



BOARD OF TRADE

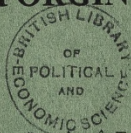
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FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 5

Trade C

CHAIN, NAIL, SCREW AND MISCELLANEOUS
FORGINGS



*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).*

LONDON : HER MAJESTY'S STATIONERY OFFICE

1952

Price 3s 6d net

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

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* Not applicable to this trade

CHAIN, NAIL, SCREW AND MISCELLANEOUS FORGINGS TRADE

THIS REPORT on the Chain, Nail, Screw and Miscellaneous Forgings Trade relates to establishments engaged wholly or mainly in the manufacture of bolts, nuts, screws, rivets, nails, etc. (other than wire rivets and nails), laminated and other springs (including clock and watch springs), anchors and chains (other than transmission chains), steel drop forgings and miscellaneous iron forgings.

Miscellaneous steel forgings other than drop forgings which were included in the preliminary report for this trade, are in the final report on the Iron and Steel (Melting and Rolling) Trade for 1948. For 1937 and 1935 these forgings were not distinguished separately from steel drop forgings and it has not therefore been possible to classify the establishments in those years on the same basis as that for 1948; for the earlier years particulars relating to all miscellaneous steel forgings have been included in this report. Establishments classified for 1948 to the Iron and Steel (Melting and Rolling) Trade instead of to this trade, because of their output of forgings other than drop forgings, employed on average 4,305 persons during that year and accounted for a total net output of £2,724,000.

This trade corresponds to minimum list headings 91, 92 and 99(4) in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948. Owing to the risk of disclosure of information relating to individual firms separate particulars of the very small output in Northern Ireland in this trade were not published for 1935.

METAL GOODS NOT ELSEWHERE SPECIFIED
CHAIN, NAIL, SCREW AND MISCELLANEOUS FORGINGS TRADE

Summary
Larger establishments

TABLE 1

	1948 (a)	1937 (b)	1935 (b)
	£'000	£'000	£'000
Gross output (production)	81,282	32,010	21,321
Cost of materials and fuel used	37,727	16,341	10,561
Payment for work done on materials given out	719	281	235
Net output	42,836	15,388	10,525
Wages and salaries of persons employed	23,540	..	..
Average number of persons employed (c)	78,247 (d)	66,819	55,841
Net output per person employed (c)	£ 547	£ 231	£ 188
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	5,916	..	..
Materials and fuel	8,072	..	..
Number of establishments	No. 640	No. ..	No. 569

(a) Great Britain only.
(b) United Kingdom.

(c) Excluding outworkers.

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

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

	1948	1937	1935
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	71,379	26,166	17,391
Other output (see Table 10)	9,919	5,844	3,930
Adjustment for changes in stocks and work in progress (see Table 14)	+ 834		
Less payment for transport by other firms	82,132 850	32,010	21,321
Gross output (production)	81,282	32,010	21,321
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	39,211	16,341	10,561
Adjustment for changes in stocks (see Table 14)	-1,484		
Materials and fuel used	37,727	16,341	10,561

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	3,197
Average number of persons employed (a)	
Males	8,071
Females	593
Total	8,664

(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)	78,247
Employing on average ten persons or less (b)	8,664
Estimated average employment in firms not making satisfactory returns	86,911
Estimated average employment in all firms	810
	87,721

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	144	2,354	1,356	2,594	560	175	736	523
25-49	167	5,544	3,065	5,865	1,316	332	1,648	523
50-99	153	10,666	5,817	10,484	2,389	645	3,033	555
100-199	76	10,709	5,495	10,182	2,403	559	2,962	540
200-299	41	10,144	5,109	10,136	2,454	550	3,004	504
300-399	22	8,565	4,479	7,552	1,891	478	2,369	593
400-499	16	7,371	4,093	7,086	1,869	441	2,310	578
500-999	11	7,813	3,710	7,366	1,717	502	2,218	504
1,000 and over	10	18,117	9,712	16,982	4,181	1,081	5,261	572
Total	640	81,282	42,836	78,247	18,779	4,762	23,540	547

METAL GOODS NOT ELSEWHERE SPECIFIED
 Analysis by standard region, 1948
 Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percentage of total		Wages	Salaries	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England									
Northern	14	1,655	617	1.4	1,362	341	61	402	
East and West Ridings of Yorkshire	64	8,595	4,087	9.5	7,600	1,948	516	2,464	
North Midland	21	3,324	1,632	3.8	3,266	719	219	938	
Eastern	10	583	386	0.9	655	149	57	206	
London and South Eastern	75	5,944	3,408	8.0	6,136	1,511	464	1,974	
Southern	8	714	489	1.1	714	181	58	239	
South Western	5	368	203	0.5	329	90	8	98	
Midland	339	48,381	26,376	61.6	46,440	11,188	2,739	13,928	
North Western	50	3,832	2,072	4.8	4,270	914	235	1,149	
Total England	586	73,394	39,270	91.7	70,772	17,042	4,356	21,399	
Wales	10	1,577	846	2.0	1,943	447	151	598	
Scotland	44	6,311	2,719	6.3	5,532	1,289	255	1,543	
Great Britain	640	81,282	42,836	100.0	78,247	18,779	4,762	23,540	

Analysis according to specialisation within the trade, 1948
 Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of									
Anchors and grapnels, and chains other than transmission chains	56	4,498	3,803 (a)	2,399	4,109	1,087	240	1,327	584
Laminated springs	28	3,962	3,271	1,818	2,980	883	223	1,106	610
Springs, other than laminated	106	6,199	5,450	3,938	8,255	1,652	402	2,055	477
Bolts, nuts, screws, rivets, washers, nails, staples, etc. (b)	266	38,677	34,752	20,753	39,124	8,389	2,396	10,786	530
Drop forgings of steel, not elsewhere specified	77	18,639	16,430	9,095	14,372	4,462	886	5,349	633
Remainder of the trade	107	9,307		4,854	9,407	2,306	614	2,918	514
Total	640	81,282		42,836	78,247	18,779	4,762	23,540	547

(a) Including amount charged for chain making for the trade or on commission and for proving chain cables and anchors.

