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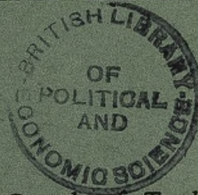
BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 4

Trade G

MECHANICAL HANDLING EQUIPMENT



*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

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MECHANICAL HANDLING EQUIPMENT TRADE

THIS REPORT on the Mechanical Handling Equipment Trade relates to establishments engaged wholly or mainly in the manufacture of cranes, lifts, hoists, elevators (other than agricultural), escalators, belt or chain conveyors (other than for mines), excavating and dredging machinery (cableway dragline and dredge, etc. excavators). The manufacture of excavating machines of a type generally associated with civil engineering and contracting plant (e.g., bulldozers, trenching, ditching and similar digging machinery) is excluded, being covered by the report on the Mechanical Engineering (General) Trade (Volume 4, Trade I).

This trade corresponds to minimum list heading 69(7) in the Standard Industrial Classification.

Any establishments in Northern Ireland were excluded in 1948; no production was recorded there in this trade for the other years shown prior to 1951.

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.

MECHANICAL HANDLING EQUIPMENT TRADE

Summary

Larger establishments (a)

TABLE 1

	United Kingdom			Great Britain	United Kingdom		
	1951	1950	1949	1948	1946	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (b)	44,076	38,835	35,134	31,291	20,868	8,482	6,018
Cost of materials and fuel used (c)	21,534	18,537	16,978	15,044(d)	9,208	3,645	2,625
Payment for work done on materials given out	249	162	181	182	280	75	35
Transport payments (e)	568	..	..	..	..	..	..
Net output	21,725	20,136	17,975	16,066(d)	11,380	4,762	3,358
Wages and salaries of persons employed	12,729	11,409	10,321	9,501	7,341	..	..
Average number of persons employed(f)	No. 31,536	No. 31,989	No. 29,910	No. 29,124	No. 25,758	No. 16,374	No. 13,832
Net output per person employed (f)	£ 689	£ 629	£ 601	£ 552(d)	£ 442	£ 291	£ 243
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	14,661	12,483	10,369	8,896	5,792	..	..
Materials and fuel	4,893	4,120	3,808	3,662	2,002	..	..
Number of establishments	No. 186	No. 177	No. 172	No. 162	No. ..	No. ..	No. 93

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

	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (g)							
Principal products (h)	35,272	37,203	34,569	24,104	19,974	7,116	4,923
Other output (i)	6,465						
Changes in stocks and work in progress (j)	+ 2,339	+ 2,053	+ 947	+ 1,642	+ 894	+ 361(k)	+ 398(k)
	44,076	39,256	35,516	31,579	20,868	8,482	6,018
Less payment for transport outwards (e)	..	421	382	288			
Gross output (production)	44,076	38,835	35,134	31,291	20,868	8,482	6,018
Materials and fuel used by firms in this trade							
Purchases	22,749	18,698	17,087	15,470(d)	9,630	3,645	2,625
Changes in stocks (j)	- 1,215	- 161	- 109	- 427			
Materials and fuel used	21,534	18,537	16,978	15,044(d)	9,208	3,645	2,625

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

(b) 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.

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

(d) Corrected figures.

(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) Total value of sales (1951, 1950, 1949, 1948 and 1946) or production for sale (1937 and 1935).

(h) For details for 1951 and 1948 see Table 8.

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

(j) For details for 1951 see Table 21.

(k) Work in progress only.

Summary

Small firms (a)

TABLE 2

	Great Britain		United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	12	14	17	17	19
Average number of persons employed (b)					
Males	84	96	105	105	121
Females	6	9	7	7	8
Total	90	105	112	112	129

(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 or 1950.

(b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	United Kingdom			Great Britain
	1951	1950	1949	1948
As returned by firms				
Employing on the average more than ten persons (b)	31,536	31,989	29,910	29,124
Employing on the average ten or fewer persons (c)	90(d)	105(d)	112	129
	31,626	32,094	30,022	29,253
Estimated average employment in firms not making satisfactory returns	10	7	-	55
Estimated average employment in all firms	31,636(d)	32,101(d)	30,022	29,308

(a) Including working proprietors.

