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BOARD OF TRADE

# THE REPORT on the

CENSUS OF PRODUCTION FOR 1951

Volume 4

Trade F

CONSTRUCTIONAL ENGINEERING

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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#### \* Not applicable to this trade

#### CONSTRUCTIONAL ENGINEERING TRADE

THIS REPORT on the Constructional Engineering Trade relates to establishments engaged wholly or mainly in the manufacture of structural iron and steelwork, tubular scaffolding, and prefabricated houses of steel or aluminium, and in carrying out constructional engineering work in the United Kingdom (1951, 1949, 1946 and 1935) or in Great Britain (1948).

This trade corresponds to minimum list heading 58 in the Standard Industrial Classification. Firms engaged in similar constructional work that did not themselves make any of the material used are included in the report on the Building and Contracting Trade.

Establishments in this trade in Northern Ireland are excluded in 1948; particulars of the very small production there in this trade in 1935 are included in the report on the Mechanical Engineering (General) Trade (Volume 4, Trade I).

For the year 1950, Census of Production returns were required in Great Britain only from establishments that sold no merchanted goods during the year; other establishments (i.e. those which engaged in merchanting as well as production) made returns in the Census of Distribution only. Information for 1950 comparable to that for any other year is, therefore, not available.

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.

# ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS CONSTRUCTIONAL ENGINEERING TRADE

#### Summary

#### Larger establishments (a)

TABLE 1	IIIii had	Kingdom	Great B	ritain	United	Great
	United	Kingdom			Kingdom	Britain
	1951	1949	1949(ь)	1948	1946	1935
	£,000	£,000	£,000	£,000	£,000	£,000
Gross output (production) (c)	101,515	88,316		87,031	64.542	19,587
Cost of materials and fuel used (d)	50,593	42,999		43,001	33,666	10,511
Payment for work done on materials given out Transport payments (e)	5,844 1,668	9,248	::	9,219	2,313	335
Net output Wages and salaries of persons	43,410	36,069	•	34,811	28,563	8,741
employed	26,019	21,963	••	21.053	19,120	••
Average number of persons employed (f)	No. 62,191	No. 59,072	No.	No. 59,308	No. 64,079	No. 34.851
Net output per person employed (f)	£ 698	£ 611	£	£ 587	£ 446	£ 251
Stocks at end of year	£,000	£'000	£,000	£,000	£,000	£,000
Products on hand for sale and work in progress Materials and fuel	19.874 10,353	20,417 7,629		16.326 7.704	13.462 8,020	2,387(g)
Number of establishments	No. 416	No. 398	No.	No. 366	No.	No. 279

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

The values of grown	€,000	£,000	£.000	£,000	£, 000	£,000
Output of firms in this trade (h)  Principal products (i) Other output (j)	90,922	86,468	{	80,639 8,193	61,344 {	17.230 1.968
Changes in stocks and work in progress (k)	+ 1.910	+ 3.247		- 36	+ 3,198	+ 389(g)
	101,515	89,715		88,795	64.542	19.587
Less payment for transport outwards (e)		1,399		1.765	64,542	19,367
Gross output (production)	101,515	88,316	•	87.031	64.542	19,587
Materials and fuel used by firms in this trade						
Purchases Changes in stocks (k)	52.116 -1.523	42.850 + 149	••	42,618 + 383	36,937 - 3,271	10,511
Materials and fuel used	50,593	42,999		43,001	33,666	10,511

(a) For small firms' summary see Table 2.

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate

transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

(d) Amounts paid for delivery services are excluded for 1951 but included for other years.

(e) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(f) Excluding outworkers but including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

(g) Work in progress only.
(h) Total value of sales (1951, 1949, 1948 and 1946) or production for sale (1935).

(i) For details for 1951 and 1948 see Table 8.
(j) For details for 1951 and 1948 see Table 10.

(k) For details for 1951 see Table 21.

CONSTRUCTIONAL ENGINEERING

# Summary Small firms (a)

TABLE 2

	Great Britain	United Kingdom	Great Britain		
	1951	1949	1949	1948	
Number of returns  Average number of persons employed (b)	105	57	57	61	
Males Females	673 55	367	367 28	407 25	
Total	728	395	395	432	

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951.

(b) Including working proprietors.

# Estimated average employment (a)

#### All firms

	United Ki	ngdom	Great Britain	
	1951	1949	1949	1948
As returned by firms				
Employing on the average more than ten persons (b) Employing on the average ten or fewer persons (d)	62,191 728(e)	59,072 395	(c) 395	59,308 432
	62,919	59,467	(c)	59,740
Estimated average employment in firms not making satisfactory returns	343	48	48	292
Estimated average employment in all firms	63.262(e)	59,515	(c)	60,032

(a) Including working proprietors.(b) See Tables 13 (iv) and 14.

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.
(d) See Table 2.

(e) Excluding any small firms in Northern Ireland.

