



BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 3

Trade F

Wrought Iron and Steel Tubes

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

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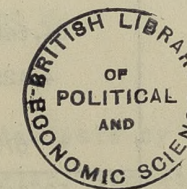
* Not applicable to this trade

WROUGHT IRON AND STEEL TUBES TRADE

THIS REPORT on the Wrought Iron and Steel Tubes Trade relates to establishments engaged wholly or mainly in the manufacture of tubes (including fittings) for boilers, cycles, bedsteads, etc., metal conduits, gas cylinders and pressure vessels. Melting and rolling in integrated works and the manufacture of flexible tubes are included.

This trade corresponds to minimum list heading 44 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.



METAL MANUFACTURE
WROUGHT IRON AND STEEL TUBES TRADE
Summary
Larger establishments

TABLE 1

	1948	1937	1935
Gross output (production)	£'000 58,252	£'000 22,515	£'000 16,318
Cost of materials and fuel used	35,532	12,192	9,467
Payment for work done on materials given out	448	111	92
Net output	22,271	10,212	6,759
Wages and salaries of persons employed	12,789	..	..
Average number of persons employed (a) (b)	No. 37,775	No. 31,483	No. 27,645
Net output per person employed (b)	£ 590	£ 324	£ 244
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	5,275	..	..
Materials and fuel	6,215	..	..
Number of establishments	No. 128	No. ..	No. 91

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

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	£'000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	54,548	21,457	15,552
Other output (see Table 10)	4,425	1,058	766
Adjustment for changes in stocks and work in progress (see Table 14)	+ 670	..	..
Less payment for transport by other firms	59,643	22,515	16,318
Gross output (production)	1,391		
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	36,564	12,192	9,467
Adjustment for changes in stocks (see Table 14)	-1,032		
Materials and fuel used	35,532	12,192	9,467

WROUGHT IRON AND STEEL TUBES
Summary, 1948
Small firms in Great Britain

TABLE 2

Number of returns	28
Average number of persons employed (a)	
Males	147
Females	29
Total	176

(a) Including working proprietors.

Estimated average employment, 1948
All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	37,775
Employing on average ten persons or less (b)	176
	37,951
Estimated average employment in firms not making satisfactory returns	45
Estimated average employment in all firms	37,996

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

Analysis by size, 1948
Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
11-24	No. 16	£'000 379	£'000 162	No. 281	£'000 64	£'000 33	£'000 97	£ 576
25-49	28	1,363	571	985	236	65	301	580
50-99	28	2,281	1,115	1,951	454	118	572	572
100-199	18	2,879	1,491	2,499	620	167	787	596
200 and over	38	51,350	18,932	32,059	8,673	2,360	11,033	591
Total	128	58,252	22,271	37,775	10,047	2,743	12,789	590

Analysis by standard region, 1948
Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross Output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
Scotland								
England								
Northern; East and West Ridings of Yorkshire; and North Western	24	10,324	3,782	17.0	6,919	1,788	499	2,286
North Midland; and Eastern	9	13,714	4,046	18.2	5,803	1,567	567	2,134
Midland	78	29,528	12,497	56.1	21,731	5,790	1,378	7,168
London and South Eastern; Southern; and South Western	19	4,687	1,947	8.7	3,322	902	298	1,201
Wales								
Great Britain	128	58,252	22,271	100.0	37,775	10,047	2,743	12,789

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

No particulars of total make of wrought tubes were recorded.

