turntables, automatic couplings and brake gear (including repair work other than light repairs carried out in running sheds), steam traction engines, steam wagons and road rollers. . . . .	30
Q	Railway Carriages, Wagons and Trams	86(1) and 86 (2)	The manufacture and repair of railway coaches, wagons, etc., tramcars, colliery tubs, trams and trucks, etc. . . . .  Information on the following trade in Order VII is not separately published for 1952 and 1953: Carts, Perambulators, etc.	30

Table	Order or Trade	Standard Industrial Classification minimum list heading	Activities in which establishments in the Order or trade were wholly or mainly engaged	Page
R	Order VIII	90 to 99 inc.	Metal goods not elsewhere specified. . . . .	31
S	Chain, Nail, Screw and Miscellaneous Forgings	91, 92 and 99 (4)	The manufacture of bolts, nuts, screws, rivets, nails, etc., (other than wire nails), laminated and other springs (including clock and watch springs), anchors and chains (other than transmission chains), steel drop forgings and miscellaneous iron forgings. Miscellaneous steel forgings other than drop forgings are included in the Iron and Steel (Melting and Rolling) Trade . . . . .	31
T	Wire and Wire Manufactures	93	The manufacture of ferrous and non-ferrous wire and wire products such as wire nails, wire netting, wire gauze, wire brushes, etc. The manufacture of insulated electrical wire and cables, and of wire mattresses and springs is excluded from this trade but is covered by the Electric Wires and Cables Trade - J, and the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trade - U, respectively. . . . .	32
U	Hardware, Hollow-ware, Metal Furniture and Sheet Metal	94 and 99 (1 2, 3 and 7)	The manufacture of a large variety of finished metal goods including domestic and industrial hollow-ware, metal boxes and containers, metal furniture, metal windows and door frames, safes, locks, latches and keys. Most of the products proper to this trade are made of iron and steel, but in some cases non-ferrous metals form the main or sole materials; goods wholly of brass are, however, generally excluded. . . . .	32
V	Brass Manufactures	95	The manufacture of brass castings, stampings and pressings. Brass manufactures covered in other trades include brass nails, screws, bolts, rivets, washers, etc., in the Chain, Nail, Screw and Miscellaneous Forgings Trade; brass wire in the Wire and Wire Manufactures Trade; and Smallwares of brass in the Needles, Pins, Fishhooks and Metal Smallwares Trade; while there is some output of brass articles in the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trade. . . . .  Information on the following trades in Order VIII is not separately published in 1952 and 1953: Tool and Implement Cutlery Needles, Pins, Fishhooks and Metal Small-wares Scrap Metal Processing.	33
W	Order IX	100 to 103 inc. and 199(2)	Precision instruments, jewellery, etc. . . . .	34
X	Scientific, Surgical and Photographic Instruments, etc.	100 and 199(2)	The manufacture of photographic equipment; optical instruments; ophthalmic optical instruments; surgical, dental and veterinary instruments and appliances; measuring instruments; and photographic paper and films etc. Government establishments are included. . . . .  Information on the following trades in Order IX is not separately published for 1952 and 1953: Watch and Clock Jewellery and Plate Precious Metals Refining Musical Instruments.	34

TABLE A - ORDER VI ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS

	Unit	1953(a)	1952(a)(m)	1951	1950(n)	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	8,188	7,765	8,101
Total value of sales and work done	£'000	2,610,806	2,488,309	2,155,000	1,743,735	1,698,406
Products on hand for sale	No.	588,721	489,842	400,338	360,723	366,306
and work in progress		{ at beginning of year	621,776	578,084	478,457	372,713
Gross output (production) (b)	..	2,643,857	2,576,549	2,233,123	1,742,337	1,706,672
Purchases of materials and fuel (c)	..	1,199,148	1,271,689	1,125,149	806,692	769,182
Stocks of materials and fuel	No.	293,283	265,555	188,080	167,378	176,398
{ at beginning of year		..	266,125	298,137	259,949	176,776
{ at end of year	..	1,226,306	1,239,107	1,053,282	797,292	771,791
Cost of materials and fuel used	..	84,292	78,814	69,780	53,580	66,408
Payment for work done on materials given out	..	25,367	24,853	21,611	13,385	12,703
Payment for transport (d)	..					
Net output	..	1,307,891	1,233,776	1,088,451	891,465	868,474
Average number employed (e)	No.	1,405,552	1,428,059	1,360,841	1,252,904	1,293,594
{ operatives (c)		..	406,391	400,042	367,749	329,515
{ other workers	..	1,813,105	1,829,344	1,729,595	1,583,461	1,624,827
Total employment, including working proprietors (e)	..					
Net output per person employed (f)	£	721	674	629	563	535
Wages and salaries (e)	£'000	605,444	578,055	497,812	416,660	417,073
{ of operatives		..	223,271	208,862	177,561	148,085
{ of other workers	..					
Capital expenditure on new building work (g)	..	21,267	20,118	17,080	..	10,343
Plant and machinery	No.	59,229	59,093	49,075	..	33,057
{ acquisitions (g)		..	3,404	3,849	2,981	..
{ disposals	..	7,857	9,011	7,098	..	3,902
Vehicles	..	1,687	1,860	1,340	..	836
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	5,555	5,661	6,230
Average number employed, including working proprietors	..	31,821	31,860	32,960	32,517	34,704
ALL FIRMS: estimated average employment (f)(h)(i)	..	1,844,926	1,861,204	1,767,970	1,619,461	1,664,052

TABLE B - SHIPBUILDING AND SHIP REPAIRING

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	686	682	700
Gross output (production), i.e., value of work done and goods sold (j)	£'000	296,543	278,383	249,115	234,975	245,993
Purchases of materials and fuel (c)	..	128,234	120,449	110,375	96,740	99,274
Stocks of materials and fuel	No.	18,524	16,928	11,707	12,096	12,057
{ at beginning of year		..	17,411	19,542	16,506	12,190
{ at end of year	..	129,345	117,835	105,576	96,646	99,214
Cost of materials and fuel used	..	35,216	35,620	32,743	30,735	36,050
Payment for work done on materials given out	..	1,160	912	772	299	346
Payment for transport (d)	..					
Net output	..	130,820	124,017	110,025	107,295	110,383
Average number employed (e)	No.	191,393	191,196	184,860	189,506	203,821
{ operatives		..	24,170	23,481	22,828	22,623
{ other workers	..	215,678	214,814	207,788	212,242	227,073
Total employment, including working proprietors (e)	..					
Net output per person employed (f)	£	607	577	530	506	486
Wages and salaries (e)	£'000	88,556	84,831	72,683	68,589	72,386
{ of operatives		..	13,554	12,415	11,063	10,369
{ of other workers	..					
Capital expenditure on new building work (g)	..	2,365	1,816	1,459	..	1,135
Plant and machinery	No.	2,227	2,100	2,281	..	2,277
{ acquisitions (g)		..	51	102	49	..
{ disposals	..	292	367	351	..	160
Vehicles	..	54	79	57	..	27
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	410	365	358
Average number employed, including working proprietors	..	2,372	2,542	2,405	2,144	2,119
ALL FIRMS: estimated average employment (f)(h)(i)	..	218,050	217,356	210,480	214,578	229,436