(b) See Tables 13(iv) and 14.

(c) See Table 2.

(d) Excluding any small firms in Northern Ireland.

Analysis by size, 1951

Larger establishments in the United Kingdom

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	31	715	347	541	148	70	218	641
25 - 49	47	2,306	1,164	1,674	470	206	676	695
50 - 99	43	3,586	1,850	3,034	806	372	1,178	610
100 - 199	27	5,268	2,569	3,882	1,154	443	1,597	662
200 - 299	13	4,269	2,228	3,188	842	390	1,232	699
300 - 399	9	4,412	2,401	3,012	908	405	1,313	797
400 - 499	6	3,697	1,998	2,616	810	255	1,065	764
500 - 749	4	3,587	1,582	2,608	761	273	1,035	607
750 - 1,499	3	6,574	2,781	3,827	1,114	413	1,527	727
1,500 and over	3	9,663	4,804	7,154	2,122	765	2,887	672
Total	186	44,076	21,725	31,536	9,135	3,594	12,729	689

(a) Administrative, technical and clerical employees.

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Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE 5

Region	Estab-lish-ments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percent- age of total		Operatives	Other employees (a)	Total	
England and Northern Ireland	No.	£'000	£'000		No.	£'000	£'000	£'000	£
Northern	14	9,210	3,951	18.2	6,412	1,941	551	2,493	616
East and West Ridings	20	2,392	1,163	5.4	1,615	428	208	636	720
North Midland	13	5,078	2,933	13.5	3,963	1,026	480	1,506	740
Eastern	7	4,641	2,156	9.9	2,572	783	347	1,130	838
London and South Eastern; and Southern	38	5,366	2,812	12.9	4,114	1,266	606	1,871	684
South Western	10	4,300	2,036	9.4	2,627	768	303	1,071	775
Midland	27	3,489	2,004	9.2	2,699	776	312	1,088	743
North Western; and Northern Ireland	30	4,530	2,417	11.1	3,316	956	393	1,350	729
Total England and Northern Ireland	159	39,007	19,472	89.6	27,318	7,945	3,199	11,144	713
Wales	4	381	206	1.0	353	85	57	142	585
Scotland	23	4,688	2,047	9.4	3,865	1,105	338	1,442	530
United Kingdom	186	44,076	21,725	100.0	31,536	9,135	3,594	12,729	689

(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		Great Britain 1948
	Quantity	Entries	Quantity
Other than principal products	Th. tons	No.	Th. tons
Castings			
Of iron, including malleable iron (a)	31.4	31	27.1
Of steel (b)	-	-	-
Of brass and other alloys of copper (c)	Th. cwts. 18.4	12	Th. cwts. 23.7
Of aluminium (d)	0.1	..	0.2

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

(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).

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

Larger establishments

TABLE 8

Kind of output (i) Complete machines (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Mechanical handling equipment, new, other than civil engineering and contracting machinery and plant, industrial trucks and mining machinery					
Aerial transporters, with or without hoisting gear, (i.e., aerial ropeways, cableways, cableway dragline excavators, telfers and runways), and rope-hauled dragcrappers	{ (i) .. (ii) ..	346 246	15 28	.. ..	374(a) 155(a)
Conveyors and elevators, other than hay and corn elevators					
Belt	{ (i) .. (ii) ..	2,785 561	113 91	.. ..	2,264 481
Other	{ (i) .. (ii) ..	5,154 1,611	144 131	.. ..	2,920 953
Cranes					
Dock, harbour, wharf and shipyard	{ (i) 227 (ii) ..	2,648 76 203	14 18	208	1,750 141 262
Road, wheel or track mounted (i.e., mobile)	{ (i) 2,097 (ii) ..	3,913 744	20 30	1,846	3,078 26 369
Overhead travelling, including bridge transporters and goliath types	{ (i) 1,910 (ii) ..	5,458 190 809	59 55	1,997	2,663 276 528
Other	{ (i) 1,237 (ii) ..	1,877 71 287	56 45	1,580	821 630 292
Hoists, other than skip hoists, and other lifting machinery					
Electric hoist blocks	{ (i) 6,714 (ii) ..	1,004 181 119	40 27	4,617	721 71 84
Pulley blocks, hand operated	{ (i) 115,065 (ii) ..	905 251 134	37 21	126,829	854 73 137
Builders' hoists	{ (i) 2,242 (ii) ..	440 87	20 16	2,540	272 45
Winches and capstans	{ (i) 10,624 (ii) ..	2,927 196 493	69 45	7,052	3,288 824 341
Other, including windlasses, reels, gin wheels, hooks, dogs and slings	{ (i) .. (ii) ..	1,343 188	50 29	.. ..	689(b) 86(b)
Unclassified	{ (i) - (ii) -	- -	- -	.. ..	239 6
Lifts and escalators (c)					
For passengers	{ (i) 1,150 (ii) ..	2,354 980	43 35	635	805 56 268
For goods	{ (i) 2,303 (ii) ..	1,995 724	60 39	1,790	1,152 113 185
Unclassified	{ (i) .. (ii) ..	88 114	.. ..	.. ..	224 158
Other new mechanical handling equipment, including skip hoists and wagon tippers	{ (i) .. (ii) ..	2,430 458	100 81	1,258(d) 347(d)
Unclassified	{ (i) - (ii) -	- -	- -	122 208

