



BOARD OF TRADE

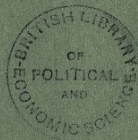
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FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 3

Trade K

AIRCRAFT MANUFACTURE AND REPAIR



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

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TWO SHILLINGS NET

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

List of Tables

Table No.	Title	Page.
1	Summary: Larger establishments	3/K/2
2	Summary, 1948: Small firms in Great Britain	3/K/3
3	Estimated average employment, 1948: All firms in Great Britain	3/K/3
4	Analysis by size, 1948: Larger establishments in Great Britain	3/K/3
5	Analysis by standard region, 1948: Larger establishments in Great Britain	3/K/4
6	Analysis according to specialisation within the trade, 1948: Larger establishments in Great Britain	3/K/4
7	Total make of intermediate products: Larger establishments	3/K/4
8	Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades: Larger establishments	3/K/5
9	Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments	3/K/6
10	Sales (or production) in the trade of other than principal products: Larger establishments	3/K/6
11	Analysis of sales, 1948: Larger establishments in Great Britain	3/K/7
12	Production, exports and imports of certain principal products: Larger establishments	3/K/7
13	Purchased materials and fuel: Larger establishments	3/K/8
14	Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain	3/K/11
15	Employment and remuneration: Larger establishments	3/K/11
16	Wages and salaries paid, 1948: Larger establishments in Great Britain	3/K/12
17	Payments for work done on materials given out, 1948: Larger establishments in Great Britain	3/K/12
18	Payments for certain services, 1948: Larger establishments in Great Britain	3/K/12
19	Plant, machinery and vehicles acquired and disposed of, 1948: Larger establishments in Great Britain	3/K/13
20	Capital expenditure on building work and changes in occupation of buildings and land, 1948: Larger establishments in Great Britain	3/K/13

Country Tables

Table No.	Title	Page
21	Summary: Larger establishments	3/K/14
22	Summary: Small firms	3/K/15
23 or 23(1)	Sales in the trade: Larger establishments	3/K/16
23(11)	Sales in the trade: Small firms	*
24 or 24(1)	Purchased materials and fuel: Larger establishments	3/K/18
24(11)	Purchased materials and fuel: Small firms	*
25 or 25(1)	Employment and remuneration: Larger establishments	3/K/21
25(11)	Employment: Small firms	*
26	Monthly index of employment of operatives: Larger establishments	3/K/22

* Not applicable to this trade

AIRCRAFT MANUFACTURE AND REPAIR TRADE

THIS REPORT on the Aircraft Manufacture and Repair Trade relates to establishments engaged wholly or mainly in the manufacture and repair of complete aircraft (including gliders, airships and balloons) and frames, and of engines of all types, propellers, undercarriages, and other parts and accessories (except electrical equipment).

This trade corresponds to minimum list heading 82 with the addition of establishments manufacturing miscellaneous parts and accessories of aircraft included in heading 83 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1935.

VEHICLES
AIRCRAFT MANUFACTURE AND REPAIR TRADE

Summary
Larger establishments

TABLE 1

	1948	1935
	£'000	£'000
Gross output (production)	113,826	14,328
Receipts from Government Departments	2,676	-
Cost of materials and fuel used	42,462	5,391
Payment for work done on materials given out	6,331	270
Net output	67,709	8,667
Wages and salaries of persons employed	49,475	..
Average number of persons employed (a)	No. 134,046(b)	No. 35,890
Net output per person employed (a)	£ 505	£ 241
Stocks at end of year	£'000	£'000
Finished products and work in progress	62,252	..
Materials and fuel	11,607	..
Number of establishments	No. 195	No. 57

(a) Excluding outworkers.