TABLE C - MECHANICAL ENGINEERING - MARINE ENGINEERING

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	96	104	102
Total value of sales and work done	£'000	80,945	68,580	67,709	67,766	64,893
Products on hand for sale	No.	61,061	51,838	49,119	53,727	51,963
and work in progress		{ at beginning of year	71,606	60,965	49,702	52,972
Gross output (production) (b)	..	91,490	77,707	68,292	66,714	67,046
Purchases of materials and fuel (c)	..	50,070	44,076	35,773	34,298	35,080
Stocks of materials and fuel	No.	6,720	4,892	4,047	4,415	4,241
{ at beginning of year		..	6,924	6,429	5,171	4,457
{ at end of year	..	49,866	42,538	34,650	34,256	34,862
Cost of materials and fuel used	..	2,086	1,553	1,591	1,887	1,612
Payment for work done on materials given out	..	423	339	310	296	291
Payment for transport (d)	..					
Net output	..	39,114	33,277	31,743	30,571	30,573
Average number employed (e)	No.	49,033	47,632	47,488	51,368	53,335
{ operatives		..	10,313	9,974	9,521	9,798
{ other workers	..	59,346	57,608	57,014	61,173	63,196
Total employment, including working proprietors (e)	..					
Net output per person employed (f)	£	659	578	557	500	484
Wages and salaries (e)	£'000	21,353	19,315	17,247	16,901	16,940
{ of operatives		..	5,841	5,286	4,551	4,327
{ of other workers	..					
Capital expenditure on new building work (g)	..	808	341	332	..	261
Plant and machinery	No.	2,077	2,022	1,794	..	1,383
{ acquisitions (g)		..	36	42	58	..
{ disposals	..	52	53	52	..	37
Vehicles	..	8	10	7	..	3
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	30	26	20
Average number employed, including working proprietors	..	150	150	158	140	110
ALL FIRMS: estimated average employment (f)(h)(i)	..	59,496	57,758	57,177	61,325	63,306

TABLE D - MECHANICAL ENGINEERING - MACHINE TOOL TRADE

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	681	645	627
Total value of sales and work done	£'000	147,143	144,421	108,543	83,027	73,835
Products on hand for sale	No.	30,248	25,711	18,897	16,773	14,971
and work in progress		{ at beginning of year	29,666	30,131	23,452	17,656
Gross output (production) (b)	..	146,561	148,841	113,097	83,409	74,999
Purchases of materials and fuel (c)	..	54,225	66,174	50,019	32,640	29,815
Stocks of materials and fuel	No.	13,024	(k)	7,938	7,580	6,893
{ at beginning of year		..	11,993	(k)	11,436	7,628
{ at end of year	..	55,256	63,603	46,521	32,591	29,234
Cost of materials and fuel used	..	3,940	2,485	1,871	1,507	1,354
Payment for work done on materials given out	..	1,170	1,377	984	501	385
Payment for transport (d)	..					
Net output	..	86,195	81,376	63,721	49,311	44,411
Average number employed (e)	No.	78,400	81,854	69,811	63,213	62,436
{ operatives		..	19,593	19,758	17,178	15,710
{ other workers	..	98,215	101,788	87,072	78,994	77,633
Total employment, including working proprietors (e)	..					
Net output per person employed (f)	£	878	799	732	624	572
Wages and salaries (e)	£'000	36,449	35,619	26,929	22,012	20,528
{ of operatives		..	12,572	11,434	9,163	7,586
{ of other workers	..					
Capital expenditure on new building work (g)	..	914	1,132	736	..	530
Plant and machinery	No.	4,331	3,960	3,395	..	2,165
{ acquisitions (g)		..	299	429	327	..
{ disposals	..	797	866	505	..	308
Vehicles	..	242	230	112	..	75
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	306	302	264
Average number employed, including working proprietors	..	1,916	1,914	2,015	1,925	1,726
ALL FIRMS: estimated average employment (f)(h)(i)	..	100,131	103,702	89,368	81,001	79,439

TABLE E - MECHANICAL ENGINEERING - TEXTILE MACHINERY AND ACCESSORIES

	Unit	1953(a)	1952(m)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	460	456	457
Total value of sales and work done	£'000	73,313	..	80,298	77,182	71,345
Products on hand for sale {at beginning of year	"	(1)	..	13,279	15,693	14,928
and work in progress {at end of year	"	(1)	..	15,262	13,109	15,895
Gross output (production) (b)	"	72,085	..	82,281	74,131	71,982
Purchases of materials and fuel (c)	"	24,263	..	38,183	30,776	29,917
Stocks of materials and fuel {at beginning of year	"	(1)	..	9,312	9,831	10,489
{at end of year	"	(1)	..	11,988	9,258	9,876
Cost of materials and fuel used	"	26,321	..	35,507	31,348	30,531
Payment for work done on materials given out	"	1,140	..	857	655	450
Payment for transport (d)	"	586	..	632	466	330
Net output	"	44,039	..	45,286	42,128	41,001
Average number employed (e) {operatives	No.	56,142	..	63,197	63,451	64,782
{other workers	"	10,167	..	10,242	9,628	9,604
Total employment, including working proprietors (e)	"	66,340	..	73,527	73,172	74,496
Net output per person employed (f)	£	664	..	616	576	550
Wages and salaries (e) {of operatives	£'000	22,814	..	22,922	21,031	20,850
{of other workers	"	5,882	..	5,037	4,583	4,299
Capital expenditure on new building work (g)	"	227	..	535	..	488
Plant and machinery {acquisitions (g)	"	1,639	..	1,896	..	1,610
{disposals	"	210	..	70	..	75
Vehicles {acquisitions (g)	"	246	..	349	..	240
{disposals	"	72	..	64	..	38
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	228	240	246
Average number employed, including working proprietors	"	1,267	..	1,332	1,367	1,440
ALL FIRMS: estimated average employment (f)(h)(i)	"	67,607	..	75,192	74,580	75,970