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

TABLE 8

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Wrought tubes							
Not exceeding 6 inches internal diameter, other than electric conduit, cased and close joint tubes							
Welded	331.7	12,618	21	344.4	6,447	318.9	4,747
Weldless							
Cold drawn	118.1	12,577	21	77.6	4,663	61.4	3,472
Other descriptions	213.0	9,764	19	181.4	3,791	129.6	2,718
Over 6 inches internal diameter							
Welded	46.8	2,055	7	65.2	1,477	53.8	1,096
Weldless	123.4	5,187	10	84.9	1,769	72.4	1,422
Cased tubes (including copper-clad and copper-lined steel tubes)	..	39	..	0.6	45	0.7	46
Electric conduit tubes	43.1	2,460	18	44.2	1,044	28.6	572
Close joint tubes, other than electric conduit tubes	7.9	324	9	4.9	105	..	108
Unclassified	..	59	..	..	..	..	66
Total wrought tubes	884.0	44,985	..	803.2	19,341	669.7	14,139
Wrought fittings for wrought tubes	21.8	2,531	62	24.2	1,468	17.2	861 (a)
Purchased tubes, screwed, bent or otherwise fabricated	..	674	..	..	..	..	265
Flexible metallic tubing	57.0	4,038 (b)	85	20.7	680	10.1	333
Gas containers (cylinders, bottles, etc.)	..	1,689 (b)	..	..	189	..	130
Work done for the trade or on commission	1.2	297	11	2.4	275	2.0	169
Total	..	230	..	..	39	..	54
Total	7.2	899	..	3.8	329	4.7	333
Less sales (or production) in other trades (see Table 9)	..	340 (c)	30	..	(d)	..	(d)
Total principal products of this trade sold or made by establishments in the trade	..	55,912	..	..	22,321	..	16,392
Less sales (or production) in other trades (see Table 9)	..	1,364	..	..	864	..	840
Total	..	54,548	113	..	21,457	..	15,552

- (a) This amount may include a small output of malleable cast fittings and electric conduit tubes.
(b) So far as recorded separately.
(c) Amount charged.
(d) Not recorded separately.

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

Larger establishments

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Wrought tubes							
Not exceeding 6 inches internal diameter, other than electric conduit, cased and close joint tubes							
Weldless (a)							
Cold drawn	-	-	-	0.7	84	0.5	64
Other descriptions	-	-	-	1.3	23	0.9	12
Over 6 inches internal diameter							
Welded	-	-	-	26.1	588(b)	16.2	332
Weldless (a)	-	-	-	0.2	21	0.1	20
Cased tubes (including copper-clad and copper- lined steel tubes)	-	-	-	0.2	17	0.3	18
Electric conduit tubes				0.1	4	..	17
Other welded tubes not exceeding 6 inches internal diameter	7.8	393	..	..	(b)	4.9	76
Close joint tubes, other than electric conduit tubes				-	-	0.6	13
Unclassified	..	130	9	-	-	-	-
Total wrought tubes	7.8	393	..	28.6	737	23.5	535
	..	130	..	..	..	..	17
Wrought fittings for wrought tubes	2.6	313	16	0.7	38	..	205
	..	111	..	..	..	..	..
Purchased tubes, screwed, bent or otherwise fabricated	1.5	89	14	1.4	89	1.8	83
	..	46	..	..	..	..	..
Flexible metallic tubing	1.1	266	..	-	-	-	-
	..	17	..	..	..	..	..
Total		1,364	..		864		840

(a) Including gas containers.

(b) The figures shown for welded tubes over 6 inches internal diameter include those under 6 inches.

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

Larger establishments

TABLE 10

	1948 Sales	1937 Production	1935 Production
	Value	Value	Value
	£'000	£'000	£'000
Iron and steel			
Sections and channels	91	171	129
Malleable cast fittings for wrought tubes	1,006	34	25
Other castings	169	329	241
Other goods	1,582		
Waste products sold			
Iron and steel scrap	659 (Tons) (197,600)	395 (Tons) (135,600)	290 (Tons) (130,600)
Other waste and by-products	198	40	31
Iron and steel structural work	677(a)	89(a)	50(a)
Other work done	42(a)		
Total	4,425	1,058	766

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

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control	8,832	15.6
Sales to independent buyers		
Exports invoiced directly overseas	4,667	8.2
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	7,755	13.7
His Majesty's Government and Local Authorities (other than productive establishments)	2,705	4.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	26,107	46.0
Wholesalers, merchants and other agents for resale	6,285 (a)	11.1
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	32	0.1
Other businesses (including farmers) and institutions of all kinds	82	0.1
Members of the public, including employees	3	-
Unclassified	243	0.4
Total sales to independent buyers	47,860	84.4
Total	56,712	100.0

(a) Of this total £5,453,000 was recorded as divided between £1,169,000 for export and £4,285,000 for other sales.

