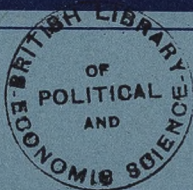


BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*



Volume 4: Industry D

TEXTILE MACHINERY AND ACCESSORIES

*Presented by the Board of Trade to Parliament in pursuance of the  
Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

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# The Report on the Census of Production for 1954

VOLUME 4 INDUSTRY D

## TEXTILE MACHINERY AND ACCESSORIES

THIS REPORT on the Textile Machinery and Accessories Industry relates to establishments engaged wholly or mainly in the manufacture of spinning, winding, weaving, knitting, printing, dyeing, etc. machinery for use in the textile industries, and accessories such as bobbins, combs, jacquard cards, reeds, rollers, shuttles and spindles.

This industry corresponds to minimum list heading 56 in the Standard Industrial Classification.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

**Industrial Classification:** Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

**Specialist producers** normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

**Intermediate products:** For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

**Larger establishments:** The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

**Small firms** are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

**Gross output (production)** is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

**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. The value of sales is the net selling value, i.e., 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.

**Materials and fuel:** The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchandising are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

**Stocks:** Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

**Customs and Excise Duty** paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

**Employment:** Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, 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. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

**Working proprietors** are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

**Administrative, technical and clerical employees** include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

**Operatives** include all other classes of employees, i.e., broadly speaking, all manual workers.

**Outworkers** are persons employed by the firm who work on materials supplied by the firm in their own homes.

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

**Capital expenditure** includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

**Symbols used:**

.. for not available  
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

## Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	65.5	84.2	81.2	4.74	-
Net output	38.3	46.3	49.0	3.08	-
Total stocks and work in progress					
At beginning of year	20.1	23.1	25.5	1.81	-
Change during year	+ 5.4	+ 4.8	- 0.5	- 0.20	-
Capital expenditure less disposals (a)	2.1	2.7	2.4	0.14	-
Wages and salaries	23.9	28.6	30.1	2.07	-
	Thousands	Thousands	Thousands	Thousands	Thousands
Total employment (including working proprietors)	74.4	75.2	64.3	4.79	-

(a) Capital expenditure on new building work, and on plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

## Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>				
Number of establishments	No.	423	460	420
Total value of sales and work done	£'000	56,919	80,298	78,971
Products on hand for sale	"	10,996	13,279	13,804
and work in progress	"	+ 2,782	+ 1,983	+ 330
Gross output (production) (a)	"	59,465	82,281	79,301
Purchases of materials and fuel	"	26,191	38,183	28,527
Stocks of materials and fuel	"	7,240	9,312	11,086
{ at beginning of year	"	+ 2,084	+ 2,676	- 799
{ change during year	"	24,107	35,507	29,327
Cost of materials and fuel used	"	559	857	1,466
Payment for work done on materials given out	"	236	632	600
Payment for transport (b)	"			
Net output	"	34,799	45,286	47,908
Average number of employees	"	58,898	63,197	52,881
{ operatives	No.	8,596(c)	10,242	9,909
{ others	"	67,575	73,527	62,848
Total employment (d)	"	515	616	762
Net output per person employed (d)	£			
Wages and salaries	£'000	18,166	22,922	23,501
{ of operatives	"	3,543	5,037	5,870
{ of others	"			
Capital expenditure				
New building work (e)	"	407	535	433
Plant and machinery	"	1,474	1,843	1,839
{ acquisitions (e)	"	99	70	132
{ disposals	"	175	347	285
Vehicles	"	27	64	94
{ acquisitions (e)	"			
{ disposals	"			
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	230	228(f)	250
Total employment, including working proprietors	"	1,286	1,332(f)	1,401

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

(e) Excluding expenditure for establishments not yet in production.

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

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TEXTILE MACHINERY AND ACCESSORIES  
Analysis by size, 1954  
Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£' 000	£' 000	Number	Number	£' 000	£' 000	£' 000	£
11 - 24(c)	140	3,411	1,848	1,898	403	763	265	87	796
25 - 49	97	4,319	2,344	2,811	534	1,169	365	103	697
50 - 99	73	6,551	4,033	4,591	801	1,827	520	251	746
100 - 199	48	8,701	5,124	5,492	982	2,372	589	193	791
200 - 299	18	5,490	3,413	3,740	648	1,664	427	196	778
300 - 399	14	5,867	3,764	4,010	707	1,825	470	98	798
400 - 499	8	4,293	2,340	3,044	641	1,355	372	133	635
500 - 749	10	7,402	4,389	4,883	1,156	2,307	635	256	727
750 - 1,499	4	4,499	3,132	2,975	851	1,423	486	116	819
1,500 and over	8	28,768	17,522	19,437	3,186	8,795	1,739	1,124	775
Total	420	79,301	47,908	52,881	9,909	23,501	5,870	2,557	762

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles, excluding expenditure for establishments not yet in production.