TABLE F - MECHANICAL ENGINEERING - CONSTRUCTIONAL ENGINEERING

	Unit	1953(a)	1952(a)	1951	1950 (n)	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	416	..	398
Total value of sales and work done	£'000	121,061	106,621	99,605	..	86,468
Products on hand for sale {at beginning of year	"	25,264	20,096	17,964	..	17,170
and work in progress {at end of year	"	28,904	23,264	19,874	..	20,417
Gross output (production) (b)	"	124,701	109,789	101,515	..	88,316
Purchases of materials and fuel (c)	"	63,432	57,338	52,116	..	42,850
Stocks of materials and fuel {at beginning of year	"	13,734	10,434	8,829	..	7,778
{at end of year	"	13,821	12,783	10,353	..	7,629
Cost of materials and fuel used	"	63,345	54,989	50,593	..	42,999
Payment for work done on materials given out	"	5,908	4,097	5,844	..	9,248
Payment for transport (d)	"	1,911	1,709	1,668	..	1,399
Net output	"	53,537	48,993	43,410	..	36,069
Average number employed (e) {operatives (o)	No.	48,914	47,908	47,931	..	46,506
{other workers	"	16,105	14,898	14,215	..	12,519
Total employment, including working proprietors (e)	"	65,071	62,820	62,191	..	59,072
Net output per person employed (f)	£	823	780	698	..	611
Wages and salaries (e) {of operatives	£'000	22,829	20,941	18,895	..	16,439
{of other workers	"	9,315	8,264	7,125	..	5,524
Capital expenditure on new building work (g)	"	525	391	414	..	416
Plant and machinery {acquisitions (g)	"	1,030	1,161	1,033	..	869
{disposals	"	46	34	24	..	33
Vehicles {acquisitions (g)	"	419	440	428	..	248
{disposals	"	103	59	80	..	68
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	105	..	57
Average number employed, including working proprietors	"	692	692	728	..	395
ALL FIRMS: estimated average employment (f)(h)(i)	"	65,763	63,512	63,262	..	59,515

TABLE G - MECHANICAL ENGINEERING - MECHANICAL HANDLING EQUIPMENT

	Unit	1953(a)	1952(m)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	186	177	172
Total value of sales and work done	£'000	51,208	..	41,737	37,203	34,569
Products on hand for sale {at beginning of year	"	16,429	..	12,322	10,430	9,422
and work in progress {at end of year	"	19,438	..	14,661	12,483	10,369
Gross output (production) (b)	"	54,216	..	44,076	38,835	35,134
Purchases of materials and fuel (c)	"	26,785	..	22,749	18,698	17,087
Stocks of materials and fuel {at beginning of year	"	5,490	..	3,678	3,959	3,699
{at end of year	"	5,099	..	4,893	4,120	3,808
Cost of materials and fuel used	"	27,176	..	21,534	18,537	16,978
Payment for work done on materials given out	"	250	..	249	162	181
Payment for transport (d)	"	744	..	568	421	382
Net output	"	26,046	..	21,725	20,136	17,975
Average number employed (e) {operatives	No.	24,804	..	23,752	24,013	22,976
{other workers	"	8,017	..	7,774	7,968	6,927
Total employment, including working proprietors (e)	"	32,823	..	31,536	31,989	29,910
Net output per person employed (f)	£	794	..	689	629	601
Wages and salaries (e) {of operatives	£'000	11,313	..	9,135	8,134	7,460
{of other workers	"	4,302	..	3,594	3,275	2,861
Capital expenditure on new building work (g)	"	289	..	500	..	156
Plant and machinery {acquisitions (g)	"	890	..	857	..	442
{disposals	"	24	..	34	..	33
Vehicles {acquisitions (g)	"	186	..	175	..	89
{disposals	"	35	..	30	..	19
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	12	14	17
Average number employed, including working proprietors	"	86	..	90	105	112
ALL FIRMS: estimated average employment (f)(h)(i)	"	32,909	..	31,636	32,101	30,022

TABLE H - MECHANICAL ENGINEERING (GENERAL)

	Unit	1953(a)	1952(a)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	2,955	3,035	2,968
Total value of sales and work done	£'000	897,109	823,520	709,940	593,418	524,091
Products on hand for sale {at beginning of year	"	238,596	199,067	164,253	145,827	136,971
and work in progress {at end of year	"	248,998	233,254	194,118	152,916	146,418
Gross output (production) (b)	"	907,511	857,706	739,805	594,527	528,557
Purchases of materials and fuel (c)	"	422,460	424,149	370,284	281,238	245,452
Stocks of materials and fuel {at beginning of year	"	113,150	95,379	67,819	62,304	60,034
{at end of year	"	106,940	112,931	93,133	65,641	61,230
Cost of materials and fuel used	"	428,670	406,596	344,970	277,901	244,257
Payment for work done on materials given out	"	21,042	20,626	16,073	12,834	12,364
Payment for transport (d)	"	10,632	10,485	9,252	5,979	4,982
Net output	"	447,168	419,998	369,509	303,792	271,936
Average number employed (e) {operatives (o)	No.	438,077	432,558	413,783	386,276	375,305
{other workers	"	138,845	132,716	124,345	114,730	108,314
Total employment, including working proprietors (e)	"	577,342	565,748	538,477	501,439	484,077
Net output per person employed (f)	£	775	742	686	606	562
Wages and salaries (e) {of operatives	£'000	194,778	183,323	158,852	134,272	124,330
{of other workers	"	76,596	70,294	60,283	51,983	46,987
Capital expenditure on new building work (g)	"	7,925	8,415	7,104	..	3,985
Plant and machinery {acquisitions (g)	"	28,099	27,987	22,795	..	13,231
{disposals	"	1,805	1,894	1,751	..	826
Vehicles {acquisitions (g)	"	3,115	3,307	2,793	..	1,593
{disposals	"	695	727	542	..	333
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	2,334	2,115	2,787
Average number employed, including working proprietors	"	13,625	13,608	14,327	12,689	16,006
ALL FIRMS: estimated average employment (f)(h)(i)	"	590,967	579,356	555,719	516,052	502,680

TABLE I - ELECTRICAL ENGINEERING (GENERAL)

	Unit	1953(a)	1952(a)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	1,024	952	924
Total value of sales and work done	£'000	409,379	387,928	345,017	278,832	249,588
Products on hand for sale	No.	98,537	77,959	62,465	60,015	60,151
and work in progress		107,269	95,440	80,450	61,736	62,634
Gross output (production) (b)	..	418,110	405,408	363,002	277,700	250,089
Purchases of materials and fuel (c)	..	176,185	198,904	184,992	126,145	109,030
Stocks of materials and fuel	No.	52,708	49,262	33,888	31,147	33,372
{ at beginning of year		44,481	53,484	47,961	32,514	30,717
{ at end of year	..	184,413	194,682	170,920	124,777	111,685
Cost of materials and fuel used	..	7,302	5,941	4,678	2,683	2,616
Payment for work done on materials given out	..	4,086	3,985	3,529	2,854	1,982
Payment for transport (d)	..	222,310	200,800	183,875	150,239	135,788
Net output	No.	215,697	223,761	216,371	198,209	191,924
Average number employed (e)	No.	83,216	85,990	76,040	69,891	66,815
{ operatives (o)		299,040	309,770	292,483	268,171	258,836
Total employment, including working proprietors (e)	..	743	647	629	560	525
Net output per person employed (f)	£	..	..	..	..	..
Wages and salaries (e)	£'000	86,508	82,930	72,545	61,611	57,160
{ of operatives		44,784	43,160	35,857	31,018	27,306
{ of other workers	..	4,015	3,376	2,841	..	1,868
Capital expenditure on new building work (g)	..	8,725	8,633	6,947	..	5,325
Plant and machinery	No.	212	502	284	..	337
{ acquisitions (g)		992	1,401	988	..	547
{ disposals	203	271	165	..	110	
Vehicles	..	..	..	..	..	..
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	841	892	978
Average number employed, including working proprietors	..	5,072	4,991	5,005	5,226	5,048
ALL FIRMS: estimated average employment (f)(h)(i)	..	304,112	314,761	298,054	273,944	264,722

