

BOARD OF TRADE

FINAL REPORT on the CENSUS OF PRODUCTION FOR 1948

Volume 5

Trade F

BRASS MANUFACTURES

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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List of Tables Title

Summary: Larger establishments

5/F/2

Table No.

	2	Summary, 1948: Small firms in Great Britain	5/F/3
	3	Estimated average employment, 1948: All firms in Great Britain	5/F/3
	4	Analysis by size, 1948: Larger establishments in Great Britain	5/F/3
	5	Analysis by standard region, 1948: Larger establishments in Great Britain	5/F/4
	6	Analysis according to specialisation within the trade, 1948: Larger establishments in Great Britain	5/F/4
	7	Total make of intermediate products: Larger establishments	*
	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	5/F/5
	9	Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments	5/F/8
	10	Sales (or production) in the trade of other than principal products: Larger establishments	5/F/10
	11	Analysis of sales, 1948: Larger establishments in Great Britain	5/F/11
	12	Production, exports and imports of certain principal products: Larger establishments	5/F/12
	13	Purchased materials and fuel: Larger establishments	5/F/13
	14	Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain	5/F/15
	15	Employment and remuneration: Larger establishments	5/F/16
	16	Wages and salaries paid, 1948: Larger establishments in Great Britain	5/F/17
	17	Payments for work done on materials given out, 1948: Larger establishments in Great Britain	5/F/17
)	18	Payments for certain services, 1948: Larger establishments in Great Britain	5/F/17
	19	Plant, machinery and vehicles acquired and disposed of, 1948: Larger establishments in Great Britain	5/F/18
	20	Capital expenditure on building work and changes in occupation of buildings and land, 1948: Larger establishments in Great Britain	5/ F/1 8
		Country Tables	
T	able No.	- Title	Page
	21	Summary: Larger establishments	5/F/19
	22	Summary: Small firms	5/F/20
	23 or 23(1)	Sales in the trade: Larger establishments	5/F/21
	23 (11)	Sales in the trade: Small firms	*
	24 or 24(1)	Purchased materials and fuel: Larger establishments	5/F/24
	24(11)	Purchased materials and fuel: Small firms	*
	25 or 25(1)	Employment and remuneration: Larger establishments	5/F/27
	25(11)	Employment: Small firms	*
	26	Monthly index of employment of operatives: Larger establishments	5/F/28
		* Not applicable to this trade	

BRASS MANUFACTURES TRADE

THIS REPORT on the Brass Manufactures Trade relates to establishments engaged wholly or mainly in the manufacture of brass castings, stampings and pressings. Brass manufactures covered in the reports on 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, Fish Hooks and Metal Smallwares Trades; while there is some output of brass articles in the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trades.

This Trade corresponds to minimum list heading 95 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1937 or 1935.

BRASS MANUFACTURES TRADE

Summary

Larger establishments

TARIE I

TABLE I			-
	1948	1937	1935
Gross output (production)	£1000 54,966	£1000 18,799	£'000 13,665
Cost of materials and fuel used	25,597	8, 850	5, 867
Payment for work done on materials given out	681	252	208
Excise duty	9		••
Net output	28,678	9,697	7,590
Wages and salaries of persons employed	15, 685 No.	No.	No.
Average number of persons employed (a)	51,659(b) £	43, 406 £	39,282
Net output per person employed (a)	555 £1000	223 £!000	193 £1000
Stocks at end of year			
Finished products and work in progress	4,967	••	
Materials and fuel	4,079 No.	NO.	No.
Number of establishments	616	No.	497

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

	1948	1937	1935
Output of firms in this trade	£1000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8) Other output (see Table 10)	45,750 8,948	15,229 3,570	11, 174 2, 491
Adjustment for changes in stocks and work in progress (see Table 14)	+ 587		
Less payment for transport by other firms	55 , 285 318	18,799	13,665
Gross output (production)	54,966	18,799	13,665
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	25, 600	8,850	5,867
Adjustment for changes in stocks (see Table 14)	- 3		
Materials and fuel used	25,597	8,850	5, 867

Summary, 1948

Small firms in Great Britain

TABLE 2

The state of the s	
Number of returns	240
Average number of persons employed (a)	
Males	1, 180
Females	264
Total	1, 444

(a) Including working proprietors.

Estimated average employment, 1948 All firms in Great Britain

TABLE 3

As returned by firms	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Employing on average more than ten persons (a)	51, 659
Employing on average ten persons or less (b)	1, 444
6 14,762 51,504 6,186 1 8	53, 103
Estimated average employment in firms not making satisfactory returns	137
Estimated average employment in all firms	53,240

- (a) See Tables 1 and 15.
- (b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Avronomo						Remuneration	1	
Average number employed	Establish- ments	Gross output	Net output	Persons employed	Wages	Salaries	Total	Net output per person employed
	No.	£1000	2,000	No.	£1000	£1000	£1000	٤
11-24	182	3,372	1,799	3,139	771	212	983	573
25-49	179	6,397	3,372	6, 190	1,493	389	1.882	545
50-99	124	8,728	4,650	6,840	2,079	607	2,686	526
100-199	72	12,493	6,776	11,561	2,708	787	3, 495	586
200-299	30	8,541	4, 118	7.400	1.821	444	2, 265	557
300-399	11	4, 155	2,260	3,763	938	217	1, 154	601
400-499	11	5,330	2,869	4,968	1,205	298	1,503	577
500-749	4	2,694	1, 150	2,377	563	187	750	484
750-1,499	3	3, 255	1,684	3, 421	773	194	967	492
Total	616	54, 966	28,678	51,659	12,352	3, 333	15, 685	555