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

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

	1948	1935
	£'000	£'000
Output of firms in this trade		
Total value of sales (1948) or production (1935)		
Principal products (see Table 8)	104,793	12,882
Other output (see Table 10)	6,491	147
Adjustment for changes in stocks and work in progress (see Table 14)	+ 2,696	+1,299(a)
	113,979	14,328
Less payment for transport by other firms	154	
Gross output (production)	113,826	14,328
Materials and fuel used by firms in this trade		
Purchases (see Table 13)	43,356	5,391
Adjustment for changes in stocks (see Table 14)	- 894	
Materials and fuel used	42,462	5,391

(a) Work in progress only.

Summary, -1948
Small firms in Great Britain

TABLE 2

Number of returns	24
Average number of persons employed (a)	
Males	129
Females	20
Total	149

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	134,046
Employing on average ten persons or less (b)	149
	134,195
Estimated average employment in firms not making satisfactory returns	99
Estimated average employment in all firms	134,294

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	22	352	230	389	98	30	128	592
25-49	19	630	431	692	167	65	232	623
50-99	41	2,452	1,628	3,085	752	318	1,070	528
100-199	30	3,815	2,636	4,195	1,036	500	1,536	628
200-299	18	3,922	2,424	4,598	1,145	541	1,685	527
300-399	5	1,069	820	1,714	422	215	637	478
400-499	7	2,290	1,498	3,190	835	296	1,131	470
500-749	9	4,399	2,436	5,285	1,172	757	1,929	461
750-999	7	4,929	3,705	6,007	1,355	983	2,338	617
1,000-1,499	14	11,910	6,412	17,385	4,077	2,233	6,310	369
1,500 and over	23	78,058	45,488	87,506	21,877	10,601	32,478	520
Total	195	113,826	67,709	134,046	32,936	16,538	49,475	505

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output £'000	Net output		Persons employed	Remuneration		
			Value £'000	Percentage of total		Wages £'000	Salaries £'000	Total £'000
England	No.	£'000	£'000		No.	£'000	£'000	£'000
Northern; East and West Ridings of Yorkshire; and North Midland	30	17,647	10,428	15.4	20,362	5,295	1,932	7,227
Eastern	12	14,577	7,222	10.7	11,383	2,902	1,664	4,567
London and South Eastern	59	21,420	13,684	20.2	24,086	6,037	3,348	9,385
Southern	38	9,372	5,768	8.5	14,612	3,232	2,097	5,329
South Western	18	25,661	14,455	21.3	27,801	6,416	3,818	10,234
Midland	13	9,694	5,774	8.5	12,967	3,480	1,478	4,958
North Western	15	10,364	6,761	10.0	14,618	3,504	1,545	5,050
Total England	185	108,735	64,092	94.7	125,829	30,867	15,882	46,749
Wales	4	716	417	0.6	790	193	59	252
Scotland	6	4,375	3,199	4.7	7,427	1,876	598	2,474
Great Britain	195	113,826	67,709	100.0	134,046	32,936	16,539	49,475

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output £'000	Sales of characteristic products £'000	Net output £'000	Persons employed	Remuneration			Net output per person employed £
						Wages £'000	Salaries £'000	Total £'000	
Specialist producers of	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Complete aircraft and airframes	20	23,694	13,913	14,155	26,743	6,709	3,363	10,071	529
Aircraft parts and accessories	59	6,120	4,788	4,290	7,998	2,069	823	2,892	536
Remainder of the trade	116	84,012		49,265	99,305	24,159	12,353	36,512	496
Total	195	113,826		67,709	134,046	32,936	16,539	49,475	505

TABLE 7 - Total make of aero-engines, 1948

Larger establishments

The total number of aero-engines made during the year, including those made by establishments classified to other trades, was 3,199.