(c) Including a small number of establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

TABLE 4 - Analysis according to specialisation within the industry, 1954

No specialisation was distinguished within this industry.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

## Larger establishments in the United Kingdom

TABLE 5

Kind of output (i) Complete machines (ii) Parts	1951		1954		Entries
	Quantity	Value	Quantity	Value	
		£' 000		£' 000	Number
Textile machinery, new					
For manufacture of synthetic fibres	(i) .. (ii) ..	(a)	(i) .. (ii) ..	513 1,108	6 18
For processes preparatory to spinning and twisting					
For wool	(i) .. (ii) ..	2,480 802	(i) .. (ii) ..	1,951 777	24 28
For cotton and staple fibre	(i) .. (ii) ..	8,569 1,772	(i) .. (ii) ..	5,858 1,200	19 23
For other textiles	(i) .. (ii) ..	4,432 394	(i) .. (ii) ..	4,432 394	15 23
For spinning					
For wool	(i) 122.8 (ii) ..	929 396	(i) 24.5 (ii) ..	289 485 385	6 10
For cotton and staple fibre	(i) 812.9 (ii) ..	4,440 663	(i) 812.9 (ii) ..	4,440 663	10 6
For other textiles	(i) 134.5 (ii) ..	4,360 407	(i) 134.5 (ii) ..	4,360 407	5 10
For doubling and twisting					
For wool	(i) 37.7 (ii) ..	348 96	(i) 7.0 (ii) ..	96 316 145	6 5

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TABLE 5 (contd.)

Kind of output (i) Complete machines (ii) Parts	1951		1954		Entries
	Quantity	Value	Quantity	Value	
	Th.spindles	£' 000	Th.spindles	£' 000	Number
Textile machinery, new (contd.)					
For doubling and twisting (contd.)					
For cotton and staple fibre	(i) 161.9 (ii) ..	1,111 333 147	(i) 74.7 (ii) ..	597 87	7 9
For other textiles	(i) 59.0 (ii) ..	680 297 42	(i) 59.0 (ii) ..	680 297 42	11 10
For processes preparatory to weaving but subsequent to spinning and twisting					
Winding	(i) 76.4 (ii) ..	1,487 170 417	40.0 .. ..	1,164 155 255	25 28
Machinery for the preparation of warp	(i) .. (ii) ..	1,147 238	.. ..	1,025 277	28 26
Other	(i) .. (ii) ..	171 44	.. ..	54 23	11 13
Looms for weaving					
Automatic weft replenishing					
For cotton, rayon and silk	(i) 8,051 (ii) ..	2,343 949	6,229 ..	2,263 843	7 8
For other textiles	(i) 2,754 (ii) ..	1,095 399	1,561 ..	671 368	8 12
Narrow fabric	(i) 196 (ii) ..	94 39	273 ..	129 30	9 12
Other					
For cotton, rayon and silk	(i) 6,818 (ii) ..	900 630	2,692 ..	430 455	13 19
For other textiles	(i) 3,021 (ii) ..	1,485 418	1,985 ..	1,232 343	12 12
Other weaving machinery (dobbies, jacquards, etc.)	(i) .. (ii) ..	607(b) 249	.. ..	596 235	22 21
Finishing machinery	(i) .. (ii) ..	4,625 1,127	.. ..	3,947 1,104	60 57
Hosiery (for stockings and socks)					
Fully fashioned	(i) 236 (ii) ..	492 224 114	347 .. ..	858 7 81	5 7
Circular seamless	(i) 539 (ii) ..	157 156	886 ..	517 204	5 7
Half- and three-quarter hose	(i) 4,712 (ii) ..	2,538 381	4,274 ..	2,790 695	7 7
Other	(i) .. (ii) ..	117 23	.. ..	66 16	7 10
Other knitting (knitwear and knitted fabric)					
Circular	(i) 1,987 (ii) ..	1,906 115	(i) 2,231 (ii) ..	2,258 356	11 12
Warp knitting looms (single and double)	(i) 404 (ii) ..	488 98	.. ..	.. ..	.. ..
Lace, net and embroidery	(i) 46 (ii) ..	202 133 252	65 ..	481 486	7 7
Other new textile machinery	(i) .. (ii) ..	4,038(c) 1,425	.. ..	6,372 1,004	118 90
Total textile machinery, new	(i) .. (ii) ..	45,911 11,940	.. ..	49,330 11,983	.. ..