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TABLE 8 (contd.)

Kind of output (i) Complete machines (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000
Mechanical handling equipment, reconditioned	..	316	33	..	230(e)
Waste products, other than scrap metals	..	2	8	..	3
Installation work (f) (g)	..	78	6	..	212
Repair and jobbing work (f) (g)	..	2,565	146	..	2,529
Work done for the trade or on commission (f)	..	60	15	..	39
Total		47,527	..		33,625
Sales in other trades (see Table 9)		12,254	..		9,522
Principal products of this trade sold by establishments in the trade		35,272	159		24,104

(a) Including skip hoists and wagon tippers.

(b) Including escalators.

(c) For 1948, the figures relate to lifts only.

(d) Excluding skip hoists and wagon tippers.

(e) So far as recorded separately.

(f) Amount charged.

(g) Exclusive of the value of goods used by firms and recorded as their output.

Sales of principal products of the trade by establishments
classified to other trades
Larger establishments

TABLE 9

Kind of output (i) Complete machines (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity No.	Value £'000	Entries No.	Quantity No.	Value £'000
Mechanical handling equipment, new, other than civil engineering and contracting machinery and plant, industrial trucks and mining machinery	..	..	..	..	..
Aerial transporters, with or without hoisting gear (i.e., aerial ropeways, cableways, cableway dragline excavators, trolleys and runways), and rope-hauled dragcranes	{ (i) .. (ii) ..	40 149	6 22	..	190(a)
Conveyors and elevators, other than hay and corn elevators	{ (i) .. (ii) ..	1,628 312	70 59	..	1,379 291
Belt	{ (i) .. (ii) ..	1,471 366	94 85	..	1,099 355
Other	{ (i) .. (ii) ..	..	..	..	..
Cranes	8	97	..	21	41
Dock, harbour, wharf and shipyard	{ (i) .. (ii) ..	76 112	.. 11	..	43 96
Road, wheel or track mounted (i.e., mobile)	{ (i) 305 (ii) ..	410 172	9 21	289	421 26 103
Overhead travelling, including bridge transporters and goliath types	{ (i) 64 (ii) ..	323 188	17	..	531
Other	{ (i) 471 (ii) ..	457 70	25	{ (i) .. (ii) ..	157 236

TABLE 9 (contd.)

