BOARD OF TRADE

[HA 261]

# The Report on the Census of Production for 1954

# Volume 5: Industry F

## BRASS MANUFACTURES



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

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# The Report on the Census of Production for 1954

THIS REPORT on the Brass Manufactures Industry relates to establishments engaged wholly or mainly in the manufacture of brass castings, stampings and pressings. Brass manufactures covered in the reports on other industries include brass nails, screws, bolts, rivets, washers, etc., in the Chain, Nail, Screw and Miscellaneous Forgings Industry; industrial valves of brass in the Mechanical Engineering (General) Industry; (in 1948 industrial valves of brass were not separately distinguished and establishments mainly manufacturing them were included in the Brass Manufactures Industry); brass wire in the Wire and Wire Manufactures Industry; and smallwares of brass in the Needles, Pins, Fish Hooks and Metal Smallwares Industry; while there is some output of brass articles in the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Industry.

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

There were no larger establishments in Northern Ireland in the register for this industry.

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#### BRASS MANUFACTURES

GENERAL NOTES

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

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

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

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

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

Small firms are those employing on the average 10 or fewer persons

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

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

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents; rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

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

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

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

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

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

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

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

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

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

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

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

#### Symbols used:

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

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

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TABLE 1	
and the second se	
Augusta and a state of the stat	£m
Gross output (production)	
Net output	
Total stocks and work in progress At beginning of year	12
Change during year	+
Capital expenditure less disposals (a)	
Wages and salaries	
Total employment (including working proprietors)	The
<ul> <li>(a) Capital expenditure on new building wor incurred in Great Britain for establis machinery and vehicles disposed of.</li> </ul>	
Summa TABLE 2	ary o
TABLE 2	
FIRMS EMPLOYING ON AVERAGE MORE THAN 10	PERSO
Number of establishments Total value of sales and work done	
Products on hand for sale and work in progress {at beginning change during	
Gross output (production) (a)	
Purchases of materials and fuel	
Stocks of materials and fuel {at beginning change during a state of the state of th	ng ye
Cost of materials and fuel used Payment for work done on materials given or Excise Duty Payment for transport (b)	ıt
Net output	
Average number of employees {operatives others	
Total employment (d) Net output per person employed (d)	
Wages and salaries {of operative of others	8
Capital expenditure New building work (e)	
Plant and machinery {acquisition disposals	s (e)
Vehicles {acquisition: disposals	s (e)
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PE	RSON
Number of returns Total employment, including working proprietors	
(a) For the year 1948 gross output excludes	payr
For subsequent years gross output incluse separate transport organisations for t	udes
(b) Payments to other firms and undertaking year 1948 payments cover only transport	t out
cover payment for transport of both fi (c) Number in week ended September 25, 1948	nishe

(d) Excluding outworkers and including working proprietors. (e) Excluding expenditure for establishments not yet in production.

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#### BRASS MANUFACTURES

#### Industry summary

Estimates for the industry as a whole

	United Kingdon	n	Scotland	Wales 1954	
1948	1951	1954	1954		
E million	£ million	£ million	£ million	£ million	
56.6	78.5	76.2	6.56	1.27	
29.6	33.9	33.6	2.84	0.35	
8.7 + 0.6	10.1 + 4.1	+ 11.1	1.41 + 0.02	0.13 + 0.03	
1.7	1.7	2.7	0.16	0.02	
16.2	17.0	19.8	1.83	0.20	
housands	Thousands	Thousands	Thousands	Thousands	
53.2	47.8	46.9	4.04	0.57	

lant, machinery and vehicles (including (except in 1948) that ts not yet in production), less amounts received for plant.

#### f returns received

	Unit	Great Britain	United	l Kingdom
	Unit	1948	1951	1954
RSONS	na na standa	a shakondan wa	to asked	
	No.	616	578	520
	£'000	54,698	73,621	71,239
f year	•	4,380	4,985	5,992
year		+ 587	+ 1.672	. + 642
		54,966	75,293	71,881
		25,600	43,699	*-39,414
f year		4,076	4,656	4,491
year		+ 3	+ 2,239	+ 663
		25,597	41,460	38,751
		681	800	848
		9		Better, application
		318	547	610
		28,678	32,487	31,672
	No.	44,427	38,996	37,054
		7,101(c)	6,783	7,130
		51,659	45,892	44,247
	£	555	708	716
	£'000	12,352	12,642	14,308
		3,333	3,666	4,365
		A Marka Market M. William		a farmen berertigen .
		368	427	631
e)		1,191	1,003	1,283
		87	48	77
e)		161	311	277
		32	84	105
ONS				
	No.	240	297	301
		1,444	1,779	1,786

ments for transport services outwards on finished goods sold. payments to other firms and undertakings and to firms' own ort services.

to firms' own separate transport organisations. For the twards of finished goods sold. For subsequent years they ed goods sold and materials and fuel purchased.

5/F/3

5/F/4

#### BRASS MANUFACTURES

Analysis by size, 1954: Larger establishments in the United Kingdom

TABLE 3	I MIGING J C	120 -5							
	Estab-	Gross	Net	Emplo	yees	Wages and		Capital expenditure	Net output per person
Average number employed (a)	lish- ments	output	output	Operatives	Others	Operatives		(b)	employed (a)
	Number	£'000	£, 000	Number	Number	£'000	£'000	£'000	£
11 - 24 (c) 25 - 49 50 - 99	171 131 93	4,444 6,914 9,474	2,108 3,103 4,472	2,392 4,008 5,211	491 684 1,016	971 1,513 2,016	310 452 663	85 182 195	725 658 717
100 - 199 200 - 299 300 - 399	67 27 18	14,151 11,476 10,796	6.342 4.943 4.595	7.695 5.747 5.027	1,369 1,131 1,117	2.837 2.210 1.983	871 672 618	354 470 427	699 719 748
400 - 499 500 - 749 750 - 999 1,000 - 1,499	6 4 - 3	4,884 3,692 - 6,050	2.157 1.240 - 2.713	1,980 1,859 3,135	581 266 - 475	922 651 1,207	359 136 - 285	239 83 - 157	842 583 - 752
Total	520	71,881	31,672	37,054	7,130	14,308	4,365	2,191	716

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and venicles.
 Excluding expenditure for establishments not yet in production.
 (c) Including a small number of establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

TABLE 4 - Analysis according to specialisation within the industry, 1954

#### Larger establishments in the United Kingdom

No specialisation within this industry was distinguished.

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

Larger establishments in the United Kingdom

#### TABLE 5

	193	51	1954		
	Quantity	Value	Quantity	Value	Entries
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding other nickel alloys)	Th.cwt.	£,000	Th.cwt.	£°000	Number
Engineers' and mechanicians' goods (including fittings for water supply)					
Draw off taps and cocks, and valves (other than metal to metal contact valves) and gas cocks	59.2	1,941 1,029	141.0	4,551 2,498	} 79
Sanitary, bathroom and other steam and water fittings (except taps, valves and cocks)	293.8	9,474(a) 2,752	156.8	4,984 3,414	90
Other kinds of engineers' and mechanicians' { goods	90.8	2,164 1,059	75.8	2,496 1,182	3 111
Builders' and cabinet makers' hardware (other than shop and office fittings), not elsewhere specified	60.5	2,780(b) 368	35.0	1,340 884	} 68
Fittings for motor cars and chassis	72.6	2,037 1,121	60.4	2.085 564	} 41
Stoves, pressure type, oil burning	Th. 471.7	573 131	Th. 218.3	422 173	} 14
Lamps (not electric), other than blow lamps and brazing lamps (c)	344.0	741 302	316.9	645 144	} 14
Parts of stoves, pressure type, oil burning, and lamps (not electric), other than blow lamps and brazing lamps (d)	Th.cwt.	36 321	Th.cwt. 0.3	10 482	} 6
Brass parts of switches, lampholders, cutouts and other accessories for electric lighting	10.0	426 318	4.6	157 312	} 31

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TABLE 5 (contd.)

Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding other nickel alloys) (contd.)

Pendants, electroliers, brackets, taps and other fittings for lighting or heating purposes

Name plates, clock and other dials, instruction plates, etc.

Bar, brewery and distillery fittings

Fire extinguishing apparatus

Art metal work (including antique reproductions and other ornamental brassware), not elsewhere specified

Bolts, hasps, blanks and parts therefor

Hinges, hinge blanks and parts therefor

Portholes, scuttles and similar fittings for ships

Propellers and propeller blades for ships

Railway and tramway fittings

Curtain rails and fittings

Sheet metal stampings and pressings of brass. not elsewhere specified

Hot brass pressings, not elsewhere specified Castings in the rough (sold as such)

Unclassified brass castings

Finished goods of brass, not elsewhere specified

Unspecified finished brass goods and parts

Coffin furniture of all kinds (including brass)

Waste products other than scrap metals

Work done for the trade or on commission e.g., finishing, polishing, lacquering (e)

Repair work (e)

#### Total

Sales in other industries (see Table 6) Principal products of this industry sold by establishments in the industry

(a) Including a small amount of domestic cocks and taps.

(b) Including shop and office furniture.

(c) For blow lamps and brazing lamps, see the Tool and Implement Industry. (Volume 5. Industry A). For hurricane lamps of metals other than copper alloys, see the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Industry (Volume 5, Industry E).

(d) So far as recorded separately.

(e) Amount charged.

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#### BRASS MANUFACTURES

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T	19	51	T		1954	
-	Quan ti ty	Value	T	Quan ti ty	Value	Entries
	Th.cwt.	£°000		Th.cwt.	£'000	Number
{	50.4	1,617 1,245		14.0	522 877	} 35
{	12.3	918 285		7.2	664 636	36
{	3.5	184 782		1.0	29 655	} 23
{	9.0	311 186		1.2	29 195	} 23
{	18.5	901 448		20.9	741 1,285	} 44
	3.3	149	{	1.1	50 70	] 15
{	13.3	427 91		8.6	372 512	} 33
{	24.1	587 65		7.7	184 491	} 29
	108.1	1,857	1	47.8	1,097 1,478	} 12
1	10.0	170 120		7.9	136 243	} 120
1	3.8	137 659		3.4	106 1,055	} 15
{	96.4	2.765 944		172.2	3,726 1,468	} 210
	350.4	6.544		309.9 575.4	5,480	37
	908.8	18,207	{	86.3	12,379	301
8	56.0	2,124 975	-	61.5	2.135 2.288	} 114
1	12.3	339 1,332		84.7	1,261 1,783	} 186
{	19.0	833 168		3.8	154 330	} 10
		77		a	87	66
		153		interneting Land	205	40
		236	-		211	54
_		73,408	-		70,969	
		14,680		and the states of	15,391	
		58,728		States in the	55,577	486

#### BRASS MANUFACTURES

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

## Larger establishments in the United Kingdom

TABLE 6

5/F/6

	1954		Principal industries in	
	Quantity	Value	Entries	which produced (a)
	Th.cwt.	£'000	Number	and quarters willing
ass and other copper alloys (including nickel ilver and cupro-nickel, but excluding other ickel alloys)		- Carlor		anteriora como presido elloro como forma
Engineers' and mechanicians' goods (including fittings for water supply)			New Line	in her charting in
Draw off taps and cocks and valves (other than metal to metal contact valves) and gas cocks, and other valves and cocks	3.9	100 186	} 17	3C. 4I
Sanitary, bathroom and other steam and water fittings (except taps, valves and cocks)	43.3	1.720 243	\$ 17	3C. 3G. 5E. 12A
Other kinds of engineers' and mechanicians' opods	11.3	335 78	} 20	3F, 3G, 4I
Builders and cabinet makers' hardware (other than shop and office fittings) not elsewhere		51	5	4M. 5C
specified Fittings for motor cars and chassis	1.2	24 31	}	3G, 4I, 5E, 5G
Stoves, pressure type, oil burning	Th. 55.3	122	7	SE
Lamps (not electric), other than blow lamps and brazing lamps, and parts of lamps and stoves		248	5	4I. 5E
Proces parts of switches, lampholders, cutouts	Th.cwt. 2.0	34	} 6	41, 4M, 51
and other accessories for electric lighting Pendants, electroliers, brackets, taps and	0.2	15 267	} 5	4I. 4K. 4M
other fittings for lighting or heating purposes { Name plates, clock and other dials, instruction plates, etc.	0.6	39 53	} 5	3G, 4C, 5E, 5J
Art metal work (including antique reproductions and other ornamental brassware), not elsewhere specified	0.5	22 255	} 10	4F. 5E
Bolts, hasps, blanks and parts therefor	0.3	9 6	}	SE
Hinges, hinge blanks and parts therefor	2.1	77 380	} 13	SE
Portholes, scuttles and similar fittings for ships	3.0	62 15	}	41. SE
Sheet metal stampings and pressings of brass, not elsewhere specified	52.9	1,384 857	} 150	3F. 3G. 4I. 5E
Hot brass pressings, not elsewhere specified	2.2	65 144	}	3G, 3K, 5C
Castings in the rough (sold as such)	116.2	2.415 520	3 128	3B. 3G. 4B. 4I
Unclassified brass castings	86.3	1,688	127	3C
Finished goods of brass, not elsewhere specified	16.0	1,564	34	an and the sector of
Unspecified finished brass goods and parts	82.4	1,177 756	} 177	
Total		15,391		and the state of the

TABLE 7

	19	94
- MALL AND BEEN ALL AND A	Quantity	Value
Valves and cocks for the control of liquids, steam and gases (excluding inlet and exhaust valves for internal combustion engines)	Th.doz.	£*000
Industrial		
Wholly or mainly of iron or steel		287
Wholly or mainly of other metal and alloys, including copper alloys	anter series and the	3,012
Pressure gauges	0.3	13 20
Blow lamps and brazing lamps		111
Hardware, hollow-ware, metal furniture and sheet metal products	·	483
Needles, pins and other metal smallwares		279
Machinery and parts thereof	••	797
Electrical goods and apparatus		140
Parts and accessories of motor vehicles	••	257
Metal manufactures, not elsewhere specified		
Of iron and steel	Th.cwt.	
Iron (including malleable) castings	123.9	591 104
Stampings and pressings in the rough or machined	37.1	318 218
Other manufactures	36.7	504 467
Of copper	manufactor en esperar	
Stampings and pressings	6.5	207
	••	78
Other manufactures	16.9	494 241
Of aluminium	and the second states and	
Aluminium castings	24.1	975
Other manufactures	18.0	621
		353
Of zinc	2.4	75 125
Of other metals and alloys	11.9	255
Scrap metals	••	70
Brass (including dust)	269.5	2,743
brass (Including dist)	••	613
Copper	6.7	58 20
	78.3	20
Other metals	••	41
Other goods	••	7 58
Work done (a)		210
Total	And the second second second second second	15,662

(a) Amount charged.

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

#### BRASS MANUFACTURES

## Sales in the industry of other than principal products

Larger establishments in the United Kingdom

5/F/8

#### BRASS MANUFACTURES

TABLE 8 - Total make of intermediate products

Larger establishments in the United Kingdom

This table is not applicable to the industry.

#### Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.tons	£,000
aterials	Terretter they then the reader	
Brass and other copper alloys including nickel silver and cupro-nickel but excluding all other nickel alloys		agent the Tablicto
Ingots, blocks, slabs, billets, bars and cast strip	63.2	14,253
Castings in the rough	2.8	963 803
	5.8	1,619
Plates, sheets, strip, discs and circles and foil		386
	1.1	276
Wire		66
Other descriptions, except finished parts and scrap	12.0	2,993
Copper Unwrought: ingots, blocks, slabs, bars, billets, cakes,	and the second second	
cathodes and anodes, including rough copper of 94% content	124	1 000
or over	5.3	1,330
Plates, sheets, strip, discs and circles (other than high	0.8	232
conductivity) ( Other descriptions, except finished parts and scrap	1.5	505
Iron and steel		
fron and steel	2.0	143
Iron castings in the rough or machined		22
Iron and steel not specified above except finished parts	15.2	769 139
and scrap	••	135
Aluminium and aluminium alloys in all forms except finished parts and scrap	4.7	887
Zinc and zinc alloys in all forms except finished parts	2.7	286
and scrap		109
Scrap metal		
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys	12.1	2,124
	1.8	394
Copper Decision of comparents		2,651
Purchased components	Th.cwt.	
Packing materials	3.0	20
Cardboard boxes, cartons and fibreboard packing cases		124
	Th.cu.ft. of timber	
	80.2	37
Packing cases (wood or mainly of wood)	••	111
Other packing materials	••	131
Replacement parts for firms own machinery, plant and vehicles		630
Consumable tools bought as replacement including engineers'		507
small tools, jigs, fixtures and measuring instruments	••	537
All other purchased materials	······································	2,487
Unclassified materials	and the set of the set of the	1,693

# BRASS MANUFACTURES TABLE 9 (contd.) Fuel and electricity Coal Coke Liquid fuel (including creosote/pitch mixtures For use in internal combustion engines Motor spirit (petrol) for use in road vehi and derv. fuel Other For burning in furnaces, boilers, kilns, etc. Gas purchased From Gas Boards From other sources, including other department the same firms Electricity purchased (a) From Electricity Boards From other sources, including other department the same firms All other purchased fuel Total cost (a) The total quantity of electricity generated in firms own establishments in this industry in 1954 was 1,156 Th.kWh. Average number of employees, and wages, salaries and superannuation payments (a) Larger establishments in the United Kingdom TABLE 10 Average number of employees Operatives Administrative, technical and clerical employees Total

Wages and salaries paid to Operatives Administrative, technical and clerical employees Total

Wages and salaries per head Operatives Administrative, technical and clerical employees

(83288)

(83288)

5/F/9

and a second second second second second	Quantity	Cost
	Th.tons	£,000
	21.1	
1	21.1	88 11
	47 . 4	317
)	1/01	317
	Th.gal.	
cles		
alite de la serie de la se	612	129
(	122	7
2	••	1
. I State State State	4.773	218
and a strange state of a strange of the	Th.therms	
a state of the state of the	6,369	338
ts of		
	-	-
	Th.kWh.	
	74,979	444
ts of		
	330	2
	••	13
		39,414

simerits in the U		
	1951	1954
)	Num be r	Number
S	38,996 6,783	37,054 7,130
	45,779	44,184
	£'000	£*000
6	12,6 <b>42</b> 3,666	14,308 4,365
	16,308	18,673
	£	£

324 540

386 612

#### BRASS MANUFACTURES

TADLE 10 (contd )

5/F/10

TABLE TO (Contu.)	1951	1954
		£.000
Superannuation and other pension funds for employees		and a subset of the sector
and dependents Employers' contributions		196
	and the provide the	Number
Employees covered	an and a standard and	6,297
	Initial the distance blocked.	£,000
Pension, etc. payments to former employees and dependents		93

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting):

	1951	1954
-	Number	Number
anteen workers Males Females	31 364	19 334
Total	395	353
ther workers Males Females	118 107	86 118
Total	225	204
otal excluded employees	620	5 57

Outworkers. The firms in this industry employed 18 merie and 111 female outworkers in 1951 and 31 male and 71 female outworkers in 1954, the amounts paid to them being £9,000 for each year.

## Employment in a specified week (a) Larger establishments in the United Kingdom

TABLE 11		a second a second	a la companya a			Numb
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	108	5	113	55	8	63
Operatives '	25,454	13,573	39,027	23,841	14,360	38,201
Administrative, technical and clerical employees	4,027	2,842	6,869	4,162	2,988	7,150
Total employees	29,481	16,415	45,896	28,003	17,348	45,351

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

#### VOLUME 1 A. Coal Mines B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate) C. Salt Mines, Brine Pits and Salt Works

- D. Slate Quarries and Mines E. Metalliferous Mines and Quarries
- Brick and Fireclay
- China and Earthenware Glass Containers Glass (other than Containers)
- Cement
- K. Abrasives L. Building Materials M. Manufactured Fuel

#### VOLUME 2

- A. Coke Ovens and By-products A. Coke Ovens and By-products
  B. Dyes and Dyestuffs
  C. Fertiliser, Disinfectant, Insecticide and Allied Industries
  D. Coal Tar Products
  E. Chemicals (General)
  F. Drugs and Pharmaceutical
- Preparations G. Toilet Preparations and Perfumery
- Explosives and Fireworks
- Paint and Varnish
- Soap, Candles and Glycerine Polishes
- Ink
  - Match N. Mineral Oil Refining
  - O. Oils and Greases P. Seed Crushing and Oil Refining Q. Glue, Gum, Paste and Allied

  - Industries R. Plastics Materials

#### VOLUME 3

- A. Blast Furnaces B. Iron and Steel (Melting and Rolling)
- C. Iron Foundries D. Steel Sheets
- E. Tinplate
- F. Wrought Iron and Steel Tubes
  G. Non-Ferrous Metals (Smelting, Rolling, etc.)
  H. Scrap Metal Processing
  I. Motor Vehicles and Cycles

- (Manufacturing) J. Motor Vehicles and Cycles
- (Repairing) K. Aircraft Manufacture and Repair L. Railway Locomotive Shops and Locomotive Manufacturing

and Trams N. Carts, Perambulators, etc.

- M. Railway Carriages and Wagons
  - G. Fur

    - J. Glove

Silk

H. Jute

K. Lace

- K. Umbrella and Walking Stick L. Boot and Shoe
- VOLUME 4 A. Shipbuilding and Ship Repairing
- B. Marine Engineering C. Machine Tools
- D. Textile Machinery and Accessories
- E. Small Arms
- F. Constructional Engineering G. Mechanical Handling Equipment

B. Cutlery C. Chain, Nail, Screw and Miscellaneous Forgings D. Wire and Wire Manufactures E. Hardware, Hollow-ware, Metal Furniture and Sheet Metal F. Brass Manufactures G. Needles, Pins, Fish Hooks and Metal Smallwares H. Scientific, Surgical and Photographic Instruments, etc. I. Watch and Clock J. Jewellery and Plate K. Precious Metals Refining L. Musical Instruments

#### LIST OF INDUSTRY REPORTS

#### VOLUME 4 (contd.)

H. Printing and Bookbinding Machinery Mechanical Engineering (General) Mechanical Engineering (Repairing) Electrical Engineering (General) Electric Wires and Cables M. Radio and Telecommunications N. Batteries and Accumulators O. Electric Lighting Accessories and Fittings

#### VOLUME 5

A. Tool and Implement

#### VOLUME 6

- A. Cotton Spinning and Doubling B. Cotton Weaving C. Woollen and Worsted D. Rayon, Nylon, etc. Production E. Rayon, Nylon, etc. Weaving, and
- \*F. Flax Processing G. Linen and Soft Hemp

- Rope, Twine and Net Hosiery and Other Knitted Goods
- L. Carpets M. Narrow Fabrics N. Canvas Goods and Sacks N. Canvas Goods and Sacks O. Textile Converting P. Made-up Household Textiles Q. Textile Finishing R. Textile Packing

#### VOLUME 7

- A. Asbestos B. Flock and Rag C. Hair, Fibre and Kindred Industries D. Leather (Tanning and Dressing) E. Fellmongery F. Leather Goods
- H. Tailoring, Dressmaking, etc. I. Hats, Caps and Millinery

#### VOLUME 8

A. Grain Milling B. Bread and Flour Confectionery C. Biscuit D. Bacon Curing and Sausage

#### VOLUME 8 (contd.)

- E. Preserved Meat
- F. Milk Products G. Ice Cream
- H. Sugar and Glucose
- I. Cocoa, Chocolate and Sugar
- Confectionery J. Preserved Fruit and Vegetables

#### VOLUME 9

- A. Margarine
- B. Fish Curing
- C. Cattle, Dog and Poultry Foods D. Vinegar and Other Condiments
- E. Starch
- F. Ice
- Miscellaneous Preserved Foods
- H. Brewing and Malting I. Wholesale Bottling
- . Spirit Distilling
- K. Spirit Rectifying and
- Compounding L. Soft Drinks, British Wines
- and Cider M. Tobacco

#### VOLUME 10

- A. Timber
- B. Furniture and Upholstery
- C. Soft Furnishings D. Shop and Office Fitting
- E. Wooden Containers and Baskets
- F. Paper and Board

- G. Wallpaper
  H. Cardboard Box, Carton and Fibre-board Packing Case
  I. Manufactured Stationery, Paper Bag and Kindred Industries
- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

#### VOLUME 11

- A. Rubber B. Linoleum, Leathercloth and Allied Industries C. Brushes and Brooms D. Toys and Games E. Sports Requisites Miscellaneous Stationers Goods Cinematograph Film Production Cinematograph Film Printing Plastic Goods and Fancy Articles Incandescent Mantles VOLUME 12
- A. Building and Contracting B. Local Authorities (Building and
- Civil Engineering) C. Railways (Civil Engineering) D. Tramway, Trolley Bus and Omnibus Undertakings
- (Civil Engineering)
- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry H. Water Undertakings

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