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TABLE 5 (contd.)

Kind of output (i) Complete machines (ii) Parts	1951		1954		
	Quantity	Value £'000	Quantity	Value £'000	Entries Number
Textile machinery, reconditioned					
For cotton and staple fibre	{ (i) .. (ii) ..	638 159	..	432 72	15 7
For wool	{ (i) .. (ii) ..	393 129	..	306 87	29 12
Other descriptions	{ (i) .. (ii) ..	280 305	..	386 245	21 19
Total textile machinery, reconditioned	{ (i) .. (ii) ..	1,310 593		1,124 404	.. ..
Textile machinery accessories					
Bobbins	..	3,179	..	1,783	52
Boxes and cans	..	671	..	421	9
Card clothing	..	4,089	..	3,056	24
Reeds and healds	..	1,867	..	1,368	38
Rings and travellers	..	758	..	519	8
Shuttles	..	1,422	..	814	33
Spindles, flyers and rollers	..	2,088	..	1,869	30
Springs, temples, temple rings and temple rollers	..	344	..	307	15
Other (except needles, and tubes of paper and cardboard) (d)	..	6,242	..	3,688	148
Total textile machinery accessories		20,661		13,826	..
Waste products (except scrap metals)	..	56	..	39	37
Repair and jobbing work (e)	..	856	..	648	74
Work done for the trade or on commission (including research and development work) (f)	..	317	..	1,585	38
Total		81,644		78,940	..
Sales in other industries (see Table 6)		6,144		6,529	..
Principal products of this industry sold by establishments in the industry		75,500		72,412	361

(a) Not separately recorded in 1951 (see 'Other new textile machinery').

(b) Including hand looms.

(c) Including machinery for manufacture of synthetic fibre.

(d) For machine needles, see Needles, Pins, Fish Hooks and Metal Smallwares Industries (Volume 5, Industry G) and for tubes of paper and cardboard, see the Manufactured Stationery, Paper Bag and Kindred Industries (Volume 10, Industry I).

(e) Amount charged excluding the value of goods made and recorded as output.

(f) Amount charged.

## Sales of principal products of the industry by establishments classified to other industries

## Larger establishments in the United Kingdom

TABLE 6

Kind of output (i) Complete machines (ii) Parts	1954			Principal industries in which produced (a)
	Quantity	Value £'000	Entries Number	
Textile machinery, new				
For processes preparatory to spinning and twisting				
For wool	{ (i) .. (ii) ..	165 44	8 10	4I, 4J
For other textiles	{ (i) .. (ii) ..	57 24	10 18	3C, 4C, 4H, 4J 4H, 4I, 4J
For spinning	(i) and (ii)	440	11	4C, 4E, 4I, 4J

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TABLE 6 (contd.)

Kind of output (i) Complete machines (ii) Parts	1954			Principal industries in which produced (a)
	Quantity	Value £'000	Entries Number	
Textile machinery, new (contd.)				
For doubling and twisting (i) and (ii)	..	30	5	4C, 4I
For processes preparatory to weaving but subsequent to spinning and twisting	No. of spindles			
Winding	{ (i) 951 (ii) ..	22 11	..	4C, 4I, 4J
Other (i) and (ii)	..	26	5	4I, 4J
Looms, automatic weft replenishing (i) and (ii)	..	47	..	4I, 4J
Other looms (including narrow fabric) and other weaving machinery (dobbies, jacquards, etc.) (i) and (ii)	..	6	6	4C, 4I, 4J
Finishing machinery	{ (i) .. (ii) ..	183 973	14 17	3C, 4C, 4I, 4J 4I, 5E
Hosiery (for stockings and socks)	Number			
Fully fashioned (i) and (ii)	..	276	..	4I, 4J
Half- and three-quarter hose	{ (i) 34 (ii) ..	19 5	..	4C, 4I
Other	{ (i) .. (ii) ..	62 4	.. 5	3C, 4I, 4J 4C, 4I
Other knitting (knitwear and knitted fabric) (i) and (ii)	..	19	..	4I, 4J
Lace, net and embroidery (ii)	..	1	..	
Other new textile machinery including machinery for manufacture of synthetic fibres	{ (i) .. (ii) ..	2,821 222	63 54	4C, 4G, 4I, 4J 4I, 4J
Textile machinery, reconditioned	{ (i) .. (ii) ..	35 11	21	4C, 4I, 4J
Textile machinery accessories				
Bobbins	..	457	22	4I, 4J, 10A
Boxes and cans	..	1	..	
Card clothing	..	10	..	4I, 5E
Reeds and healds	..	1	..	
Shuttles	..	78	9	4C, 4I, 10A
Springs, temples, temple rings and temple rollers	..	10	..	4I, 4J
Other (except needles, and tubes of paper and cardboard)	..	449	60	4C, 4G, 4I, 4J
Total		6,529	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

## Sales in the industry of other than principal products

## Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value £'000
Machinery and plant, and parts		
Air conditioning, space heating and ventilating plant and appliances	..	314
Engineers' small tools	..	295
Machine tools	..	749
Pulpmaking and paper and board making machinery	..	222
Steel-works and non-ferrous machinery and parts	..	168
Wire making, working and winding machinery	..	142
Other machinery and parts	..	1,386

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TABLE 7 (contd.)

	1954	
	Quantity	Value
		£'000
Arms, ammunition and naval, military and air force stores	..	957
Castings in the rough or machined	..	597
Other engineering products	..	483
Other manufactures of metal	..	462
Other goods	..	251
Scrap metals sold	..	239
Work done (a)	..	293
Total		6,559

(a) Amount charged, exclusive of the value of goods made and recorded as output.

Total make of certain intermediate products  
Larger establishments in the United Kingdom

TABLE 8

	Returned in this industry		
	1951	1954	
	Quantity	Quantity	Entries
	Th. tons	Th. tons	Number
Iron castings (a)	114.8	90.0	60

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

Purchases of materials and fuel, 1954  
Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th. tons	£'000
Materials		
Iron and steel		
Drop forgings	0.2	22
Wrought tubes and fittings for wrought tubes	2.5	130
Fabricated bridge components and other structural iron and steelwork	..	66
Wire (single wire)	2.8	7
Wire manufactures, including wire cables and ropes and stranded wire of two or more ply	..	231
Chains	0.5	93
Transmission and conveyor types	..	52
Other chains	..	69
Iron and steel scrap	25.8	21
Other iron		199
Pig iron, except refined pig iron	50.9	875
Castings in the rough or machined, except machined castings elsewhere specified	..	40
Other iron, except finished parts	20.7	1,846
Ferro-alloys	..	222
	1.5	44
	0.2	28

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Purchases of materials and fuel, 1954  
Larger establishments in the United Kingdom

TABLE 9 (contd.)

	Quantity	Cost
	Th. tons	£'000
Materials (contd.)		
Iron and steel (contd.)		
Other steel (alloy and non-alloy)		
Ingots, blooms, billets, and slabs, and sheet and tinplate bars	0.4	38
Angles, shapes, sections, bars, rods (including wire rods) and girders, beams and joists (not fabricated)	46.1	2,410
Castings in the rough or machined, except machined castings elsewhere specified	4.0	315
Forgings, except drop-forgings, in the rough or machined, except machined forgings elsewhere specified	1.1	209
Tin-, terne-, and black-plates and tinned and terne sheets	..	78
Other plates and sheets, 1/8 in. thick and over, and hoop and strip (including tape) of all thicknesses	2.2	118
Other plates and sheets under 1/8 in. thick, including electrical quality sheets	..	23
Axles, tyres and wheels (rail type)	4.9	333
Springs, laminated and other types	3.1	274
Light metals and non-ferrous metals in all forms, except finished parts, wire and scrap	..	-
Aluminium and aluminium alloys	..	73
Magnesium and magnesium alloys	45.4	708
Antimony	0.1	4
Brass and other alloys of copper, including nickel silver and cupro-nickel, but excluding other nickel alloys	5.0	115
Castings	..	41
Other	16.0	246
Copper	3.6	52
Lead and alloys of lead, except solder	..	12
Tin	5.2	41
Zinc	1.5	34
Non-ferrous metal wire, not insulated	2.5	12
Scrap non-ferrous metals	..	40
Soft solder	0.3	9
Insulated wires and cables	..	4
Rubber in all forms, including finished parts	..	33
Refractory materials	2.6	46
Asbestos in all forms, including finished parts	..	116
Other thermal insulating materials	7.4	33
Paint, enamel and varnish	..	4
Lubricating oils and greases (including cutting oil and emulsions)	..	28
Timber (excluding timber for making into packing cases, etc. or for repairing returnable cases)	..	200
Hardwood and softwood	Th. gal.	
	296	87
	..	23
Plywood, including battenboard, blockboard and laminboard	Th. cu. ft.	
	1,065.9	734
	..	160
	Th. sq. ft.	
	204.5	14
	..	6