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

TABLE 12

	Production (b) (c)	Exports	Retained imports
	Th. tons	Th. tons	Th. tons
Wrought tubes			
Not exceeding 6 inches internal diameter, other than electric conduit and cased tubes			
Welded	{ 1948 331.7 1937 344.4	73.8 104.1	0.1 0.4
Weldless			
Cold drawn	{ 1948 118.1 1937 77.6	28.7 10.2	2.9 0.8
Other descriptions, including close joint tubes	{ 1948 222.5(d) 1937 186.3	66.5 68.4	8.4 32.1
Over 6 inches internal diameter			
Welded	{ 1948 46.8 1937 65.2	22.8 17.1	0.1 0.1
Weldless	{ 1948 123.4 1937 84.9	90.3 51.7	0.8 3.0
Electric conduit tubes	{ 1948 43.1 1937 44.2	2.0 7.3	.. -
Cased tubes (including copper-clad and copper-lined steel tubes)	{ 1948 .. 1937 0.6	0.1 0.2	0.3 0.3
Wrought fittings for wrought tubes	{ 1948 27.5(d) 1937 24.2	8.8 6.5	0.1 2.2
Gas containers (cylinders, bottles, etc.)	{ 1948 7.2 1937 3.8	4.7 0.6	1.5 0.8

- (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.
- (c) Including sales (or production) by establishments classified to other trades, except, for 1948, the sales of unclassified wrought tubes valued at £120,000.
- (d) Partly estimated.

(b) Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Ingots						
Of alloy steel	6.6	131	168.5	1,264	146.5	1,086
Of non-alloy steel	160.2	2,322				
Blooms, billets and slabs, including tube squares						
Of alloy steel	16.2	585	250.5	2,341	182.6	1,607
Of non-alloy steel	213.8	4,655				
Steel bars and rods, including tube rounds	112.7	2,481				
Hoop and strip of iron or steel	429.6	8,715	459.7	3,858	395.6	3,127
Tube hollows or tube shells	81.4	3,601	39.1	785	32.4	598
Zinc (spelter)	10.3	785	11.1	284	..	(a)
Tubes purchased for further fabrication	128.1	4,023				
Fittings for wrought tubes	14.8	1,576				
Consumable tools bought as replacement	..	686	..	2,847	..	2,441(b)
Replacement parts for firms' machinery	..	617				
All other purchased materials	..	4,004				
Unclassified materials	..	230	-	-	-	-
Fuel and electricity						
Coal	242.4	679	301.5	277	302.1	238
Coke	30.7	120	..	(a)	33.1	43
Electricity purchased and electricity obtained from other works under the same ownership (c)	295,027	667	123,719	278	98,160	235

TABLE 13 (Contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. galls.	£'000	Th. galls.	£'000	Th. galls.	£'000
Fuel and electricity (Contd.)						
Motor spirit (petrol) and derv. fuel						
Used for road vehicles	258	25	..	(a)	..	(a)
Used for other power purposes	34	3				
Other oil fuel (including creosote/pitch mixtures)	5,656	201	5,635	101(d)	5,459	92(d)
Gas purchased and gas obtained from other works under the same ownership	Th. therms					
	23,705	423	..	177	..	(a)
All other purchased fuel	..	34				
Total		36,564		12,192		9,467

(a) Not recorded separately.

(b) Including fuel not specified separately.

(c) The total quantity of electricity consumed in 1948 was 299,280,000 B.T. units including 4,253,000 generated in the same works.

(d) Described as "Heavy fuel oil."

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

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Finished products				
Wrought tubes, other than cased and close joint tubes (except electric conduit tubes), and fittings for wrought tubes	39.2	1,253	43.7	1,415
Other finished products	..	412	..	490
Work in progress	..	2,940	..	3,370
Total finished products and work in progress		4,606		5,275
Materials and fuel				
Steel ingots, blooms, billets and slabs (including tube squares), and hoop and strip of iron or steel	110.3	1,926	104.4	1,990
Other descriptions	..	3,257	..	4,225
Total materials and fuel		5,184		6,215

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	1,066	2,636	2,223	253	341	197	1,319	2,977	2,420
All ages	27,503	25,871	22,813	4,566	3,025	2,661	32,069	28,896	25,474
Females									
Under 18	226	481	354	356	269	202	582	750	556
All ages	3,496	1,433	1,136	2,203	1,154	1,035	5,699	2,587	2,171
Total									
Under 18	1,292	3,117	2,577	609	610	399	1,901	3,727	2,976
All ages	30,999	27,304	23,949	6,769 (c)	4,179	3,696	37,768 (c) (d) (e)	31,483	27,645
Total remuneration	£1000			£1000			£1000		
	10,047	..	..	2,743	..	..	12,789	..	..