(b) Including unclassified screw machine products, but excluding wire nails, staples, etc.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

METAL GOODS NOT ELSEWHERE SPECIFIED

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 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Iron and steel							
Anchors and grapnels and parts thereof	83.8	252	10	100.1	124	53.6	59
Ships' stud-link chain cable							
Of iron	218.6	716	18	272.8	446	186.5	279
Of steel	144.8	514	..				
Chains, other than transmission chains							
Welded and forged chain, unstudded (c)							
Of steel, electrically welded	78.3	343	20	42.4	94	169.4	293
Of iron, hand-made	97.1	440		25	128.8			242
Jack chain (including mattress chain), mattress hooks and mattress links made of wire	32.5	124	16	24.8	47	23.0	32
Chain tackle	14.4	90	14	8.3	38	..	(d)
Shackles, forged or cast, for use with chain-cable, mooring, hauling or lifting gear	53.9	207						23
Other gear for use with chain-cable (e.g., swivel pieces, slips)	13.5	65	11	141.8	347 (e)	63.0	182 (e)
Crane chains, wrought iron	84.3	409						20
Crane chains, steel	5.7	26	6	..	..	..	..
Other chains	70.7	360						38
	..	417					

CHAIN, NAIL SCREW AND MISCELLANEOUS FORGINGS

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Iron and steel (contd.)							
Springs							
For road vehicles							
Laminated	897.8	3,912	44	284.4	941	208.0	656
Other	66.4	759	31				
..	..	160	..				
For small arms	0.7	12	7				
..	..	5	..				
For clocks and watches	0.6	38	10				
..	..	57	..				
For musical instruments	2.2	43	8				
..	..	31	..				
For ordnance	1.2	42	11	5.5	45		
..	..	16	..				
For locks and latches	2.2	57	11	2.9	16	2.3	11
..	..	9	..				
Laminated, other than for road vehicles							
For locomotives, carriages and wagons	379.5	1,137	14	823.6	1,338	683.2	1,059
Other	1.9	8	5				
..	..	3	..				
Unclassified	159.2	473	..				
Other springs							
Upholstery and mattress springs (including spring seating and mattress interiors)	313.7	1,804	60	409.6	710 (f)	221.4	350 (f)
..	..	779					
For locomotives, carriages and wagons	173.3	673	23				
Valve, shock absorber and similar engine springs	14.8	284	20	253.6	857	192.4	642
..	..	37					
Other	132.0	1,530	66	..	..	..	..
..	..	704					

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity		Value	Quantity	Value	Quantity	Value
	Th. gross	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Iron and steel (contd.)							
Other set screws, screw studs and screws for metal, nuts, and washers assembled with any of these articles							
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	1,077	25.0	136	..	(d)	..	(d)
	5,089	..	528				
	..	22.0	100				
	..	..	138				
	7,919	84.7	624				
All other kinds	1,422	..	155	31			
	..	35.4	133				
	..	..	201				
Hooks, fasteners and shackles, not elsewhere specified	Th. cwts.						
Fasteners for machinery belting	30.5	407	13	27.0	121	20.0	84
	..	169	..	..	..	..	18
Other descriptions	7.5	129	18	63.7	137(o)	50.3	85(o)
	..	34	..				
Saddlery hardware, not elsewhere specified	..	155	11	27.6	130	22.7	114
Moulders' chaplets (h)	..	69	5	-	-	-	-
Forgings, not elsewhere specified							
Iron							
In the rough	112.6	243	47	134.4	244	112.6	183
	..	65					
Machined	8.2	37	8				
Steel, drop forgings (p)							
Of alloy steel							
In the rough	1,828.8	10,137	63	4,963.0	12,729	3,139.8	7,029
Machined	115.0	816	11				
Of non-alloy steel							
In the rough	1,821.2	8,036	86				
Machined	236.1	1,285	22				
Unclassified	110.6	576	20				
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) (q)							
Nails and tacks	7.6	95	18	9.0	45	11.9	50
	..	23					

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) (q) (contd.)							
Screw machine products (e.g., turned screws, rivets, washers), unclassified (h)	31.1	990	45	-	-	-	-
	..	1,064					
Rivets (other than tubular) and washers	15.9	207	33	16.0	135	12.3	93
	..	36					
Tubular rivets	Mill. 628	443	8				
	Th. gross	Th. cwts.					
	3,990	34.0	763	63.4	683	49.7	387
Bolts and nuts	3,069	..	731				
	..	..	138				
Screws for wood, coach screws, screw hooks, screw rings and screw knobs	465	3.0	76	Th. gross	384	Th. gross	273
	115	..	44				
	..	..	694				
	Th. gross	Th. cwts.					
	4,353	34.1	384				
	..	..	30.9				
Screws for metal (h)	1,997	10.3	176	7	-	-	-
	..	4.1	74				
	Th. cwts.						
	2.8	113	23	-	-	-	-
Springs (h)	..	31					
Copper							
Nails and tacks	17.2	205	16	19.2	94	13.6	50
Screw machine products (e.g., turned screws, rivets, washers) (h)	..	5	7	-	-	-	-
	Th. gross	Th. cwts.					
	1,580	..	115	21	15.6	101	13.9
Other bolts, nuts, screws, rivets and washers	..	9.9	147				
	..	..	41				
Screw machine products (e.g., turned screws, rivets, washers), other than of iron, steel, brass or copper (h)	Th. cwts.						
	..	149	16	-	-	-	-
Other screws, nuts, bolts, nails, etc., not of iron, steel, brass or copper (h)	..	42	12	-	-	-	-
Aluminium rivets (h)	7.7	247	15	-	-	-	-
	..	145					
Taper pins of all metals (h)	8.7	107	9	-	-	-	-
	..	125					
Split pins of all metals (h)	18.3	138	6	-	-	-	-
General and jobbing work (including horse shoeing and other blacksmiths' work) (r)		915	92		75		108

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Iron and steel (contd.)							
Springs (contd.)							
Unclassified springs	31.1 ..	529 233	31	-	-	-	-
Springing	4.0 ..	25 36	..	122.2 ..	310(£) 279	68.6 ..	182(£)(h) 215
Fencing material (other than fencing wire) of cast or wrought iron							
Standards	49.2	129	35	152.2	157	123.7	102
Other sorts (i.e., gates, grilles, fences, trellis, etc.)	133.2 ..	628 241	92	957.8	1,303	880.3	945
Unclassified	55.9 ..	159 198	16	-	-	-	-
Shoe nails and rivets, hob nails, and boot and shoe studs and spikes, other than malleable cast (l)	120.5	414	14	137.0	226	125.3	179
Cut nails	287.8	510	15	468.5	381	411.5	300
Tacks	96.0	426	16	119.8	242	128.6	224
Other nails and staples (j)	35.7 ..	183 81	17	71.4	110	111.9	143
Screw machine products (e.g., turned screws, rivets, washers), unclassified (h)	33.4 ..	427 694	42	-	-	-	-
Rivets (k)							
Of ½ in. diameter and over	948.7	1,424	18				
Under ½ in. diameter	150.8 ..	438 53	39				
Unclassified	213.1 ..	330 71	7	1,960.6	1,666	1,304.9	991
Washers (other than those assembled with bolts, etc.)	269.2 ..	812 268	64				
Tubular rivets	Mill. 259 ..	Th. cwt. 3.9 ..	92 11				