#### Analysis by size, 1951

#### Larger establishments in the United Kingdom

TABLE 4

Average number employed				Remuneration				
	Establish- ments	Gross output	Net Persons employed	Operatives	Other employees (a)	Total	Net output per person employed	
	No.	£,000	£,000	No.	£.000	£'000	£'000	£
11 - 24	85	2.100	989	1.579	449	154	603	627
25 - 49	91	4,468	2.210	3,326	967	333	1,300	665
50 - 99	102	11.614	5,198	7.291	2,228	825	3,053	713
100 - 199	65	14,019	6,394	8,841	2,655	1.001	3,655	723
200 - 299	27	10,443	4,518	6,729	1,982	796	2,778	671
300 - 399	11	6,171	2,840	3.729	1,101	524	1,624	762
400 - 499	6	4.630	1.709	2,677	752	370	1.121	639
500 - 749	13 7	12,683	5,569	7,677	2,349	976	3,325	725
750 - 999	7	10,365	4,802	6.083	2,009	672	2,681	789
1.000 - 1.499	4	9.890	3,477	4.644	1.526	440	1,967	749
1,500 and over	5	15,132	5.701	9,615	2.877	1,035	3,912	593
Total	416	101,515	43,410	62,191	18,895	7,125	26,019	698

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE 5

			Net ou	tput		F	lemuneration		Net output
Region	Estab- lish- ments Gross output Va	Value	Percent- age of total	Persons employed	Operatives	Other employees	Total	per person employed	
England and Northern	No.	£,000	£,000		No.	£.000	£.000	£,000	£
Northern	28	11,694	4,902	11.3	7,959	2,552	666	3,217	616
East and West Ridings	39	7,287	2,959	6.8	3,912	1,110	524	1,634	7 56
North Midland and Northern Ireland	23	4.428	1,678	3.9	2,574	784	260	1,044	652
Eastern	14	2,924	1,246	2.9	1,888	548	198	746	660
London and South Eastern	111	19,415	9,578	22.1	13,085	4,116	1,633	5,749	732
Southern	12	1,034	404	0.9	676	187	88	276	598
South Western	17	8,918	3,152	7.3	3,831	1,165	418	1,583	823
Midland	69	11.771	5,345	12.3	7,108	2,245	802	3,047	7 5 2
North Western	54	19,599	7,557	17.4	11,055	3,119	1,472	4,592	684
Total England and Northern Ireland	367	87,068	36,822	84.9	52,088	15,826	6,062	21,888	707
Wales	10	2,214	1,190	2.7	1,658	587	144	732	718
Scotland	39	12,233	5,398	12.4	8,445	2,481	918	3,400	639
United Kingdom	416	101,515	43,410	100.0	62,191	18,895	7,125	26,019	698

(a) Administrative, technical and clerical employees.

TABLE 6 - Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

No specialisation within this trade was distinguished.

Total make of certain intermediate products

Larger establishments in the trade

TABLE 7

		United Kingdom 1951	
	Quantity	Entries	Quantity
	Th. tons	No.	Th. tons
Other than principal products			
Castings			
Of iron, including malleable iron (a)	2.4	5	8.4
Of non-alloy steel (b)	-	-	•
Of alloy steel (b)	0.7		-
	Th. cwts.		Th. cwts.
Of brass and other alloys of copper (c)	0.5	• •	0.7
Of aluminium (d)	0.1		-

(a) For total output returned in all trades see the Iron Foundries Trade (Volume 3.

(b) For total make returned in all trades see the Iron and Steel (Melting and Rolling)
Trade (Volume 3, Trade B).

(c) For total output returned in all trades see the Brass Manufactures Trade (Volume 5.

Trade F).

(d) For total output returned in all trades see the Non-Ferrous Metals (Smelting, Rolling, etc.) Trade (Volume 3, Trade G).

Sales and work done ('principal products' of the trade), including sales and similar work done by establishments classified to other trades

Larger establishments

TABLE 8

	Uni	ted Kingdom 1951		Great B 194	
	Sales (a)			Sale	s (a)
	Quantity	Value	Entries	Quantity	Value
	Tons	£,000	No.	Tons	£,000
Staircases of iron and steel	5.948	618 226	} 135 {	5,121	391(b) 282
Tubular scaffolding of steel and aluminium, including fittings	11,229	1,111(c)	20 {	3,592	466 (b) 122
Steel rolling shutters	4.420	747 289	} 17 {	3,157	427(b) 261
Temporary or prefabricated steel house framework and frame sections of steel	6,973  No.	529 451	33 {	33,113  No.	2.024(b) 2.293
Prefabricated houses of aluminium	3,088	3,349	5	17,569	21.079(b) 69
Prefabricated buildings, other than houses and portable buildings, and fabricated components for constructional engineering, of aluminium and light alloys (b)		2,557	5	Agent and track	898
Portable buildings (garages, poultry houses, etc.), complete, and framework and frame sections therefor (b)	Tons			Tons	
Of iron and steel	655	121 ,326	} 16		474
Of aluminium	75	. 60 308	} 7		361
Glazing bars (b)					
Iron and steel	522	98	5	108	21 37
Aluminium	498	445 94	} 7	1,163	342 43
Lead or lead clothed	3,146	472 392	10	3,125	334 85
Iron or steel fabricated				property for	
Bridge components	16.341	1,189	54	35,947	1,954
Mast and tower components	17,184	1.207 264	} 49	21,658	1,211
Steel shuttering, including road forms	9,530	768 256	} 42	5,469	317 154
Other descriptions, not elsewhere specified	625.289	38,283	553	579,624	26.110 4,695
Unclassified	39,218	1,988	} 41	31,867	1.881
Total goods, including goods made or fabricated and used by the same firms in constructional engineering work shown below	Majora (S)	67.183		AL CHARLES ALBERTAN DELCH ARREST DESCRIPTION	67,609
	Value of	work done		Value of	work done
		.000			ε.000
Constructional engineering, etc. work carried out					
Work done as main contractors (d)					
New building construction			F 1907 9 1	SHEET BELLEVILLE	
Permanent fabricated houses	3	,543		1	9,431
Other purely residential houses, including		147	19		314

TABLE 8 (contd.)