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TABLE 9 (contd.)

	Quantity	Cost £'000
Materials (contd.)		
Nuts, bolts, studs, screws, rivets, washers, nails, tacks, etc.	..	581
Purchased components for incorporation in own products	..	744
Ball and roller bearing and parts	..	3
Internal combustion engines	..	..
	Thousands	
Electric motors	24.8	661
	..	116
Pumps	4.4	43
	..	37
Industrial valves	..	23
Gears and gear-wheels of metal	..	117
Measuring instruments and gauges and parts	..	..
Electronic (including valves)	..	12
Other, not elsewhere specified	..	81
Other purchased components	..	..
Finished components of plastic materials	..	170
Other	..	5,353
Replacement parts for own plant, machinery and vehicles	..	690
Consumable tools, including gauges, etc. bought as replacement	..	722
Packaging materials	..	..
Paper and paperboard, and cardboard boxes, fibreboard packing cases, etc.	..	54
	Th.cu.ft.	
Timber and timber packing cases, etc.	1,278.2	685
	..	154
	Th.cwt.	
Jute piece goods, including hessian, and jute sacks and bags	0.2	1
	..	3
Other packing materials	..	71
All other purchased materials	..	5,640
Fuel and electricity	Th.tons	
Coal	91.7	330
Coke	50.9	339
Liquid fuel (including creosote/pitch mixtures)	..	..
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	923.5	186
Other	235.3	15
For burning in furnaces, boilers, kilns, etc.	1,304.9	57
Gas purchased	Th.therms	
From Gas Boards	6,051.0	289
From other sources, including other departments of the same firms	..	32
Electricity purchased (a)	Th.kWh.	
From Electricity Boards	122,339	651
From other sources, including other departments of the same firms	1,269	5
All other purchased fuel	..	9
Total cost		28,527

(a) The total quantity of electricity generated in firms own establishments in this industry in 1954 was 2,576 Th.kWh.

## Average number of employees, and wages, salaries and superannuation payments (a)

## Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	63,197	52,881
Administrative, technical and clerical employees	10,242	9,909
Total	73,439	62,790
Wages and salaries paid to	£'000	£'000
Operatives	22,922	23,501
Administrative, technical and clerical employees	5,037	5,870
Total	27,958	29,371
Wages and salaries per head	£	£
Operatives	363	444
Administrative, technical and clerical employees	492	592
		£'000
Superannuation and other pension funds for employees and dependents (b)		
Employers' contributions	..	349
		Number
Employees covered	..	12,465
		£'000
Pension, etc. payments to former employees and dependents (b)	..	86

(a) The following persons, not included above, were also employed by larger establishments in this industry (other workers' includes for example, employees engaged in merchanting). Payments to outworkers are also shown:

	1951	1954
	Number	Number
Canteen workers		
Males	21	11
Females	406	374
Total	427	385
Other workers		
Males	27	42
Females	47	29
Total	74	71
Total excluded employees	501	456
Outworkers	107	164
Payments to outworkers	£'000	£'000
	18	66

(b) The figures given relate to larger establishments in Great Britain only.

## Employment in a specified week (a)

## Larger establishments in the United Kingdom

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	88	-	88	55	3	58
Operatives	56,163	6,720	62,883	48,224	5,146	53,370
Administrative, technical and clerical employees	7,183	3,342	10,525	6,954	3,137	10,091
Total employees	63,346	10,062	73,408	55,178	8,283	63,461

(a) Week ended September 22, 1951, or October 30, 1954.

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