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Iron and steel (contd.)							
Studs and spikes (other than boot and shoe studs and spikes and screw studs)	16.6 ..	96 38	9				
Boot and shoe tips and protectors (other than protectors holed for fitting) (l)	16.5 ..	60 18	10	48.0	110	41.8	84
Horse shoes, sold unfitted	60.8	137	..	94.5	89	103.7 ..	81 18
Frost cogs (horse shoe studs)	2.5	23	6	7.0	25(h)	8.1	23(h)
Grindery, not elsewhere specified	22.4 ..	117 22	14	33.1	56(h)	26.1 ..	38(h) 10
Screws for wood, coach screws, screw hooks, screw rings and screw knobs	Th. gross 4,149 32,225	Th. cwt. 55.5 ..	318 2,272	..	Th. gross 26,401 Th. cwt. 273.0	913(m)	Th. gross 24,270 Th. cwt. 220.3
Bolts, whether threaded or not, bolt ends, hexagon or square head set screws and screw studs, hexagon and square nuts whether tapped or not, and washers assembled with any of these articles (n)							
Bright	10,898 4,894	349.8 .. 69.3 ..	3,630 1,886 531 912	124	697.7	2,719	477.2 ..
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	4,948 5,774 ..	828.6 .. 1,877.8	2,888 1,828 5,655	77			
All other kinds	1,343 544 ..	123.4 .. 247.1	914 199 1,325	44			
Unclassified	215 .. ..	.. 20.3 ..	49 110 437	43	-	-	-

TABLE 8 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Work done for the trade or on commission (r)		£'000	No.		£'000		£'000
Chain making		2	..	}	194		104
Proving chain cables and anchors		211	22				
Other		671	49				
Total		81,872	..		33,411		21,350
Less sales or production in other trades		10,493	..		7,245		3,959
Total principal products of this trade sold or made by establishments in the trade		71,379	602		26,166		17,391

(a) Great Britain only.

(b) United Kingdom.

(c) Not described as unstudded in 1937 and 1935. The subdivisions in 1937 were "Electrically welded" and "Other".

(d) Not recorded separately.

(e) Described as "Other chains".

(f) Described as "Upholstery and mattress wire springs".

(g) Including spring seating.

(h) So far as recorded separately.

(i) Including malleable cast hob nails, and boot and shoe studs and spikes in 1937 and 1935.

(j) Excluding wire nails and staples, and insulated staples, for which see the Wire and Wire Manufactures Trade (Volume 5, Trade D).

(k) Excluding shoe rivets, tubular rivets and bifurcated rivets manufactured from wire.

(l) Excluding malleable cast boot and shoe tips and protectors in 1948.

(m) Screws for wood only.

(n) The figures for 1937 and 1935 include other set screws, screw studs and screws for metal, nuts, assembled washers, and coach screws.

(o) Including screw hooks, rings and knobs.

(p) Excluding axles, tyres and wheels. The figures for 1937 and 1935 include steel forgings other than drop forgings. For the sales (or production) of axles, tyres and wheels, and the sales in 1948 of steel forgings other than drop forgings, see the Iron and Steel (Melting and Rolling) Trade (Volume 3, Trade B).

(q) All nickel alloys were excluded in 1937 and 1935.

(r) 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 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000	Th.cwts.	£'000
Iron and steel							
Ships' stud-link chain cable, of steel	0.2	1	..	-	-	-	-
Shackles, forged or cast, for use with chain-cable, mooring, hauling or lifting gear; and other gear for use with chain-cable (e.g., swivel pieces, slips)	..	4	..	}	24	21.9	71
Anchors and grapnels and parts thereof							
Chains, other than transmission chains							
Welded and forged chain, unstudded, of iron, hand-made	61.0	244	}	}	}	}	}
Jack chain (including mattress chain), mattress hooks and mattress links made of wire	..	12					
Chain tackle							
Other chains							
Springs							
For road vehicles, laminated	260.7	1,049	9	..	(c)	..	(c)
For ordnance	-	-	-	0.4	2	..	(c)
Laminated, other than for road vehicles				}	}	}	}
For locomotives, carriages and wagons	74.0	229	..				
Other	-	-	-				
Unclassified	159.2	473	..				

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Iron and steel (contd.)							
Springs (contd.)							
Other springs							
Upholstery and mattress springs (including spring seating and mattress interiors)	81.8 ..	344 340	22	246.7	413	107.2	162
For small arms	-	-	-				
Valve, shock absorber and similar engine springs	..	2	..	67.3	293	33.8	122
All other descriptions of springs	54.1 ..	260 100	..				
Unclassified springs	27.4 ..	423 39	20	-	-	-	-
Springing	-	-	-	..	14	4.5 ..	5 189
Fencing material (other than fencing wire) of cast or wrought iron							
Standards	15.9	31	23	92.2	86	64.6	51
Other sorts (i.e., gates, grilles, fences, trellis, etc.)	30.4 ..	125 50	62	279.6	345	275.0	291
Unclassified	49.9 ..	135 181	..	-	-	-	-
Shoe nails and rivets, hob nails, and boot and shoe studs and spikes	-	-	-				
Cut nails, tacks and other nails and staples, except wire nails and staples and insulated staples	42.3 ..	121 64	..	55.1	48	43.3	34
Rivets (d)							
Of ½ in. diameter and over	-	-	-				
Under ½ in. diameter	6.4 ..	21 1	7				
Unclassified	213.1 ..	330 69	..	284.9	226	147.6	99
Washers (other than those assembled with bolts, etc.)	66.7 ..	163 4	16				

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Iron and steel (contd.)							
Studs and spikes (other than boot and shoe studs and spikes and screw studs)	0.7	8					
Boot and shoe tips and protectors (other than protectors holed for fitting)	..	11	6	-	-	0.6	2
Horse shoes, sold unfitted	-	-	-	-	-	..	18
Grindery, not elsewhere specified	0.8 ..	4 19	5	8.5	15	4.3 ..	8 10
	Th. gross	Th. cwts.					
Bolts, whether threaded or not, bolt ends, hexagon or square head set screws and screw studs, hexagon and square nuts whether tapped or not, and washers assembled with any of these articles (e)							
Bright	85 563	5.0 .. 0.6 ..	64 299 7 51	9	20.3	89	16.0 76
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	129 47 ..	74.1 .. 19.9	166 60 75	6			
All other kinds	26 9 ..	14.8 .. 2.0	33 12 10	6	90.6	95	40.3 59
Unclassified	.. ..	13.0 ..	70 271	34	-	-	- -
Other set screws, screw studs and screws for metal, nuts, and washers assembled with any of these articles							
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	1	0.7 8.2 ..	4 37 7	5		(c)	.. (c)
All other kinds	..	..	10	..			

