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BOARD OF TRADE

# Report on the Census of Production 1963

50 Industrial plant and steelwork

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

LONDON: HER MAJESTY'S STATIONERY OFFICE

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## Notes

These notes give the main information needed for interpreting the figures in the industry reports. (More detailed information about the Census is given in a separate booklet - 'Introductory Notes': Part 1 of the Report on the Census of Production for 1963.)

#### GENERAL INFORMATION

#### Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

#### Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. ever, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses. The principle of classification by major

output was also normally followed in compiling the analysis by sub-divisions of an industry. In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

#### TERMS USED IN THE CENSUS REPORT

#### Average number employed

Firms were required to state the number of persons on the payroll (i.e. whose National Insurance cards were held by them) on the average during the year of return, whether fulltime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

#### Working Proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving a fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

#### Employees

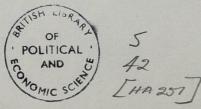
- (i) Administrative, technical and clerical employees include managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.
- (ii) Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

#### Capital Expenditure

#### (i) New building work.

This represents the cost incurred during the year of new building and other new constructional work (including office buildings, canteens and the like used in connection with the business covered by the return but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

Notes - continued on pages iii and iv



# 50

## Industrial plant and steelwork

This Report on the Industrial Plant and Steelwork Industry relates to establishments engaged wholly or mainly in manufacturing steam raising boilers of all types and accessories such as mechanical stokers, but not including marine boilers and hot water boilers cast in sections; lime and cement kilns; gas and coke oven plant; sintering plant; metallurgical furnaces and other metal manufacturing plant (excluding rolling mills); degreasing and coating plant; chemical and mineral oil refining plant; nuclear reactors; water and sewage treatment plant; industrial tanks and similar plate-work, and steelwork for buildings, bridges, etc. (including roof trusses and prefabricated buildings of steel and other metals).

The figures for 1963 and those for earlier censuses are not strictly comparable. For 1963, a number of returns classified to this industry in previous years have now been classified to the Construction Industry (Part 126): also, an element of duplication in the value of work in progress and in the value of sales and work done has been eliminated for 1963, but no similar adjustment has been made in earlier years. A measure of the duplication for 1963 is given in footnote (e) to Table 2. In addition, there has been a slight change in the method of classifying returns for 1963 as described below.

This industry corresponds to minimum list heading 341 in the Standard Industrial Classification (Consolidated edition, 1963).

#### TREATMENT OF PARTS

In reports for this and other mechanical engineering industries, a distinction is made between parts sold in association with the sale of complete machines, and other parts sold. The only parts shown in Table 5 are those included on returns (whether classified to this or to other industries) which also showed sales of industrial plant; where the return was classified to another industry, these parts are also shown, together with the complete plant in Table 6.

Parts of industrial plant included in returns which showed no sales of the complete plant are treated as principal products of the General Mechanical Engineering Industry (Part 52) whether made by general engineering firms or by specialist manufacturers of other types of machinery.

Sales of all parts of industrial plant (i.e. whether or not sold in association with the sale of the complete plant) are brought together in Table 14 in this report.

#### METHOD OF CLASSIFICATION

In classifying returns to this industry sales of parts of industrial plant and work done (other than structural and installation work), including repair work, were not taken into account unless they exceeded 80 per cent. of the total output of the return (in which case the return was classified to the General Mechanical Engineering Industry (Part 52)). Exceptionally, however, parts of industrial plant were taken into account where the return would otherwise have been classified outside the mechanical engineering group of industries. The standard classification procedure was further modified where a return would have been classified to one of the mechanical engineering industries relating to a specific class of machinery (viz. Parts 41 to 50 inclusive), but the sales of the principal products of the industry concerned accounted for less than 20 per cent. of the total output: in such cases the return was classified to the residual sub-division of the Miscellaneous (Non-electrical) Machinery Industry (Part 49). The classification of returns to sub-divisions of the industry followed the standard procedure.

For 1963, but not for earlier censuses, the amount charged for erecting and installing machinery and plant (other than air-conditioning, heating and ventilating plant) was treated as part of the selling value of these items in determining the industrial classifications of returns.

The sales of characteristic products shown in Table 2 include, besides the value of complete industrial plant which was taken into account in classifying returns, sales of parts of industrial plant and the value of installation work.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (ii), (iii) and (iv).

Table No.	Title	Page
1	Industry summary: United Kingdom. Estimates for all firms, 1958 and 1963	50/3
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4	Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom	50/6
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6	Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963	50/11
7	Sales of other than principal products by larger firms in the industry, 1958 and 1963	50/15
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11	Transport costs and employment of larger firms, 1963	50/21
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13	Percentage analysis of twelve-month periods covered by returns from larger firms, 1963	50/22
14	Sales of all parts of industrial plant and steelwork by larger firms, including sales by establishments classified to other industries, 1958 and 1963	50/23

TABLE 1 Industry summary: United Kingdom (a) Estimates for all firms, 1958 and 1963 (b)