TABLE J - ELECTRIC WIRES AND CABLES

	Unit	1953(a)	1952(a)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	77	82	83
Total value of sales and work done	£'000	133,115	155,915	122,434	105,074	103,419
Products on hand for sale	No.	22,039	19,414	14,543	15,730	15,492
and work in progress		17,717	22,593	19,652	16,905	15,920
Gross output (production) (b)	..	128,793	159,095	127,543	104,944	102,280
Purchases of materials and fuel (c)	..	79,817	106,730	93,451	71,513	65,329
Stocks of materials and fuel	No.	15,649	18,628	12,732	12,674	12,343
{ at beginning of year		11,431	15,530	18,604	14,870	12,551
{ at end of year	..	84,036	109,828	87,579	69,317	65,121
Cost of materials and fuel used	..	2,585	2,247	2,293	294	231
Payment for work done on materials given out	..	1,437	1,622	1,398	1,304	1,567
Payment for transport (d)	..	40,735	45,397	36,273	35,333	36,928
Net output	No.	36,119	39,778	36,993	42,167	43,951
Average number employed (e)	No.	14,024	13,955	13,037	14,503	14,055
{ operatives		50,148	53,733	50,030(p)	56,670	58,006
Total employment, including working proprietors (e)	..	812	845	725	623	637
Net output per person employed (f)	£	..	..	..	..	..
Wages and salaries (e)	£'000	14,694	15,165	12,657	12,613	12,761
{ of operatives		7,780	7,110	6,184	6,413	5,977
{ of other workers	..	949	605	577	..	570
Capital expenditure on new building work (g)	..	2,192	1,995	1,711	..	2,012
Plant and machinery	No.	101	93	42	..	299
{ acquisitions (g)		283	330	208	..	144
{ disposals	36	46	24	..	45	
Vehicles	..	..	..	..	..	..
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	3	4	3
Average number employed, including working proprietors	..	22	22	22	19	20
ALL FIRMS: estimated average employment (f)(h)(i)	..	50,170	53,755	50,052	56,689	58,026

TABLE K - RADIO AND TELECOMMUNICATIONS

	Unit	1953(a)	1952(a)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	463	452	446
Total value of sales and work done	£'000	285,769	265,012	229,974	183,476	164,392
Products on hand for sale	No.	62,724	46,178	34,301	30,483	32,810
and work in progress		66,380	58,700	44,654	32,153	32,229
Gross output (production) (b)	..	289,424	277,533	240,328	184,470	163,297
Purchases of materials and fuel (c)	..	128,791	133,519	117,430	77,724	61,799
Stocks of materials and fuel	No.	29,980	27,120	19,033	14,948	16,586
{ at beginning of year		26,599	30,232	27,932	16,715	15,275
{ at end of year	..	132,172	130,408	108,531	75,957	63,111
Cost of materials and fuel used	..	2,902	2,608	1,722	1,184	783
Payment for work done on materials given out	..	1,911	1,605	1,434	674	515
Payment for transport (d)	..	152,438	142,913	128,639	107,330	99,402
Net output	No.	190,070	195,569	184,403	166,165	157,766
Average number employed (e)	No.	63,210	60,970	55,890	49,227	48,174
{ operatives (o)		253,281	256,559	240,315(q)	215,410	205,963
Total employment, including working proprietors (e)	..	602	557	535	498	483
Net output per person employed (f)	£	..	..	..	..	..
Wages and salaries (e)	£'000	74,778	70,123	61,089	50,307	47,045
{ of operatives		32,292	30,858	26,398	21,277	20,107
{ of other workers	..	2,651	2,147	2,002	..	417(r)
Capital expenditure on new building work (g)	..	4,830	5,175	3,848	..	2,137(r)
Plant and machinery	No.	219	166	127	..	269
{ acquisitions (g)		1,036	974	773	..	227(r)
{ disposals	138	146	158	..	46	
Vehicles	..	..	..	..	..	..
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	116	136	202
Average number employed, including working proprietors	..	592	582	584	812	943
ALL FIRMS: estimated average employment (f)(h)(i)	..	253,873	257,141	241,049	216,406	207,090

TABLE L - ORDER VII VEHICLES

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	3,544	3,799	3,760
Total value of sales and work done	£'000	1,454,871	1,294,034	1,154,100	1,023,326	900,409
Products on hand for sale and work in progress	{ at beginning of year	252,592	211,902	163,260	151,547	149,887
	{ at end of year	288,933	270,514	209,467	166,089	150,845
Gross output (production) (b)	..	1,491,212	1,352,644	1,200,305	1,035,133	898,756
Purchases of materials and fuel (c)	..	838,860	797,847	711,785	583,688	494,244
Stocks of materials and fuel	{ at beginning of year	158,904	131,313	100,938	100,369	102,857
	{ at end of year	153,458	159,426	132,143	100,861	98,768
Cost of materials and fuel used	..	844,306	769,734	680,579	583,197	498,331
Payment for work done on materials given out	..	46,471	36,340	27,519	29,003	18,495
Payment for transport (d)	..	8,141	6,665	5,786	2,733	2,611
Net output (t)	..	592,292	539,903	486,421	423,064	382,209
Average number employed (e)	{ operatives	664,043	644,502	630,823	616,374	606,942
	{ other workers	163,620	147,419	136,348	129,279	124,550
Total employment, including working proprietors (e)	..	828,075	791,984	767,509	745,954	731,879
Net output per person employed (f)	£	715	682	634	554	522
Wages and salaries (e)	{ of operatives	£'000 314,161	285,784	255,968	232,406	219,656
	{ of other workers	.. 88,110	76,333	65,783	57,465	53,538
Capital expenditure on new building work (g)	..	9,833	9,381	7,441	..	4,676
Plant and machinery	{ acquisitions (g)	.. 26,350	26,276	25,119	..	16,420
	{ disposals	.. 1,176	914	931	..	955
Vehicles	{ acquisitions (g)	.. 2,782	2,924	2,290	..	1,629
	{ disposals	.. 1,095	685	617	..	454
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	2,347	3,127	3,528
Average number employed, including working proprietors	..	11,400	12,960	11,622	15,138	16,041
ALL FIRMS: estimated average employment (f)(h)(i)	..	839,475	804,944	780,799	763,737	750,144