	United Kingdo 1951		Great Britain 1948		
	Value of work done	Entries	Value of work done		
Constructional engineering, etc. work carried out (contd.)	£.000	No.	£,000		
Work done as main contractors (d) (contd.)					
New building construction (contd.)					
Electric power stations	4,553	52	h		
Gasworks	3,833	41			
Petrol filling stations, repair and other garages	330	65	15,695		
Factories and workshops, not included above	16,431	186	J		
Warehouses and storage premises	1.795	105	1.086		
Department stores and shops, including those combined with dwellings	16(ь)	5	54		
Office buildings	249(b)	10	529		
Public buildings (buildings owned by Government, Local and other Public Authorities) except dwellings, schools, hospitals, offices and	230(ь)	12	439		
factories			510		
Schools and college buildings	1.677(Ь)	30	210		
Other new buildings, including buildings on airfields	2,883	1 03	2,392		
Work done on buildings, other than new construction	1,549	87	1.284		
Unclassified new building construction and other work on buildings	2.493	18	1,009		
Civil engineering					
On railways and light railways (permanent way, tunnels, bridges, etc.)	625	21	508		
On harbours, wharves, docks and piers, canals and waterways, sea walls and embankments	329	19	354		
On waterworks (reservoirs, aqueducts, wells,	95	16	430		
mains, hydraulic works, etc.)	947	14	3.308		
On gas mains and works	38	6	148		
On electric lines and works	329(b)		40		
On highways (roads, bridges, drains, etc.)	12,632	41	10,324		
Other civil engineering work	12,032				
Work done as sub-contractors			president a level of the		
Work on buildings	2,509	48	1,224		
Patent glazing Structural steelwork	13.028	190	7,906		
	59	10	48		
Reinforced concrete	2.231	70	503		
Other		84	709		
Other work done as sub-contractors Unclassified constructional engineering work	2.281	"	703		
carried out as main contractors	3,877	48			
Unclassified constructional engineering work carried out as sub-contractors	3,616	43	5.176		
Unclassified constructional engineering work carried out as main or sub-contractors	2,628	13	)		
Total constructional engineering, etc. work	84,953	•••	73,420		
Less total value of goods made or fabricated in firms' own works and used in the work	41,434	369	47.575		
Total constructional engineering, etc. work, exclusive of goods made and used by firms	43,519		25,845		
Total principal products of this trade	110,702		93.454		
Sales and work done in other trades (see Table 9)	19.780		12.815		
Sales and work done (principal products of this trade) by establishments in the trade	90,922	387	80,639		

<sup>(</sup>a) Including goods made or fabricated by the firms and used by them in constructional engineering, etc. work
(b) So far as recorded separately.
(c) Including sales of aluminium tubular scaffolding, so far as recorded separately.
(d) Including any work done for firms that do not make a Census of Production return.

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Sales and work done ('principal products' of the trade) by establishments classified to other trades Larger establishments

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	Un	ited Kingdon 1951	Great F			
		Sales (a)		Sales (a)		
	Quantity	Value	Entries	Quantity	Value	
	Tons	£,000	No.	Tons	£,000	
Staircases of iron and steel	1,438	164 20	} 50 {	1.512	121 69	
Tubular scaffolding, of steel and aluminium, including fittings	4.264	519	9	1,911	172 33	
Steel rolling shutters	2,035	247	7	2,526	324 32	
Temporary or prefabricated steel house framework and frame sections of steel	2.689	227 56	15	7.074	479 843	
Prefabricated houses of aluminium	h	in made a				
Prefabricated buildings, other than houses and portable buildings, and fabricated components for constructional engineering, of aluminium and light alloys  Portable buildings (garages, poultry houses, etc.), complete, and framework and frame sections therefor		315	5	6	510	
Of aluminium	Į.	C. STORES ON			31	
Of iron and steel	251	52 19	} 6	]		
Glazing bars	781	445 99	8 .	1,139	29 14	
Iron or steel fabricated		No. of the last				
Bridge components	1.813	151 214	18	3,176	19	
Mast and tower components	1,110	56 158	15	V		
Steel shuttering, including road forms	1,653	154 205	21	468	5	
Other descriptions, not included elsewhere	42,629	3.144 2.040	224	22,129	1.50	
Unclassified	39.128	1.964 260	39	12.780	79 81	
Total goods, including goods made or fabricated, and used by the same firms in constructional engineering work	1000 PX100	10.512			7.00	
shown below		10.510			7,38	

TABLE 9 (contd.)