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

Analysis by standard region, 1948 Larger establishments in Great Britain

TABLE 5

			Net	output		34987	Remuneration	n
Region	Establish- ments	Gross	Value	Percentage of total	Persons employed	Wages	Salaries	Total
	No.	£'000	£1000		No.	£1000	£1000	£1000
England								
Northern	16	1,069	582	2.0	1,312	317	59	376
East and West			40.100	aligning propits	ton Smerio			
Ridings of Yorkshire	56	5, 453	3,286	11.5	5,504	1,309	286	1,594
North Midland	11	495	296	1.0	499	131	32	163
Eastern	5	395	201	0.7	387	84	28	112
London and						3 -34	A Comment	
South Eastern	96	5,444	3, 163	11.0	5,705	1,413	474	1,886
Southern	8	1,219	592	2.1	1,178	290	103	392
South Western	10	1,752	834	2.9	1,531	372	129	501
Midland	291	29,525	14,762	51.5	26,705	6, 186	1,651	7,836
North Western	66	5,071	2,761	9.6	4,494	1,148	301	1,449
Total England	559	50,423	26, 477	92.3	47,315	11,249	3,061	14, 310
Wales	3	152	51	0.2	108	32	11	43
Scotland	54	4,391	2,150	7.5	4,236	1,071	261	1,332
Great Britain	616	54,966	28,678	100.0	51,659	12,352	3 , 333	15, 685

TABLE 6 - Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

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

Note - Owing to the large output recorded against general headings by establishments not classified to this trade, the output recorded against any of the specific headings may be incomplete.

TABLE 8

		1948		193	37	1935
		Sales	7	Produc	ction	Production
33 1 1111	Quantity	Value	Entries	Quantity	Value	Value
	Th. cwts.	2,000	No.	Th. cwts.	£1000	£1000
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver) (a)			3302			-ithelughucise entr
Engineers' and mechanicians' goods (including fittings for water supply)				144.131		el) anouncement of (anouncement betalloose
Valves, other than for motor vehicles, and cocks	219.5	5,276 2,101	226 {	264.8	2,478 913	2,371
Sanitary, bathroom, and other { steam and water fittings	230.2	5,922 3,699	39	143.6	1,374 490	1,532
Other kinds of engineers' and mechanicians' goods, except pressure gauges (b)	111.8	2,028 935] 148 {	34.1	352 151	162
Builders' and cabinet makers' goods (including house, shop, ship, office, hearth and church furniture), not elsewhere specified	66.8	1,869 1,305] 153 {	150.5	1, 603 940	1,932
Fittings for motor cars and chassis	42.7	1, 213 815	48 {	29.8	354 108	483
Lamps, pendants, electroliers, brackets, taps and other fittings for lighting or heating purposes, whether oil, gas or electric, not elsewhere specified (c)(d)	43.0	1,212 2,096	98			Police end masps, to each total tota
Hurricane lamps (e)(f)	Thous.	14	0.83	220.7	1,148 596	1,513
Miners' lamps	19	34	6		ing in al	
Stoves, pressure type, oil burning	10000		Tayasia T			or in the east rest
Complete	259 Th. cwts.	264 177	} 11	}	(g)	(g)
Parts (e)	3.6	64	13	}	HORS SE	
Switches, lampholders, cutouts and other accessories for electric lighting	5.1	223 344	30 {	20.7	302 72	330
DS. 847 1/1						

TABLE 8 (contd.)

	k2 nen	1948 Sales		199 Produc		1935 Production
Bestieskie son einwedstilleres vo	Quantity	Value	Entries	Quantity	Value	Value
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver) (a) (contd.)	Th. cwts.	£1000	No.	Th. cwts.	£1000	£'000
Coffin furniture {	2.6	85 34	} 14 {	6.1	89 53	155
Bar, brewery and distillery fittings	1.8	71 668	39	10.6	307	192
Fire extinguishing apparatus (f)	10.2	396 93	23 {	2.5	33 67	62
Art metal work (including antique reproductions) not elsewhere specified		944	42 {	13.2	165 (h) 203 (h)	
Nameplates, dials, instruction plates and similar goods of brass	3.2	162 (e) 600 (e)			(1)	118(j)
Portholes, scuttles and similar fittings for ships	22.6	554 311	33 {	16.0	116 60	137
Railway and tramway fittings	7.8	202 289	} 22	14.0	159	119
Sheet metal stampings and pressings of brass, not elsewhere specified	32.6	1,282 999	245 {	86.9	768 (k) 370 (k)	1,514(k)
Hot brass pressings, not elsewhere specified	237.0	3,624	41	284.1	1,368(k)	con plantage
Hinges, hinge blanks and parts therefor (1)	2.7	99 354	} 23 {	4.9	40 57	COOR TOT ROBBI
Bolts and hasps, blanks and parts therefor (1)	1.5	55 23	} 16	200227 200000		> 975
Processed brass for clock dials		37			13748/14 TH	
Propellors and propellor blades for {	63.0	740(e) 675(e)	10	67.9	778 197	NA A STEEL MARKET
Other finished goods of brass, etc., not elsewhere specified	47.3	1, 143 1, 606	} 201			
Castings in the rough	652.2	8,615	414	590.7	3,428	0.510
Unclassified brass castings	132.6	1,674	149	114.3	834	2, 516
Unclassified finished goods of brass	35.4	646 830	68	••	682	538
Unclassified forgings (including drop forgings and drop stampings of brass) in the rough or machined	0.3	7 1	> 6	222	0300 (87%) 0328 (03)	nting

TABLE 8 (contd.)