		Unit	1958	1963
Number of enterprises	the ranked the same relief that	No.	859	832
Number of establishments			960	967
Gross output		\$,000	391,843	391,752
Net output			166,176	179,828
Net output per head		2	1,191	1,442
ea, ere sal 378   dra. [6] h	goods produced and work done	£'000	371,508	370,777(c)
Sales and work done	merchanted goods and canteen takings		14,810	16,443
	materials for processing and packaging, and fuel	0 - 10 - 10 to	200 200	170,982
Purchases	goods for merchanting and canteen purchases		206,898	13,955
	for work done on materials given out		11,927	22,233
Payments to other organisations	for transport		3,907	3,770
Stocks and work in progress	( Tor trainsport			The state and
ss. ter in contra APP dos. contil	change during year		+ 2,590	+ 3,549
Total stocks and work in progress	at end of year		132,576	114,980
	change during year		+ 361	- 1,121
Goods on hand for sale	at end of year		4,495	5,637
	change during year		+ 5,164	+ 5,653(d
Work in progress	at end of year	7 4 3.48	97,935	84,938(d
	change during year		- 2,935	- 983
Materials, stores and fuel	at end of year		30,146	24,405
	( total, including working proprietors	Th.	139.5	124.7
Average number employed	operatives		96.3	81.0
to ex     House tes     His ties   States	other employees (e)		43.0	43.0
	( of operatives	\$,000	63,937	66,488
Wages and salaries	of other employees (e)		34,146	43,088
Employers' contributions to Mension schemes, etc. (f)	National Insurance and private	A associa	a taleogly	7,260
Capital expenditure (g)		in a linit cons		\$65 \$80 \$5\$20/
Total				8,916
New building work			3,444	1,633
Land and existing buildings				- 375
Plant and machinery (h)			7,020	6,760
Vehicles (h)	L   Marcin and L Marcin and A		901	899

(a) The figures for 1963 are not strictly comparable with those for 1958 as explained in the second paragraph of the introduction to the report.

(b) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 5 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was about 4 per cent.) A summary of the detailed returns received is given in Table 2.

(c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(d) See footnote (e) to Table 2.

(e) Administrative, technical and clerical employees.

(f) Including pensions and gratuities paid other than from pension funds.

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

(h) Acquisitions less disposals.

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963 (a) Firms employing 25 or more persons: United Kingdom (b)

			Sub-div	isions of t	the industr	ry (c)		
		Unit	boiler-ho	rs and use plant	stee	dustrial fabricated lwork	То	tal
			1958	1963	1958	1963	1958	1963
Number of enter	prises (d)	No.	36	32	383	381	414	409
Number of estab	lishments	"	45	42	464	493	509	535
Gross output		£,000	82,097	68,649	292,364	301,810	374,462	370,459
Net output		н	39,298	37,188	119,506	132,866	158,804	170,054
Net output per	head	2	1,239	1,382	1,176	1,459	1,191	1,442
Sales and work	goods produced and work done	£,000	74,108	66,905(f)	280,921	283,719(f)	355,029	350,624(f)
done (e)	merchanted goods and canteen takings	п	874	1,724	13,279	13,825	14,153	15,549
Sales of charac	eteristic products		55,958	50,759	217,412	222,607	(g)	(g)
Index of specia	alisation (h)	Per	76	76	77	78	79	81
Purchases	materials for processing and packaging, and fuel	£'000	39,328	27,880	150 202	133,809	197,720	161,689
	goods for merchanting and canteen purchases	п	39,320	1,491	158,392	11,705	[157,720]	13,197
Payments to other	for work done on materials given out		2,336	1,580	9,062	19,445	11,398	21,025
organisations	for transport		916	583	2,818	2,982	3,734	3,565
Stocks and work Goods on	in progress  ( change during year	"	- 9	+ 48	+ 354	-1,108	+ 345	- 1,060
hand for sale	at end of year		729	370	3,566	4,961	4,295	5,331
Sale	change during year	н	+ 7,124	- 28	-2,190	+ 5,374	+ 4,935	+ 5,346
Work in progress (e)	at end of year	11	24,581	14,657	69,009	65,664	93,591	80,321
Materials,	change during year	"	- 219	+ 72	-2,586	-1,002	- 2,805	- 930
stores and fuel	at end of year	"	8,590	6,021	20,219	17,059	28,809	23,079
and ruci	total, including working proprietors	No.	31,719	26,912	101,592	91,048	133,311	117,960
Average number	operatives	н	21,602	17,021	70,517	59,887	92,119	76,908
employed	other employees (i)		10,110	9,881	31,055	30,923	41,165	40,804
	of operatives	£'000	14,622	15,712	46,559	47,448	61,182	63,160
Wages and salaries	of other employees (i)		7,833	9,627	24,842	31,304	32,675	40,932
Wages and	( operatives	2	677	923	660	792	664	821
salaries per head	other employees (i)		775	974	800	1,012	794	1,003
Employers' cont Insurance (j)	ributions to National	2,000		898	(4) 41	2,889	dass Sig.	3,787
Employers' cont pensions scheme	ributions to private s, etc. (k)			1,010		2,100	(d) ••1	3,110
Capital expendi		1001 611	oleumos	0.17	0.500		0.000	1.544
New building			723	247	2,568	1,298	3,292	1,544
Land and existing buildings	acquisitions disposals	0.000		12(m)	area act	- 342(m)	1881 1883 1 3 3000	367 722
bullulings	The same walked to the same of the	CONTRACTOR OF THE PERSON NAMED IN	2 465	1 257	4,365	5,504	6,829	6,761
Plant and machinery	acquisitions	19 to 1	2,465	1,257	4,365	328	121	368
	disposals		23		1,054	91 197 934	nioci esc	1,358
Vehicles	acquisitions		205	195 58	342	1,163	1,259	508
	disposals		50	98	342	430	356	308

For notes to this table - see page 50/6

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963 (i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enter- prises	Estab- lish- ments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expendi- ture (b)	Total value of stocks and work in progress at end of year
COMPLETE V	Number	Number	Number	£,000	\$,000	£	£,000	٤٬000
25-49	114	125	4,252	11,288	5,455	1,283	375	1,655
50-99	129	142	8,964	24,234	11,808	1,317	568	3,804
100-199	74	90	10,488	28,396	13,386	1,276	451	6,295
200-299	22	34	5,391	15,274	7,238	1,343	423	3,305
300-399	15	18	5,003	12,748	5,938	1,187	198	3,160
400-499	5	13	2,182	8,000	3,513	1,610	61	2,604
500-749	17	29	9,959	34,495	15,869	1,593	446	7,064
750-999	12	26	10,559	32,870	16,098	1,525	1,058	14,962
1,000-1,999	8	20	11,001	39,100	16,138	1,467	679	6,428
2,000-2,499	4	7	8,526	33,340	15,500	1,818	509	17,340
2,500-2,999	4	13	11,152	37,703	17,608	1,579	1,789	12,771
3,000 and over	5	18	30,483	93,012	41,504	1,362	1,873	29,341
Total	409	535	117,960	370,459	170,054	1,442	8,431	108,730