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwt.s.	£'000	No.	Th. cwt.s.	£'000	Th. cwt.s.	£'000
Iron and steel (contd.)							
Hooks, fasteners and shackles, not elsewhere specified							
Fasteners for machinery belting	1.7 ..	12 8	5	0.3	1	-	-
Other descriptions	3.2 ..	31 5	7	14.9	27(f)	11.6	18(f)
Saddlery hardware, not elsewhere specified	..	58	..	1.3	6	0.9	5
Forgings, not elsewhere specified							
Iron							
In the rough	103.9 ..	194 51	28	51.9	98	60.7	90
Machined	-	-	-				
Steel, drop forgings (g)							
Of alloy steel	400.2	2,369	..				
Of non-alloy steel							
In the rough	76.4	259	9	1,734.9	4,992	902.5	2,249
Machined	94.7	450	5				
Unclassified	15.3	76	17				
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) (h)							
Nails and tacks	0.1	2	..	-	-	0.1	1
Rivets, washers, bolts and nuts	0.3 ..	9 430	..	2.1	21	5.4 ..	45 10
Screws for wood, coach screws, screw hooks, screw rings and screw knobs	..	1	..	0.5	5	-	-
Springs	..	9	..	-	-	-	-
Copper nails, tacks, bolts, nuts, screws, rivets and washers	4.2 ..	62 11	..	5.4	31	3.8	20

TABLE 9 (contd.)

	1948(a) Sales			1937(b) Production		1935(b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwt.s.	£'000	No.		£'000		£'000
Screw machine products (e.g., turned screws, rivets, washers) of all metals other than copper	4.2 ..	54 31	..	-	-	-	-
Other screws, nuts, bolts, nails, etc., not of iron, steel, brass or copper	..	9	..	-	-	-	-
Aluminium rivets	4.5 ..	142 11	..	-	-	-	-
Taper pins and split pins of all metals	11.5 ..	68 4	..	-	-	-	-
General and jobbing work (including horse shoeing and other blacksmiths' work) (1)		26	21		25		38
Work done for the trade or on commission (1)		81	..		-		-
Total		10,493	..		7,245		3,959

(a) Great Britain only.

(b) United Kingdom.

(c) Not recorded separately.

(d) Excluding shoe rivets, tubular rivets and bifurcated rivets manufactured from wire.

(e) The figures for 1937 and 1935 include other set screws, screw studs and screws for metal, nuts, assembled washers and coach screws.

(f) Including screw hooks, rings and knobs.

(g) Excluding axles, tyres, and wheels. The figures for 1937 and 1935 include steel forgings other than drop forgings.

(h) All nickel alloys were excluded in 1937 and 1935.

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

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

Larger establishments

TABLE 10

	1948 (a) Sales		1937 (b) Production	1935 (b) Production
	Quantity	Value	Value	Value
	Th. tons	£'000	£'000	£'000
Manufactures of iron and steel				
Wire nails and tacks (including staples other than insulated)	5.1	208	75	56
Tools and implements				
Spanners and wrenches	Th. doz. 132	164	26	21
	..	89		
Other, excluding engineers' small tools	..	679		
Railway material (including axles, tyres and wheels)	Th. tons 13.6	675	466	295
	..	121		
Stampings and pressings	5.5	603	324	174
	..	109		
Builders' ironmongery	2.1	139	212	249
	..	38		
Bolts, hasps and hinges, blanks and parts therefor	0.7	70	106	42
Fabricated iron and steel	..	66	89	73
Wire mattresses	0.5	47	139	78
	..	75		
Steel forgings, other than drop forgings				
Of alloy steel				
In the rough	7.7	797		
Machined	0.4	83		
Of non-alloy steel			(c)	(c)
In the rough	3.0	245		
	..	40		
Machined	..	363		
Other iron and steel manufactures, not elsewhere specified	..	1,181	1,104	821

TABLE 10 (contd.)

	1948 (a) Sales		1937 (b) Production	1935 (b) Production
	Quantity	Value	Value	Value
	Th. tons	£'000	£'000	£'000
Manufactures of non-ferrous metals, not elsewhere specified				
Stampings and pressings	0.5	151	232	125
Other				
Of brass	..	287	672	511
Of other non-ferrous metals	..	141	239	
Parts and accessories of motor vehicles and cycles	..	1,031	547	265
Principal products of the mechanical engineering trades	..	657	339	451
Other goods	..	656	351	255
Scrap metals sold				
Iron and steel	201.2	667	658 (197,600 tons)	378 (146,400 tons)
Brass	6.6	444	184 (5,800 tons)	60 (3,100 tons)
Copper	0.3	24	8	14
Other metals	1.4	36	14	6
Work done (d)		33	59	56
Total		9,919	5,844	3,930

(a) Great Britain only.

(b) United Kingdom.

(c) Included in Table 8: see Introductory Note.

(d) 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		
Productive works	1,974	2.5
Export sales organisations (including branches abroad)	587	0.7
Other wholesale or selling organisations, and retail shops, etc.	1,082	1.4
Total sales (or transfers) to other organisations under the same control	3,643	4.6
Sales to independent buyers		
Exports invoiced directly overseas	2,851	3.6
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	1,975	2.5
His Majesty's Government and Local Authorities (other than productive establishments)	1,415	1.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	51,899	65.2
Wholesalers, merchants and other agents for resale	15,494 (a)	19.5
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	1,109	1.4
Other businesses (including farmers) and institutions of all kinds	303	0.4
Members of the public, including employees	97	0.1
Unclassified	787	1.0
Total sales to independent buyers	75,930	95.4
Total	79,573	100.0

(a) Of this total £9,992,000 was recorded as divided between £3,622,000 for export and £6,370,000 for other sales.

