## THE REPORT

 on the CENSUS OF PRODUCTION FOR 1951Volume 5
Trade $\mathbf{F}$
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).
LIST OF TABLES
Titl
Summary $5 / F / 2$
$5 / E / 3$
Small firma ..... /F/3
Estimatod average employment: All firms ..... /5/3
Analysis by size, 1951: Larger establishments in the United Kingdom5/F/4
Analysis by standard region, 1951: Larger establishments in the United Kingdom ..... /F/
Analysis according to specialisation
establishments in the Uni ted Kingdom ..... 5/F/4
Total make of intermediate products:- Larger establishments ..... *
Sales of the principal products of the trade, including sales of these product
by establishments classified to other trades: Larger establishments ..... 5/F/4
Total sales by small firme in Great Britain*
Sales of
trades:
principal products of the ther
Larger establishments ..... 5/F/6
Sales in the trade of other than principal products: Larger establishmenta ..... 5/E/7
Production, exports and imports of certain principal products ..... 5/E/8
Usage of certain specified purchased materials, 1951: Larger establishments
in the United Kingdom ..... 5/F/8
Employment in September: ..... 5/E/8
Average employment: Larger establishments ..... $5 / \mathrm{F} / 10$
Shift working. 1951: Larger establishments in Great Britain ..... S/F/10
Wages and salaries and employers. National Insurance contributions paid during
the year:
Larger establishments
Plant. machinery and vehicles - acquisitions and disposals, ond capital
expendit ture on ner builiding work: Larger establishments ..... 5/F/11
Country tables, 195
Summary. Larger establishmen tsSummary: Small firms in Great Britain5/F/12
-
Sales in the trade: Larger establi shments ..... 5/F/13
Sales in the trade: Small firme
Stocks of products on hand for sale and work in progress, and stocks of
materials ond fuel:
Larger establishments ..... 5/F/15
Employment in September: Larger establishments ..... 5/F/15
Average employment: Larger establishments ..... 5/F/16
Average employment: Small firms
Wages and salaries and employers. National Insurance contributions paid during
the yoar: Larger establishments ..... 5/F/17
Plant, machinery and vehicles - acquisitions and di sposals,
expenditure on ner building work:
Larger establishments ..... 5/E/17
Payments for trasport services for
purchased: Larger establi ishments ..... 5/F/18

## 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, Hardware, Hollow-ware, Metal Furniture while there is some output of brass articles in the Hardware, Hollow-ware, Metal Furniture and Sheet Metal Trades.

Industrial valves of brass are classified to the Mechanical Engineering (General) Trade Prior to 1951, these valves were not separately distinguished and establishments mainly manufacturing them were included in the Brass Manufactures Trade

As the figures for 1951 exclude the particulars for these firms (which recorded for 1951 a net output of $£ 1,525,000$ and an average employment of 2,198 ), they are not strictly
comparable with those for earlier years.

This trade corresponds to minimum list heading 95 in the Standard Industrial Classifioation.

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

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

## Surmary

Larger establishments (a)