### (ii) Employees, wages and salaries, and employers' contributions Firms employing 25 or more persons: United Kingdom

Average number	Empl	oyees	Wages and	salaries	Employers' contributions		Wages and salarie per head	
employed by the enterprise in the industry (a)	Oper- atives	OPOL OF THE PROPERTY OF THE PR		Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Oper- atives	Others (c)
	Number	Number	£'000	£'000	£'000	€,000	3	2
25-49	3,250	912	2,305	867	132	42	709	951
50-99	6,768	2,085	5,071	2,242	272	118	749	1,075
100-199	7,707	2,741	5,876	2,571	320	177	762	938
200-299	3,733	1,654	2,869	1,625	162	97	768	983
300-399	3,699	1,304	2,690	1,176	144	112	727	902
400-499	1,331	848	1,056	854	65	56	794	1,008
500-749	6,331	3,628	4,831	3,664	321	209	763	1,010
750-999	6,154	4,405	4,599	3,944	331	285	747	895
1,000-1,999	7,374	3,627	6,261	3,966	371	288	849	1,093
2,000-2,499	5,105	3,421	4,492	3,529	269	229	880	1,031
2,500-2,999	7,159	3,993	6,171	4,363	387	331	862	1,093
3,000 and over	18,297	12,186	16,939	12,129	1,013	1,165	926	995
Total	76,908	40,804	63,160	40,932	3,787	3,110	821	1,003

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

<sup>(</sup>b) Acquisitions less disposals.

<sup>(</sup>c) Administrative, technical and clerical employees.

<sup>(</sup>d) Including both flat rate and graduated contributions.

<sup>(</sup>e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £438,000.

TABLE 4 Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a)

Ages	Males	Females	All employees
Teres I	Per cent.	Per cent.	Per cent.
Under 18	4	1	5
18 and over	85	10	95
All ages	89	11	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

#### Footnotes to Table 2.

- (a) The figures for 1963 are not strictly comparable with those for 1958 as explained in the second paragraph of the introduction to the report.
- (b) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns, which account for 2 per cent. of the employment shown for 1963 and 13 per cent. for 1958.

1958 1963 Number of firms 419 405

Average number employed:

Working proprietors
Other persons employed

573
4,111

- (c) The method of classifying returns to sub-divisions of the industry is explained in the introduction to the report; the characteristic products of each sub-division are identified in Table 5.
- (d) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (e) An element of duplication of work in progress also included in the figures for sales and work done has been eliminated for 1963: this amounted to a total value of £14.4 million. A similar adjustment has not been carried out for 1958.
- (f) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).
- (g) Characteristic products relate only to sub-divisions of the industry.
- (h) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (i) Administrative, technical and clerical employees.
- (j) Including both flat rate and graduated contributions.
- $(k)\ \mbox{Including pensions}$  and gratuities paid other than from pension funds.
- (1) Excluding expenditure for establishments not yet in production.
- (m) Acquisitions less disposals.

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

Industry	Esafes   States   States   Solate	195	8 .	1963			
sub- livision (a)	reducing 00018 and resistance 00012	Quantity	Value	Quantity	Value	Enter- prises	Entries
	INDUSTRIAL PLANT	Number	£,000	Number	€,000	Number	Number
	COMPLETE MACHINES	34-400	12175	gradata a Lagrantora	1630662334, 32		1 82
10	Condensers, steam, other than for steam turbines and marine use	48	270	9	37		
20	Grain processing machinery and plant, including rice milling	39.200		46868111	mida 164 s		1000
-	machinery		2,413	alles · Se	2,178	15	17
20	Refuse disposal machinery		441		636	12	12
20	Sewage disposal machinery	10	1,942		2,872	20	20
20	Water treatment plant, other than plant for waterworks	3,401	inone schälter	ingo (p) tos n Soldan is	utza lasvio nimpisched	9	
99	Water softeners, water filters and water sterilising equipment		007	r inevite i	586	7	8
	Domestic		227	e faciles o		9	10
	Other	]	6,658		361	9	9
	Other water treatment plant	J	BR SM.	an gilaces	2,900	The same	
20	Waterworks equipment and plant		1,707		1,620	6	7
10	Boiler and boiler-house plant, other than sectional boilers for central heating, boilers for ships and locomotives, burners and	7,354		191.788A 28		1 35 10	
	furnaces			31297019110			18.00
	Boilers	haran s	05 000		17 272	19	19
	Water tube (b)		35,208	error-zen k	17,372	19	15
	Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers	34,50.2	\$116520	resto me p	ka panaga kanganikia satina satina		-
	for central heating Boiler-house plant, sold	••	8,920	· moutest one	9,017	32	36
	separately Fuel economisers, feed water	P	0.400	absilized	10 606	20	21
	heaters and steam superheaters		6,422	q talkrasila	10,686	20	21
	Boiler firing plant	1 888		SERVICETY C		00	1 22
	Mechanical stokers	1	1,351	10 01 110	1,695	22	23
	Other boiler firing plant	J	1001	los corl	769		
20	Other boiler-house plant Furnaces and kilns	13	4,891		2,737	20	20
	Blast furnaces	100	4,523	[552.85** 100.5	4,565		
	Other metallurgical furnaces						
	Electric	2,028	5,183	2,081	5,703	21	21
	Gas	797	3,654 555	499	2,714	12	15
	Oil	95	173 626	} 427	706	11	11
	Other descriptions	216	259 213	538	234 41	} 7	7
	Other furnaces and kilns	563	528 846	1,456	1,191 575	} 29	29