Kind of output (i) Complete machines (ii) Parts	United Kingdom 1951			Great Britain 1948	
	Quantity No.	Value £'000	Entries No.	Quantity No.	Value £'000
Mechanical handling equipment, new, other than civil engineering and contracting machinery and plant, industrial trucks and mining machinery (contd.)	..	..	..	..	..
Hoists, other than skip hoists, and other lifting machinery	..	..	..	..	..
Electric hoist blocks (i) & (ii)	..	199	19	..	166
Winches and capstans	{ (i) 3,891 (ii) ..	703 132	38	{ 1,031 ..	667 139
Other, including pulley blocks (hand operated), builders' hoists, windlasses, reels, gin wheels, hooks, dogs and slings	{ (i) .. (ii) ..	731 61	56 35	..	557(b)
Lifts and escalators (c)	..	..	..	..	..
For passengers	{ (i) 231 (ii) ..	453 46	12 17	40	49
For goods	{ (i) 452 (ii) ..	261 245	26	{ 270 ..	117 27
Unclassified	{ (i) .. (ii) ..	58 6	..	..	4 39
Other new mechanical handling equipment, including skip hoists and wagon tippers	{ (i) .. (ii) ..	1,247 301	63 58	..	689(d) 260(d)
Unclassified (i) & (ii)	-	-	-	..	..
Mechanical handling equipment, reconditioned	{ (i) .. (ii) ..	275 95	24 14	..	633
Repair and jobbing work (e)	..	1,104	77	..	1,164
Total		12,254	..		9,522

(a) Including skip hoists and wagon tippers.

(b) Including escalators.

(c) For 1948, the figures relate to lifts only.

(d) Excluding skip hoists and wagon tippers.

(e) Amount charged exclusive of the value of goods used by firms and recorded as their output.

Sales in the trade of other than principal products

Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value £'000	Quantity	Value £'000
Machinery and plant, and parts
Boilers and boiler-house plant	..	646	..	142
Mining machinery	..	154	..	149
Pumps	..	518	..	487
Civil engineering and contracting machinery and plant	..	700	..	..
Other	..	2,661	..	3,118
Castings, in the rough or machined	..	407	..	160
Tractors and industrial trucks, complete and parts	..	273	..	..
Other goods	..	846	..	1,600
Scrap metals sold	..	117	..	85
Constructional engineering (a)	..	109	..	31
Other work done (b)	..	34	..	62
Total		6,465		5,834

(a) Amount charged, exclusive of the value of goods used by firms and recorded as their output.

(b) Amount charged.

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

TABLE 11

	Production (b) (c)		Exports (d)		Retained imports (e)
	£'000		£'000		£'000
Mechanical handling equipment, new, other than civil engineering and contracting machinery and plant, industrial trucks and mining machinery (f)					
Aerial transporters, with or without hoisting gear (i.e., aerial ropeways, cableways, cableway dragline excavators, telfers and runways), and rope-hauled drag scrapers	1951	592	678	..	..
Conveyors and elevators, other than hay and corn elevators	1951	10,111	1,030	..	..
Other new mechanical handling equipment, including skip hoists and wagon tippers but excluding cranes, lifts, escalators, hoists (other than skip hoists) and other lifting machinery	1951	2,888	251	..	..
Total mechanical handling equipment, new, other than cranes, lifts, etc. (h)	{ 1951 1948 1937	{ 13,591 9,082(g) 2,764	{ 1,959 1,437 205		{ 494 549 49
Cranes		No.	£'000	No.	£'000
Complete					
Dock, harbour, wharf and shipyard	1951	233(i)	2,724	124	937
Road, wheel or track mounted (i.e., mobile)	1951	2,097	3,913	644	1,568
Overhead travelling, including bridge transporters and goliath types	1951	1,976(i)	5,648	290	869
Other	1951	1,284(i)	1,948	265	615
Parts	1951	..	2,043	..	746
Lifts and escalators, complete and parts	1951	6,255	1,070	..	10
Hoists (other than skip hoists) and other lifting machinery (including winches and capstans), complete and parts	1951	8,268	2,946	..	147
Total cranes, lifts, escalators, hoists (other than skip hoists) and other lifting machinery	{ 1951 1948 1937	{ 30,799 21,527 6,160	{ 8,751 7,412 1,154(j)		{ 277 147 144(j)
Total mechanical handling equipment	{ 1951 1948 1937	{ 44,820(k) 30,839(k) 8,924	{ 10,710 8,849 1,359		{ 711 696 193

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). 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 1951 and 1948, and production for sale in 1937.

(c) Including production (or sales) by establishments classified to other trades.

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) The overseas trade figures include particulars of second-hand machinery, etc. whether reconditioned or not.

(g) Including unclassified sales.

(h) For 1937, the figures relate to conveyors, telfers and transporters and, for exports and imports only, include escalators.