TABLE M - MOTOR VEHICLES AND CYCLES - MANUFACTURING

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	1,068	1,119	1,112
Total value of sales and work done	£'000	872,499	829,281	753,144	665,298	551,716
Products on hand for sale and work in progress	{ at beginning of year	100,267	87,250	68,244	63,297	61,823
	{ at end of year	96,119	101,967	90,277	69,199	63,138
Gross output (production) (b)	..	888,351	843,997	775,177	669,287	551,380
Purchases of materials and fuel (c)	..	554,235	556,342	511,460	428,130	348,827
Stocks of materials and fuel	{ at beginning of year	67,889	63,670	45,688	44,091	49,125
	{ at end of year	60,156	72,056	62,989	46,305	45,436
Cost of materials and fuel used	..	561,968	547,956	494,159	425,916	352,516
Payment for work done on materials given out	..	8,489	10,656	10,423	11,657	5,477
Payment for transport (d)	..	5,509	4,686	4,192	1,912	1,651
Net output (t)	..	292,384	280,699	266,403	231,715	193,386
Average number employed (e)	{ operatives	No. 301,041	301,787	301,331	296,989	280,415
	{ other workers	.. 65,156	62,319	59,771	57,056	54,535
Total employment, including working proprietors (e)	..	366,477	364,121	361,227	354,160	335,103
Net output per person employed (f)	£	798	771	737	654	577
Wages and salaries (e)	{ of operatives	£'000 147,008	137,513	127,784	118,532	106,226
	{ of other workers	.. 36,354	33,438	30,217	26,882	24,512
Capital expenditure on new building work (g)	..	3,621	4,274	4,068	..	2,842
Plant and machinery	{ acquisitions (g)	.. 17,670	18,482	18,982	..	11,644
	{ disposals	.. 873	402	498	..	680
Vehicles	{ acquisitions (g)	.. 1,359	1,536	1,384	..	1,068
	{ disposals	.. 852	487	424	..	323
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	740	624	796
Average number employed, including working proprietors	..	4,247	5,992	4,268	3,432	4,249
ALL FIRMS: estimated average employment (f)(h)(i)	..	370,724	370,113	366,168	358,587	340,065

TABLE N - MOTOR VEHICLES AND CYCLES - REPAIRING

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	1,226	1,242	1,201
Total value of work done and goods made	£'000	69,636	68,291	59,118	53,039	51,565
Purchases of materials and fuel (c)	..	26,511	27,170	24,524	20,838	19,378
Stocks of materials and fuel	{ at beginning of year	.. 13,097	12,217	10,474	9,798	8,039
	{ at end of year	.. 11,685	12,107	11,858	10,016	7,664
Cost of materials and fuel used	..	27,923	27,280	23,139	20,620	19,753
Payment for work done on materials given out	..	1,965	1,368	1,359	1,402	1,387
Payment for transport (d)	..	245	263	126	27	52
Net output (t)	..	39,503	39,380	34,493	30,943	30,374
Average number employed (e)	{ operatives	No. 63,168	64,614	62,025	61,137	63,750
	{ other workers	.. 9,104	9,340	8,876	8,348	8,157
Total employment, including working proprietors (e)	..	72,340	73,979	71,082	69,623	72,082
Net output per person employed (f)	£	546	532	485	444	421
Wages and salaries (e)	{ of operatives	£'000 25,802	24,917	21,803	19,529	19,710
	{ of other workers	.. 4,510	4,551	3,915	3,356	3,143
Capital expenditure on new building work (g)	..	1,708	1,695	1,236	..	759
Plant and machinery	{ acquisitions (g)	.. 470	608	558	..	469
	{ disposals	.. 29	79	58	..	28
Vehicles	{ acquisitions (g)	.. 541	443	205	..	154
	{ disposals	.. 95	80	80	..	63
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	1,007	1,556	1,547
Average number employed, including working proprietors	..	5,413	5,010	5,384	8,501	7,895
ALL FIRMS: estimated average employment (f)(h)(i)	..	77,753	78,989	77,216	79,300	80,984

TABLE O - AIRCRAFT MANUFACTURE AND REPAIR

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	215	195	184
Total value of sales and work done	£'000	299,224	212,317	169,751	142,815	141,687
Products on hand for sale and work in progress	{ at beginning of year	.. 121,818	(s) 72,549	63,801	64,710	64,710
	{ at end of year	.. 158,433	(s) 91,555	72,233	63,809	63,809
Gross output (production) (b)	..	335,839	254,055	188,757	151,055	140,440
Purchases of materials and fuel (c)	..	142,550	112,781	79,480	56,419	52,417
Stocks of materials and fuel	{ at beginning of year	.. 31,011	16,764	12,164	11,990	11,730
	{ at end of year	.. 33,619	28,218	18,156	12,065	11,911
Cost of materials and fuel used	..	139,942	101,327	73,487	56,344	52,236
Payment for work done on materials given out	..	35,209	23,537	15,102	14,842	11,002
Payment for transport (d)	..	1,384	868	653	192	346
Net output (t)	..	159,304	128,323	99,515	79,999	77,482
Average number employed (e)	{ operatives	No. 143,633	124,671	109,215	98,278	100,528
	{ other workers	.. 67,908	55,968	48,234	44,334	42,637
Total employment, including working proprietors (e)	..	211,552	180,644	157,454	142,617	143,172
Net output per person employed (f)	£	753	710	632	561	541
Wages and salaries (e)	{ of operatives	£'000 71,533	58,916	45,325	37,479	37,655
	{ of other workers	.. 36,337	28,658	22,839	19,236	18,109
Capital expenditure on new building work (g)	..	3,952	2,979	1,674	..	642
Plant and machinery	{ acquisitions (g)	.. 6,251	5,237	3,915	..	2,208
	{ disposals	.. 212	326	157	..	157
Vehicles	{ acquisitions (g)	.. 686	630	541	..	263
	{ disposals	.. 120	60	83	..	39
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	19	8	42
Average number employed, including working proprietors	..	96	134	121	48	244
ALL FIRMS: estimated average employment (f)(h)(i)	..	211,648	180,778	157,575	142,698	143,461



TABLE P - RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING

	Unit	1953(a)	1952	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	357	350	377	411
Total value of sales and work done (u)	£'000	87,809	75,593	68,044	62,677	60,323
Products on hand for sale	No.	16,116	13,992	12,077	12,231	11,247
and work in progress		17,265	15,434	14,169	12,291	12,236
Gross output (production) (b)		88,958	77,035	70,136	62,535	61,136
Purchases of materials and fuel (c)		42,848	36,368	32,801	26,283	24,473
Stocks of materials and fuel	No.	17,592	14,453	12,854	13,439	13,335
Cost of materials and fuel used		19,187	17,497	14,628	12,925	13,454
Payment for work done on materials given out		403	298	352	530	367
Payment for transport (d)		258	264	258	201	175
Net output		47,043	43,148	38,498	35,208	36,416
Average number employed (e)	No.	73,217	72,107	73,081	74,557	75,182
Total employment, including working proprietors (e)		11,092	9,746	9,670	9,621	9,244
Net output per person employed (f)		84,311	81,853	82,751	84,178	84,427
Wages and salaries (e)	£'000	558	527	464	418	431
Capital expenditure on new building work (g)		33,129	30,851	28,488	26,509	26,409
Plant and machinery		5,634	4,717	4,321	3,901	3,744
Vehicles		252	219	228	..	185
		965	819	860	..	1,241
		38	61	37	..	27
		65	74	45	..	47
		9	8	7	..	6
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	5	5	4	3
Average number employed, including working proprietors		39	26	27	28	13
ALL FIRMS: estimated average employment (f)(h)(i)		84,350	81,879	82,778	84,206	84,440