TABLE 5 (continued)

ndustry	Society of the second s	19	058	1963				
sub- ivision (a)	Edge Cont.	Quantity	Value	Quantity	Value	Enter- prises	Entrie	
10000000	INDUSTRIAL PLANT (continued)		£,000		£,000	Number	Number	
	COMPLETE MACHINES (continued)						123	
20	Chemical making machinery and plant excluding centrifuges and other drying machinery, industrial mixing equipment and filter		Manner		IAL FLART	THURST TO COMPT		
	presses (c)  Distillation plant, other than for potable spirits		San V		espond at	13 B 13 B	98	
	For mineral oil refining	desir recent	672	la entra	1,141	ic *		
3.1	Other		735	ченикова 1	1,108	15	15	
	Evaporators and crystallisers	)		rentana 1	615	9	9	
	Solvent extraction equipment Other chemical making machinery and plant and solvent recovery	}	8,635	t plant, o emocks ets, water	308	6	6	
	equipment		320003.00	getalline	22,631	56	60	
6	Unclassified chemical making machinery and parts		5,870		2,013	9	9	
20	Air and gas cleaning plant, other than air-conditioning equipment	Terms (an	A THE STREET		unter toda			
	Electro-static precipitation plant		2,072(d)	bero serveçti	2,630	9	9	
	Other (e)		5,682		1,858	17	18	
20	Gas making plant  Coal carbonising plant		2,129	etenand (a)	1,426	9	10	
	Water gas, producer gas and complete gasification plant		1,021		6,365	6	6	
20	Iron, steel and non-ferrous metal works plant, excluding plant for rolling mills, not elsewhere		grade cance o	ere, teri boliste Er	od redilit			
20	specified Electro-plating and other		4,035	1200	6,781	38	43	
20	machinery and plant		2,395	goldess le	1,034	•		
	PARTS sold in association with the sale of complete machines characteristic of this industry (f)		18,792	e sample	30,029	261	549	
	Total industrial plant		139,049	ur andie b	147,133			
20	FABRICATED IRON AND STEELWORK, including similar work in other	Tons		Tons	zustanii			
	metals (g) Storage tanks of iron and steel		271-280-20-30	inil relie	35030			
	assembled or not, 3mm. and over in { thickness	156,961	18,408 3,850	107,021	10,574 5,199	] 193	205	
	Buoys and flotation vessels {	1,042	183 133	1,139	225 293	} 15	15	
	Bunkers, bins and silos	7,961	890 520	6,721	942 1,267	} 97	99	
	Heat exchangers {	8,431	2,990 2,782	13,607	4,878 1,546	} 63	67	
	Pipes and chimneys {	25,416	3,563 1,481	27,454	3,656 1,369	120	127	
	Nuclear reactor vessels	10 888.	(h) {	1,080	630 2,973	} 18	18	

TABLE 5 (continued)

ndustry	eact stress sendering as of	19	58	1963				
sub- ivision (a)	seried sales Altiume only	Quantity	Value	Quantity	Value	Enter- prises	Entries	
20	FABRICATED IRON AND STEELWORK, including similar work in other metals (g) (continued)	Tons	£'000	Tons	£'000	Number	Number	
	Other pressure vessels {	24,460	4,822 2,697	23,076	5,176 1,852	} 87	92	
a	Other vessels {	7,880	1,927 650	8,366	2,356 1,147	} 83	85	
23	Other welded and riveted built-up { platework	35,606	5,116 1,330	74,845	9,331 4,418	} 174	188	
25	Bridge components {	17,090	2,055 166	24,514	3,164 432	} 38	38	
	Mast and tower components {	41,464	4,864 540	} 48,066	4,702	24	26	
	Steel shuttering, including road {	1,837	337 648	21,235	2,448	19	21	
331	Portable or prefabricated buildings and frame-work and frame sections for prefabricated, temporary and portable buildings (including for houses)	28,568	3,267 2,799	163,835	14,883 3,627	} 145	148	
	Staircases of iron and steel	6,392	751 145	5,672	859 939	} 151	153	
	Steel tubular scaffolding, including fittings	5,858	742 552	13,314	1,629 944	} 17	19	
	Transformer tanks		(h) {	4,178	968 1,032	} 18	19	
(2)8 534	Other fabricated iron and steelwork (i)	136,071	14,273 16,461	227,435	22,957 13,904	311	325	
ed i	Unclassified fabricated iron and steelwork	30,992	2,402 1,110	35,787	2,882 5,758	202	236	
	Less the value of steel work fabricated and used in building and civil engineering by firms classified to the Construction Industry (MLH.500)(g)	regard els	ayta ten e	o care has	30,004	TAPLE S		
	Total fabricated iron and steelwork (g)		102,454		108,956		• •	
	OTHER PRODUCTS		1,682	## 1/0.0Y	1,556	65	68	
	WASTE PRODUCTS		galide 51	5 122 141 has	The state of			
	Scrap metals	Th. tons	a francisca co	Th.tons	10000			
	Iron and steel	92.4	828 299	113	910 149	} 264	302	
	Brass	0.3	30	]}	96	49	50	
	Copper	100001 002	16	0.3	51	36	37	
	Other scrap metals	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80	day Ses v	63	44	45	
	Other waste products	testiges of	99	1000	65	22	23	