(i) Partly estimated.

(j) Excluding escalators.

(k) Including sales of unclassified and reconditioned mechanical handling equipment.

Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

TABLE 12

Materials used	Quantity
Iron	Th. tons
Pig iron	20.3
Iron castings, in the rough	16.9
Wrought iron in all forms, except finished parts	0.5
Non-alloy steel	
Ingots, billets, blooms and slabs	3.1
Angles, shapes and sections	38.9
Girders, joists, beams and pillars (not fabricated)	13.8
Bars and rods	18.3
Hoop and strip (including tape)	0.8
Tin-terne - and black-plates and sheets	0.6
Other plates and sheets	
1/8 in. thick and over	24.6
Under 1/8 in. thick	4.5
Tubes and fittings	4.5
Wire (single wire)	0.7
Tyres, wheels and axles (railway and tramway)	0.7
Forgings, in the rough, other than drop forgings	2.2
Drop forgings	1.5
Castings in the rough	9.1
Alloy steel (including high-speed steel)	
Ingots, billets, blooms, slabs, bars, rods, angles, shapes, sections, girders, joists and pillars (not fabricated)	1.5
Plates, sheets and strip	
1/8 in. thick and over	0.1
Under 1/8 in. thick	-
Tubes and fittings and wire (single wire)	0.1
Forgings, in the rough, other than drop forgings	0.4
Drop forgings	0.2
Castings in the rough	0.3
Non-ferrous metals in all forms, except finished parts	Th. cwts.
Aluminium and aluminium alloys	17.7
Brass and other copper alloys, including nickel silver but excluding other nickel alloys	21.3
Copper	11.3
Lead and alloys of lead	1.0
Zinc and alloys of zinc	0.7
Timber (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	68.2
Softwood	1,346.6

Employment in September
Larger establishments (a)

TABLE 13

(i) Operatives

	Number					
	United Kingdom			Great Britain	United Kingdom	
	1951(b)	1950(b)	1949(b)	1948(c)	1937(c)	1935(c)
Males						
Under 18	1,684	1,463	1,411	1,521	1,978	1,467
All ages	22,609	23,157	22,238	21,284	12,787	10,719
Females						
Under 18	66	15	38	37	16	27
All ages	956	880	984	1,121	166	145
Total						
Under 18	1,750	1,478	1,449	1,558	1,994	1,494
All ages	23,565	24,037	23,222	22,405	12,953	10,864

(ii) Administrative, technical and clerical employees (d)

	Number					
	United Kingdom			Great Britain	United Kingdom	
	1951	1950	1949	1948	1937	1935
Males						
Under 18	330	310	281	295	326	240
All ages	5,620	5,893	5,011	4,722	2,531	2,187
Females						
Under 18	378	351	297	359	252	152
All ages	2,191	2,261	1,944	1,992	890	781
Total						
Under 18	708	661	578	654	578	392
All ages	7,811(e)	8,154(e)	6,955(e)	6,714(e)	3,421	2,968

(iii) Total employees

	Number					
	United Kingdom			Great Britain	United Kingdom	
	1951	1950	1949	1948	1937	1935
Males						
Under 18	2,014	1,773	1,692	1,816	2,304	1,707
All ages	28,229	29,050	27,249	26,006	15,318	12,906
Females						
Under 18	444	366	335	396	268	179
All ages	3,147	3,141	2,928	3,113	1,056	926
Total						
Under 18	2,458	2,139	2,027	2,212	2,572	1,886
All ages	31,376(e)	32,191(e)	30,177(e)	29,119(e)	16,374	13,832

(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):-

Canteen workers 12 Males 202 Females
Other workers 45 Males 22 Females

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(c) Average for the year.