|  | Great Britain |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | 1948 | 1937 | 1935 |
| Gross output (production) <br> (b) <br> Cost of materials and fuel used (c) <br> Payment for work done on materials <br> given out <br> Transport payments (d) | $\begin{array}{r} £ .000 \\ 75.293 \end{array}$ | $\begin{array}{r} \varepsilon^{\cdot} \cdot 000 \\ 57.518 \end{array}$ | $\begin{aligned} & \varepsilon^{\varepsilon} .000 \\ & 50.444 \end{aligned}$ | $\begin{array}{r} \varepsilon^{\varepsilon} \cdot 000 \\ 54.966 \end{array}$ | $\begin{gathered} \text { £'000 } \\ 18.799 \end{gathered}$ | $\begin{array}{r} \varepsilon .000 \\ 13.665 \end{array}$ |
|  | 41.460 | 28.261 | 23.481 | 25.597 | 8.850 | 5.867 |
|  | 800 | 586 | 606 | 681 | 252 | 208 |
|  | 547 |  |  |  | .. |  |
| Net output $\begin{aligned} & \text { Nages ond salaries of persons employed }\end{aligned}$ | 32.487 16.308 | 28.671 16.548 | 26.357 15.985 | 28.678 15.685 | 9.697 | 7.590 |
|  | $\begin{gathered} \text { No. } \\ 45.892 \end{gathered}$ | $\begin{aligned} & \text { No. } \\ & 50.057 \end{aligned}$ | $\begin{aligned} & \text { No. } \\ & \text { So. } 213 \end{aligned}$ | $\begin{gathered} \text { No. } \\ 51.659 \end{gathered}$ | No. ${ }_{\text {No. }}^{\text {43.406 }}$ |  |
| Average number of persons employed (e) | ${ }^{\varepsilon} 708$ | $\varepsilon_{573}$ | ${ }_{525}$ | $\varepsilon_{555}$ | $\varepsilon_{223}$ | $\varepsilon_{193}$ |
| stocks at end of year | £.000 | \& 0000 | £. 000 | £.000 | \& 000 | \&.000 |
| Products on hand for sale and work in progress <br> and fuel <br> Number of establishments | 6.658 6.895 | 5.784 <br> 5.245 | ${ }_{3}^{5.088}$ | 4.967 4.079 | .. |  |
|  | ${ }^{\text {No. }}{ }_{578}$ | ${ }^{\text {No }} 625$ | ${ }^{\mathrm{No}}{ }_{630}$ | ${ }_{6}^{\text {No. }}$ ¢16 | No. | ${ }^{\text {No }}$ 497 |
| alues of gross output and of materials and fuel used are derived in the following way:- |  |  |  |  |  |  |
| Output of firms in this trade (f) | £.000 | £ 000 | $\varepsilon^{\prime} 000$ | $\varepsilon^{\prime} 000$ | £ 000 | £. 000 |
|  | 58.728 |  |  | 45.750 | 15.229 3.570 | 11.174 2.491 |
| Other output (h) <br> Changes in stocks and work in progress (i) | 14.893 | 57.093 | 50,817 | 8.948 | 3.570 |  |
|  | + 1.672 | + 791 | - 63 | + 587 |  |  |
| Less payment for transport outwards (d) | 75.293 | 57.884 | 50.754 | 55.285 | 18.799 | 13,665 |
|  |  | 366 | 310 | 318 |  |  |
| Gross output (production) | 75.293 | 57.518 | 50.444 | 54.966 | 18.799 | 13.665 |
| Materials and fuel used by firms in this trade |  |  |  |  |  |  |
| Purchases <br> Changes in stocks (i) | 43.699 -2.239 | ${ }^{29.732}$ | $\begin{array}{r}22.990 \\ + \\ \hline\end{array}$ | $\begin{array}{r}25,600 \\ -\quad 3 \\ \hline\end{array}$ | 8.850 | 5,867 |
| Materials and fuel used | 41.460 | 28.261 | 23.481 | 25.597 | 8.850 | 5.867 |
| (a) For small firms' summary see Table 2 . <br> (b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for tramsport services. For other years payments for transport services outwards on finished goods sold are excluded. |  |  |  |  |  |  |
| (c) Amounts paid for delivery services are excluded for $19{ }^{\circ}{ }^{\circ}$ own separate transport organisations. For 1951 they <br> (d) Payments to other firms and undertakings and to firms own separate fransporchased. For other years paymen |  |  |  |  |  |  |
| (e) Excluding outworkers but including working proprietors. For an estimate of the total numbers of perso |  |  |  |  |  |  |
| (h) For details for 1951 and 1948 see Table 10. |  |  |  |  |  |  |

Larger establishments in Great Britain

| Region | $\begin{gathered} \text { Estab- } \\ \text { Lish- } \\ \text { men ts } \end{gathered}$ | Gross output | Net output |  | Personsemployed | Remuneration |  |  | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value | $\left.\begin{array}{\|c\|} \hline \text { Percent- } \\ \text { oge of } \\ \text { total } \end{array} \right\rvert\,$ |  | Operatives | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Other } \\ \text { employes } \\ \text { ( } a \text { ) } \end{array} \\ \hline \end{array}$ | Total |  |
|  | No. | £.000 | £. 000 |  | No. | £ 000 | \&. 000 | £. 000 | $\varepsilon$ |
| Northern | 14 | 1.312 | 543 | 1.7 | 827 | 249 | 46 | 295 | 657 |
| East and West <br> Ridings | 42 | 6.420 | 2.864 | 8.8 | 3.983 | 1.187 | 287 | 1.474 | 719 |
| North Midlamd | 5 | 370 | 180 | 0.5 | 259 | 79 | 24 | 103 | 695 |
| Eastern | 5 | 420 | 176 | 0.5 | 324 | 88 | 33 | 121 | 543 |
| London and South Eastern | 88 | 7.985 | 3.943 | 12.1 | 5. 484 | 1. 573 | 531 | 2. 103 | 719 |
| Southem | 8 | 1,928 | 808 | 2.5 | 1. 267 | 333 | 117 | 450 | 638 |
| Sout western | 8 | 1,957 | 792 | 2.5 | 917 | 278 | 108 | 385 | 864 |
| Midumd | 301 | 42,129 | 18.024 | 55.5 | 25.583 | 6.703 | 1.930 | 8.633 | 705 |
| North Western | 54 | 5.300 | 2.358 | 7.3 | 2.788 | 840 | 258 | 1.099 | 846 |
| Total Englamd | 525 | 67.820 | 29.688 | 91.4 | 41.432 | 11. 330 | 3.333 | 14.663 | 717 |
| Wales | 5 | 1.179 | 270 | 0.8 | 355 | 102 | 28 | 129 | 761 |
| Scotland | 48 | 6.294 | 2.529 | 7.8 | 4. 105 | 1.210 | 306 | 1.516 | 616 |
| Great Britain | 578 | 75.293 | 32.487 | 100.0 | 45,892 | 12.642 | 3.666 | 16.308 | 708 |

TABLE 6 - Analysis according to specialisation with the trade, 1951
Larger establishments in Great Britain
No specialisation within this trade was distinguished.
TABLE 7 - Total make of intermediate products: Larger establishments in Great Britain
This table is not applicable to the trade.