Industry sub-		19	958		1963		
division (a)	TORREST ORDERY TAXABLE OFFICE	Quantity	Value	Quantity	Value	Enter- prises	Entries
	WORK DONE		\$,000	MAN PROPERTY.	£'000	Number	Number
	Machinery and plant (other than marine machinery and air-conditioning, heating and ventilating plant) erected and installed and other installation work	700-8-1-8-3		on ni sinok (ondi alianadi	nolimia am Limos) (3)	bulani sistem	
	Industrial plant and steelwork	The same of the					
10	Water tube boilers (b)				13,472		
10	Shell boilers and boiler-house	200,007	D my-ris	o borevir li	en believe	9930	
	plant				2,839	13	13
20	Chemical plant	950,75			30,374	18	22
20	Storage tanks of iron and steel		78,893		1,876	8	8
20	Iron, steel and non-ferrous metal works plant, other than rolling mills	304,14	10,000	as make gada	1,248	7	7
20	Other industrial plant and fabricated steelwork	125042		CZOWIDE	25,374	49	54
	Other		20017	o meent be	4,738	100	117
	Research and development work done for customers (including Government	285,355	1 101 al	asoques di betock) edi	101396399 101396 419	193 1105 6	
	Departments)		1,581		1,005	12	13
221	Total		325,019	STE DHE ST	339,907	18	7.
RE I	Sales in other industries (see Table 6)	365,6	44,103	2 18 18 18 18 18 18 18 18 18 18 18 18 18	56,089	387 C 271 }	18
	Principal products of this industry sold by establishments in the industry	110,660	280,916	bus part s	283,819	409	471(j)

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.
- (b) The figures for 1958 and 1963 are not strictly comparable owing to the inclusion of some installation charges in the 1958 figure.
- (c) For 1958, described as:

doserrood do:	£,000
Chemical making machinery and plant, not elsewhere specified	
Mineral oil refining	672
Oil (other than mineral) extraction and refining	735
Paint, varnish and ink making	466
Soap and fatty acid making	260
Other chemical machinery and plant	7,909
Complete machinery and parts, not separately distinguished	5,870

- (d) So far as recorded separately for 1958.
- (e) Described in 1958 as 'Other gasworks plant not elsewhere specified including by-products plant'.
- (f) For details of these parts see Table 14.
- (g) For 1958, firms classified to the Construction Industry included the value of the iron and steel-work they fabricated in their building and civil engineering work but they were not asked to distinguish separately the value of such manufacture: for 1963 firms were asked to report separately the value of fabricated iron and steelwork, and space heating, ventilating equipment, etc. incorporated in their building and civil engineering work.
- (h) Not recorded separately for 1958.
- (i) Described in 1958 as 'Other, including steelwork separately consigned prepared ready for assembly'.
- (j) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

Tales (Seasons) to which	19	58	sesep) -	alas 18	1963	
require COG. 3	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
air am gan cleaning plant,		£'000		£'000	Number	REAL PARTS
INDUSTRIAL PLANT					power j	
Condensers, steam, other than for steam turbines and marine		(1-)		57		44,49
use, complete and parts Grain processing machinery and plant, including rice milling		(b)		nikitalen e	100 m	44,40
machinery Complete		450	÷	518	10	41,47,49
Parts		133		361	12	47,49,55
Refuse disposal machinery	1	7			104-191h	d xedxo
Complete	1144	uon I		306	• 10.5	41,49
Parts		118		96	8	41,49
Sewage disposal machinery	}	415 {			inn I ka il	nary45e5yo4
Complete				559	11	39,44,47,49
Parts	diment			24	7	45,47
Water treatment plant, other than plant for waterworks	at 1	State			V 1448	thead
Complete	1	3,935	****.	595	13	49,52
Parts	]	3,955		349	11	49,52
Waterworks equipment and plant						
Complete	)	[	Dec. 199	356		49,52
Parts	}	(b) {		15	6	(c)
Boiler and boiler-house plant, other than sectional boilers for central heating, boilers for ships and locomotives, burners and furnaces	1273	223 22544 1 5054	197 ************************************		36. 1 g	estimate estimate estimate
Boilers					rese polis	Chemical m
Water tube					20.60 30.18 0.1600000000000000000000000000000000000	Lista Ladiff
Complete	1	1	60	833	8	44,47,49,52
Parts	}	2,169		194	9	44,47,49,52
Other boilers, including sectional boilers for steam, and locomotive type boilers					91.02.500	rol assa
for stationary purposes, but excluding sectional boilers for central heating			80 1			100000000000000000000000000000000000000
Complete		1,901		2,952	14	44,46,49,60
Parts Parts	0.00	109		622	14	44,45,49,52
Boiler-house plant, sold separately			1 . 128 yes	Admin to	1 2 1 2 2 2 2	do Madde Th
Fuel economisers, feed water heaters and steam superheaters			202	amorgánios fina seu Encuestros	romailis Notapa - p Notapa - p	Con See 158 Expenses Seekles
Complete		555		1,793	10	44,46,49
Parts		78		204	6	44,46,49

TABLE 6	(continued)
I ADLL U	( COM LIMACA)