		1948 Sales	isenal .	193 Produc		1935 Production
and the state of the state of the state of	Quantity	Value	Entries	Quantity	Value	Value
Central Contraction	Th. cwts.	£'000	No.	Th. cwts.	£'000	£1000
Coffin furniture		V-12.563				
Zinc	11.9	162 137	} 5 {	9.0	129 18] 110
Other metals (excluding brass)	0.3	2(e) 117(e)	}	pages to se	110 130 110 130	om delegate englis
Waste products, other than scrap		29	30	chartes in ord	(1)	(1)
Nork done for the trade (finishing, polishing, lacquering, etc.) (m)		365	67		35	14
Repair work (m)	2082	186	78		84	66
Total		57,407		1 30000 000	20,921	15,097
Less sales (or production) in other trades (see Table 9)		11,657		- LUE TEN	5, 692	3,923
Total principal products of this trade sold or made by establishments in the trade		45,750	589	19 10 10 10	15, 229	11, 174

- (a) Excluding all nickel alloys in 1937. Described as "Finished brass goods" in 1935.
- (b) For pressure gauges see the Mechanical Engineering (General) Trade (Volume 4, Trade I).
- (c) Excluding motor and cycle lamps for which see the Electrical Engineering (General) Trade (Volume 4, Trade K).
- (d) For blow lamps and brazing lamps see the Tool and Implement Trade (Volume 5, Trade A).
- (e) So far as recorded separately.
- (f) For other than of brass see the report on the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trade (Volume 5, Trade E).
- (g) Not recorded separately.
- (h) Including some goods of metals other than brass.
- (1) Not recorded.
- (j) Returned by establishments previously classified to the Printing, Bookbinding, Stereotyping, Engraving and Kindred Trades, not covered by the 1937 Inquiry.
- (k) Including some unclassified output.
- (1) For similar products of iron and steel see the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trade (Volume 5, Trade E).
- (m) Amount charged in 1948 and amount received in 1937 and 1935.

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

Larger establishments

TABLE 9

		1948 Sales		198 Produc		1935 Production
	Quantity	Value .	Entries	Quantity	Value	Value
	Th. cwts.	£1000	No.	Th. cwts.	£1000	£'000
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver)	Maria	76		Mondanida	Loxi) ales	
Engineers' and mechanicians' goods (including fittings for water supply)					enido Legrada	274 83489
Valves, other than for motor vehicles, and cocks	53.5	1,592 261	108 {	45.3	572 227	668
Sanitary, bathroom, and other steam and water fittings	27.4	838 159	31 {	16.7	114 143	129
Other kinds of engineers' and mechanicians' goods, except pressure gauges	24.2	357 169	41 {	13.2	162 25	35
Builders' and cabinet makers' goods (including house, shop, ship, office, hearth and church furniture) not elsewhere specified	11.8	295 118	39 {	44.4	417 165	240
Fittings for motor cars and chassis	Entered san	6	{	0.8	16 4	45
Lamps, pendants, electroliers, brackets, taps and other fittings for lighting or heating purposes, whether oil, gas or electric, not elsewhere specified	5.0	196 86] 17 {	2.4	31 34	122
Stoves, pressure type, oil burning Complete	Thous.	- 26 177	7	_		398 Sin
Parts	Th.cwts.	64	13	-	_	100 _10
Switches, lampholders, cutouts and other accessories for electric lighting	0.2	1 7	{	0.3	5 6	6
Coffin furniture	-	-		-	-	7
Bar, brewery and distillery fittings	0.3	12	6	0.5	8	8

TABLE 9 (contd.)

		santal to at	1948 Sales		321721	193 Produc		1935 Production
* 925 P		Quantity	Value	F	Entries	Quantity	Value	Value
1987 1985 Production Production		Th. cwts.	£'000		No.	Th. cwts.	£'000	2,000
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver) (contd.)		800.3	8			nibuloki) a	Lend to ear	uosimsi
Fire extinguishing apparatus	{	1.2	218 13	1	5 {	0.2	10 5	12
Art metal work (including antique reproductions) not elsewhere specified		Appa Section	208	80	17	5.0	32. 37	70
Nameplates, dials, instruction plates and similar goods of brass	{	0.4	28 76	}	12	"S TESS SEE 2 OF	des bas h	nabilina s usoco
Portholes, scuttles and similar fittings for ships	{	11.6	259 20	}	7 {	2.2	16 53	} 47
Railway and tramway fittings		-	_	5,41	in Korket	0.4	9	8
Sheet metal stampings and pressings of brass, not elsewhere specified	{	14.1	823 398	}	181 {	38.1	317 110	705
Hot brass pressings, not elsewhere specified		10.4	1 54	The second second second	12	41.8	186	395
Bolts and hasps, blanks and parts therefor		AES	1	on Biogental or because of		sawanio non	les and di	COLOGICAL PARTY
Propellors and propellor blades for ships and other finished goods of brass, etc., not elsewhere specified	{	66.0	956 698	}	134 {	57.4	691 169	765
Castings in the rough		123.1	1,689		157	212.9	1,357	1 20
Unclassified brass castings		120.3	1,510		138	61.3	406	1,173
Unclassified finished goods of brass	{	3.9	20 45	}	43	••	365	193
Unclassified forgings (including drop forgings and drop stampings of brass) in the rough or machined	{	0.3	7 1	}	6	Superinte s	nia sinjan :	solupsell
offin furniture of metals other than brass			130			-	-524	aca tanto
ork done for the trade (finishing, polishing, lacquering, etc.)	(a	180 cm 189 1.	25(a)				s.Tati	BERRE TOTAL
Total		044	11,657				5, 692	3,923

(a) Amount charged.