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

TABLE 12

	Production (b) (c)	Exports (d)	Retained imports (e)
	Th. cwts.	Th. cwts.	Th. cwts.
Iron and steel			
Anchors and grapnels and parts thereof	{ 1948 83.8 1937 100.1	60.9 47.7	0.4 50.4
Ships' stud-link chain cable	{ 1948 363.4 1937 272.8	125.4 70.3	18.1 12.5
Chains			
Jack chain (including mattress chain), mattress hooks and mattress links made of wire	1948 32.5	2.8	-
All other chains, (except transmission chains) including chain tackle (f)	{ 1948 570.0 (g) 1937 321.3	138.7 106.4	14.2 40.2
Springs (excluding springs for small arms, locks, latches, clocks, watches, motor vehicles and musical instruments)			
Laminated	{ 1948 541.0 (g) (h) 1937 823.8	57.7 13.5	- -
Upholstery and mattress springs (including spring seating and mattress interiors) (i)	{ 1948 450.0 (g) 1937 409.6 £'000	44.5 21.1 £'000	0.1 17.3 £'000
Other sorts	{ 1948 4,048 (h) (j) 1937 902 Th. cwts.	234 81 Th. cwts.	12 10 Th. cwts.
Fencing material of cast or wrought iron (other than fencing wire)	{ 1948 340.0 (g) 1937 1,110.0	62.5 85.4	- 0.6
Nails, tacks and staples (other than wire nails, wire staples and insulated staples), including hob-nails and boot and shoe studs and spikes	{ 1948 555.0 (g) 1937 796.7	150.8 124.8	5.5 30.5
Studs and spikes (other than railway spikes, boot and shoe studs and spikes and screw studs) and boot and shoe tips and protectors (other than protectors holed for fitting)	{ 1948 45.0 (g) 1937 48.0	32.4 33.6	0.3 0.3
Rivets (other than tubular rivets and bifurcated rivets manufactured from wire) and washers (other than washers assembled with bolts, etc.) (k)	{ 1948 1,730.0 (g) 1937 1,960.6 (l) £'000	187.2 258.5 £'000	- 103.3 £'000
Screws for wood, coach screws, screw hooks, screw rings and screw knobs	{ 1948 2,590 1937 913 (m)	753 202	33 141

TABLE 12 (contd.)

		Production (b) (c)	Exports (d)	Retained imports (e)
		£'000	£'000	£'000
Iron and steel (contd.)				
Bolts, whether threaded or not, bolt ends, hexagon or square head set screws and screw studs, hexagon and square nuts whether tapped or not, and washers assembled with any of these articles (k)				
Bright (n)	{ 1948	6,959	239	14
	1937	2,719	79	62
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	1948	10,371	762	..
All other kinds	1948	2,439	932	..
Other set screws, screw studs and screws for metal, nuts, and washers assembled with any of these articles (k)				
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	1948	902	68	..
All other kinds	1948	1,113	334	..
Total bolts, etc. and other set screws, etc.	{ 1948	22,380 (o)	2,334	61
	1937	7,227 (p)	597	313

(a) Figures of sales (or production) refer only to larger establishments in Great Britain (1948) or the United Kingdom (1937). 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.

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) The oversea trade figures include transmission chains of malleable iron, but exclude chains made of wire.

(g) Partly estimated.

(h) Excluding springs for all road vehicles.

(i) The figures for 1937 exclude spring seating.

(j) Including unclassified springs (£762,000).

(k) The 1948 sales figures are exclusive of screw machine products so far as recorded separately.

(l) Including tubular rivets.

(m) Screws for wood only.

(n) The figures for 1937 and retained imports for 1948 include all bright set screws, screw studs, screws for metal, nuts, and assembled washers.

(o) Including unclassified sales.

(p) Including coach screws.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948 (a)		1937 (b)		1935 (b)	
	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						
Iron						
Bars and rods	31.7	912	69.9	790	58.0	560
Wire	0.3	10	5.8	111		
Other kinds	2.8	154	11.4	129	12.1	111
Steel						
Bars	512.0	13,097	414.3	4,681	462.6	4,667
Wire rods	18.4	537				
Wire	137.4	4,772	97.0	1,637		
Ingots, blooms, billets and slabs	147.9	3,657	220.6	2,577	18.3	1,677
Hoop and strip	19.2	720	24.9	359		
Other kinds	{ 64.7	{ 1,317	85.4	819		
	..	704				
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) (c)						
Rods, sections, shapes and angles	9.8	1,386	10.7	627	12.8	603
Wire	6.2	1,028	5.4	389		
Other kinds	1.4	237	1.7	125		
Packing materials	..	850	..	238	..	(d)
Consumable tools bought as replacement	..	929	..	2,580	..	2,101
Replacement parts for firms' machinery	..	797				
All other purchased materials	..	4,983				(e)
Fuel and electricity						
Coal	185.8	493	407.8	386	314.4	261
Coke	{ 78.4	{ 313	..	(d)	74.6	104
	..	42				

TABLE 13 (contd.)

	1948 (a)		1937 (b)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. B. T. U. (kW. hrs.)	£'000	Th. B. T. U. (kW. hrs.)	£'000	Th. B. T. U. (kW. hrs.)	£'000
Fuel and electricity (contd.)						
Electricity purchased (f)						
From public supply	196,302	819	117,051	332	85,488	269
From other sources	3,442	11				
Electricity obtained from other works under the same ownership	Th. galls.					
Motor spirit (petrol) and deriv. fuel	3,668	186	..	(d)	..	(d)
Other oil fuel (including creosote/pitch mixtures)	18,043	677	14,075	256 (g)	12,410	208(g)
Gas purchased	Th. therms					
From public supply	14,103	436				
From other sources	Th. cu. ft. 306,615	39	..	305	..	(d)
Gas obtained from other works under the same ownership	Th. therms 1,260	34				
	Th. cu. ft. 170,871	11				
All other purchased fuel	..	60				
Total		39,211		16,341		10,561

(a) Great Britain only.

(b) United Kingdom.

(c) All nickel alloys were excluded in 1937 and 1935.

(d) Not recorded separately.

(e) Including fuel not specified separately.

(f) The total quantity of electricity consumed in 1948 was 201,795,000 B.T. units including 2,052,000 generated in the same works.