	United Kingdo 1951	om.	Great Britain 1948
	Value of work done	Entries	Value of work done
Constructional engineering, etc. work carried out	£'000	No.	£,000
Work done as main contractors			
New building construction			
Permanent prefabricated houses, and other purely residential houses, including flats and tenements	15	7	48
Electric power stations	227	8	
Gasworks	1,747	10	
Petrol filling stations, repair and other garages	6	5	2,044
Factories and workshops, not included above	562	42	
Warehouses and storage premises	92	17	
Department stores and shops, including those combined with dwellings	Surveyore Labracania	-	13
Office buildings		- 1	4
Other new buildings, including buildings on airfields, public buildings (buildings owned by Government, Local and other Public Authorities) except dwellings, hospitals, offices and	and recognition of the same		
factories; and schools and college buildings	598	30	187
Work done on buildings, other than new construction	251	19	152
Unclassified new building construction and other work on buildings	159	7	17
Civil engineering			
On waterworks (reservoirs, aqueducts, wells, mains, hydraulic works, etc.)	76	7	160
Other, including civil engineering work on railways, and light railways (permanent way, tunnels, bridges etc.), harbours, wharves, docks and piers, canals and waterways, sea walls and embankments, gas mains and works, and electric lines and works	675	26	5.631(b)
Work done as sub-contractors			
Work on buildings			
Structural steelwork	429	38	642
Other including patent glazing, and reinforced concrete	255	16	49
Other work done as sub-contractors	272	27	157
Unclassified constructional engineering work carried out as main contractors	3.877	48	
Unclassified constructional engineering work carried out as sub-contractors	3,616	43	5,176
Unclassified constructional engineering work carried out as main or sub-contractors	2,628	13	
Total constructional engineering, etc. work	15,483		14,280
Less total value of goods made or fabricated in firms' own works and used in the work	6,213	103	8,853
Total constructional engineering, etc. work, exclusive of goods made and used by firms	9,270		5,427
			PROPERTY OF THE PROPERTY OF TH
Total	19,780	••	12,815

<sup>(</sup>a) Including goods made or fabricated by the firms and used by them in constructional engineering work.
(b) Including work on highways (roads, bridges, drains, etc.).

Sales in the trade of other than principal products (a)

Larger establishments

Machinery and plant, including parts	in
Agricultural machinery Agricultural machinery Air conditioning, heating and ventilating plant and appliances Boilers and boiler-house plant (excluding hollers for ships or locomotives) Chemical and as making machinery and plant Machine tools (other than portable power tools) Machanical handling equipment Mining machinery Civil engineering and contracting machinery and plant Other machinery and plant Iron and steel Tons Castings Tons Tons Tons 1.135 62 1.359 1.135 62 1.359 1.135 62 2.354 1.61 2.290 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.7	Value
Agricultural machinery   238       Air conditioning, heating and ventilating plant and appliances   174       Boilers and boiler-house plant (excluding hollers for ships or locomotives)     45       Chemical and agricultural machinery and plant     632       Machanical handling equipment     968       Mining machinery     71       Civil engineering and contracting machinery and plant     1.262     Tons           Castings           Forgings, stampings and pressings           Forgings, stampings and pressings           Forgings, stampings and casements of metal           Forging materials of cast or wrought iron (other than fencing wire)           Door and window frames and casements of metal           Heavy plate work, not included elsewhere           Forts and accessories of motor vehicles           Total goods           Total goods           Total goods           Total work done other than constructional         Total work done other than constructional     .	£'000
Air conditioning, heating and ventilating plant and appliances   174   174   175   174   175	
Door and window frames and casements of metal   Cast and window frames and casements of metal   Cast and accessories of motor vehicles   Cast and constructional   Cast	132
Society for ships or locomotives	34
Machine tools (other than portable power tools)          160            968            71             71 <td>108</td>	108
Mechanical handling equipment          968            Mining machinery          71            Clvil engineering and contracting machinery and plant          210            Other machinery and plant          1,262            Iron and steel         Tons         Tons            Castings         1,135         62         3,559            Forgings, stampings and pressings         2,354         161         2,290 <td< td=""><td>226</td></td<>	226
Mining machinery Civil engineering and contracting machinery and plant  Other machinery and plant  Castings  Forgings, stampings and pressings  Forging materials of cast or wrought iron (other than fencing wire)  Door and window frames and casements of metal  Heavy plate work, not included elsewhere Other goods  Total goods  Total goods  Cother metals  Total goods  Total work done other than constructional	241
Civil engineering and contracting machinery and plant     1.262	571
Other machinery and plant  Other machinery and plant  Iron and steel  Castings  Forgings, stampings and pressings  Forging materials of cast or wrought iron (other than fencing wire)  Door and window frames and casements of metal  Heavy plate work, not included elsewhere Parts and accessories of motor vehicles Other goods  Total goods  Scrap metals sold  Iron and steel  Other metals  Work done other than constructional engineering (b)  Repair work Other  Total work done other than constructional  Total work done other than constructional	121
Other machinery and plant	379
Castings	
Forgings, stampings and pressings  Forgings, stampings and pressings  Fencing materials of cast or wrought iron (other than fencing wire)  Door and window frames and casements of metal  Heavy plate work, not included elsewhere  Parts and accessories of motor vehicles  Other goods  Total goods  Total goods  Scrap metals sold  Iron and steel  Other metals  Work done other than constructional  engineering (b)  Repair work  Other  Total work done other than constructional	
Fencing materials of cast or wrought iron (other than fencing wire)  Door and window frames and casements of metal  Heavy plate work, not included elsewhere  Parts and accessories of motor vehicles  Other goods  Total goods  Total goods  Iron and steel  Other metals  Work done other than constructional  Total work done other than constructional  Total work done other than constructional  Total work done other than constructional	187
(other than fencing wire)        4          Door and window frames and casements of metal       2.153       526       1.975          13           Heavy plate work, not included elsewhere       4.314       265       15.309       1         Parts and accessories of motor vehicles        67          Other goods        1.931        3         Total goods       7.183       7         Scrap metals sold       Th.tons       Th.tons       50.1       207       50.4         Other metals        59       1.3          Work done other than constructional engineering (b)       889       889         Other       343       343	148 19
Door and window frames and casements of metal   2.153	151
Heavy plate work, not included elsewhere	209
Parts and accessories of motor vehicles	97
Other goods        1.931        3         Total goods       7.183       7         Scrap metals sold       Th.tons       Th.tons         Iron and steel       207       50.4         Other metals        59         Work done other than constructional engineering (b)       889         Other       343         Total work done other than constructional       343	1,003
Total goods	113
Scrap metals sold  Iron and steel  Other metals  Work done other than constructional engineering (b) Repair work  Other  Th.tons  50.1  207  2  1.3   889  Other	3,056
Iron and steel  Other metals  Work done other than constructional engineering (b) Repair work Other  Total work done other than constructional	7.057
Other metals  Other metals  Other metals  Total work done other than constructional  Total work done other than constructional	
Work done other than constructional engineering (b) Repair work Other Total work done other than constructional	172
engineering (b) Repair work Other Total work done other than constructional	60 57
Repair work Other Total work done other than constructional	
Other 343  Total work done other than constructional	428
	419
	847
Total 8.683 8	8,193