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

Larger establishments

TABLE 10

TABLE 10	T Trismes		
00073 00013 ANSKOLED 1 208 000	1948 Sales	1937 Production	1935 Production
	£'000	2,000	£1000
Manufactures of brass (including all alloys of copper, other than nickel alloys)		Co. Transce	Carlle leggle
Pressure gauges	122	38	46
Ingots, plates, sheets, rods, sections and tubes	565	252	145
Manufactures of metals other than brass	(58,400 cwts.)		blettrags
Builders' and cabinet makers' goods	181	131	145
Cocks and valves, other than for motor vehicles	597	111	66
Sanitary, bathroom and other steam and water fittings	298	34	57
Hardware, hollow-ware, metallic furniture and sheet metal products	389	208	397
Needles, pins and metal smallwares	291	51	33
Machinery and parts	299	94	66
Parts and accessories of motor cars, motor cycles and cycles	215	324	185
Metal manufactures, not elsewhere specified		TOTAL SONE IS NOT FRIEND	AND INTEREST
Of iron and steel	842	519	142
Of aluminium	1,099	134	78
Of copper	354	251	128
Of lead	20	49	26
Of zinc	155	30	137
Of white metal	165	185	158
Of other metals and alloys	373	151	86
Electrical goods and apparatus	121	166	89
Other goods	883	246	215
Scrap metals		dam dame orange to	Seati
Brass	1,645 (446,100 cwts.)	488	227
Other metals	196	62	41
Work done (a)	140	46	24
Total	8,948	3,570	2,491
10041	0,040	0,070	2, 402

⁽a) Amount charged in 1948 and amount received in 1937 and 1935.

Analysis of sales, 1948 Larger establishments in Great Britain

TABLE II

TABLE II		
pentansa automa (a) (a) (b) abiananana	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control	A CONTROL SOUND SE	
Productive works	974	1.8
Export sales organisations (including branches abroad)	6	60 TO 200 TO 100
Other wholesale or selling organisations	645	1.2
Retail shops, etc.	32	0.1
Total sales (or transfers) to other organisations under the same control	1,656	3.1
Sales to independent buyers		
Exports invoiced directly overseas	2,608	4.8
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	2,004	3.7
His Majesty's Government and Local Authorities (other than productive establishments)	1,188	2.2
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	25,916	48.0
Wholesalers, merchants and other agents for resale	17,699(a)	32.8
Retailers, including multiple shops, caterers and N. A. A. F. I., for resale	2,037	3.8
Other businesses (including farmers) and institutions of all kinds	847	1.6
Members of the public, including employees	77	0.1
Total sales to independent buyers	52,376	96.9
Total	54.032	100.0

⁽a) Of this total £11,903,000 was recorded as divided between £3,276,000 for export and £8,627,000 for other sales.

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

TABLE 12

egoticaries convinciones	Production (b) (c)	Exports	Retained imports
2003	Th.cwts.	Th. cwts.	Th. cwts.
Valves other than for motor vehicles, and cocks, of brass and other alloys of copper { 1937	306.9 362.4	55 . 8 24 . 4	10.9 66.7

- (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 1937, partly estimated.
- (c) Including sales (or production) by establishments classified to other trades.

Purchased materials and fuel Larger establishments

TABLE 13

		1948		1937		193	55
		Materials and fuel purchased		Usage of purchased and fuel			
		Quantity	Cost	Quantity	Cost	Quantity	Cost
TAIS!		Th. tons	٤١٥٥٥	Th. tons	£' 000	Th. tons	£'000
aterials					Present to	astrone- tas	STATE OF
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver) (a)		rot			3,023		elens er dens
Unwrought, in blocks, ingots, slabs, billets, etc.		30.1	3,097	33.8	1,762(b)	12. 3	414(c
Castings		4.7	1,066	4.3	334	4.3	260
Plates, sheets, strip, discs, and circles	{	8.5	1,362	7.0	502		ods
Tubes	{	1.4	325 58	1.0	103	oos adase s	
Scrap		16.4	1,445	15.8	733	28.9	1, 177
Rods and bars (rolled, extruded, or drawn) and wire		36.7	4,848	16.3	1,039	uni iiniga	453
Other descriptions (d)	1	8.8	1,748 448	1	127	J territor	186
Unclassified	-	1.7	228	- 600	000, 2000	108102 301	300 _
Zinc and alloys of zinc, unwrought, in ingots, blocks, slabs, and cakes		4.2	356	2.4	71(e)	5.1	128(f)
Copper			1782			TORREST TO	
Unwrought, in ingots, blocks, slabs, bars, etc.		2.0	240	6.1	329		0.00
Plates, sheets, strip, discs and circles		0.7	141	0.8	62		ner.
Tubes		1.1	200	0.5	68	out testes	(a. a.e.
Wire and rods	{	0.3	53 6	}	(g)	9.9	383,
Scrap		5. 6	616		(g)	L.	
Other descriptions (d)			82	VE 1. 27 10	(g)	The antique	0x2 (p)
Unclassified		5.3	697	1 ,200 10 11	100-000	1	(0)
acking materials			373		100	eruri autoor	(g)
ron and steel in all forms, except finished parts	1	21.2	792 166	Learner Load		on retrovers There shibes	
luminium and aluminium alloys in all forms, except finished parts		4.2	365		(g)		(g)

TABLE 13 (contd.)