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

Larger establislments in Great Britain


TABLE 8 (contd.)

| 1951 |  |  | 1948 |  |
| :---: | :---: | :---: | :---: | :---: |
| Quantity | Value | Entries | Quantity | Value |
| Th.cwts. | $\underbrace{\prime} 000$ | No. | Th. cwts. | \&'000 |
| ${ }^{72.6}$ | $\begin{aligned} & 2.037 \\ & 1,121 \end{aligned}$ | 50 | $\stackrel{42.7}{ }$ | ${ }_{1}^{1.213}$ |
| 50.4 | $\begin{aligned} & 1.617 \\ & 1,245 \end{aligned}$ | 67 |  |  |
| ${ }_{344.0}^{\text {Thous. }}$ |  |  | 43.0 | $\underset{2,144}{1.212}$ |
|  | 302 | 16 | Thous. |  |
| $\stackrel{471.7}{ }$ | 573 131 | \} 18 \{ | ${ }^{259}$ | ${ }_{2}^{264} 17$ |
| $\begin{gathered} \text { Th. cwts. } \\ 0.8 \end{gathered}$ | 36 321 | 7 | Th. cwts. <br> 3.6 | 64 |
| 10.0 | 426 318 | 44 \{ | 5.1 | 223 344 |
| 12.3 | 918 285 | 41 \{ | $\stackrel{3 .}{ } \cdot$ | ${ }_{637}^{162(d)}$ |
| 3.5 | ${ }_{782}^{184}$ | ${ }^{36}$ \{ | 1.8 | 71 668 |
| 9.0 | 311 186 | 25 | 10.2 | 396 93 |
| ${ }^{18.5}$ | ${ }_{448}^{901}$ | 44 | .. | 944 |
| 3.3 | 149 | 21 \{ | 1.5 | 55 23 |
| 13.3 | 427 91 | 36 \{ | 2.7 | $\begin{array}{r}99 \\ 354 \\ \hline\end{array}$ |
| 24.1 <br> .. | 587 65 | 30 \{ | 22.6 | 554 311 |
| 108.1 | 1.857 | $10\{$ | 63.0 | 740 (d) 675 |
| 10.0 | 170 120 | \} 21 \{ | 7.8 | 289 289 |
| 3.8 | 137 659 | \} 16 | .. | (e) |
| 96.4 | 2.765 ${ }_{94}$ | $\} 234$ \{ | 59.3 | 1.282 ${ }_{999}$ |
| 350.4 | 6,544 | 40 | 237.0 | 3.624 |
| 908.8 | 18. 207 | 496 | 784.8 | 10,289 |
| 56.0 | $\stackrel{2.124}{975}$ | \} 123 \{ | 47.3 | 1.143 1.606 |
| 12.3 | $\begin{array}{r} 339 \\ 1,332 \end{array}$ | $\} 104\{$ | 35.7 | 653 831 |
| 19.0 | 833 168 | 16 \{ | 14.8 | ${ }_{288}^{249(d)}$ |
|  | 153 | 40 |  | 365 |
|  | 236 | 60 |  | 186 |
|  | 73, 408 | ... |  | 57.407 |
|  | 14.680 | .. |  | 11.657 |
|  | 58.728 | 550 |  | 45,750 |



(d) So far as recorded separately
(e) Not recorded separately.
(f) Amount charged.
(88496/1)

Larger establishments in Great Britain

| Larger establishments in Great Britain |
| :--- |
| TABLE 9 |

Sales in the trade of other than principal products
Larger establishments in Great Britain
TABLE 10

|  | 1951 |  | 1948 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | value |
| Brass and other copper allays (including nickel silver but excluding other nickel alloys) | Th.cwts. | \&. 000 | Th.cwts. | \&.000 |
| Engineers ${ }^{\circ}$ and mechanicians ${ }^{\circ}$ goods (including fittings for water supply) |  |  |  |  |
| Industrial valves, other than for motor vehicles, and cocks, sold separately | 72.9 | $\underset{358}{2.162}$ | .. | (a) |
| Pressure gauges | .. | 36 | .. | 122 |
| Manu factures of other metals |  |  |  |  |
| Builders' and cabinet makers' goods | 8.8 | 181 | .. | 181 |
| Cocks and valves, other than for motor vehicles $\{$ | 5.8 | ${ }^{141}$ | .. | 597 |
| Sanitary, bathroom and other steam and water fittings | 108.3 | 573 41 | .. | 298 |
| Hardware, hollow-ware, metal furniture and sheet metal products | 585.4 .. | 205 205 | .. | 389 |
| Needles, pins and other metal smallwares | .. | 109 | .. | 291 |
| Metal manufactures, not elsewhere specified |  |  |  |  |
| Of $i$ ron and steel | 145.4 | 1.028 446 | .. | 842 |
| Of aluminium | 63.0 | 1.450 168 | .. | 1.099 |
| of copper | ${ }^{25.6}$ | 650 217 | .. | 354 |
| Of zinc | 10.9 | 283 28 | .. | 155 |
| of other metals and alloys | $\stackrel{14.5}{. .}$ | ${ }_{135}^{269}$ | .. | 1.123 |
| Machinery and parts | .. | 608 | .. | 299 |
| Electrical goods and apparatus | .. | 328 | .. | 121 |
| Parts and accessories of motor vehicles, motor cycles and cycles | .. | 186 | .. | 215 |
| Other goods | .. | 1.020 | . | 883 |
| Scrap metals |  |  |  |  |
| Brass | $\stackrel{442.6}{. .}$ | $\stackrel{3}{ }{ }_{252}^{501}$ | 446.1 | 1.645 |
| Other metals | $\stackrel{72.3}{. .}$ | 145 32 | .. | 196 |
| Work done (b) |  | 49 |  | 140 |
| Total |  | 14.893 |  | 8.948 |