(g) 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. cwts.	£'000	Th. cwts.	£'000
Finished products				
Of iron and steel				
Springs and springing	14.1	51	16.5	63
Rivets	..	22	..	23
Bolts, nuts, screws, etc., for metal	35.6	50	31.2	46
Bright	23.1	124	27.2	153
Other	..	97	..	151
Steel forgings	183.9	403	187.2	417
Other finished products	..	185	..	263
Work in progress	30.7	91	36.0	112
Unclassified	..	145	..	219
Total finished products and work in progress	..	1,512	..	1,832
Materials and fuel				
Iron bars and rods		2,281		£,507
Steel blooms, billets and slabs		123		131
Steel bars	Th. tons		Th. tons	
Steel wire rods	4.8	123	4.8	128
Steel wire	40.3	872	43.2	1,031
Brass in all forms	85.1	2,010	102.4	2,614
Other descriptions of materials and fuel	2.9	77	3.0	94
Unclassified	16.4	613	20.7	788
Total materials and fuel	4.1	538	4.0	555
	..	188	..	124
	..	1,680	..	2,139
	..	486	..	599
		6,587		8,072

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948(c)	1937(d)	1935(d)	1948(c)	1937(d)	1935(d)	1948(c)	1937(d)	1935(d)
Males									
Under 18	2,737	7,796	6,161	238	449	339	2,975	8,245	6,500
All ages	44,520	41,394	33,939	6,327	4,133	3,795	50,847	45,527	37,734
Females									
Under 18	1,683	5,769	4,888	747	571	375	2,430	6,340	5,263
All ages	22,797	18,867	16,256	4,459	2,225	1,851	27,256	21,092	18,107
Total									
Under 18	4,420	13,565	11,049	985	1,020	714	5,405	14,585	11,763
All ages	67,317	60,261	50,195	10,786(e)	6,358	5,646	78,103 (e) (f) (g)	66,619	55,841
Total remuneration									
	£'000	..	..	£'000	..	..	£'000	..	..
	18,779	..	..	4,762	..	..	23,540	..	..

(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	34 males	831 females
Other workers	226 males	128 females

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

(c) Great Britain only.

(d) United Kingdom.

(e) There were, in addition, 144 working proprietors (138 males and 6 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.

(f) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £594,000.

(g) 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	131	
Maintenance and repair of firms' buildings, but not plant	252	
Research work not directly connected with current production however charged	13	20

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers (and remuneration in 1948) are set out below.

	Average number of outworkers employed			Total amount paid to outworkers
	Males	Females	Total	
1948	182	509	691	£'000 108
1937	352	112	464	..
1935	359	117	476	..

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Amount paid	Establishments making returns for the calendar year						
			Percentage of annual remuneration paid in						
			First quarter	Second quarter	Third quarter	Fourth quarter	Year		
Wages and salaries of	£'000	£'000							
Operatives	18,779	9,855	23.9	24.7	24.2	27.2	100.0		
Administrative, technical and clerical employees	4,762	2,578	24.4	24.7	24.6	26.3	100.0		
Total	23,540	12,432	24.0	24.7	24.3	27.0	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 £719,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	289
Of plant, machinery and vehicles	646
Unclassified	281
Hire of plant, machinery and vehicles	65
Advertising and market research	
Advertising in newspapers, magazines and periodicals	94
Other advertising services (poster display, despatch of circulars, etc.) and market research	25
Unclassified	137
Payments made for research work	
To research associations	17
To universities, institutions, academic bodies and similar agencies	3
To other commercial concerns	24
Postage, telephone, telegrams and cables	216
Commercial insurance premiums	223
Rates (excluding water rates) payable in the year	81

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	2,696	276	130
Vehicles	202	58	45
Total	2,898	334	175

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)		577
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	199	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	114	
(111) Leasehold buildings and land newly occupied in the year	119	
Total of heading 2		432
Total of headings 1 and 2		1,009
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	18	
(11) Estimated value of other properties relinquished	9	
Total of heading 3		27
4. Headings 1 and 2 less heading 3		982

(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.

METAL GOODS NOT ELSEWHERE SPECIFIED COUNTRY TABLES
CHAIN, NAIL, SCREW AND MISCELLANEOUS FORGINGS TRADE

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	73,394	1,577	6,311	81,282
Cost of materials and fuel used	33,462	724	3,542	37,727
Payment for work done on materials given out	662	6	50	719
Net output	39,270	846	2,719	42,836
Wages and salaries of persons employed	21,399	598	1,543	23,540
	No.	No.	No.	No.
Average number of persons employed (a)	70,772	1,943	5,532	78,247
	£	£	£	£
Net output per person employed (a)	555	436	492	547
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	5,324	201	391	5,916
Materials and fuel	7,325	199	548	8,072
	No.	No.	No.	No.
Number of establishments	566	10	44	640

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (see Table 23)	73,391	1,539	6,368	81,298
Adjustment for changes in stocks and work in progress	+ 717	+ 54	+ 62	+ 834
	74,108	1,594	6,430	82,132
Less payment for transport by other firms	714	17	119	850
Gross output (production)	73,394	1,577	6,311	81,282
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	34,864	665	3,683	39,211
Adjustment for changes in stocks	-1,402	+ 59	- 141	- 1,484
Materials and fuel used	33,462	724	3,542	37,727

Summary

Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	2,241	219	1,737	3,197
Average number of persons employed (a)				
Males	5,659	541	1,871	8,071
Females	451	39	103	593
Total	6,110	580	1,974	8,664

(a) Including working proprietors.

Sales in the trade

TABLE 23

Larger establishments

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000
Principal products						
Iron and steel						
Ships' stud-link chain cable						
Of iron	218.6	716	-	-	218.6	716
Of steel	..	(a)	..	(a)	144.7	513
Shackles, forged or cast, for use with chain-cable, mooring, hauling or lifting gear; and other gear for use with chain-cable (e.g., swivel pieces, slips)	..	(a)	..	(a)	67.3 ..	272 111
Welded and forged chain, unstudded, of steel, electrically welded	..	(a)	..	(a)	78.3 ..	343 137
Crane chains, wrought iron	84.3	409	-	-	84.3	409
Crane chains, steel	..	(a)	..	(a)	5.7 ..	26 48
Anchors and grapnels and parts thereof						
Other chains, except transmission chains						
Welded and forged chain, unstudded, of iron, hand-made	..	(a)	..	(a)	237.5 ..	1,021 425
Jack chain (including mattress chain), ma mattress hooks and mattress links made of wire						
Chain tackle						
Other						
Springs						
For road vehicles, laminated	624.3	2,804	12.8	59	637.1	2,863
For small arms	0.7 ..	12 5	-	-	0.7 ..	12 5