<sup>(</sup>a) Including goods made or fabricated by firms and used by them in constructional engineering work.
(b) Amount charged.

28,127

TABLE 11 - Production, exports and imports of certain principal products This table is not applicable to the trade.

Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

Materials used	Quantity
	Th.tons
Iron	Committee of the same
Pig iron	2.4
Iron castings in the rough	3.4
Wrought iron in all forms, except finished parts	1.4
Non-alloy steel	STATE STATE
Ingots, billets, blooms and slabs	3.4
Angles, shapes and sections	334.0
Girders, joists, beams and pillars (not fabricated)	283.8
Bars and rods	51.7
Hoop and strip (including tape)	7.5
Tin-, terne-, and black-plates and sheets	6.3
Other plates and sheets	
1/8 in, thick and over	151.2
Under 1/8 in. thick	15.5
Tubes and fittings	11.2
Wire (single wire)	2.1
Forgings in the rough, other than drop forgings	0.3
Drop forgings	1.1
Castings in the rough	0.7
	0.7
Alloy steel (including high-speed steel)	
Ingots, billets, blooms, slabs, bars, rods, angles, shapes, sections, girders, joists and pillars (not fabricated)	0.6
Plates, sheets and strip	
1/8 in. thick and over	0.2
Under 1/8 in, thick	0.2
Tubes and fittings	0.2
Wire (single wire)	-
Forgings and castings in the rough	
Ion-ferrous metals in all forms (except finished parts)	Th.cwts.
Aluminium and aluminium alloys	330.0
Antimony	
Brass and other copper alloys, including nickel silver but excluding other nickel alloys	5.3
Copper	2.3
Lead and alloys of lead	92.8
Tin	-
Zinc and alloys of zinc	22.0
'imber (other than reclaimed), including that used for packing or packing case manufacture but excluding joinery, other fabricated woodwork and purchased packing cases	Th.cu.ft.
Hardwood	77.1
Softwood	1.259.9

Employment in September Larger establishments (a)

TABLE 13

(i) Operatives Number United Kingdom Great Britain 1951(b) 1949(b) 1949(c) 1948(d) 1935(d) Under 18 All ages 2.128 45,835 45,593 28,015 Females Under 18 All ages 22 867 1,256 1.629 112 Total Under 18 2.150 2,182 2.025 3.070 All ages 47,091

(ii) Administrative, technical and clerical employees (e) Number United Kingdom Great Britain 1951 1949 1949(c) 1948 1935 Males Under 18 11.107 All ages 9,914 9,391 5,668 .. Females Under 18 All ages 3.057 2,757 2,657 1,056 Total Under 18 1.285 14.164(f) 1,186 1.159 12.048(f) 726 6,724 All ages 12,671(f)

	United Kingdom		Great Britain			
	1951	1949	1949(c)	1948	1935	
Males						
Under 18	2,967	2,901		2,702	3,626	
All ages	55.927	55.749		54,984	33,683	
Females						
Under 18	468	467		482	170	
All ages	3.924	4,013	••	4,286	1,168	
Total						
Under 18	3.435	3,368		3.184	3,796	
All ages	59,851(f)	59,762(f)		59,270(f)	34,851	

(a) Excluded employees. 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 (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers):-

> 14 Males 726 Males Canteen workers 361 Females

Total

Other workers 726 Males 239 Females

Other workers 726 Males 239 Females

(b) In week ended September 22, 1951, and September 24, 1949.

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(d) Average for the year.

(e) In week ended September 22, 1951, September 24, 1949, September 25, 1948, and October 12, 1935.

(f) Working proprietors. In addition working proprietors, shown in Table 13 (iv) below, were engaged in this trade in larger establishments. The 1935 figures include working proprietors.

45

47

38

(iv) Working	proprietors			Number
	United	Kingdom	Great B	ritain
	1951	1949	1949(c)	1948
Males	44	44		37

#### Average employment

#### Larger establishments (a)

TABLE 14					Number		
	United	Kingdom		Great Britain			
	1951	1949	1949(ь)	1948	1935		
Operatives Administrative, technical and	47.931(c)	46,506		47,222(c)	28,127		
clerical employees	14,215	12,519		12,048(d)	6.724(d)		
Total	62,146	59,025		59,270	34,851		

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate

particulars for Great Britain cannot be given.
(c) Including 16,642 operatives (1951) and 10,567 operatives (1948) employed in Great Britain on outside work

of erection, fitting, etc. Similar information for other years is not available.