(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	17 males	364 females
Other workers	131 males	127 females

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

(c) There were, in addition, 7 male working proprietors 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 £287,000.

(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	88	
Maintenance and repair of firms' buildings, but not plant	403	
Research work not directly connected with current production however charged	(*)	112

(*) Negligible.

In addition to the employees in the above table the firms in this trade employed 5 male and 9 female outworkers in 1948, the amount paid to them being £1,000. Similar information is not available for 1937 and 1935.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year						
		Amount paid	Percentage of annual remuneration paid in					
			First quarter	Second quarter	Third quarter	Fourth quarter	Year	
Wages and salaries of	£'000	£'000						
Operatives	10,047	4,830	24.2	25.2	24.2	26.4	100.0	
Administrative, technical and clerical employees	2,743	1,416	24.9	24.8	24.9	25.4	100.0	
Total	12,789	6,246	24.4	25.1	24.4	26.2	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 £448,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
Repairs and maintenance	£'000
Of buildings	319
Of plant, machinery and vehicles	458
Hire of plant, machinery and vehicles	74
Advertising and market research	
Advertising in newspapers, magazines and periodicals	38
Other advertising services (poster display, despatch of circulars, etc.) and market research	24
Unclassified	16
Payments made for research work	
To research associations	1
To universities, institutions, academic bodies and similar agencies	-
To other commercial concerns	17
Postage, telephone, telegrams and cables	87
Commercial insurance premiums	119
Rates (excluding water rates) payable in the year	49

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

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	2,176	133	82
Vehicles	56	13	14
Total	2,232	146	96

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

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		382
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	15	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	100	
(11) Leasehold buildings and land newly occupied in the year	70	
Total of heading 2		185
Total of headings 1 and 2		567
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	7	
(11) Estimated value of other properties relinquished	37	
Total of heading 3		44
4. Headings 1 and 2 less heading 3		523

- (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.

1948

Note - Owing to the risk of disclosure of information relating to individual firms separate particulars for larger establishments in England, Wales and Scotland cannot be given.

TABLE 21 - Summary: Larger establishments

See Table 1.

Summary

Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	26	2	-	28
Average number of persons employed (a)				
Males	139	8	-	147
Females	28	1	-	29
Total	167	9	-	176

(a) Including working proprietors.

Sales in the trade
Larger establishments

TABLE 23

	Great Britain	
	Quantity	Value
	Th. tons	£'000
Principal products		
Wrought tubes		
Not exceeding 6 inches internal diameter, other than electric conduit, cased and close joint tubes		
Weldless		
Cold drawn	118.1	12,577
Other descriptions	213.0	9,784
Over 6 inches internal diameter		
Welded	46.8	2,055
Weldless	123.4	5,187
Cased tubes (including copper-clad and copper-lined steel tubes)	..	39
Electric conduit tubes, other welded tubes not exceeding 6 inches internal diameter and close joint tubes	375.0	15,009
	..	59
Total wrought tubes	876.2	44,592
	..	99
Wrought fittings for wrought tubes	19.2	2,218
	..	563
Purchased tubes, screwed, bent or otherwise fabricated (a)	55.4	3,949
	..	1,643
Flexible metallic tubing	0.1	32
	..	213
Gas containers (cylinders, bottles, etc.)	7.2	899
Work done for the trade or on commission		340 (b)
Total principal products		54,548
Other output		
Iron and steel		
Sections and channels	..	91
Malleable cast fittings for wrought tubes	..	1,006
Other castings	..	169
Other goods	..	1,582
Waste products sold		
Iron and steel scrap	197.6	659
Other waste and by-products	..	198
Iron and steel structural work	..	677 (b)
Other work done	..	42 (b)
Total		58,973

(a) So far as recorded separately.

(b) Amount charged.

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TABLE 24 - Purchased materials and fuel: Larger establishments

See Table 13.

TABLE 25 - Employment and remuneration: Larger establishments

See Table 15.

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

TABLE 26

Month	Monthly index (a)	Month	Monthly index (a)
	Great Britain		Great Britain
1948		1948	
January	97.2	August	99.8
February	98.1	September	100.4
March	98.9	October	102.0
April	99.0	November	102.4
May	99.2	December	102.0
June	101.2	Percentage employ- ment in this trade covered by the index	47.0
July	99.8		

(a) The index numbers are calculated from the number of operatives employed for one week in each month returned by larger establishments that made returns for the calendar year 1948.

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