(a) Not recorded separately, see footnote (a) to Table 8.
(b) Amount charged.

TABLE 11 - Production, exports and imports of certain principal products Particulars of exports and imports of the principal products of this trade are not
recorded separately in the oversea trade returns.

Usage of certain specified purchased materials, 1951 Larger establishments in Great Britain

| Materials used | Quantity |
| :---: | :---: |
|  | . 0 |
| Aluminium and aluminium alloys in all forms, except finished parts and scrap | 103.3 |
| Brass and other copper alloys (including nickel silver but excluding other nickel alloys) in all forms, except finished parts and scrap | 2. 206.6 |
| Copper in all forms, except finished parts and scrap | 211.1 |
| Zinc and zinc alloys in all forms, except finished parts and scrap | 64.6 |
| Iron castings in the rough | $\begin{gathered} \mathrm{Th} . \operatorname{tons} \\ 2.4 \end{gathered}$ |
| Steel plates and sheets | 4.5 |
| Iron and steel. not el sewhere specif fied, except finished parts and scrap | 13.5 |

Employment in September

table 13 (contd.)
(ii) Administrative, technical and clerical employees (d)

|  | Great Britain |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | 1948 | 1937 | 1935 |
| Males <br> Under 18 All ages | 116 4.027 | $\begin{array}{r} 123 \\ 4.492 \end{array}$ | $\begin{array}{r} 137 \\ 4.582 \end{array}$ | $\begin{array}{r} 210 \\ 4.246 \end{array}$ | 246 2.975 | 200 2.804 |
| Under 18 All ages | 215 2.842 | $\begin{array}{r} 457 \\ 3.133 \end{array}$ | $\begin{array}{r} 451 \\ 3.023 \end{array}$ | $\begin{array}{r} 485 \\ 2.855 \end{array}$ | $\begin{array}{r} 449 \\ 1.855 \end{array}$ | $\begin{array}{r} 362 \\ 1.730 \end{array}$ |
| Total <br> Under 18 <br> All ages | 531 $6.869(\mathrm{e})$ | $\begin{gathered} 580 \\ 7.625(\mathrm{e}) \end{gathered}$ | $\begin{gathered} 588 \\ 7.605(e) \end{gathered}$ | ${ }_{7.101(\mathrm{e})}^{695}$ | $\begin{array}{r} 695 \\ 4.830 \end{array}$ | $\begin{array}{r} 562 \\ 4.534 \end{array}$ |


(a) Excluded employes. The following persons were employed at the larger establishments in this trade in
1951 but are not included in the above tables or in any other Census of Production report (e.g..
employees engaged in merchanting):-
$\begin{array}{lllll}\begin{array}{l}\text { Canteen workers } \\ \text { Other workers }\end{array} & \begin{array}{c}31 \\ 118\end{array} & \begin{array}{l}\text { Males } \\ \text { Males }\end{array} & \begin{array}{l}364 \\ 107\end{array} & \begin{array}{c}\text { Females } \\ \text { Females }\end{array}\end{array}$
(b) In week ended September 22, 1951. September 30, 1950, and September 24, 1949
(c) Average for the year.
(d) In week ended September 22 . 1951, September 30, 1950. September 24, 1949. September 25, 1948 ,
(e) Working propitietors. In acd it ion working proprietors, shown in Table 13 (iv) below, were engaged in
this trade in larger establishments. The 1937 and ligs figures include working proprietors.