TABLE Q - RAILWAY CARRIAGE AND WAGON AND TRAMS

	Unit	1953(a)	1952(a)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	587	762	745
Total value of sales and work done (u)	£'000	118,822	101,794	96,589	92,514	87,842
Products on hand for sale	No.	14,051	13,030	10,037	11,389	11,762
and work in progress		16,778	13,767	13,011	11,591	11,321
Gross output (production) (b)		121,549	102,530	99,561	92,418	87,114
Purchases of materials and fuel (c)		69,109	61,745	59,207	48,198	45,393
Stocks of materials and fuel	No.	28,501	23,248	18,900	20,183	19,649
Cost of materials and fuel used		28,062	28,686	23,487	18,699	19,433
Payment for work done on materials given out		69,548	56,306	54,620	49,582	45,607
Payment for transport (d)		339	394	214	504	168
Net output		624	457	413	297	287
Net output		51,038	45,371	44,315	42,232	41,338
Average number employed (e)	No.	78,599	76,619	79,818	79,770	80,772
Total employment, including working proprietors (e)		8,948	8,994	8,848	8,942	8,975
Net output per person employed (f)		88,069	85,613	88,672	88,719	89,758
Wages and salaries (e)	£'000	580	530	500	477	461
Capital expenditure on new building work (g)		35,261	32,151	31,091	28,841	28,065
Plant and machinery		4,819	4,408	4,018	3,622	3,577
Vehicles		263	162	196	..	219
		884	1,078	710	..	748
		23	36	39	..	52
		75	214	71	..	66
		13	34	14	..	14
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	38	37	36
Average number employed, including working proprietors		135	215	203	191	196
ALL FIRMS: estimated average employment (f)(h)(i)		88,204	85,828	88,886	88,931	89,954

TABLE R - ORDER VIII METAL GOODS NOT ELSEWHERE SPECIFIED

	Unit	1953(a)	1952(a)(m)	1951	1950(w)	1949(w)
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	4,525	4,360	4,342
Total value of sales and work done	£'000	681,912	706,130	643,443	508,707	452,848
Products on hand for sale	No.	52,783	44,742	38,747	34,324	31,782
and work in progress		53,158	52,641	44,982	37,839	34,636
Gross output (production) (b)		682,288	714,027	649,679	505,673	449,989
Purchases of materials and fuel (c)		372,799	416,689	368,776	272,519	234,769
Stocks of materials and fuel	No.	70,034	60,737	46,294	45,052	43,497
Cost of materials and fuel used		61,689	69,692	60,372	47,067	44,464
Payment for work done on materials given out		381,145	407,737	354,700	270,504	233,802
Payment for transport (d)		10,014	9,401	6,908	5,305	4,918
Net output		13,538	12,331	11,290	6,551	5,709
Net output		277,589	284,118	276,371	229,475	210,933
Average number employed (e)	No.	342,575	351,723	354,215	349,341	341,002
Total employment, including working proprietors (e)		69,996	67,412	65,461	63,343	60,672
Net output per person employed (f)		413,036	420,044	420,464	413,515	402,593
Wages and salaries (e)	£'000	672	676	657	555	524
Capital expenditure on new building work (g)		127,332	123,757	112,832	103,231	97,000
Plant and machinery		40,926	37,471	34,277	30,393	27,829
Vehicles		3,878	3,197	3,574	..	3,084
		12,634	11,919	12,003	..	10,540
		739	688	943	..	666
		3,324	3,354	2,894	..	1,738
		822	763	657	..	383
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	6,564	6,222	6,867
Average number employed, including working proprietors		29,944	31,635	29,410	26,603	28,347
ALL FIRMS: estimated average employment (f)(h)(i)		442,980	451,679	453,916	443,016	433,842

TABLE S - CHAIN, NAIL, SCREW AND MISCELLANEOUS FORGINGS

	Unit	1953(a)	1952(a)	1951	1950	1949
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS						
Number of establishments	No.	..	..	687	682	672
Total value of sales and work done	£'000	131,666	132,134	117,331	96,451	85,891
Products on hand for sale	No.	10,523	7,430	7,267	6,994	6,036
and work in progress		11,663	9,677	7,940	7,289	7,024
Gross output (production) (b)		132,806	134,381	118,004	95,456	85,817
Purchases of materials and fuel (c)		70,756	71,866	60,606	49,292	44,372
Stocks of materials and fuel	No.	13,602	10,937	9,179	9,386	8,090
Cost of materials and fuel used		13,263	13,068	11,313	9,095	8,970
Payment for work done on materials given out		71,096	69,736	58,472	49,583	43,491
Payment for transport (d)		1,587	1,943	1,416	1,017	823
Net output		2,206	2,092	1,991	1,291	1,061
Net output		57,917	60,611	56,125	44,856	41,503
Average number employed (e)	No.	70,868	71,304	72,071	69,251	67,897
Total employment, including working proprietors (e)		13,030	12,926	12,580	11,705	11,100
Net output per person employed (f)		83,944	84,313	84,765	81,077	79,126
Wages and salaries (e)	£'000	690	719	662	553	525
Capital expenditure on new building work (g)		27,148	25,838	23,513	21,081	19,860
Plant and machinery		7,316	6,992	6,412	5,403	4,962
Vehicles		685	769	671	..	710
		3,370	3,318	2,944	..	2,603
		118	181	175	..	162
		536	618	467	..	269
		171	131	117	..	80
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)						
Number of returns	No.	..	..	2,427	2,669	3,136
Average number employed, including working proprietors		7,312	6,613	6,636	7,260	8,239
ALL FIRMS: estimated average employment (f)(h)(i)		91,256	90,926	92,327	89,250	87,988