	1948		1937		1935		
		Materials and fuel purchased		Usage of purchase and fue		d materials l	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Te Desge of pirolegog materials	Th. tons	£'000	Th. tons	£'000	Th. tons	2'000	
Materials (contd.)	1 13 23 24 11 1/2 1						
Replacement parts for firms' machinery	1500 . 713	240					
Consumable tools bought as replacement	000 (8)	428	}	2,813		2,472(h	
All other purchased materials		4,821				Tistell	
Unclassified materials		197	Sandadije s	430	s paulaulosli	349	
Fuel and electricity	a sections			(6)	evita leasin		
Coal	21.2	63	23, 3	29	20.1	21	
Coke	67.0	307	m. p.m.rr	(g)	48.4	71	
Electricity purchased (1)	Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		
From public supply	60,786	296		344	Selai		
From other sources	138	12	37,695	135	33,064	114	
Electricity obtained from other works under the same ownership	244	1			de	-38	
Motor spirit (petrol) and derv. fuel	Th. galls.	582	trinded, or	o delk	Th. galls.		
Used for road vehicles	358	38 7	}	(g)	otiqiaose ta	(g)	
Used for other power purposes	150	7			pellican	and .	
Other oil fuel (including creosote/ pitch mixtures)	3, 495	110	ni sasucaw	(g)	1,309	25 (J	
Gas purchased	Th. therms 5,136	168				Pages	
From public supply	Th. cu. ft. 12,094	18	ka, alapa,	ts, blo	ent of Joseph	venti Tad	
From other sources	Th. therms	1	bee sos	213	interesta, sa	(g)	
Cas obtained from other works under the same ownership	Th. cu. ft. 4,405	1			a.	077	
All other purchased fuel		16					
Total	sia	25,600		8,850	7	5,867	

(a) Excluding all nickel alloys in 1937. Described as "Brass" in 1935.

(b) Including bars.
(c) Described as "Unwrought in blocks, ingots, etc."
(d) Excluding finished parts in 1948.
(e) Zinc only.
(f) Described as "Zinc, in all forms".
(g) Not recorded separately.
(h) Including fuel not specified separately.
(i) The total quantity of electricity consumed in 1948 was 62,554,000 B.T. units including 1,523,000 generated in the same works.
(j) 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	ng of year	At end of year		
1838	Quantity	Value	Quantity	Value	
		£'000		£1000	
Finished products	0.000 985.0	1,509	880 B.	1,816	
Work in progress		2,737	2 907 108	3,005	
Unclassified		135		146	
Total finished products and work in progress	384.8	4, 381		4,967	
faterials and fuel	Th. tons	75 6 48 25 26 26 26 26 40 4	Th. tons	et tepau	
Brass in all forms, except finished parts	13.6	1, 482 678	12.5	1,378 648	
Copper in all forms, except finished parts	1.6	185	1.5	180	
Other descriptions of materials and fuel		63	E asserbloss	65	
Unclassified		1,571	stion for which	1,698	
onerassified	••	100	••	110	
Total materials and fuel	salar at	4,077	0830	4,079	

Employment and remuneration (a)

Larger establishments

TABLE 15

		ge number eratives	of	Administrative, technical and clerical employees (b)			Total		
TESS 20	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males Under 18 All ages Females Under 18 All ages	2,053 30,006 1,061 14,421	5,508 27,220 2,959 11,356	4,782 23,954 2,923 10,794	210 4, 246 485 2, 855	246 2,975 449 1,855	200 2,804 362 1,730	2, 263 34, 252 1, 546 17, 276	5,754 30,195 3,408 13,211	4,982 26,758 3,285 12,524
Total									
Under 18 All ages	3, 114 44, 427	8, 467 38, 576	7,705 34,748	695 7,101(c	695) 4,830	562 4,534	3,809 51,528 (c)	9, 162 43, 406	8,267 39,282
Total remuneration	£'000 12,352	\$84 d 950	••	£'000	+ 1	seg bonols	£'000	uerrol lik	ii sanau

(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
Other workers

5 males 73 males 462 females 51 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

c) There were, in addition, 131 working proprietors (128 males and 3 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £394,000.

(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	102	
Maintenance and repair of firms' buildings, but not plant	111	
Research work not directly connected with current production however charged	16	24

In addition to the employees in the above table the firms in this trade employed 6 male and 66 female outworkers in 1948, the amount paid to them being £6,000. Similar information is not available for 1937 and 1935.

DS 8471/1

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid	i and the state of					
	by all	Amount	Percenta	ige of annua	l remunera	tion paid in	1
	establish- ments	paid	First quarter	Second	Third quarter	Fourth	Year
Wages and salaries of	£'000	£1000	301			sefetiev	
Operatives Administrative,	12, 352	6,724	24.1	25. 2	24.2	26.5	100.0
technical and clerical employees	3,333	1,770	24.5	24.4	24.5	26.7	100.0
Total	15, 685	8,493	24. 2	25.0	24.2	26.5	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 £681,000.

Payments for certain services, 1948 Larger establishments in Great Britain

TABLE 18

	Amount paid
Repair and maintenance	£'000
Of buildings	194
Of plant, machinery and vehicles	350
Unclassified	112
Hire of plant, machinery and vehicles	16
Advertising and market research	PLEATURE PRINCE THE
Advertising in newspapers, magazines and periodicals	50
Other advertising services (poster display, despatch of circulars,	Lucia to later .
etc.) and market research	24
Unclassified	98
Payments made for research work	of the other acts mathematical fair
To research associations	3
To universities, institutions, academic bodies and similar agencies	3
To other commercial concerns	7
Postage, telephone, telegrams and cables	151
Commercial insurance premiums	165
Rates (excluding water rates) payable in the year	55

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

111000 10				
and service and se	Acquis	Acquisitions		
Calculate our les estrets and	New Second-hand		Disposals	
ecid Production	£'000	£'000	£'000	
Plant and machinery	1,003	188	87	
Vehicles	105	56	32	
Total	1,107	244	118	

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

Larger establishments in Great Britain

TABLE 20

IADL	E 20	世界的政治的首都對於政治學的	28,232,84	
1.	Capital expenditure on building work (a)	£!000	£'000 368	
2.	Existing buildings and land (b)			
	(i) Capital cost of freeholds bought	233		
	Estimated capital value of			
	(ii) Rented property newly occupied in the year (c)	88		
	(111) Leasehold buildings and land newly occupied in the year	214		
	Total of heading 2		535	
	Total of headings 1 and 2		903	
3.	Existing buildings and land relinquished (d)			
	(1) Selling value of freeholds sold	12		
	(11) Estimated value of other properties relinquished	70		
	Total of heading 3		82	
4.	Headings 1 and 2 less heading 3		821	

(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.

TABLE 21

Summary Larger establishments

senso pusitoog /-	England	Wales	Scotland	Great Britain
	£1000	£1000	£'000	£'000
Gross output (production)	50, 423	152	4,391	54,966
Cost of materials and fuel used	23, 292	98	2, 207	25,597
Payment for work done on materials given out	645	3	34	681
Excise duty	9	-	_	9
Net output	26, 477	51	2, 150	28, 678
Wages and salaries of persons employed Average number of persons	14, 310 No.	43 No.	1,332 No.	15,685 No.
employed (a)	47, 315 £	108 £	4,236 £	51, 659 &
Net output per person employed (a)	560	472	508	555
Stocks at end of year	£'000	£'000	£'000	£1000
Finished products and work in progress	4, 428	2	537	4,967
Materials and fuel	3, 674	11	394	4,079
Number of establishments	No. 559	No. 3	No. 54	No. 616

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£1000	£1000	£'000
Total value of sales (see Table 23)	50, 162	153	4, 383	54, 698
Adjustment for changes in stocks and work in progress	+ 531	-	+ 56	+ 587
Less payment for transport by	50, 693	153	4, 438	55, 285
other firms	270	1	47	318
Gross output (production)	50,423	152	4,391	54,966
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	23, 287	100	2, 213	25,600
Adjustment for changes in stocks	+ 5	- 1	- 6	- 3
Materials and fuel used	23, 292	98	2,207	25,597

Summary

Small firms

TABLE 2

TABLE 22				
inessors salevilla	England	Wales	Scotland	Great Britain
Number of returns	216	2	22	240
Average number of persons employed (a)			Secur Text	Seo alsinut Seo alsinut
Males	1,049	14	117	1, 180
Females	233	-	31	264
Total	1,282	14	148	1,444

(a) Including working proprietors.

Sales in the trade

Larger establishments

TABLE 23

TABLE 23	England an	d Wales	Scotl	and	2=	Delega
	Quantity	Value		T		Britain
			Quantity	Value	Quantity	Value
Principal products	Th. cwts.	£1000	Th. cwts.	£1000	Th. cwts.	£'000
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver)			5.2	The Co	10: 10 ⁶ 5 6	
Engineers' and mechanicians' goods (including fittings for water supply)				250	Satioina Solvivestee	
Valves, other than for motor vehicles, and cocks	157.1	3, 471 1, 740	8.8	213 101	165.9	3, 684 1, 840
Sanitary, bathroom, and other steam and water fittings	194.8	4, 580 2, 352	8.0	504 1, 188	202.9	5, 084 3, 540
Other kinds of engineers' and mechanicians' goods, except pressure gauges	84.5	1,611 570	3.0	60 196	87.6	1,671 766
Builders' and cabinet makers' goods (including house, shop, ship, office hearth and church furniture), not elsewhere specified	54.8	1,568 1,157	0.1	6 30	54.9	1,574 1,187
Fittings for motor cars and chassis	•••	(a)	••	(a) {	42.7	1, 213 808
Lamps, pendants, electro- liers, brackets, taps and other fittings for light- ing or heating purposes, whether oil, gas or electric, not elsewhere		(a)		(a) {	38.0	1,016
specified				(,,)	••	2,010
Hurricane lamps	Thous.	14			Thous.	14
Miners' lamps	19	34	- 5.4		19	34
Stoves, pressure type, oil burning	247	238	-	-	247	238
Switches, lampholders, cut- outs and other accessories for electric lighting	••	(a)	••	(a) {	Th. ewts.	222 337
The name of the last					and a read of the last	

TABLE 23 (contd.)