	19	58	100			1963	A STATE OF THE PARTY OF THE PAR
acing	Quantity	Value	e Q	)uantity	Value	Entries	Principal industries in which produced (a)
INDUSTRIAL PLANT (continued)	erosa e	2,000	0	e30 F 3	£,000	Number	eroen   House
Boiler and boiler-house plant, other than sectional boilers for central heating, boilers for ships and locomotives, burners and furnaces (continued)						7740	
Boiler-house plant, sold separately (continued)	4-4-7					n andon	
Mechanical stokers and other boiler firing plant						pam galar pin galar	
Complete		172(	d)		392	7	42,49
Parts		146(	d)		266	11	42,52
Other boiler-house plant						toan toal	
Complete		800(	(e)		688	11	44,49,52,126
Parts		219			195	11	49,52
Furnaces and kilns	11.2					TOKE BEEF	
Metallurgical furnaces	Same differen					DEN NEET	deip sauss
				Number			arestquis to
Electric		260		76	201	7	42,47,49,52
Complete		18			68	9	42,46,47
Parts		18			08		7 19 19 19
Gas and oil, complete and		68			942	15	46,47,49,52
Other descriptions including					dalg has	conquipă	OF STREET STREET, STRE
blast furnaces, complete and		338			301	9	46,49,52,53
parts		330			501		nakazasasinak
Other furnaces and kilns				0.1	232	1	List Piet I da
Complete		853	1	31	367	} 13	49,59,61,66
Parts		111			454	23	49,61
Chemical making machinery and plant excluding centrifuges and other drying machinery, industrial mixing equipment and filter presses	SERVICE SERVICES	01 21 00 015 03 01 125 0	1304		nor Apeci	ini edi one	STATES SATES COMME
Distillation plant, other than for potable spirits	nestà dinas secondoca	100 D	10.5		galbulon	l ameilo	F applied
For mineral oil refining, complete and parts		183	3	. 102	408	10	44,49,52
Other	Secretal pro-				20 TH 50 TH	Sale Bass	AND THE REAL PLAN
Complete		91	, 5		375	9	46,49,74
Parts	]	9)		••	150	11	44,49,52
Other chemical making machinery and plantincluding evaporators and crystallisers, solvent extraction equipment and solvent recovery equipment	or o		26340		best bearing	o suinono atoma	to remark the second of the se
Complete	1	ELE SE			5,511	35	45,47,49,74
Parts		8,28	4		1,285	39	44,46,49,52
Unclassified chemical making machinery, complete and parts	e redice expess	-			379	5	49,52,62,12

TABLE 6 (continued)

1803	19	58	1963			
Principal Solution Politics Principal Solution Politics Produced (a)	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
785907 600 1	aneT	£'000	ann't	£,000	Number	ADEL GREAT SERVICE
INDUSTRIAL PLANT (continued) Air and gas cleaning plant, other than air-conditioning equipment, complete	orwote	103	n tal	489	12	49,52,113
Gas making plant	T80,001	705	358.5	agaibliog	e iderro	Sus resteques
Coal carbonising plant	CER OF				A STATE OF THE STA	No. Suventour)
Complete	1	1		1,333	7	22,46,47,49
Parts	}	535 {		464	20	46,47,49,52
Water gas, producer gas and complete gasification plant, complete and parts	(80.51.)	94	er e	479	14	44,46,47,52
Iron, steel and non-ferrous metal works plant excluding plant for rolling mills, not elsewhere specified	88.82	1/27 (30° 1) 843	OSE. II	one neel l	deplads	Ancelsons  202  Delinesines  about be re
Complete		396		1,792	26	27,47,49,51
Parts		161		736	25	46,47,49,52
Other machinery and plant					AS THE	11 termina
Complete	toneit	569		97		27
Parts		43	No.		-	5 A 400
Total industrial plant, complete and parts		23,187	ent depressor from the continues.	27,438	1200 000	Sala Salas Alexandra
FABRICATED IRON AND STEELWORK, including similar work in other metals	Tons		Tons	multip ter	o Opera.) La boars	i den yfdfindal Gelfben beline
Storage tanks of iron and steel assembled or not, 3mm. and over { in thickness	1,975	218 1,349	4,197	813 2,328	} 98	46,49,66,74
Heat exchangers	1,028	509 {	800	622 784	} 26	49,52,62,126
Pipes and chimneys	858	210 371	3,672	785 860	} 53	49,62,74,126
Nuclear reactor vessels	25 73 5 DOST	(f)	POTODET A	673	11	44,47,49,64
Other pressure vessels {	7,012	1,482	1,414	274 177	} 25	44,45,64,74
Other vessels, other than buoys and flotation vessels, bunkers, bins and silos	360	104 169	681	244 112	17 18	38,45,49,52
Buoys and flotation vessels			<b>80</b>	31 223		49,51,62,109
Bunkers, bins and silos	{3,940	615 510	2,611	446 369		46,47,49,74
Other welded and riveted built- up platework			19,422	1,726 1,502		37,49,61,74
Bridge components	h			1,162	16	47,49,51,126
Mast and tower components	}	950	663	81	8	46,52
Steel shuttering, including road forms	FR MES N	Courte a.	148	17	934	49

TABLE 6 (continued)

	19	58			1963	PROBLEM CONTROL STATE AND SECURITION OF STREET
tantenive of talents spiny spiny spiny (2) Dearborn	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
FABRICATED IRON AND STEELWORK, including similar work in other metals (continued)	Tons	2,000	Tons	£'000	Number	DMJE IM LETZBONT
Portable or prefabricated buildings and framework and frame sections for prefabricated,		801		, 3ma ( go 1.70	q gninch tilbeop- eretg	to ten bus time in a rest to the control of the con
temporary and portable buildings (including for houses)	2,838	297 {	140,957	12,383	112	41,49,62,126
Staircases of iron and steel {	764	172 79	3,352	455 690	] 108	40,47,74,126
Transformer tanks		(f)		154	5	46,49,51,52
Steel tubular scaffolding, including fittings	fi9,749	2,538	{ 1,762	242 285	9	37,41,71,126
Other fabricated iron and steelwork	}{````	4,803}	{ 84,962	7,837 8,145	} 151	40,47,74,126
Unclassified fabricated iron and steelwork	27,640	2,127 898	26,568	2,750 5,130	} 225	37,39,74,126
Less the value of steel work fabricated and used in building and civil engineering by firms		568 704				Countes Parts
classified to the Construction Industry (MLH.500)		eoBar _		30,004	o bas va	Couples wather state of the couple of the co
Total fabricated iron and steelwork		17,470		23, 143	essistant.	83789 88147(39.52
OTHER PRODUCTS		9	_	e à TRE	2000 - 21 01	quaco
MACHINERY AND PLANT (other than marine machinery and air-	ano?	5165   T	East 1	ARONS PARTO N	STON TE	CORT OBTACIONARY LINIE SAINAIONI MINIMA
conditioning, heating and venti- lating plant) erected and installed and other installation work	ter, a	3,435	erron in	5,508	119	34,49,52,126
Total	nes h	44,103		56,089		69,81