Average employment
LABLE 14
Larger establishments (a)
(a) For employment in small firms (employing on the average ton or fewer persons) that made satisfactory
(b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include
(b) In week ended September

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose

| numbers are shown below. |  |  |  |  |  |  |  | Great Britain |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | 1948 | 1937 | 1935 |  |  |  |  |  |  |  |
| Males | 18 | 12 | 15 | 6 | $\ldots$ | $\ldots$ |  |  |  |  |  |  |  |
| Females | 111 | 84 | 111 | 66 | $\ldots$ | $\ldots$ |  |  |  |  |  |  |  |
| Total | 129 | 96 | 126 | 72 | .. | .. |  |  |  |  |  |  |  |

Shift working, 1951 (a)
Larger establishments in Great Britain
table 15

| Total number of <br> man-shitht worked <br> in the week | Total number of <br> shift-hure worked <br> in the week | Number of <br> return showing <br> the systems stated |
| :---: | :---: | :---: |
| 981 | 8,108 | 3 |
|  | 9.783 | $45,-309$ |

(a) Shift working during week ended September 22, 1951 .

|  | Returns |  | Operatives |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\substack{\text { Total } \\ \text { trade }}}{\text { in }}$ | $\underset{\text { Shift-work }}{\text { Showing }}$ | Total in trade | Total on showing <br> shift-work | $\begin{aligned} & \text { Number } \\ & \text { employed } \\ & \text { on shift } \end{aligned}$ |
| Number <br> Percentage of total in trade ercentage of total on returns showing shift-work | $\begin{array}{r} 550 \\ 100.0 \end{array}$ | 16 2.9 | 39.027 100.0 | $\begin{array}{r} 5.459 \\ 14.0 \\ 100.0 \end{array}$ | $\begin{array}{r} 1.153 \\ 2.9 \\ 21.1 \end{array}$ |

Wages and salaries and employers' National Insurance contributions paid during the yea

Larger establishment

|  | Great Britain |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1951 | 1950 | 1949 | 1948 |
| Wages and salaries (a) of |  |  |  |  |
| Operatives <br> Administrative, technical and | 12,642 | 12.720 | 12.412 |  |
| clerical employees | 3.666 | 3.828 | 3,573 | 3.333 |
| Total | 16,308 | 16,548 | 15.985 | 15,685 |
| Employers, contributions to all National Insurance Schemes | 438 | 477 | 479 |  |

(a) Including bonus and commission payments, but excluding payments to outworke shom belo

| Great Britain |  |  |  |
| :---: | :---: | :---: | :---: |
| 1951 | 1950 | 1949 | 1948 |
| 9 | 8 | 9 | 6 |

Plant, machinery and vehicles - acquisitions and disposals and capital expenditure on new building work Larger establishments


|  | England | Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: | :---: |
|  | £.000 | £.000 | £.000 | £ 000 |
| Gross output (production) | 67.820 | 1.179 | 6.294 | 75.293 |
| Cost of materials and fuel used <br> Payment for work done on materials given our | $\begin{aligned} & 36.886 \\ & \hline 72 \end{aligned}$ | 896 7 6 | $\begin{array}{r} 3.678 \\ 20 \\ 67 \end{array}$ | $\begin{array}{r} 41.460 \\ 800 \\ 500 \end{array}$ |
| ( Net output $\begin{aligned} & \text { Wages and salaries of persons employed }\end{aligned}$ | ${ }_{14.663}^{29.68}$ | 270 129 | 2.529 1.516 | $\begin{aligned} & 32.487 \\ & 16.308 \end{aligned}$ |
|  | No. | No. | No. | No. |
| Average number of persons employed (a) | 41.432 | 355 | 4.105 | 45, 892 |
|  | $\varepsilon$ | \& | $\varepsilon$ | $\varepsilon$ |
| Net output per person employed (a) | 717 | 761 | 616 | 708 |
|  | £. 000 | £. 000 | £. 000 | £ 000 |
| Stocks at end of year |  |  |  |  |
| Products on hand for sale and work in progress | 5.853 | 51 | 754 | ${ }^{6.658}$ |
| Materials and fuel | 5.950 | 115 | 830 | 6.895 |
|  | No. | No. | No. | No. |
| Number of establishments | 525 | 5 | 48 | 578 |

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

|  | ع:000 | ¢ 000 | £.000 | £.000 |
| :---: | :---: | :---: | :---: | :---: |
| Output of firms in this trade |  |  |  |  |
| Total value of sales (see Table 20) | 66.322 | 1.163 | 6.136 | ${ }^{73.621}$ |
| progress (see Table 21) | + 1.498 | 16 | + 158 | + 1.672 |
| Gross output (production) | 67.820 | 1.179 | 6.294 | 75.293 |
| Materials and fuel used by firms in this trade |  |  |  |  |
| Purchases Changes in stocks (see Table | $\begin{array}{r} 38,871 \\ -1.986 \end{array}$ | $\begin{array}{r}940 \\ -\quad 44 \\ \hline\end{array}$ | 3.887 -209 | 43.699 -2.239 |
| Materials and fuel used | 36,886 | 896 | 3.678 | 41.460 |

(a) Excluding outworkers but including working proprietors.

| Small firms (a) |
| :--- |
| Surmary <br> TABLE 19 |

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns
(b) Including working proprietors.
(88496/1)