TABLE 23 (contd.)		1702 00	Contlo	nd	Great Britain		
	England and	THE RESERVE	Scotla				
	Quantity	Value	Quantity	Value	Quantity	Value	
Principal products (contd.)	Th. cwts.	81000	Th. cwts.	£1000	Th. cwts.	€1000	
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver) (contd.)	2 2390		12 . 1 .83W0 T		3505		
Coffin furniture	2.6	85 34	} -	- {	2.6	85 34	
Bar, brewery and distillery fittings	1.5	55 644		13	1.5	59 65 7	
Fire extinguishing apparatus		(a)	••	(a) {	9.0	178 80	
Art metal work (including antique reproductions) not elsewhere specified		(a)	••	(a)	(Class t	737	
Nameplates, dials, instruction plates and similar goods of brass	••	(a)	••	(a) {	2.8	133 524	
Portholes, scuttles and similar fittings for ships	10.9	279 263	0.1	17 28	11.0	295 291	
Railway and tramway fittings		(a)		(a) {	7.8	202 289	
Sheet metal stampings and pressings of brass, not elsewhere specified	18.4	459 600	}	- {	18.4	459 600	
Hot brass pressings, not elsewhere specified	226.6	3, 470		2	226.6	3, 470	
Hinges, hinge blanks and parts therefor		(a)	••	(a) {	2.7	99 354	
Bolts and hasps, blanks and parts therefor	••	(a)	• • *	(a) {	1.5	53 23	
Processed brass for clock dials	••	37	-	J-6	ndente esson Teodeis Espa	37	
Propellors and propellor blades for ships, and other finished goods of						70 3031 2001	
brass, etc., not elsewhere specified	••	(a)	••	(a) {	44.2	927 1,583	
Castings in the rough	466.2	6, 135	62.8	791	529.1	6,926	
Unclassified brass castings	••	(a)		(a)	12.3	164	
Unclassified finished goods of brass	28.5	576 727	3.0	50 58	31.5	626 785	
Coffin furniture of metals other than brass	12.2	164 10	-798	114	12.2	164 124	
Waste products, other than scrap metal		(a)		(a)	Chapted that	29	
Work done for the trade (finishing, polishing, lacquering, etc.) (b)		335		4	potyment also	340	
Repair work (b)		146		40		186	
Total principal products DS 8471/1		41,972		3,778		45.750	

TARLE 23 (contd.)

	England an	d Wales	Scotl	and	Great	Britain
	Quantity	Value	Quantity	Value	Quantity	Value
Other output	Th. cwts.	£1000	Th. cwts.	٤١٥٥٥	Th. cwts.	\$1000
Manufactures of brass (including all alloys of copper other than nickel alloys)	the fearth and	160, 35	Whose makes			
Pressure gauges	1833	(a)	2 4997	(a)		122
Ingots, plates, sheets, rods, sections and tubes	•• ,	(a)		(a)	58.4	565
Manufactures of metals other than brass		200		(4)		505
Builders' and cabinet makers' goods		152		28	in blocks,	181
Cocks and valves, other than for motor vehicles		(a)	•• 2.5	(a)		597
Sanitary, bathroom and other steam and water fittings	••	72	4.5	226	igindo asos salonio	298
Hardware, hollow-ware, metallic furniture and sheet metal products		387	1,4,0	3		389
Needles, pins and metal smallwares		291	2 0.0	_		291
Machinery and parts		297	1	1	Applifor) or	299
Parts and accessories of motor cars, motor cycles and cycles		215	10 10 10 10 10 10 10 10 10 10 10 10 10 1	_	Bu to the building of	215
Metal manufactures, not elsewhere specified						Pininin foot
Of iron and steel		808		33	0015.10 80	842
Of aluminium		1,025		75	a incotta	1,099
Of copper.		309		45		354
Of lead		19		1		20
Of zinc		155	-	_	in ingotal	155
Of white metal		162	1. 70	3		165
Of other metals and alloys		372		1	olusa abse	373
lectrical goods and apparatus	1	121	-		i de la	121
ther goods		870		13		883
crap metals		1 1 2	7870			to has deed
Brass		1,558	27.9	88	446.1	1 645
Other metals		193		3		1,645
ork done (b)		136	-	4	anning!	196
Total		50, 316		4,383		140

(a) Owing to the risk of disclosure of information relating to individual firms separate figures cannot
(b) Amount charged.

Purchased materials and fuel Larger establishments

		21	

		England a	and Wales	Scotl	and	Great Britain	
		Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials	(6)	Th. tons	£'000	Th. tons	£! 000	Th. tons	£1000
Brass (including all alloys of copper, but excluding nickel alloys other than nickel silver)	(8)				3 9/13		ASTO DAY
Unwrought, in blocks, ingots, slabs, billets, etc.	- 88	26.3	2,663	3.9	435	30.1	3,097
Castings		4.1	935	0.6	131	4.7	1,066
Plates, sheets, strip, discs, and circles	{	8.4	1,357 166	} -	6 {	8.5	1, 362 166
Tubes	{	0.9	223 58	0.4	103 {	1.4	325 58
Scrap		14.0	1,252	2.4	192	16.4	1,445
Rods and bars (rolled, extruded, or drawn) and wire		35.4	4, 683	1.2	165	36.7	4,848
Other descriptions	{	7.7	1,501 440	1.1	248 8	8.8	1,748 448
Unclassified		1.7	227	-	1	1.7	228
Zinc and alloys of zinc, unwrought, in ingots, blocks, slabs and cakes	76 0	3.7	3 06	0.5	51	4.2	3 56
Copper							Tempon 2
Unwrought, in ingots, blocks, slabs, bars, etc.		1.7	206	0.3	34	2.0	240
Plates, sheets, strip, discs and circles			(a)	•••	(a)	0.7	141
Tubes		1.0	188	-	12	1.1	200
Wire and rods	{	0.3	5 3 6	}	-{	0.3	5 3
Scrap	1 8	5.2	562	0.5	54	5.6	616
Other descriptions			80		2	••	82
Unclassified			(a)		(a)	5.3	697
Packing materials	Sent	Into In. 4 int	338	minimi.	35	10 40,7900	373

TABLE 24 (contd.)

obsite tests	England	and Wales	Scotl	and	Great Britain		
Transfer and Control of the Control	Quantity	Cost	Quantity	Cost	Quantity	Cost	
faterials (contd.)	Th. tons	£1000	Th. tons	£'000	Th. tons	£1000	
Iron and steel in all forms, except finished parts	16.7	7 1 2 165	4.5	80 1	21.2	792 166	
Aluminium and aluminium alloys in all forms, except						Me looki LETTOR	
finished parts	3.9	340	0.3	24	4.2	3 65	
Replacement parts for firms' machinery	••	222		18	(63)	240	
Consumable tools bought as replacement	•••	415		13	MULTURAL ON IS	428	
All other purchased materials	• • • •	4, 381	•	440		4,821	
Unclassified materials		197	_	_		197	
el and electricity							
Coal	15.4	45	5.8	17	21.2	63	
Coke	58.7	268	8.3	39	67.0	307	
Electricity purchased	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		
From public supply	53, 728	264	7,058	32	60,786	296	
From other sources							
Hectricity obtained from works under the same ownership	> 244	1	-	-	244	1	
lotor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.		
Used for road vehicles	332	36 7	25	3 {	358	38 7	
Used for other power purposes	132	6	18	1	150	7	
ther oil fuel (including creosote/ pitch mixtures)	2,783	86	713	24	3,495	110	
as purchased	Th. therms		Th. therms	2.4	Th. therms	110	
From public supply	4,966	161 15	171	6 3	5, 136	168	
Tom pastic supply	Th. cu. ft. 11, 626	3	Th. cu. ft. 468	-	Th. cu. ft. 12,094	18	

D8 8471/1

*

TABLE 24 (contd.)

mentos samo 1 an	England ar	nd Wales	Scotla	and	Great B	ritain
Cost Statemen Cold	Quantity	Cost	Quantity	Cost	Quantity	Cost
Fuel and electricity (contd.)	Therms	£1000	enoù añve	£1000	Therms	£'000
Gas purchased (contd.)			Committee of the commit			100000
From other sources	26	1	_	- (26 Th. cu. ft.	1
Gas obtained from other works under the same ownership	7h. cu. ft. 4,405	1			4, 405	1 448
All other purchased fuel	. S. O	14	••	2		16
Total	44-	23, 387	***	2, 213	XTEX EXIDENT	25, 600

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

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Sc	otland		Grea	Great Britain	
		Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total
Males						1.402			
Under 18	1,842	196	2,038	211	14	225	2,053	210	2, 263
All ages	27,009	3, 860	30,869	2,997	386	3, 383	30,006	4, 246	34, 252
Females									
Under 18	1,012	454	1,466	49	31	80	1,061	485	1,546
All ages	13,785	2, 657	16,442	636	198	834	14, 421	2,855	17,276
Total									
Under 18	2,854	650	3,504	260	45	305	3, 114	695	3,809
All ages	40,794	6,517(b)	47,311 (b)(c)	3, 633	584(b)	4,217 (b)(c)	44, 427	7, 101(b)	51.528 (b)(c)
Total remuneration	£'000 11,281	&'000 3,071	&'000 14,353	£'000 1,071	&'000 261	&'000 1,332	a'000 12, 352	£¹000 3,333	&'000 15,685

- (a) Number at September 25, 1948.
- (b) There were, in addition, 131 working proprietors (128 males, 3 females) in Great Britain; 140 males, 2 females in England and Wales, and 18 males, 1 female in Scotland.
- (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 £394,000; £358,000 for England and Wales, and £35,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers and remuneration are set out below.

	Average numb	er of outworkers	employed	Total amount
	Males	Females	Total	paid to outworkers
England and Halas		66	72	£'000
England and Wales	6	00	12	
Scotland	-	-	-	-
Great Britain	6	66	72	6

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

TABLE 26

nana 2	Monthly index (a)			Water colaw	Monthly index (a)		
Month	England and Wales	Scotland	Great Britain	Month	England and Wales	Scotland	Great Britain
1948	40 APAG CLACKE	Total 1-	10F 1	1948	ps /30 and	Ser l	
January	100.7	100.9	100.7	August	99.1	98.9	99.1
February	101.0	102.2	101.2	September	98.8	98.2	98.7
March	101.3	102.7	101.5	October	98.2	98.0	98.2
April	102.0	101.5	101.9	November	98.6	98.1	98.6
May	102.1	100.9	102.0	December	97.5	98.1	97.6
June	100.9	100.4	100.9	Percentage employ- ment in this trade			es forme
July	99.8	99.0	99.7	covered by the index	51.3	83.9	54.0

⁽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.

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