(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

(e) Working proprietors. In addition working proprietors, shown in Table 13(iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working proprietors

	Number			
	United Kingdom			Great Britain
	1951	1950	1949	1948
Males	10	8	7	5
Females	-	-	-	-
Total	10	8	7	5

Average employment
Larger establishments (a)

TABLE 14

	Number					
	United Kingdom			Great Britain	United Kingdom	
	1951	1950	1949	1948	1937	1935
Operatives	23,752	24,013	22,976	22,405	12,953	10,864
Administrative, technical and clerical employees	7,774	7,968	6,927	6,714(b)	3,421(b)	2,968(b)
Total	31,526	31,981	29,903	29,119	16,374	13,832

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

(b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

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

	Number					
	United Kingdom			Great Britain	United Kingdom	
	1951	1950	1949	1948	1937	1935
Males	1	2	18	1	..	..
Females	1	1	1	1	..	..
Total	2	3	19	2	..	..

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 averaging 6 hours per shift	-	-	-
All 2 shift systems	8,445	84,879	8
Other shift systems	280	3,010	1
Total	8,725	87,889	(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:-

	Returns		Operatives		
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work
Number	..	9	..	4,856	1,733
Percentage of total in trade	100.0	6.0(c)	100.0	21.0(c)	7.0(c)
Percentage of total on returns showing shift-work			100.0	100.0	35.7

(c) Rounded to avoid disclosure

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

TABLE 16
Larger establishments

	United Kingdom			Great Britain
	1951	1950	1949	1948
Wages and salaries (a) of				
Operatives	9,135	8,134	7,460	6,890
Administrative, technical and clerical employees	3,594	3,275	2,861	2,611
Total	12,729	11,409	10,321	9,501
Employers' contributions to all National Insurance Schemes	319	312	301	230

(a) Including bonus and commission payments, but excluding payments to outworkers amounting to £4,000 in 1949 and less than £500 in each of the other years.

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

TABLE 17
Larger establishments

	United Kingdom		Great Britain
	1951	1949	1948
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	676	374	401
Second-hand	45	68	70
Vehicles			
New	118	66	45
Second-hand	44	23	21
Total acquisitions	883	531	537
Disposals			
Plant and machinery	34	33	19
Vehicles	30	19	12
Total disposals	64	52	31
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	356	156	146

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)	39,007	381	4,688	..	..	44,076
Cost of materials and fuel used	18,883	168	2,482	..	..	21,534
Payment for work done on materials given out	176	-	73	..	..	249
Transport payments	476	6	86	..	..	568
Net output	19,472	206	2,047	..	..	21,725
Wages and salaries of persons employed	11,144	142	1,442	..	..	12,729
Average number of persons employed (b)	No. 27,318	No. 353	No. 3,865	No. ..	No. ..	No. 31,536
Net output per person employed (b)	£ 713	£ 585	£ 530	£ ..	£ ..	£ 689
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	12,793	31	1,837	..	..	14,661
Materials and fuel	4,521	70	302	..	..	4,893
Number of establishments	No. 159	No. 4	No. 23	No. ..	No. ..	No. 186

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)	36,787	368	4,581	..	..	41,737
Changes in stocks and work in progress (see Table 21)	+ 2,220	+ 12	+ 107	..	..	+ 2,339
Gross output (production)	39,007	381	4,688	..	..	44,076
Materials and fuel used by firms in this trade						
Purchases	20,010	182	2,557	..	..	22,749
Changes in stocks (see Table 21)	- 1,126	- 15	- 74	..	..	- 1,215
Materials and fuel used	18,883	168	2,482	..	..	21,534

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

(b) Excluding outworkers but including working proprietors.

Summary

Small firms in Great Britain (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	10	-	2	12
Average number of persons employed (b)				
Males	72	-	12	84
Females	5	-	1	6
Total	77	-	13	90

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

(b) Including working proprietors.