\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} \& \multicolumn{2}{|l|}{England and Wales} \& \multicolumn{2}{|c|}{Scotland} \& \multicolumn{2}{|l|}{Great Britain} \\
\hline \& Quantity \& Value \& Quantity \& Value \& Quantity \& value \\
\hline \multirow[t]{5}{*}{\begin{tabular}{l}
Principal products (contd.) \\
Waste products other than scrap metals Work done for the trade or on commission (b) Repair work (b) \\
Total principal products
\end{tabular}} \& Th. Cwts . \& \(\varepsilon^{\prime} 000\) \& Th.cwts. \& \(\varepsilon^{\prime} 000\) \& Th.cwts. \& ¢.000 \\
\hline \& .. \& 77 \& - \& - \& .. \& 77 \\
\hline \& \& (a) \& \& (a) \& \& 144 \\
\hline \& \& 188 \& \& 46 \& \& 233 \\
\hline \& \& 53,958 \& \& 4.769 \& \& 58.728 \\
\hline \multicolumn{7}{|l|}{Other output} \\
\hline \multicolumn{7}{|l|}{Brass and other copper alloys (including nickel silver but excluding other nickel alloys)} \\
\hline \multicolumn{7}{|l|}{Engineers and mechanicians goods (including fittings for water supply)} \\
\hline Industrial valves. other than for motor vehicles, and cocks, sold separately \& 71.3 \& 2.104
349 \& 1.6 \& \({ }_{9}^{58}\) \& 72.9 \& 2.162
358 \\
\hline Pressure gauges \& \& (a) \& . \& (a) \& .. \& 36 \\
\hline \multicolumn{7}{|l|}{Manu factures of other metals} \\
\hline Builders' and cabinet makers' goods \& 8.8 \& 181 \& - \& - \& 8.8 \& 181 \\
\hline Cocks and valves, other than for motor vehicles \& \& (a) \& .. \& (a) \& \(\stackrel{5.8}{ }\) \& \({ }^{141}\) \\
\hline Sanitary, bathroom and other steam and water fittings \& 17.4 \& 156 \& 91.0 \& \({ }_{41}^{416}\) \& 108.3 \& 573
41 \\
\hline Hardware, hollow-ware, metal furniture and sheet metal products \& .. \& (a) \& .. \& (a) \& 585.4
. \& \({ }_{285}^{205}\) \\
\hline Needies, pins and other metal smallwares \& \multicolumn{6}{|l|}{} \\
\hline Metal manu factures, not elsewhere specified
Of iron and steel \& 139.4 \& \({ }_{410}^{972}\) \& 5.9 \& \({ }_{36}^{57}\) \& 145.4 \& 1.028
446 \\
\hline Of aluminium \& \(\stackrel{57.6}{ }\) \& 1,335
164 \& 5.4 \& 115 \& 63.0 \& 1.450
168 \\
\hline Of copper \& 21.6 \& 523
110 \& 4.0 \& 126
107 \& 25.6 \& 650
217 \\
\hline of zinc \& .. \& (a) \& .. \& (a) \& 10.9 \& 283
28 \\
\hline Of other metals and alloys \& 14.5 \& 269
135 \& - \& - \& 14.5 \& 269
135 \\
\hline Machinery and parts \& .. \& 579 \& .. \& 29 \& .. \& 608 \\
\hline Electrical goods and apparatus \& .. \& (a) \& .. \& (a) \& .. \& 328 \\
\hline Parts and accessories of motor vehicles, motor cycles and cycles \& .. \& (a) \& . \& (a) \& .. \& 186 \\
\hline Other goods \& .. \& 975 \& .. \& 44 \& .. \& 1.020 \\
\hline Scrap metals \& \& \& \& \& \& \\
\hline Brass \& \({ }^{409.0}\) \& 3.267

250 \& $\stackrel{33.6}{.}$ \& 233
2 \& 442.6 \& 3. ${ }^{501}$ <br>
\hline Other metals \& ${ }^{66.7}$ \& 123
27 \& 5.. \& 21
5 \& 72.3 \& 145
32 <br>
\hline Work done (b) \& \& 37 \& \& 12 \& \& 49 <br>
\hline Total \& \& 67.485 \& \& 6.136 \& \& 73.621 <br>
\hline
\end{tabular}

[^0]Stocks of products on hand for sale and work in progress and stocks of materials and fuel Larger establishments
TABLE 21

|  |  | England and Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: | :---: |
| Products on hand for sale | $\left\{\begin{array}{l} \text { at beginning of year } \\ \text { at end of year } \end{array}\right.$ | 1.751 2.269 | ${ }_{303}^{234}$ | ${ }_{2}^{1.985}$ |
| Work in progress | $\left\{\begin{array}{l}\text { at beginning of year } \\ \text { at end of year }\end{array}\right.$ | $\begin{aligned} & 2.638 \\ & 3.634 \end{aligned}$ | $\begin{aligned} & 366 \\ & 452 \end{aligned}$ | $\begin{aligned} & 3.000 \\ & 4.087 \end{aligned}$ |
| Total products on hand for sale and work in progress | $\left\{\begin{array}{l} \text { at beginning of year } \\ \text { at end of year } \end{array}\right.$ | $\begin{aligned} & 4.389 \\ & 5.903 \end{aligned}$ | $\begin{aligned} & 596 \\ & 754 \end{aligned}$ | $\begin{aligned} & 4.985 \\ & 6.658 \end{aligned}$ |
| Materials and fuel | $\left\{\begin{array}{l}\text { at beginning of year } \\ \text { at end of year }\end{array}\right.$ | $\begin{aligned} & 4.035 \\ & 6.065 \end{aligned}$ | $\begin{aligned} & 620 \\ & 830 \end{aligned}$ | $\begin{aligned} & 4.656 \\ & 6.895 \end{aligned}$ |