<sup>(</sup>a) The references given are to the list of industries at the back of this report.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963 Firms employing 25 or more persons: United Kingdom

AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	1958	1963
arright 1 000's (nemismo) are	Value	Value
CONTRACTOR AND CONTRACTOR OF THE CONTRACTOR AND ADDRESS OF THE CONTRACTOR OF THE CON	to man Tay to make you	
Mechanical engineering products	£,000	\$,000
Agricultural machinery		In total St.
Grain and grass driers, complete and parts (a)	108	165
Other machinery		Lesson
Complete	235	807
Parts (a)	110	1000
Metal working machine tools; and engineers' small tools and gauges		Confidence.
Metal working machine tools		box loss?
Complete	759	} 830
Parts (a)	83	162 55 55 55 55 55 55 55 55 55 55 55 55 55
Jigs and fixtures, other than hard metal	55	92
Other products	74	4,941
Textile machinery and accessories, complete and parts (a)	155	284
Contractors' plant and quarrying machinery		1987279%
Complete	} 2,114	579
Parts (a)	)	349
Mechanical handling equipment		STATE OF THE STATE
Conveyors and elevators, other than hay and corn elevators		Shara mater
Belt		SNA SASSE
Complete	1,022	602
Parts (a)	229	145
Other		STATE OF THE STATE
Complete	703	935
Parts (a)	142	240
Cranes and bridge transporters, complete and parts (a)	3,040	2,302
Other equipment, complete and parts (a)	1,210	446
Miscellaneous (non-electrical) machinery	grand down o	12 120 201
Mining machinery, complete and parts (a)	2,148	955
Refrigerating machinery, complete and parts (a)	212	156
Space heating, ventilating and air-conditioning equipment	Company of the Control of the Contro	ing the soul
Ventilators, hoods, booths, cowls, ducting and similar sheet metal work	374	771
Other equipment	981 14n 50p	g ibliogram
Complete	3,570	1,443
Parts (a)	182	429
Pumps	DONO Season a	on see I county
Complete	697	{ 497
Parts (a)	James 1 engine	128
Industrial valves and cocks for the control of liquids, steam and gases, excluding valves for internal combustion engines	411	1,069
Air and gas compressors and exhausters, complete and parts (a)	684	1,182
Drying machinery, not elsewhere specified	415	187

<sup>(</sup>b) Included with 'Other machinery and plant'.

<sup>(</sup>c) No significant production was recorded in other industries.

<sup>(</sup>d) Excluding 'Other boiler firing plant' for 1958.

<sup>(</sup>e) Including electrostatic precipitation plant for 1958.

<sup>(</sup>f) Not recorded separately for 1958.

TABLE 7 (continued)

	1958	1963
	Value	Value
Mechanical engineering products (continued)	£'000	\$,000
Miscellaneous (non-electrical) machinery (continued)		
Food and drink preparation, processing and sterilising machinery	Cin paytomni	
Mineral water, complete and parts (a)	22	32
Brewing and distilling, complete and parts (a)	153	66
Other	727	415
Complete	34	146
Parts (a) Pulverising machinery and plant, other than crushing	1	
machinery for quarry products, complete and parts (a)	604	572
Rubber working machinery, complete and parts (a)	37	63
Steel and non-ferrous metal rolling mills machinery and plant, complete and parts (a)	287	789
Ordnance and small arms	815	89
General mechanical engineering products		
Parts sold other than in association with the sales of complete machines	8 s2850cm	es temp
For metal working machine tools	44	57
For textile machinery	65	39
For contractors' plant and quarrying machinery For mechanical handling equipment	264	374
Conveyors and elevators, other than hay and corn	609	142
elevators	497	352
Cranes and bridge transporters	238	321
Other	236	021
For miscellaneous (non-electrical) machinery Mining machinery	264	232
Space heating, ventilating and air-conditioning equipment	215	132
Pumps, valves and compressors	310	183
Food and drink preparation, processing and		42
sterilising machinery	195	217
Other	1,445	100
For industrial plant	4,064	290
For other machinery	851	6,923
Other and unclassified mechanical engineering products Other industries	7,676	0,925
Iron and steel (general); and steel tubes	1,211	1,046
Iron castings	1,618	657
Non-ferrous metals	78	963
Electrical engineering	935	1,000
Shipbuilding and marine engineering	5,809	3,438
Motor vehicles, etc. manufacturing	1,290	2,144
Locomotives and railway track equipment; and railway carriages, wagons and trams	3,963	188
Miscellaneous metal manufacture		1.051
Metal furniture	308	1,054
Door and window frames, and casements of metal	256	141
Stampings and pressings	308	750
Vats, tanks and cisterns	170	13
Fencing material of iron and steel, other than of wire	180	482
Other	1,068	1,481
Other products	895	3,006
Total goods sold	56,238	47,473

TABLE 7 (continued)

	1958	1963
19854 19	Value	Value
Work done	£,000	£,000
Building and civil engineering work carried out in Great Britain including structural work and the erection and installation of air-conditioning, heating and ventilating plant, but not of other industrial machinery and plant (b)	gitten. Souther gotte	
Work done as main contractors	9,593	2,820
Work done as sub-contractors	10,351	1,971
(Less) estimated value of goods made and used in the contract work	10,022	2,341
Total work done exclusive of goods made and used in the contract work	9,922	2,450
Other work	amand week is	
Machinery and plant erected and installed and other installation work (c)		1,988
Repair and jobbing work	6,239	8,158
Other work done, on commission, sub-contract work, etc.	1,713	4,088
Services rendered to other organisations (d)	anti mini -	2,645
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	13,555	14,773
Canteen takings	598	776
Total	88,265(e)	82,351