Sales in the trade
Larger establishments

4/G/14

TABLE 20

Kind of output (i) Complete machines (ii) Parts	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000		£'000	No.	£'000
Principal products										
Mechanical handling equipment, new, other than civil engineering and contracting machinery and plant, industrial trucks and mining machinery										
Aerial transporters, with or without hoisting gear (i.e., aerial ropeways, cableways, cableway dragline excavators, telfers and runways), and rope-hauled drag scrapers	{ (i) .. (ii) ..	(c) (a)	.. ..	(a) (a)	.. ..	306 96	- -	- -	.. ..	306 96
Conveyors and elevators, other than hay and corn elevators	{ (i) .. (ii) ..	1,013(b) 218(b)	.. ..	144 31	.. ..	.. ..	.. ..	(b) (b)	.. ..	1,157 249
Belt	{ (i) .. (ii) ..	3,608(b) 1,197(b)	.. ..	75 47	.. ..	.. ..	.. ..	(b) (b)	.. ..	3,683 1,245
Other	{ (i) .. (ii) ..	3,608(b) 1,197(b)	.. ..	75 47	.. ..	.. ..	.. ..	(b) (b)	.. ..	3,683 1,245
Cranes										
Dock, harbour, wharf and shipyard	{ (i) .. (ii) ..	(a) (a)	.. ..	(a) (a)	219 ..	2,551 91	- -	- -	219 ..	2,551 91
Road, wheel or track mounted (i.e., mobile)	{ (i) 1,792 (ii) ..	3,503 573	- -	- -	1,792 ..	3,503 573	- -	- -	1,792 ..	3,503 573
Overhead travelling, including bridge transporters and goliath types	{ (i) 1,491 (ii) ..	3,824 2	355 ..	1,311 133	1,846 ..	5,135 2	- -	- -	1,846 ..	5,135 2
Other	{ (i) 478 (ii) ..	522 88	288 ..	898 130	766 ..	1,420 218	- -	- -	766 ..	1,420 218
Hoists, other than skip hoists, and other lifting machinery										
Electric hoist blocks	(i) & (ii) ..	1,096(b)	..	9	..	..	..	(b)	..	1,105
Winches and capstans	{ (i) 5,483 (ii) ..	2,109 64	1,250 ..	116 8	6,733 ..	2,225 64	- -	- -	6,733 ..	2,225 64
Other, including pulley blocks (hand operated), builders' hoists, windlasses, reels, gin wheels, hooks, dogs and slings	{ (i) .. (ii) ..	2,144 (a)	.. ..	63 (a)	.. ..	2,207 347	- -	- -	.. ..	2,207 347
Lifts and escalators										
For passengers	{ (i) 872 (ii) ..	1,772(b) (a)	47 ..	129 (a)	.. ..	934 ..	.. ..	(b) -	919 ..	1,901 934
For goods	{ (i) 1,780 (ii) ..	1,644(b) (a)	71 ..	89 (a)	.. ..	480 ..	.. ..	(b) -	1,851 ..	1,733 480
Unclassified	{ (i) 27 (ii) ..	30 108	- -	- -	27 ..	30 108	- -	- -	27 ..	30 108

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS COUNTRY TABLES

(90827/1)

Other new mechanical handling equipment, including skip hoists and wagon tippers	{ (i) .. (ii) ..	1,113 (a)	.. ..	70 (a)	.. ..	1,183 157	- -	- -	.. ..	1,183 157
Mechanical handling equipment, reconditioned	(i) & (ii) ..	58(b)	..	2	..	..	..	(b)	..	60
Waste products, other than scrap metals	..	2	-	-	..	2	-	-	..	2
Installation work (c) (d)	..	78(b)	-	-	..	..	-	(b)	..	78
Repair and jobbing work (c) (d)	..	1,292(b)	-	169	..	..	-	(b)	..	1,461
Work done for the trade or on commission (c)	..	59(b)	-	1	..	..	-	(b)	..	60
Total principal products		31,058(b)		4,214		..		(b)		35,272
Other output										
Machinery and plant, and parts										
Boilers and boiler-house plant	..	592	..	54	..	646	-	-	..	646
Mining machinery	..	(a)	..	(a)	..	154	-	-	..	154
Pumps	..	(a)	..	(a)	..	518	-	-	..	518
Civil engineering and contracting machinery and plant	..	(a)	..	(a)	..	700	-	-	..	700
Other	..	2,454	..	208	..	2,661	-	-	..	2,661
Castings, in the rough or machined	..	(a)	..	(a)	..	407	-	-	..	407
Tractors and industrial trucks, complete and parts	..	273	-	-	..	273	-	-	..	273
Other goods	..	804	..	43	..	846	-	-	..	846
Scrap metals sold	..	104	..	13	..	117	-	-	..	117
Constructional engineering (c) (d)	..	103	..	6	..	109	-	-	..	109
Other work done (c)	..	34	..	-	..	34	-	-	..	34
Total		37,156(b)		4,581		..		(b)		41,737

MECHANICAL HANDLING EQUIPMENT COUNTRY TABLES

- (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) Amount charged.
(d) Exclusive of the value of goods used by firms and recorded as their output. The total value of these goods used in repair and jobbing work and in constructional engineering work was recorded as £543,000.