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

11

Larger establishments

TABLE 8

	1948 Sales			1935 Production	
	Quantity	Value £'000	Entries	Quantity	Value £'000
Aircraft, complete, other than rotary wing aircraft	No.	£'000	No.	No.	£'000
With one engine	86 Th. horse power	538	7	644	1,275(a)
	66 No.				
	78 Th. horse power	361	7	644	1,275(a)
	..				
With two or more engines	No.	4,147	7	644	1,275(a)
	245 Th. horse power				
	176 No.	829	7	644	1,275(a)
	28 Th. horse power				
	..	692	..	..	(c)
Aircraft, reconditioned (b)	No. 72				
Aero-engines, complete and parts	..	18,875	30	..	4,815
Airframes, propellers, undercarriages and other parts of aircraft (d)	..	44,943	137	..	5,551(e)
Gliders and sailplanes (non-powered) and parts, parachutes and parts and accessories, and model aircraft other than toys	..	483	..	..	270
Aircraft accessories and parts not separately distinguished	..	2,883	..	..	270
Development and experimental work, including work on prototype aircraft, etc., for which payment was receivable (f)	..	20,546	47	..	278(b)
Repair work, modifications, conversions, etc. (f)	..	16,583	77	..	797
Work done for the trade (including receipts in respect of cancelled contracts) (f)	..	2,533	..	..	(c)
Products not separately specified	-	-	-	..	409 (g)
Total		113,213	..	..	13,395
Less sales (or production) in other trades (see Table 9)		8,420	..	..	513
Total principal products of this trade sold or made by establishments in the trade		104,793	130	..	12,882

(a) Described as "Aeroplanes, complete, with engines fitted".

(b) So far as recorded separately.

(c) Not recorded separately.

(d) Including complete aircraft fitted with engines, instruments, and other materials supplied by and remaining the property of H.M. Government; the value of such engines, instruments, etc. is excluded.

(e) Of this amount £3,327,000 was recorded as "Aeroplanes, complete, without engines".

(f) Amount charged in 1948 and amount received in 1935.

(g) Returned by Government Departments, details are not available.

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

Larger establishments

TABLE 9

	1948 Sales			1935 Production	
	Quantity	Value	Entries	Quantity	Value
		£'000	No.		£'000
Aero-engines, complete and parts	..	2,137	16	..	101
Propellers and parts, undercarriages and other parts of aircraft	..	4,326	..	..	371
Gliders and sailplanes (non-powered) and parts, parachutes and parts and accessories, and model aircraft other than toys	..	173	..	}	40
Aircraft accessories and parts not separately distinguished	..	1,577	..		
Development and experimental work, including work on prototype aircraft etc. for which payment was receivable (a)		75	6		-
Work done for the trade, including repair work, modifications, conversions, etc. (a)		133	..		1
Total		8,420	..		513

(a) Amount charged in 1948, and amount received in 1935.

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

Larger establishments

TABLE 10

	1948 Sales	1935 Production
	£'000	£'000
Motor vehicles, parts and accessories	2,312	}
Plant and machinery and parts	662	
Machine tools and parts	1,079	
Other metal goods, (excluding scrap)	1,002	
Scrap metal		
Aluminium	177	}
Other, including metallic residues	115	
Other goods, including waste	966	10
Work done (b)	180	(c)
Total	6,491	147

(a) Described as "Manufactures of metal".

(b) Amount charged.

(c) Not recorded separately.

Analysis of Sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	1,769	2.5
Export sales organisations (including branches abroad)	128	0.2
Other wholesale or selling organisations	371	0.5
Retail shops, etc.	-	-
Total sales (or transfers) to other organisations under the same control	2,268	3.2
Sales to independent buyers		
Exports invoiced directly overseas	10,773	15.0
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	2,162	3.0
His Majesty's Government and Local Authorities (other than productive establishments)	39,524	55.2
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	13,535	18.9
Wholesalers, merchants and other agents for resale	2,916(a)	4.1
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	104	0.1
Other businesses (including farmers) and institutions of all kinds	168	0.2
Members of the public, including employees	201	0.3
Total sales to independent buyers	69,383	96.8
Total	71,650	100.0

(a) of this total £1,967,000 was recorded as divided between £476,000 for export and £1,490,000 for other sales.