(d) In week ended September 25, 1948, and October 12, 1935. The 1935 figures include working proprietors.

Outworkers. In 1949, 3 outworkers were employed in this trade in addition to the employees shown above. Outworkers were not recorded in other years.

# Shift working, 1951 (a)

#### Larger establishments in Great Britain

TABLE 15

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift Continuous 4 shift systems per 24 hours	222	1.776	1
averaging 6 hours per shift			
All 2 shift systems	20,822	199,120	14
Other shift systems	-		
Total	21,044	200,896	(b)

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

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

A CONTROL OF THE PROPERTY OF THE PARTY OF TH	Ret	urns		Operatives			
	Total in trade	Showing. shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work		
Number Percentage of total in trade Percentage of total on returns showing shift-work	100.0	15 4.0(c)	100.0	5.070 11.0(c) 100.0	4,148 9.0(c) 81.8		

(c) Rounded to avoid disclosure.

# Wages and salaries and employers' National Insurance contributions paid during the year

Larger establishments

	United	United Kingdom		Britain
	1951	1949	1949(a)	1948
Wages and salaries (b) of		The second second		
Operatives Administrative, technical and	18,895	16,439	••	15,968
clerical employees	7,125	5,524	••	5,085
Total	26,019	21,963		21,053
Employers' contributions to all National Insurance Schemes	640	609		490

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate

particulars for Great Britain cannot be given.

(b) Including bonus and commission payments but excluding in 1949 a negligible amount paid to outworkers. Outworkers were not recorded in other years.

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

#### Larger establishments

	United I	Kingdom	Great Britain	
	1951	1949	1949(a)	1948
lant, machinery and vehicles Acquisitions Plant and machinery				
New	905	786		638
Second-hand	122	83		192
Vehicles			reflections, the	102
New	298	180		130
Second-hand	128	68	••	57
Total acquisitions	1,453	1,117		1,017
Disposals		A STREET HOW S. MICH.	Port Hall Street Tools 1983	
Plant and machinery	24	33		71
Vehicles	80	68		71 22
Total disposals	105	101		94
ew building work Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	411	416		

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

#### CONSTRUCTIONAL ENGINEERING TRADE

1951

#### Summary

#### Larger establishments

TABLE 18

	England (a)	Wales	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
	£,000	£'000	£,000	£,000	£,000	£'000
Gross output (production)	87,068	2,214	12,233			101,515
Cost of materials and fuel used Payment for work done on materials	43,801	978	5,814	•••		50,593
given out Transport payments	5,101 1,344	3 43	741 281			5.844 1,668
Net output Wages and salaries of persons employed	36.822 21.888	1.190 732	5.398 3,400			43,410 26,019
	No.	No.	No.	No.	No.	No.
Average number of persons employed (b)	52,088	1,658	8,445			62,191
	£	£	£	£	£	£
Net output per person employed (b)	7 07	718	639			698
	£'000	£,000	£,000	£,000	£'000	£,000
Stocks at end of year	DE TREETERS OF			CAR CONTRACTOR CONT		
Products on hand for sale and	14 679	977	4 000			10.004
work in progress Materials and fuel	14,673 8,967	182	1,204			19,874
	No.	No.	No.	No.	No.	No.
Number of establishments	367	10	39			416

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

	£,000	£,000	£,000	£,000	£,000	£,000
Output of firms in this trade,						
Total value of sales (see Table 20)	85,308	2,096	12,201			99,605
Changes in stocks and work in progress (see Table 21)	+ 1.759	+ 118	+ 33			+ 1,910
Gross output (production)	87,068	2,214	12,233	***		101,515
Materials and fuel used by firms in this trade					27 0.41 22 2.0	•
Purchases	45,003	978	6,135			52,116
Changes in stocks (see Table 21)	-1,202	•	- 321	••	•••	-1,523
Materials and fuel used	43,801	978	5,814			50,593

<sup>(</sup>a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland, where net output was less than 1 per cent, of that of the United Kingdom, cannot be given separately and have been included with those for England.

(b) Including working proprietors.

#### Summary

# Small firms in Great Britain (a)

TABLE 19

The second secon	England	Wales	Scotland	Great Britain
Number of returns	95	3	7	105
Average number of persons employed (b)	1			
Males Females	595 49	26 -	52 6	673 55
Total	644	26	58	728

<sup>(</sup>a) Small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns.

<sup>(</sup>b) Including working proprietors.

TABLE 20

	England	and Wales	Scot	land	Great	Britain	Northern	Ireland	United	Kingdom
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Ton s	£,000	Tons	£,000	Tons	£, 000		£,000	Tons	£,000
Principal products										444
Staircases of iron and steel	4,462	451 207	} 47	4	4,510	455 207	} -	- {	4,510	455 207
Tubular scaffolding of steel and aluminium, including fittings	6,965	592	-		6,965	592	-	-	6,965	592
Steel rolling shutters	2,385	500 289	} -	- {	2,385	500 289	} -	- {	2,385	500 289
Temporary or prefabricated steel house framework and frame sections of steel	3.982	285 324	302	17 70	4,284	302 395	} -	- {	4.284	302 395
Prefabricated houses of aluminium										
Prefabricated buildings, other than houses and portable buildings, and fabricated components for constructional engineering, of aluminium and light alloys (c)		5,959	• •			5,959	•	•		5,959
Portable buildings (garages, poultry houses, etc.), complete, and framework and frame sections therefor (c)										
Of aluminium	J.									
Of iron and steel	404	69 307	} -	- {	404	. 69 307	} -	- {	404	69 307
Glazing bars (c)		(a)		(a) {	3,385	569 519	} -	- {	3.385	569 519
Iron or steel fabricated										
Bridge components	12.813	904 19	1.715	133 {	14.528	1,038	} -	- {	14.528	1,038
Mast and tower components	10,276	721 106	5.798	430 {	16,074	1,151	} -	- {	16,074	1,151
Steel shuttering, including road forms		(a)		(a) {	7.877	614 52	} -	- {	7.877	61 4 52
Other descriptions, not included elsewhere	474,470	28.690(b) 6.790	108,190	6.449	}	•		(b) {	582,660	35.139 7.294
Unclassified	90	24		1,075 {	90	24 1.075	} -	- {	90	24 1,075
Total goods, including goods made or fabricated and used by the same firms in constructional engineering work shown below		47.802(b)		8,871	9	•••		(b)		56,673