4/G/15

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

Larger establishments

		England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
£'000						
Products on hand for sale	{ at beginning of year	1,323	15	..	..	1,338
	{ at end of year	1,745	16	..	..	1,761
Work in progress	{ at beginning of year	9,269	1,715	..	..	10,984
	{ at end of year	11,079	1,821	..	..	12,900
Total products on hand for sale and work in progress	{ at beginning of year	10,592	1,730	..	..	12,322
	{ at end of year	12,824	1,837	..	..	14,661
Materials and fuel	{ at beginning of year	3,450	228	..	..	3,678
	{ at end of year	4,591	302	..	..	4,893

(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

Larger establishments (a)(b)

(i) Operatives		England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Number						
Males						
Under 18		1,310	374	..	..	1,684
All ages		19,622	2,987	..	..	22,609
Females						
Under 18		60	6	..	..	66
All ages		914	42	..	..	956
Total						
Under 18		1,370	380	..	..	1,750
All ages		20,536	3,029	..	..	23,565
Number						
(ii) Administrative, technical and clerical employees		England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males						
Under 18		292	38	..	..	330
All ages		5,044	576	..	..	5,620
Females						
Under 18		333	45	..	..	378
All ages		1,954	237	..	..	2,191
Total						
Under 18		625	83	..	..	708
All ages (d)		6,998	813	..	..	7,811

TABLE 22 (contd.)

(iii) Total employees

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Number					
Males					
Under 18	1,602	412	..	..	2,014
All ages	24,666	3,563	..	..	28,229
Females					
Under 18	393	51	..	..	444
All ages	2,868	279	..	..	3,147
Total					
Under 18	1,995	463	..	..	2,458
All ages (d)	27,534	3,842	..	..	31,376

(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 merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22(iv) 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 10 male working proprietors were engaged in this trade in larger establishments in the United Kingdom (all in England, Wales and Northern Ireland).

(iv) Excluded employees

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Number					
Canteen workers					
Males	12	-	12	-	12
Females	190	12	202	-	202
Total	202	12	214	-	214
Other workers					
Males	41	4	45	-	45
Females	19	3	22	-	22
Total	60	7	67	-	67
Total excluded employees	262	19	281	-	281

Average employment

Larger establishments (a)

	England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom
Number					
Operatives					
Administrative, technical and clerical employees	20,704	3,048	..	..	23,752
Total	6,957	817	..	..	7,774
Total	27,661	3,865	..	..	31,526

(a) For employment in small firms in Great Britain (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. In addition to the employees shown above the firms in England and Wales in this trade employed 2 outworkers, 1 male and 1 female.

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

Larger establishments

TABLE 24

£'000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives	8,030	1,105	..	..	9,135
Administrative, technical and clerical employees	3,256	338	..	..	3,594
Total	11,286	1,442	..	..	12,729
Employers contributions to all National Insurance Schemes	279	40	..	..	319

(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 but excluding payments to outworkers employed in England and Wales, the total amount paid to them was less than £500.

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

Larger establishments

TABLE 25

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery and vehicles					
Acquisitions					
Plant and machinery					
New	604	72	676	-	676
Second-hand	43	2	45	-	45
Vehicles					
New	105	13	118	-	118
Second-hand	44	-	44	-	44
Total acquisitions	796	87	883	-	883
Disposals					
Plant and machinery	22	12	34	-	34
Vehicles	28	2	30	-	30
Total disposals	50	14	64	-	64
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	315	40	356	-	356

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

Larger establishments

TABLE 26

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	454(a)	81	..	(a)	536
Amount paid or credited to firms' own separate transport organisations	28	4	33	-	33
Total	482(a)	86	..	(a)	568

(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.

GENERAL NOTES

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 merchandising 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 part-time 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 ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

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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