TABLE 22 (contd.)
(iii) Total employees

|  | England and Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: |
| Males |  |  |  |
| Under 18 All ages | 1.528 26.314 | 166 3.167 | 1.694 29.481 |
| Females |  |  |  |
| ( $\begin{gathered}\text { Under } 18 \\ \text { All ages }\end{gathered}$ | 1.073 15.478 | 990 | $\begin{array}{r} 1.163 \\ 16.415 \end{array}$ |
| Total |  |  |  |
| Under 18 All ages (c) | 2.601 41.792 | 256 4.104 | 2.857 45.896 |

(a) Excluded employes. The number of persons employed at the larger establishments in this trade but not
(b) Number employed in the week ended September 22, 1951.
(c) Working proprietors.
trade in larger establishments.

| (iv) Working proprietors |  |  | Number |
| :---: | :---: | :---: | :---: |
|  | England and Wales | Scotland | Great Dritain |
| Males remales | ${ }_{3}^{97}$ | 11 | 108 5 |
| Total | 100 | 13 | 113 |
| (v) Fxcluded employees |  |  | Number |
|  | England and Wales | Scotland | Great Britain |
| $\begin{aligned} & \text { Camten workers } \\ & \text { Males } \\ & \text { Females } \end{aligned}$ | $\begin{array}{r} 31 \\ 334 \\ \hline \end{array}$ | 30 | $\begin{array}{r} 31 \\ 364 \\ \hline \end{array}$ |
| Total | 365 | 30 | 395 |
| Other workers <br> Males Females | $\begin{aligned} & 507 \\ & 102 \end{aligned}$ | $\begin{array}{r} 11 \\ 5 \end{array}$ | $\begin{aligned} & 118 \\ & 107 \\ & \hline \end{aligned}$ |
| Total | 209 | 16 | 225 |
| Total excluded employees | 574 | 46 | 620 |

Average employment


Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose
numbers are shown below.


[^1]Wages and salaries and employers' National Insurance contributions paid during the year Larger establishments

|  | England and Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: |
| Wages and salaries (a) of |  |  |  |
| Operatives <br> Administrative, technical and clerical | 11. 432 | 1.210 | 12.642 |
| employees | 3.360 | 306 | 3.666 |
| Total | 14,792 | 1.516 | 16,308 |
| Employers' contributions to all National Insurance Schemes | 397 | 40 | 438 |

Employers'
Insurance Scheremes
(a) Including bonus and commission payments, but excluding payments to outworkers shown below.

|  <br> England and Wales <br> 9 Scotland | Great Britain |  |
| :---: | :---: | :---: |
|  | - | 9 |

Plant, machinery and vehicles - acquisitions and disposals,
and capital expenditure on new building work
Larger establishments

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| England and Wales | Scotland | Great Britain |  |  |
|  |  |  |  |  |
|  | 874 | 50 |  |  |
| 70 | 9 | 924 |  |  |
| 195 | 7 | 79 |  |  |
| 102 | 6 | 202 |  |  |
| 1.241 | 72 | 109 |  |  |
| 45 | 3 | 1.314 |  |  |
| 79 | 5 | 48 |  |  |
| 124 | 8 | 84 |  |  |
|  |  | 132 |  |  |
|  |  |  |  |  |
|  | 29 |  |  |  |

Payments for transport services for finished goods
sold and materials and fuel purchased

| Larger establishments |  |  |  |
| :---: | :---: | :---: | :---: |
|  | England and Wales | Scotland | Great Britain |
| nts paid to other firms and under takin | 454 | 65 | 519 |
| separate transport organisations | 26 | 2 | 28 |
| Total | 480 | 67 | 547 |