	England	and Wales	Scot	land	Great Britain		Northern Ireland		United Kingdom	
A the state of the	Quantity	Value of work done	Quantity	Value of work done	Quantity	Value of work done	Quantity	Value of work done	Quantity	Value o work don
Principal products (contd.)		£,000		£, 000		£, 000		£,000		£,000
Constructional engineering, etc. work carried out					2.953					
Work done as main contractors			272.88	120	160460				100 100 100	
New building construction										10
Permanent prefabricated houses and other purely residential houses, including flats and tenements		(a)			14. 战性				14 738	
Electric power stations		(a)		(a)		3,676				3,676
Gasworks		(a)		(a) (a)		4,327				4.327
Petrol filling stations, repair and other garages	4318	217		107	100	324		•	100	2.087
Factories and workshops, not included above		11,340(b)		4.529				(b)		324
Warehouses and storage premises		1,419(ы)		283				(b)		1,703
Department stores and shops, including those combined with dwellings (c)		16				16		•		1.703
Office buildings (c)		(a)		(a)		249				249
Other new buildings including buildings on airfields; public buildings (buildings owned by Government, Local and other Public Authorities) except dwellings, hospitals, offices and factories; and schools and college buildings	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3,664(b)		529				(ь)	7 30	4,193
Work done on buildings, other than new construction		1.174		124		1.298				1,298
Unclassified new building construction and other work on buildings	1 - 40	2,334				2,334				2.334
Civil engineering							-		300	
On waterworks (reservoirs, aqueducts. wells, mains, hydraulic works, etc.)	i de ce are	(a)	(mar)	(a)	Town and	18				18
On highways (roads, bridges, drains, etc.) (c)	Total Constitution of	329				329	Not the		1 1000	329
Other, including civil engineering work on railways and light railways (permanent way, tunnels, bridges, etc.), harbours, wharves, docks and piers, canals and waterways, sea walls and embankments, gas mains and works, and electric lines and works		13,388	one mark	5 08	100 Tu	13.896				13,896

Work done as sub-contractors											
Work on buildings											
Structural steelwork		11,651(b)		948				(P)		12,599	
Other, including patent glazing and reinforced concrete		(a)		(a)				(a)		4,545	
Other work done as sub-contractors		(a)		(a)				(a)		2,009	
Total constructional engineering, etc. work		61,146(ь)		8,324				(b)		69,470	
Less total value of goods made or fabricated in firms' own works and used in the work		29,548(b)		5,673				(b)		35,220	
Total constructional engineering, etc. work, exclusive of the value of goods made and used by firms		31,598(b)		2,651				(b)		34.249	CONSTRUCTIONAL
Total principal products		79,400(b)		11,522			4	(b)		90,922	ISI
rotal principal products		Value		Value		Value		Value		Value	RU
		01000		£,000		£.000		£'000		£,000	CI
Other output		£,000		£ 000		£ 000		2 000			IO
Machinery and plant, including parts											AN
Agricultural machinery		(a)		(a)		238	•	•	••	238	
Air conditioning, heating and ventilating plant and appliances		174				174	•			174	ENGINEERING
Boilers and boiler-house plant (excluding boilers for ships or locomotives)		45		•		45	•	-		. 45	NEE
Chemical and gas making machinery and plant		(a)		(a)		632		-	••	632	RIN
Civil engineering and contracting machinery and plant		210	-	-		210	-	-	•••	210	
Machine tools (other than portable power tools)		160		* -		160			••	160	COUNTRY
Mechanical handling equipment		(a)		(a)		968	•		••	968	TR
Mining machinery		71	•	•		71	•	•	••	71	
Other machinery and plant		1.154		109		1,262	•			1,262	TA
Iron and steel	Tons				Tons				Tons		TABLES
Castings	1,135	62 11	-	- {	1,135	62 11	} -	- {	1,135	62	ES
Forgings, stampings and pressings		(a)	•••	(a) {	2,354	161 27	} -	- {	2,354	161	