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000
Principal products (contd.)						
Iron and steel (contd.)						
Springs (contd.)						
For ordnance	1.2 ..	42 16	-	-	1.2 ..	42 16
Laminated, other than for road vehicles						
For locomotives, carriages and wagons	..	(a)	..	(a)	305.4	907
Other	1.9 ..	8 3	-	-	1.9 ..	8 3
Other springs						
Upholstery and mattress springs (including spring seating and mattress interiors)	..	(a)	..	(a)	231.9 ..	1,460 439
Valve, shock absorber and similar engine springs	..	(a)	..	(a)	14.8 ..	284 35
All other descriptions of springs	..	(a)	..	(a)	32.7 ..	2,839 861
Unclassified springs	3.7 ..	106 194	-	-	3.7 ..	106 194
Springing	4.0 ..	25 36	-	-	4.0 ..	25 36
Fencing material (other than fencing wire) of cast or wrought iron						
Standards	..	(a)	..	(a)	33.4	99
Other sorts (i.e., gates, grilles, fences, trellis, etc.)	96.8 ..	482 176	5.9 ..	21 15	102.7 ..	503 191
Unclassified	6.0 ..	24 17	-	-	6.0 ..	24 17
Shoe nails and rivets, hob nails, and boot and shoe studs and spikes, other than malleable cast	..	(a)	..	(a)	120.5	414
Cut nails, tacks and other nails and staples, except wire nails and staples and insulated staples	242.2 ..	719 17	135.0	279	377.1 ..	999 17
Rivets (b)						
Of ½ in. diameter and over	448.8	672	499.8	752	948.7	1,424
Under ½ in. diameter	..	(a)	..	(a)	144.4 ..	418 52
Unclassified	..	2	-	-	..	2

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000	Th.cwts.	£'000
Principal products (contd.)						
Iron and steel (contd.)						
Washers (other than those assembled with bolts, etc.)	..	(a)	..	(a)	202.5 ..	649 265
	Mill. Th. cwts.				Mill. Th. cwts.	
Tubular rivets	{ 259 3.9	{ 92 11	{ - -	{ - -	{ 259 3.9	{ 92 11
	Th.cwts.				Th.cwts.	
Studs and spikes (other than boot and shoe studs and spikes and screw studs)						
Boot and shoe tips and protectors (other than malleable cast tips and protectors and protectors holed for fitting)	..	(a)	..	(a)	32.4 ..	148 45
Horse shoes, sold unfitted	60.8	137	-	-	60.8	137
Frost cogs (horse shoe studs)	2.5	23	-	-	2.5	23
Grindery, not elsewhere specified	{ 21.6 ..	{ 113 3	{ - -	{ - -	{ 21.6 ..	{ 113 3
	Th. gross Th. cwts.		Th. gross Th. cwts.		Th. gross Th. cwts.	
Screws for wood, coach screws screw hooks, screw rings and screw knobs	.. ..	(a)	.. ..	(a)	4,149 55.5 32,225 ..	318 2,272
Bolts, whether threaded or not, bolt ends, hexagon or square head set screws and screw studs, hexagon and square nuts whether tapped or not, and washers assembled with any of these articles						
Bright	.. ..	(a)	.. ..	(a)	10,813 344.8 4,331 68.7	3,566 1,588 524 862
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	{ 4,818 754.4 5,727 1,287.2	{ 2,722 1,768 3,977	{ - 0.1 - 570.7	{ - - 1,603	{ 4,818 754.5 5,727 1,857.9	{ 2,723 1,768 5,580
All other kinds	.. ..	(a)	.. ..	(a)	1,317 108.6 534 245.1	881 187 1,315
Unclassified	{ 215 7.3	{ 49 40 166	{ - - -	{ - - -	{ 215 7.3	{ 49 40 166

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000	Th. gross Th. cwts.	£'000
Principal products (contd.)						
Iron and steel (contd.)						
Other set screws, screw studs and screws for metal, nuts, and washers assembled with any of these articles						
Black or metal coated (but not painted, japanned or otherwise coated, except with metal)	..	(a)	..	(a)	1,075 24.2 5,089 13.8	132 528 83 131
All other kinds	..	(a)	..	(a)	7,919 84.7 1,422 35.4	624 155 133 192
	Th.cwts.				Th.cwts.	
Hooks, fasteners and shackles, not elsewhere specified						
Fasteners for machinery belting	{ 28.9 ..	{ 394 161	{ - -	{ - -	{ 28.9 ..	{ 394 161
Other descriptions	..	(a)	..	(a)	4.4 ..	98 30
Saddlery hardware, not elsewhere specified	..	97	-	-	..	97
Moulders' chaplets (c)	..	(a)	..	(a)	..	69
Forgings, not elsewhere specified						
Iron						
In the rough	..	(a)	..	(a)	8.7 ..	49 13
Machined	..	(a)	..	(a)	8.2	37
Steel, drop forgings						
Of alloy steel	..	(a)	..	(a)	1,543.6	8,584
Of non-alloy steel						
In the rough	..	(a)	..	(a)	1,744.8	7,777
Machined	141.4	835	-	-	141.4	835
Unclassified	..	(a)	..	(a)	95.3	500
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver)						
Nails and tacks	..	(a)	..	(a)	7.5 ..	93 23
Rivets, washers, bolts and nuts	..	(a)	..	(a)	49.5 ..	961 919

TABLE 23 (contd.)

	England and Wales			Scotland			Great Britain		
	Quantity		Value	Quantity		Value	Quantity		Value
	Th. gross	Th. cwt.	£'000	Th. gross	Th. cwt.	£'000	Th. gross	Th. cwt.	£'000
Principal products (contd.)									
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) (contd.)									
Screws for wood, coach screws, screw hooks, screw rings and screw knobs	465 115 ..	3.0	76 44 693	- - -	- - -	- - -	465 115 ..	3.0	76 44 693
Screws for metal (c)	..	..	(a)	..	..	(a)	1,997 ..	10.3 4.1	176 74
Springs (c)	..	Th. cwt.	(a)	..	..	(a)	2.8 ..	..	113 22
Copper nails, tacks, bolts, nuts, screws, rivets and washers	..	..	(a)	..	..	(a)	22.9 ..	..	289 145
Screw machine products (e.g., turned screws, rivets, washers) (c)									
Of copper	..	..	5	-	-	-	..	..	5
Of other metals	60.3 ..	..	1,364 1,877	-	-	-	60.3 ..	..	1,364 1,877
Other screws, nuts, bolts, nails, etc., not of iron, steel, brass or copper (c)	..	..	33	-	-	-	..	..	33
Aluminium rivets (c)	3.2 ..	..	105 133	-	-	-	3.2 ..	..	105 133
Taper pins and split pins of all metals (c)	..	..	(a)	..	..	(a)	15.6 ..	..	178 121
General and jobbing work (including horse shoeing and other blacksmiths' work) (d)			751			138			889
Work done for the trade or on commission (d)									
Chain making			(a)			(a)			2
Other			773			28			801
Total principal products			65,634			5,745			71,379
Other output							Th. tons		
Manufactures of iron and steel									
Wire nails and tacks (including staples other than insulated)	..	Th. doz.	(a)	..	..	(a)	5.1	Th. doz.	208
Tools and implements									
Spanners and wrenches	132 ..	..	164 89	-	-	-	132 ..	..	164 89
Other, excluding engineers' small tools	..	..	(a)	..	..	(a)	..	..	679
Railway material (including axles, tyres and wheels)	10.6 ..	Th. tons	570 121	3.0	Th. tons	105	13.6 ..	Th. tons	675 121