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

TABLE 12

		Production (b)(c)	Exports	Retained imports
		No.	No.	No.
Aircraft, complete	1948	509(d)	1,123(e)	58
	1935	644	453	20

(a) Figures of sales (or production) refer only to larger establishments in the relevant years. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.

(b) Sales in 1948 and production for sale in 1935.

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

(d) Including reconitioned aircraft.

(e) Including second-hand aircraft.

VEHICLES

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Materials				
Iron and steel (a)				
Bars and rods				
Of alloy steel	7.1	681	2.7	130
Of iron and non-alloy steel	4.7	225	..	25
Sheets and strip				
Of alloy steel	2.1	416	0.9	83 (b)
Of iron and non-alloy steel	4.2	193	..	32 (b)
Forgings in the rough				
Of alloy steel	4.0	1,105	0.6	91 (c)
Of iron and non-alloy steel	2.0	200	..	16 (c)
Tubes of iron and non-alloy steel	0.6	107	0.5	113
	..	17	..	60
Wire and cable of iron and non-alloy steel	..	15	0.2	18
			..	7
Other descriptions, except finished parts				
Of alloy steel	1.0	265	..	(d)
	..	261		
Of iron and non-alloy steel	2.2	140	..	(d)
	..	58		
Aluminium and aluminium alloys				
Plates, sheets, strip and circles	7.8	2,040		
Extruded tubes, bars, sections and wire	3.0	1,057		
Castings and forgings, rough dressed	3.3	1,782	2.1	571 (e)
Foil	-	2		
Other descriptions, except finished parts	1.2	165		

AIRCRAFT MANUFACTURE AND REPAIR

TABLE 13 (contd.)

	1948		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Materials (contd.)				
Brass (including all alloys of copper, other than nickel alloys) in all forms, except finished parts	1.0	259	0.4	38 (f)
Copper in all forms, except finished parts	0.7	160		
	Th. sq. yds.		Th. sq. yds.	
Linen piece goods	590.1	121	787.1	45
			..	9
Timber (excluding timber used for making into packing cases, etc., or for repairing returnable cases)				
Hardwood	78.9	62		
Softwood	1.3	108		
Plywood	2,840.9	190		
Paint, enamel and varnish	593.4	507		
Leather	297.5	35		
Leather cloth	97.8	32		
Tyres and tubes	21,415	125		
Aero-engines, propellers, under-carriages and other purchased components	..	19,598	..	2,847 (g)
Aviation spirit	11,658	1,349		
Paraffin oil for aircraft engines	7,831	345		
Packing materials	..	376		
Replacement parts for plant or machinery	..	490		
Consumable tools bought as replacement	..	790		
All other purchased materials	..	6,947		
Unclassified materials	..	754	..	1,115

TABLE 13 (contd.)

	1948		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Fuel and electricity				
Coal	146.8	456	25.3	34
Coke	44.0	172	9.8	13
Electricity purchased (h)	Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)	
From public supply	198,668	908	37,653	118
From other sources	3,450	19		
Electricity obtained from other works under the same ownership	-	-		
Motor spirit (petrol) and deriv. fuel	Th. galls.			
Used for road vehicles	1,312	120	..	(d)
Used for other power purposes	797	33	Th. galls.	26(1)
Other oil fuel (including creosote/pitch mixtures)	9,982	370			1,530
Gas purchased	Th. therms			
From public supply	7,121	288	..	(d)
From other sources	..	1		
Gas obtained from other works under the same ownership	-	-		
All other purchased fuel	..	12		
Total		43,356		5,391

- (a) For 1935 steel only.
 (b) Described as "Steel sheets".
 (c) Described as "Steel forgings".
 (d) Not recorded separately.
 (e) Described as "Aluminium and aluminium alloys in all forms".
 (f) Described as "Copper, brass, and other alloys of copper in all forms".
 (g) Including fuel not specified separately.
 (h) The total quantity of electricity consumed in 1948 was 209,947,000 B.T. units including 7,829,000 generated in the same works.
 (1) Described as "Heavy fuel oil".