	England	and Wales	Scot	Scotland		Britain	Northern	Ireland	United 1	Kingdom
	Quantity	Value	Quantity	*Value	Quantity	Value	Quantity	Valjue	Quantity	Value
program there respect the bear are good.	Tons	£'000	Tons	£, 000	Tons	£, 000		£,000	Tons	£,000
ther output (contd.)										
Fencing materials of cast or wrought iron (other than fencing wire)		(a)	••	(a) {	3,243	228	} .	- {	3,243	228
Door and window frames and casements of metal	2,126	521 13	27	5 {	2,153	526 13	} -	- {	2,153	526 13
Heavy plate work, not included elsewhere		(a)		(a) {	4,314	265 128	} -	- {	4,314	265 128
Parts and accessories of motor vehicles		67	-			67	-			67
Other goods		1,885		46		1,931				1.931
Total goods (other output)		6.758		425		7,183		•		7,183
Scrap metals sold	Th.tons		Th.tons						Th.tons	
Iron and steel	42.3	172(b)	7.8	35 1	}	••	•••	(ь) {	50.1	207
Other metals		54		4		59		•		59
Work done, other than constructional engineering (d)										
Repair work		680		209		889				889
Other		338		5		343		•		343
Total work done, other than constructional engineering		1,018		214		1,233		•		1,233
Total		87,405(b)		12,201				(b)		99,605

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.
(c) So far as recorded separately.

(d) Amount charged.

# Stocks of products on hand for sale and work in progress, and stocks of materials and fuel

## Larger establishments

TABLE 21

£.000

New York		England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Products on hand for sale	at beginning of year at end of year	1,340 1,529	109 176		.:	1,449
Work in progress	at beginning of year at end of year	12.434 14.122	4.081			16,515 18,168
	time indigent as a convey of a convey of the	3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rae and and			
Total products on hand		Appet to the last				
for sale and work in	at beginning of year at end of year	13,773	4,190	000000000000000000000000000000000000000	Name of the state of	17,964
progress	at end of year	15,651	4,223			19.874
Materials and fuel	(at beginning of year	7,947	882			8.829
materials and fuel	at beginning of year at end of year	9,149	1,204		0 30 000 000	10,353

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

#### Employment in September

TABLE 22

Larger establishments (a)(b)

(i) Operat	tives				Numbe
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	1,697(c)	431		(c)	2,128
All ages	38,469(c)	6,351		(c)	44.820
Females					
Under 18	13	9	22	-	22
All ages	771	96	867	-	867
Total					
Under 18	1,710(c)	440		(c)	2.150
All ages	39,240(c)	6,447		(c)	45,687

(ii) Administrative, technical and clerical employees

Number

	England and Wales	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	713	126			839
All ages Females	9,661	1.446	Ann District		11,107
Under 18	391	55			446
All ages	2,651	406			3,057
Total Under 18	1,104	181	220.00	Park May when	1,285
All ages (d)	12,312	1,852			14,164

(continued overleaf)

TABLE 22 (contd.)

4/F/21

£'000

105

411

# CONSTRUCTIONAL ENGINEERING COUNTRY TABLES

# Wages and salaries and employers' National Insurance contributions paid during the year

#### Larger establishments

(iii) Total en	mployees		A CONTRACTOR OF THE PARTY OF TH		Number
	England and Wales	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males Under 18 All ages	2,410 48,130	557 7,797	::	::	2,967 55,927
Females Under 18 All ages	404 3,422	64 502	:	::	468 3,924
Total Under 18 All ages (d)	2,814 51,552	621 8,299	:: 1	::	3.435 59.851

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers) are shown in Table 22(v) below.

(b) Number employed in the week ended September 22, 1951.

(c) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(d) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

(iv) Working	proprietors				Number
new chart ver a	England and Wales.	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males Females	37 1	7	::	::	44
Total	38	7			45

Total	38	7	••	•••	45
(v) Excluded	employees				Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Canteen workers					
Males Females	14 335	26	14 361		14 361
Total	349	26	375		375
Other workers					
Males	704	22	726		726
Females	236	3	239	•	239
Total	940	25	96 5	-	965
Total excluded employees	1,289	51	1,340		1,340

### Average employment

# Larger establishments (a)

TABLE 23					Number
	England and Wales (b)	Scotland	Great Britain	Northern Ireland- (b)	United Kingdom
Operatives	41,320	6,611			47,931
Administrative, technical and clerical employees	12,388	1,827	. 200		14,215
Total	53,708	8,438		•••	62,146

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Outworkers. No outworkers were recorded in this trade.

	Wales (a)	Scotland	Britain	Ireland (a)	Kingdom	
Wages and salaries (b) of						
Operatives	16,413	2,481			18,895	
Administrative, technical and clerical employees	6,206	918			7,125	
Total	22,619	3,400	••	••	26,019	
Employers' contributions to all National Insurance Schemes	552	88			640	

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(b) Including bonus and commission payments.

TABLE 24

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

#### Larger establishments £'000 TABLE 25 United England and Great Northern Scotland Kingdom Wales (a) Britain Ireland (a) Plant, machinery and vehicles Acquisitions Plant and machinery 95 905 New . . Second-hand 21 122 . . Vehicles 298 .. Second-hand 113 128 1,304 149 1,453 Total acquisitions .. .. Disposals Plant and machinery 24 .. 72 80 .. Vehicles ..

91

13

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

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

#### Larger establishments

TABLE 26						
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Amounts paid to other firms and undertakings Amount paid or credited to firms' own separate transport organisations	1,132(α)	258		(a)	1,390	
	256	23	278	-	278	
Total	1,387(a)	281		(a)	1,668	

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

DS 7806/1/Wt.4003 K.4 5/56 CL

Total disposals

development charges)

Capital expenditure on new building and other constructional work of a capital nature (excluding site values and

New building work

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

Trade classification: Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working 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, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or parttime employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

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

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return: and consumable tools and parts for machinery purchased as replacement. 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 state the quantities 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 the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an exworks or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales 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 given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have 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: '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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