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TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Other output (contd.)						
Manufactures of iron and steel (contd.)						
Stampings and pressings	5.5 ..	603 109	- -	- -	5.5 ..	603 109
Builders' ironmongery	0.8 ..	67 35	1.3 ..	72 3	2.1 ..	139 38
Bolts, hasps and hinges, blanks and parts therefor	0.7	70	-	-	0.7	70
Fabricated iron and steel	..	63	..	3	..	66
Wire mattresses	..	(a)	..	(a)	0.5 ..	47 75
Steel forgings, other than drop forgings						
Of alloy steel						
In the rough	7.7	797	-	-	7.7	797
Machined	0.4	83	-	-	0.4	83
Of non-alloy steel						
In the rough	..	(a)	..	(a)	3.0 ..	245 40
Machined	..	(a)	..	(a)	..	363
Other iron and steel manufactures, not elsewhere specified	..	1,166	..	14	..	1,181
Manufactures of non-ferrous metals, not elsewhere specified						
Stampings and pressings	0.5	151	-	-	0.5	151
Other						
Of brass	..	(a)	..	(a)	..	287
Of other non-ferrous metals	..	141	-	-	..	141
Parts and accessories of motor vehicles and cycles	..	1,031	-	-	..	1,031
Principal products of the mechanical engineering trades	..	(a)	..	(a)	..	657
Other goods	..	639	..	17	..	656
Scrap metals sold						
Iron and steel	175.0	576	26.2	90	201.2	667
Brass	6.4	435	0.2	9	6.6	444
Copper	..	(a)	..	(a)	0.3	24
Other metals	1.3	31	0.1	5	1.4	36
Work done (d)		33		-		33
Total		74,930		6,368		81,298

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

(b) Excluding shoe rivets, tubular rivets and bifurcated rivets manufactured from wire.

(c) So far as recorded separately.

(d) Amount charged.

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Purchased materials and fuel

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000
Materials						
Iron						
Bars and rods	..	(a)	..	(a)	31.7	912
Wire	0.3	10	-	-	0.3	10
Other kinds	2.8	153	-	1	2.8	154
Steel						
Bars	426.2	11,264	85.8	1,833	512.0	13,097
Wire rods	..	(a)	..	(a)	18.4	537
Wire	128.7	4,522	8.7	250	137.4	4,772
Ingots, blooms, billets and slabs	..	(a)	..	(a)	147.9	3,657
Hoop and strip	19.0	715	0.2	6	19.2	720
Other kinds	49.1	1,097	15.6	220	64.7	1,317
	..	611	..	92	..	704
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver)						
Rods, sections, shapes and angles	9.4	1,333	0.4	53	9.8	1,386
Wire	..	(a)	..	(a)	6.2	1,028
Other kinds	..	(a)	..	(a)	1.4	237
Packing materials	..	715	..	135	..	850
Consumable tools bought as replacement	..	842	..	87	..	929
Replacement parts for firms' machinery	..	712	..	85	..	797
All other purchased materials	..	4,652	..	331	..	4,983
Fuel and electricity						
Coal	149.0	399	36.8	95	185.8	493
Coke	73.2	293	5.2	20	78.4	313
	..	41	..	1	..	42

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.B.T.U. (kW.hrs.)	£'000	Th.B.T.U. (kW.hrs.)	£'000	Th.B.T.U. (kW.hrs.)	£'000
Fuel and electricity (contd.)						
Electricity purchased (b)						
From public supply	177,193	747	19,110	71	196,302	819
From other sources	3,442	11	-	-	3,442	11
Electricity obtained from other works under the same ownership						
Motor spirit (petrol) and derv. fuel	Th.galls. 3,618	181	Th.galls. 50	5	Th.galls. 3,668	186
Other oil fuel (including creosote/pitch mixtures)	15,872	599	2,171	78	18,043	677
Gas purchased	Th.therms		Th.therms		Th.therms	
From public supply	12,621 Th.cu.ft. 304,038	402 38	1,482 Th.cu.ft. 2,577	34 1	14,103 Th.cu.ft. 306,615	436 39
From other sources	..	(a)	..	(a)	Th.therms 1,260 Th.cu.ft. 170,871	34 11
Gas obtained from other works under the same ownership						
All other purchased fuel	..	43	..	17	..	60
Total		35,529		3,683		39,211

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

(b) The total quantity of electricity consumed in Great Britain was 201,795,000 B.T. units including 2,052,000 generated in the same works. Owing to the risk of disclosure of information relating to individual firms separate figures for England and Wales and for Scotland cannot be given.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	2,429	212	2,641	308	26	334	2,737	238	2,975
All ages	41,042	5,975	47,017	3,478	352	3,830	44,520	6,327	50,847
Females									
Under 18	1,561	700	2,261	122	47	169	1,683	747	2,430
All ages	21,336	4,241	25,577	1,461	218	1,679	22,797	4,459	27,256
Total									
Under 18	3,990	912	4,902	430	73	503	4,420	985	5,405
All ages	62,376	10,216(b)	72,594(b)(c)	4,939	570(b)	5,509(b)(c)	67,317	10,786(b)	78,103(b)(c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	17,490	4,507	21,997	1,289	255	1,543	18,779	4,762	23,540

(a) Number at September 25, 1948.

(b) There were, in addition, 144 working proprietors (138 males and 6 females) in Great Britain; 116 males and 5 females in England and Wales, and 22 males and 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 £594,000; £553,000 for England and Wales and £42,000 for Scotland.

In addition to the employees in the above table the firms in this trade in England and Wales employed 182 male and 509 female outworkers, the amount paid to them being £108,000. No outworkers were recorded for Scotland.

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

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	98.3	98.1	98.3	August	99.5	98.8	99.4
February	99.3	98.4	99.2	September	99.7	99.6	99.7
March	99.5	97.8	99.3	October	100.9	101.2	100.9
April	100.0	99.9	100.0	November	101.5	102.3	101.6
May	100.2	101.2	100.3	December	101.1	102.3	101.2
June	100.3	101.0	100.4	Percentage employment in this trade covered by the index	51.6	70.4	53.0
July	99.8	99.3	99.7				

(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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1952

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PRINTED IN GREAT BRITAIN

S.O. Code No. 51-312-5-3