 minor differences. in the Nor for particulars of treland censuse
and other details about the census of production.
and Trade classification: Establishments are classified to
trades according to the nature of their products, called principal products, are identified as characteristic of the production of individual trades.
the principal products for a diven trade being
 principal products of that trade accounted for a grea-
ter proportion of the value of its output than did ats
output of princi pal products of any other trade. output of principal products of any other trade.
The establishment: The basic unit for the collection
of information is innerally the The establishment: The basic unit for the collection
of information is generally the estabbinshment which
in most cases comprises the whole of the premises in most cases comprises the whole of the premises
under the same omnership or management at a particular address he.g. a factory) office. ware-
houses and ther anciliary places of business sithouses and ther ancillary places of business sit-
nated apart from the producing works are included
in the return for the works. Larger establi for the works.
Larger establishments and small firms: Larger estab-
1ishments are those which employed more than 10 persons on the average during the year: small firms
are those employing on the average 10 or femer persons. Working propietors are proprietors of businesses
Other than limited companies. and include members therr families who work in the business withou receiving fixed wages or salaries. Any persons work,
ing less than half the normal hours are excluded. Persons employed: Administrative employees include directors other than those paid by fee only, managers,
superintendents and works foremen, research, experi-
mental. development.
technical and and design employees.
 and
employes. Operatives include oll other classes of
employees. workers.
All these figures exclude canten employees and
persons engaged in merchanting or any other activity
not oovered by act persons engaged in merchanting or any other activity
not covered by of cirm return who are shown separa-
tely as excluded femployees. Figures for employees include only persons o
the pay-roll (that is whose National Insurance the pay-ril (that is whose National Insurance cards
were held by the firm), whether full-time or part-
time employees. ime employees
employ dod the firm who work oparately, are persons
by the firm, but do notials supplied by the firm, but do not work on the premises; spplied
tives directly employed who work out of soors Mant denactiy employed who work out of dors le.g. and sub-contractors are not
included as outworkers. Wages and salaries inclu
Wages and salaries include all overtime payments
bonuses, and commissions. wi thout any deduction fo
incone income tax. insurance. contribut any deduction fors pensions. etc
They exclude payments to working proprietors. Capital expenditure: Expenditure on plant, machiner api val expenditure: Expenditure on plant, machinery
and oexpenditure charged to capital
account during the yeor of toturn, including tran count during the year of return, including tran
sport and instollation costs involved. Expenditure on new buidling work is sinilarly that charged to
capital account during the year. Naterials and fuel: The cost of material chased includes ali purchases of materials and fuel pur-
ials for use in production and of fuel year of materials for use in production and of fuel (incluluing oil
gas. and electricity for all purposes. including heat
ing and lithet inc. and electricity for all purposes, including heat
ing all packing materinals, including
the full cost of returnable containers when fir he full cost of returnable oonteriners. When first
urchased; workshop materials: office materials: water
und charges: material mar fepars to firms rials; water
ings. plant and vehicles when carried out by
their own work people included in the return; and
consumable tools and parts for machinery purchased as Consumale tools and parts for machinery purchased as
replocement Materials. Components. etc. Which were.
purchased and re-sold in the same state (that is.
 merchanted or factored goods) were excluded. For
1951 firms in many trades were required to stote
the quantitios of certain purchased materials used the quantitios of certain purchased materials used. Stocks and work in progress: Firms were instructed
to give these at income tax value. Output: Sales means sales during
 made on commision for it, whered by the protuced in or the
Year or not. For al post wath censuses the value
of sales was the net sost war

 on delivered basis to cust tomers overseas. firms
were required to give the foob. value. Gross output of a trade is the total value. of goods
made and other work done during the yeari this
mis means the other work done during the yerr, this sas and work done during the
year adjusted for changes in the values of stocks. Net output is the amount left after deducting from the value of gross output the aggregate of the cost of
materials and fuel used and the amount paid for work
 included in firms. returns. This represents the
value added to materials by the process of proviction,
and constitutes the fund from which wages salution and constitutes the fund from which wages. salaries.
rents. rates and taxes. advertising and other selling
exper rents. rates and taxes, advertising and other selling
expenses and allothor similar charges have to be
met as well as depreciation and profite met as well as depreciation and profits.
Customs and Excise Duty paid on materials purchased
is included in the cost of materials. but where it
is eseciall is especially important separate figures are shown. Later reports: Reports will be published later
summarising the main census results and giving sumarising the main census results and giving in
formation about power equipment and fuel consumption. Disclosure of information: The report has been pre-
pared in conformi ty with the disclossure provisions
of the Statisticis.
 been combined with others of a similar nature in
certain cases where publication of separate details
might disclose the operations of an individual firm. Symbols used: $\because$... for Not available . . - for Nil or neg than half the final digit shown)
 apparentsight aiscrepancy between the sums of the
constituent items and the totals shown. Tables 1 to 17 show figures for the United Kingd Tables 18 to 26 are country tables and give, wher Scotland and Northern Ireland. Sland and Wales Table 6: Specialist producers re ishments 50 per cent. or more of whose total output
by value is accounted for by the wit by value is
specified.
Table 8 (or
Table 8 (or $8(\mathrm{i})$ ) shows the total sales of principal
products of the trade. and includes sales of these products and returned by establishments
whether whether classified to the trade or to other trades.
Those produced by establishments in other trades
are shown in Table 9 . are shown in Table 9 .
Table 10 shows the sales by establishments in the
trade of products other than those regarded as
rincion products the Trade of products other than tho
principal products of the trade.
Table 20 (or $20(\mathrm{i})$ ) shows sales by establishments in the trade of products, whether principal products or


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[^0]:    (a) Oring to the ri
    be given.
    b) Amount charged.

[^1]:    (a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory