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

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
Finished products	..	£'000 5,818	..	£'000 6,647
Work in progress		53,738		55,604
Total finished products and work in progress		59,556		62,252
Materials and fuel	Th. tons		Th. tons	
Iron and steel in all forms except finished parts	12.3	1,285	16.1	1,677
	..	159		
Other descriptions of materials and fuel	..	9,269	..	9,930
Total materials and fuel		10,713		11,607

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives		Administrative, technical and clerical employees (b)		Total	
	1948	1935	1948	1935	1948	1935
Males						
Under 18	2,659	3,129	661	417	3,220	3,546
All ages	85,345	28,266	29,413	4,719	114,758	32,985
Females						
Under 18	202	270	1,134	261	1,336	531
All ages	8,567	1,687	10,718	1,218	19,285	2,905
Total						
Under 18	2,861	3,399	1,795	678	4,656	4,077
All ages	93,912	29,953	40,131 (c)	5,937	134,043 (c) (d) (e)	35,890
Total remuneration	£'000 32,936	..	£'000 16,539	..	£'000 49,475	..

- (a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-
 Canteen workers 176 males 1,420 females
 Other workers 1,328 males 311 females
 (b) Number at September 25, 1948, and October 12, 1935.
 (c) There were, in addition, 3 male working proprietors in 1948. Working proprietors are included in the 1935 figures.
 (d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £1,054,000.
 (e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	407	
Maintenance and repair of firms' buildings but not plant	766	
Research work not directly connected with current production however charged	3,148	2,531

In addition to the employees in the above table the firms in this trade employed 9 male outworkers in 1948, the amount paid to them being less than £500. Similar information is not available for 1935.

Wages and Salaries paid, 1948 (a)
Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
	£'000	£'000					
Wages and salaries of							
Operatives	32,936	20,327	24.1	24.4	23.8	27.8	100.0
Administrative, technical and clerical employees	16,539	9,864	23.8	23.8	24.5	28.0	100.0
Total	49,475	30,191	24.0	24.2	24.0	27.8	100.0

(a) Including bonus and commission payments.

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

Larger establishments in Great Britain

The total amount paid for work done on materials given out was £6,331,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	305
Of plant, machinery and vehicles	317
Unclassified	151
Hire of plant, machinery and vehicles	534
Advertising and market research	
Advertising in newspapers, magazines and periodicals	131
Other advertising services (poster display, despatch of circulars, etc.) and market research	127
Unclassified	127
Payments made for research work	
To research associations	7
To universities, institutions, academic bodies and similar agencies	12
To other commercial concerns	7
Postage, telephone, telegrams and cables	410
Commercial insurance premiums	827
Rates (excluding water rates) payable in the year	232

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	1,508	1,000	211
Vehicles	170	116	44
Total	1,679	1,447	255

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

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		780
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	714	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	488	
(111) Leasehold buildings and land newly occupied in the year	698	
Total of heading 2		1,900
Total of headings 1 and 2		2,680
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	272	
(11) Estimated value of other properties relinquished	419	
Total of heading 3		691
4. Headings 1 and 2 less heading 3		1,989

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

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

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

(d) Including property destroyed or abandoned.

VEHICLES COUNTRY TABLES
AIR MANUFACTURE AND REPAIR TRADE
1948
Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	108,735	716	4,375	113,826
Receipts from Government Departments	2,674	2	1	2,676
Cost of materials and fuel used	41,042	256	1,165	42,462
Payment for work done on materials given out	6,275	44	12	6,331
Net output	64,092	417	3,199	67,709
Wages and salaries of persons employed	46,749	252	2,474	49,475
Average number of persons employed (a)	125,829	790	7,427	134,046
Net output per person employed (a)	509	528	431	505
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	61,016	136	1,099	62,252
Materials and fuel	11,377	55	175	11,607
Number of establishments	No. 185	No. 4	No. 6	No. 195

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (see Table 23)	106,361	722	4,201	111,283
Adjustment for changes in stocks and work in progress	+ 2,524	- 3	+ 174	+ 2,696
	108,885	719	4,376	113,979
Less payment for transport by other firms	150	3	-	154
Gross output (production)	108,735	716	4,375	113,826
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	41,897	260	1,199	43,356
Adjustment for changes in stocks	- 855	- 4	- 34	- 894
Materials and fuel used	41,042	256	1,165	42,462

Summary
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	21	-	3	24
Average number of persons employed (a)				
Males	117	-	12	129
Females	19	-	1	20
Total	136	-	13	149

(a) Including working proprietors.

Sales in the trade
Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products		£'000		£'000		£'000
Aircraft, complete, other than rotary wing aircraft	No. 86	538			No. 86	538
	Th. horse power 68				Th. horse power 68	
With one engine	No. 78	361	-	-	No. 78	361
	Th. horse power ..				Th. horse power ..	
	No. 245	4,147			No. 245	4,147
	Th. horse power 176				Th. horse power 176	
With two or more engines	No. 28	829	-	-	No. 28	829
	Th. horse power ..				Th. horse power ..	
Aircraft, reconditioned	No. 72	692	-	-	No. 72	692
Aero-engines, complete and parts	..	16,738	-	-	..	16,738
Airframes, propellers, undercarriages and other parts of aircraft	..	(a)	-	(a)	..	40,618
Gliders and sailplanes (non-powered) and parts, parachutes and parts and accessories	..	311	..	-	..	311
Aircraft accessories and parts not separately distinguished	..	1,106	-	-	..	1,106
Development and experimental work, including work on prototype aircraft, etc. for which payment was receivable (b)	..				..	20,471
Work done for the trade, including repair work, modifications, conversions, etc., and receipts in respect of cancelled contracts (b)	..	(a)	..	(a)	..	18,983
Total principal products		100,671		4,121		104,793

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Other output		£'000		£'000		£'000
Motor vehicles, parts and accessories			2,312
Plant and machinery and parts					..	662
Machine tools and parts					..	1,079
Other metal goods (excluding scrap)					..	1,002
Scrap metal	..	6,411 (a)	..	80 (a)	..	
Aluminium					..	177
Other, including metallic residues					..	115
Other goods, including waste					..	966
Work done (b)					..	180
Total		107,082		4,201		111,283

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

(b) Amount charged.

VEHICLES COUNTRY TABLES
Purchased materials and fuel
Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Iron and steel						
Bars and rods						
Of alloy steel					7.1	681
Of iron and non-alloy steel					4.7	225
Sheets and strip	17.8	1,464	0.3	50		
Of alloy steel					2.1	416
Of iron and non-alloy steel					4.2	193
Forgings in the rough						
Of alloy steel					4.0	1,105
Of iron and non-alloy steel					2.0	200
Tubes of iron and non-alloy steel					0.6	107
					..	17
Wire and cable of iron and non-alloy steel	..	(a)	..	(a)	..	15
Other descriptions, except finished parts						
Of alloy steel					1.0	265
					..	261
Of iron and non-alloy steel					2.2	140
					..	58
Aluminium and aluminium alloys						
Plates, sheets, strip and circles					7.8	2,040
Extruded tubes, bars, sections, and wire	14.0	4,833	0.1	46	3.0	1,057
Castings and forgings, rough dressed					3.3	1,782
Foil	-	2	-	-	-	2
Other descriptions, except finished parts					1.2	165
Brass (including all alloys of copper, other than nickel alloys) in all forms, except finished parts	..	(a)	..	(a)	1.0	259
Copper in all forms, except finished parts					0.7	160