TABLE T - WIRE AND WIRE MANUFACTURES

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	293	286	291
Total value of sales and work done	£'000	101,910	108,599	95,372	80,930	69,217
Products on hand for sale	{	6,706	5,459	5,255	4,353	3,749
and work in progress		5,938	6,903	5,495	5,261	4,317
Gross output (production) (b)	"	101,142	110,042	95,613	80,343	68,375
Purchases of materials and fuel (c)	"	71,722	79,745	65,841	56,833	46,957
Stocks of materials and fuel	{	6,963	6,427	5,462	4,912	4,765
at end of year		6,127	7,064	6,314	5,489	5,010
Cost of materials and fuel used	"	72,558	79,109	64,989	56,256	46,711
Payment for work done on materials given out	"	382	346	377	408	360
Payment for transport (d)	"	2,278	2,113	1,959	1,494	1,409
Net output	"	25,923	28,475	28,287	23,680	21,304
Average number employed (e)	{	27,577	29,706	29,243	29,446	29,400
operatives		6,642	5,998	6,197	6,032	5,790
Total employment, including working proprietors (e)	"	34,238	35,743	35,469	35,507	35,223
Net output per person employed (f)	£	757	797	798	667	605
Wages and salaries (e)	{	11,596	11,756	10,528	9,842	9,356
of other workers		3,837	3,285	3,281	2,874	2,648
Capital expenditure on new building work (g)	"	373	388	338	..	419
Plant and machinery	{	1,822	1,631	1,549	..	1,740
disposals		70	48	50	..	47
Vehicles	{	324	295	269	..	262
disposals	82	72	63	..	40	
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	180	166	175
Average number employed, including working proprietors	"	960	1,132	1,070	948	971
ALL FIRMS: estimated average employment (f)(h)(i)	"	35,198	36,875	36,647	36,538	36,228

TABLE U - HARDWARE, HOLLOW - WARE, METAL FURNITURE AND SHEET METAL

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	2,073	2,064	2,028
Total value of sales and work done	£'000	272,081	277,197	243,927	212,497	191,669
Products on hand for sale	{	17,184	14,862	13,083	12,776	11,766
and work in progress		18,096	17,258	14,790	13,797	12,912
Gross output (production) (b)	"	272,992	279,593	245,635	210,474	190,178
Purchases of materials and fuel (c)	"	138,896	155,432	134,609	112,310	99,784
Stocks of materials and fuel	{	32,702	27,961	20,421	21,732	21,146
at end of year		29,139	32,573	27,161	21,465	21,532
Cost of materials and fuel used	"	142,458	150,820	127,869	112,577	99,398
Payment for work done on materials given out	"	4,391	3,765	3,285	2,609	2,489
Payment for transport (d)	"	5,266	5,076	4,429	3,044	2,637
Net output (v)	"	120,876	119,490	109,641	94,897	87,956
Average number employed (e)	{	148,928	150,663	149,021	151,322	146,229
operatives		32,031	30,031	28,778	28,804	27,226
Total employment, including working proprietors	"	181,167	181,224	178,169	180,556	173,919
Net output per person employed (f)	£	667	659	615	526	506
Wages and salaries (e)	{	54,986	52,334	46,692	44,139	40,979
of other workers		18,697	17,014	15,063	13,745	12,426
Capital expenditure on new building work (g)	"	1,571	1,139	1,518	..	1,117
Plant and machinery	{	5,007	4,605	4,665	..	3,809
disposals		396	292	501	..	290
Vehicles	{	1,638	1,422	1,221	..	818
disposals	368	289	273	..	159	
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	2,438	2,366	2,413
Average number employed, including working proprietors	"	12,742	14,784	13,381	12,924	12,995
ALL FIRMS: estimated average employment (f)(h)(i)	"	193,909	196,008	193,376	194,763	188,662

TABLE V - BRASS MANUFACTURES

	Unit	1953(a)	1952 (m)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	578	625	530
Total value of sales and work done	£'000	67,256	..	73,621	57,093	50,617
Products on hand for sale	{	7,307	..	4,985	4,993	5,150
and work in progress		6,648	..	6,658	5,784	5,088
Gross output (production) (b)	"	66,597	..	75,293	57,516	50,444
Purchases of materials and fuel (c)	"	33,842	..	43,699	29,732	22,930
Stocks of materials and fuel	{	5,901	..	4,656	3,775	4,265
at end of year		4,448	..	6,895	5,245	3,794
Cost of materials and fuel used	"	35,296	..	41,460	28,261	23,481
Payment for work done on materials given out	"	867	..	800	586	606
Payment for transport (d)	"	608	..	547	366	310
Net output	"	29,827	..	32,487	28,671	26,357
Average number employed (e)	{	37,092	..	38,996	42,448	42,560
operatives		7,667	..	6,783	7,490	7,527
Total employment, including working proprietors (e)	"	44,789	..	45,892	50,057	50,213
Net output per person employed (f)	£	666	..	708	573	525
Wages and salaries (e)	{	13,311	..	12,642	12,720	12,412
of other workers		4,889	..	3,666	3,828	3,573
Capital expenditure on new building work (g)	"	521	..	427	..	400
Plant and machinery	{	1,144	..	1,003	..	1,058
disposals		62	..	48	..	73
Vehicles	{	304	..	311	..	207
disposals	77	..	84	..	54	
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	297	281	264
Average number employed, including working proprietors	"	2,076	..	1,779	1,662	1,516
ALL FIRMS: estimated average employment (f)(h)(i)	"	46,865	..	47,846	51,814	51,783

TABLE W - ORDER IX PRECISION INSTRUMENTS, JEWELLERY, ETC.

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	1,312	1,332	1,299
Total value of sales and work done	£'000	245,782	217,165	183,769	183,673	149,235
Products on hand for sale and work in progress	{ at beginning of year at end of year	29,595 30,326	25,512 28,757	21,977 25,141	20,986 21,508	19,320 21,327
Gross output (production) (b)	"	246,515	220,409	186,933	183,923	150,967
Purchases of materials and fuel (c)	"	158,503	141,192	113,609	117,484	87,081
Stocks of materials and fuel	{ at beginning of year at end of year	20,975 20,838	20,803 21,408	15,728 20,777	15,043 16,760	15,843 15,054
Cost of materials and fuel used	"	158,638	140,585	108,560	115,766	87,870
Payment for work done on materials given out	"	2,457	2,130	1,755	1,500	1,421
Payment for transport (d)	"	907	942	664	269	276
Net output	"	84,511	76,754	75,950	66,651	61,473
Average number employed (e)	{ operatives other workers	92,046 26,745	93,537 26,371	94,352 24,571	94,347 23,015	90,995 22,374
Total employment, including working proprietors (e)	"	118,947	120,068	119,128	117,600	113,606
Net output per person employed (f)	£	710	639	638	567	543
Wages and salaries (e)	{ of operatives of other workers	34,832 14,723	33,629 13,915	30,866 12,197	28,239 10,947	26,349 10,043
Capital expenditure on new building work (g)	"	989	1,412	973	..	1,077
Plant and machinery	{ acquisitions (g) disposals	2,615 90	2,428 131	2,491 104	..	2,989 141
Vehicles	{ acquisitions (g) disposals	627 178	630 228	521 134	..	321 69
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	1,982	1,773	2,179
Average number employed, including working proprietors	"	8,987	9,065	10,079	8,977	10,158
ALL FIRMS: estimated average employment (f)(h)(i)	"	127,934	129,133	130,014	127,675	124,640

TABLE X - SCIENTIFIC, SURGICAL AND PHOTOGRAPHIC INSTRUMENTS, ETC.

	Unit	1953(a)	1952(a)	1951	1950	1949
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>						
Number of establishments	No.	..	..	737	747	723
Total value of sales and work done	£'000	95,281	87,976	78,956	71,465	63,994
Products on hand for sale and work in progress	{ at beginning of year at end of year	15,786 16,152	12,689 14,926	9,850 12,328	9,237 10,015	9,323 9,430
Gross output (production) (b)	"	95,647	90,213	81,435	72,124	63,969
Purchases of materials and fuel (c)	"	35,668	38,333	37,450	29,790	23,938
Stocks of materials and fuel	{ at beginning of year at end of year	13,153 12,333	12,900 13,640	9,289 12,541	8,562 9,471	9,002 8,580
Cost of materials and fuel used	"	36,488	37,592	34,198	28,881	24,360
Payment for work done on materials given out	"	1,764	1,548	1,096	946	820
Payment for transport (d)	"	504	612	427	118	132
Net output	"	56,891	50,462	45,713	42,296	38,789
Average number employed (e)	{ operatives other workers	58,110 18,774	59,238 18,802	59,109 17,214	58,783 16,005	57,152 15,511
Total employment, including working proprietors (e)	"	76,944	78,061	76,409	74,898	72,757
Net output per person employed (f)	£	739	646	598	565	533
Wages and salaries (e)	{ of operatives of other workers	22,625 10,217	21,775 9,659	19,602 8,220	17,834 7,411	16,701 6,734
Capital expenditure on new building work (g)	"	738	1,094	670	..	603
Plant and machinery	{ acquisitions (g) disposals	1,924 58	1,754 98	1,725 76	..	1,739 111
Vehicles	{ acquisitions (g) disposals	436 115	452 162	298 72	..	192 30
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS (h)</b>						
Number of returns	No.	..	..	852	660	692
Average number employed, including working proprietors	"	4,241	4,081	4,581	3,724	3,768
ALL FIRMS: estimated average employment (f)(h)(i)	"	81,185	82,142	81,386	79,157	76,892

Notes to Tables

(a) Estimates derived from a sample enquiry, for details of which see Introductory Notes. Sampling errors have been estimated for total employment in certain trades as shown below:

Trade	Sampling Error %	
	1953	1952
Shipbuilding and Ship Repairing	1	4
Marine Engineering	1	3
Machine Tools	2	2
Textile Machinery and Accessories	2	Not published
Constructional Engineering	1	3
Mechanical Handling Equipment	1	Not published
Mechanical Engineering (General)	1	1
Electrical Engineering (General)	1	2
Electric Wires and Cables	1	5
Radio and Telecommunications	2	5
Motor Vehicles and Cycles (Manufacturing)	1	2
Motor Vehicles and Cycles (Repairing)	2	2
Aircraft Manufacture and Repair	3	5
Railway Locomotive Shops and Locomotive Manufacturing	1	Not sampled
Railway Carriages, Wagons and Trams	1	1
Chain, Nail, Screw and Miscellaneous Forgings	2	2
Wire and Wire Manufactures	2	3
Hardware, Hollow-ware, Metal Furniture and Sheet Metal	1	6
Brass Manufactures	5	Not published
Scientific, Surgical and Photographic Instruments, etc.	2	3

- (b) For the years 1950 and 1949 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) Amounts paid for delivery services are included for the years 1950 and 1949 but excluded for subsequent years.
- (d) Payments to other firms and undertakings and to firms' own separate transport organisations. For the years 1950 and 1949 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.
- (e) Excluding outworkers.
- (f) Excluding outworkers but including working proprietors.
- (g) Any capital expenditure on new establishments in Great Britain which had not commenced production in the year is included for 1953, 1952 and 1951.
- (h) Small firms in Northern Ireland are included for 1949 only.
- (i) The total figures for 1951, 1950 and 1949 include an estimate for firms not making satisfactory returns, and the figures for 1951 also include an estimate for small firms in Northern Ireland.
- (j) The value of shipbuilding and ship repairing work done during the year and sales of ships' fittings, etc., and other products. For the years 1950 and 1949 gross output excludes payments for transport services on ships and ships' fittings, etc., sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.
- (k) The values estimated were not considered to be reliable and are therefore omitted; the value of stocks of materials and fuel is estimated to have been £2,570,000 higher at the end of the year than at the beginning.
- (l) The values estimated were not considered to be reliable and are therefore omitted; the value of stocks of products on hand for sale, work in progress, and materials and fuel is estimated to have been £3,286,000 lower at the end of the year than at the beginning.
- (m) The results for the Textile Machinery and Accessories, Mechanical Handling Equipment and Brass Manufactures Trades in 1952 were not considered to be reliable and are therefore omitted. Estimates for these trades are included in the Order totals for 1952.
- (n) Comparable information for the Constructional Engineering Trade was not collected in 1950, and no allowance for this trade has been included in the Order totals for that year.
- (o) Including operatives employed in Great Britain on outside work of erection, fitting, etc. In 1951 the number of operatives so employed was as follows but similar information is not available for other years:
- |                                  |        |
|----------------------------------|--------|
| Constructional Engineering       | 16,642 |
| Mechanical Engineering (General) | 23,720 |
| Electrical Engineering (General) | 3,930  |
| Radio and Telecommunications     | 32,901 |
- (p) The decrease between 1950 and 1951 in the number of persons recorded as employed in this trade is wholly due to the reclassification of establishments to trades. It is most unlikely that there was a corresponding decrease in the number of persons employed in the production of electric wires and cables.
- (q) The increase between 1950 and 1951 in the number of persons recorded as employed in this trade is due, in part, to the reclassification of establishments between trades.
- (r) The particulars returned for 1949 were incomplete.
- (s) The values estimated for the individual items of stocks were not considered to be reliable and are therefore omitted; the value of stocks of products on hand for sale and work in progress is estimated to have been £42,000,000 higher at the end of the year than at the beginning.
- (t) In calculating net output in the Aircraft Manufacture and Repair Trade receipts from Government Departments of £130,000 in 1950 and £280,000 in 1949 have been taken into account.
- (u) In all years the output of railway establishments is valued at cost, i.e., a sum calculated to cover the cost of labour and materials together with such a proportion of the general establishment charges as was properly attributable to the output concerned but without any allowance for profit. The output of other establishments is, however, valued at selling price and therefore includes profit.

(v) In calculating net output in the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trade Excise duty on mechanical lighters has been taken into account as follows:

1953 £'000	1952 £'000	1951 £'000	1950 £'000	1949 £'000
..	442	410	392	334

(w) Comparable information for the Ferrous and Non-Ferrous Scrap Metals (Processing) Trade was not collected in 1950 and 1949, and no allowance for this trade has been included in the figures for those years.

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