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
		£'000		£'000	Th.sq.yds.	£'000
Materials (contd.)						
Linen piece goods					590.1	121
Timber (excluding timber, used for making into packing cases, etc., or for repairing returnable cases)						
Hardwood					Th.cu.ft.	
					78.9	62
Softwood					Th. standards	
					1.3	108
Plywood	..	(a)	..	(a)	Th.sq.ft.	
					2,840.9	190
Paint, enamel and varnish					Th. galls.	
					583.4	507
Leather					Th.sq.ft.	
					297.5	35
Leather cloth					Th. sq.yds.	
					97.8	32
Tyres and tubes					No.	
					21,415	125
Aero-engines, propellers, undercarriages and other purchased components						
					..	19,598
Aviation spirit					Th. galls.	
					11,658	1,249
Paraffin oil for aircraft engines	Th.galls.		Th. galls			
	7,721	334	110	10	7,831	345
Packing materials					..	376
Replacement parts for plant or machinery	..	(a)	..	(a)	..	490
Consumable tools bought as replacement	..	785	..	5	..	790
All other purchased materials	..	6,714	..	233	..	6,947
Unclassified materials	..	435	..	319	..	754
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	132.2	417	14.6	39	146.8	456
Coke	41.6	165	2.4	7	44.0	172

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Fuel and electricity (contd.)	Th.B.T.U. (KW.hrs.)	£'000	Th.B.T.U. (KW.hrs.)	£'000	Th.B.T.U. (KW.hrs.)	£'000
Electricity purchased (b)						
From public supply	190,194	875	8,475	33	198,668	908
From other sources	3,450	19	-	-	3,450	19
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	1,249	115	62	5	1,312	120
Used for other power purposes	796	33	1	-	797	33
Other fuel (including creosote/pitch mixtures)						
Gas purchased	..	(a)	..	(a)	Th. therms	
From public supply					7,121	288
From other sources	..	1	-	-	..	1
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	..	12	-	-	..	12
Total		42,157		1,199		43,356

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

(b) The total quantity of electricity consumed in England and Wales was 201,472,000 B.T. units including 7,829,000 generated in the same works. The total quantity of electricity consumed in Scotland was 8,475,000 B.T. units; no electricity was recorded as being generated in the same works.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	2,539	627	3,166	120	34	154	2,659	661	3,320
All ages	80,331	28,261	108,592	5,014	1,152	6,166	85,345	29,413	114,758
Females									
Under 18	186	1,084	1,270	16	50	66	202	1,134	1,336
All ages	7,813	10,211	18,024	754	507	1,261	8,567	10,718	19,285
Total									
Under 18	2,725	1,711	4,436	136	84	220	2,861	1,795	4,656
All ages	88,144	38,472 (b)	126,616 (b) (c)	5,768	1,659	7,427 (c)	93,912	40,131 (b)	134,043 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	31,060	15,941	47,001	1,876	598	2,474	32,936	16,539	49,475

(a) Number at September 25, 1948.

(b) There were, in addition, 3 male working proprietors.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £1,054,000; £995,000 for England and Wales, and £59,000 for Scotland.

In addition to the employees in the above table the firms in England and Wales in this trade employed 9 male outworkers. The amount paid to them was less than £'000.

Monthly index of employment of operatives: Larger establishments
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	100.6	101.4	100.7	August	98.9	99.8	98.9
February	100.1	100.0	100.1	September	99.9	100.0	99.9
March	99.4	99.8	99.4	October	101.6	99.8	101.5
April	99.2	99.9	99.2	November	102.4	99.8	102.3
May	98.8	99.7	98.8	December	102.9	100.1	102.7
June	98.5	99.9	98.6	Percentage employment in this trade covered by the index	60.2	59.8	60.2
July	97.8	99.8	98.0				

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

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