- (a) Parts sold in association with the sale of complete machines.
- (b) The figures for 1963 are not strictly comparable with those for 1958 as explained in the second paragraph of the introduction to the report.
- (c) Other than for principal products of the industry.
- (d) Amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered to other organisations.
- (e) Excluding amounts charged for services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963 Firms employing 25 or more persons: United Kingdom

Selevine Sel	19	054	19	63
	Quantity	Cost	Quantity	Cost
Materials for processing	Th. tons	£'000	Th.tons	£,000
Iron	28	ra gelbelbe	i staratë taliatesi	
Pig iron, including refined pig iron, and other irons for re-melting (a)	49.1	809	15.5	391
Castings	25.2	1,760	17.8	1,504
Steel		343		254
Ingots, blooms, billets, slabs, and sheet and timplate bars	44.3	1,399	100	3,530
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (b)	407	13,959	414	22,168
Plates, 3mm. thick and over	313	11,254	443	21,866
Hoop and strip (including tape of all thicknesses)	} 313	11,234	14.2	770
Sheets under 3mm. thick (including electrical sheets)	24.8	1,094	34.9	2,126
Tinplate, terneplate and blackplate		54	0.3	23
Forgings (except drop forgings)	3.4	478 103	5.2	775 218
Castings	10.3	1,479 276	16.6	2,068 458
Tyres, wheels and axles (rail type)	5.6	451 {	0.3	85 10
Drop forgings (c)	1.9	205 77	3.6	396
Iron and steel not elsewhere specified except finished parts, wire and scrap	TO EQUIPMENT	tand For	SACO (S)	
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc.)	40.4	3,773 {	46.5	5,416 837
Other	9.4	752 {	17.2	2,686 1,033
Precision chain (e.g. transmission and timing)		187	100	129
Springs, laminated and other types		94	240	99
Steel wire and wire manufactures (excluding insulated wires and cables) (d)	2.00		***	
Wire (single wire)	do aco	65	BAT	660
Wire manufactures including wire cables and ropes and stranded wire of two or more ply	of boild	136	383	87
Ferro alloys		58	258	779
Iron and steel scrap	CE 81 01081	278	188	128
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap	3,316		200	
Aluminium and aluminium alloys	5.3	1,588 {	3.5	1,283 228
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	2.7	957 {	2.3	762 105
Copper (excluding blister) (e)	0.6	265 {	0.9	391 85
Lead and alloys of lead (excluding solder)	2.6	377 {	0.5	61 18
Zinc and alloys of zinc	2.1	175	2.8	237

TABLE 10 (continued)

	195	54	196	1963	
	Quantity	Cost	Quantity	Cost	
Materials for processing (continued)	The Special	£,000	allo and to	£'000	
Solder, soft	ns do residence	4		41	
Non-ferrous metal wire (single wire, not insulated) (f)		7		150	
Glass in all forms, including finished parts		(g)		135	
Metal powders		(h)	Jens	112	
Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc.)		(h)	in sales bose	1,279	
	and in sent	3, 019 0170	Th.gal.	######################################	
Paint and varnish (including lacquers and stains)	thon bus go	717 {	351	520 61	
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)			Th.cwt.		
Polyethylene and polypropylene and co-polymers sheet, rod, film, foil, profile shapes and monofilament	Lasen na	Then had	0.1	8 8	
Polyvinyl chloride (including co-polymers) plasticised and unplasticised sheet, film, rod, foil, tube, profile shapes and foam	e veibalani	([] 2028	0.9	23 3	
Polystyrene sheet, film, tape, foil and foam		dual dares		8	
Phenolics and cresylics		(h) {	142-407-956		
Resins, solutions, emulsions, dispersions, moulding and extrusion compounds	A A SULE AND A SULE AN		{ 4.0	36 11	
Decorative and other laminated sheet, cast sheet, laminated or cast rod, tube and profile shapes			{ 3.4	27 45	
Thermosetting polyesters (including epoxide resins and resin glass fibre mixtures)		DAT THE	{ 3.4	49 13	
Refractory materials		2,108		1,950	
Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms, including finished parts	ther coated with the land of t	553	To the we	583	
Timber	Argil bes b		Th.stds.	TOTAR	
Softwood, sawn or planed, but not further prepared or manufactured		1,084	{ 2.9 ···	376 175	
Hardwood, sawn or planed, but not further prepared or manufactured		alales ao.	Th.cu.ft. 63.2	68	
31.wo.d7	Th.sq.ft.	33	Th.sq.ft.	53	
Plywood, including blockboard, laminboard and battenboard	411	30		11	
Woven piece goods (other than narrow fabrics)	5 98.1099 6	(h)	101 6	54	
Asbestos in all forms, including finished parts		588		938	
Other thermal insulating materials	2 48 D W	132	110012017 6	257	
Insulated wires, cables, strips and strands		179	tasking to	403	
Bolts, rivets, nuts and washers, screws, nails, tacks, et	c	1,803	(SielTinele	2,398	
Machinery bought for installation		(h)		20,729	
Purchased components for incorporation in firms' own products  Ball and roller bearings and parts thereof	a salumu bi	453	a paibulas	67	
Electric motors	No. of the last of	i serige	C	18	
Of less than 1 h.p.	1 ( 20000000	1,537	{   W	2,49	

TABLE 10 (continued)

property and the second	19	54	19	63
Connector Constity Cont	Quantity	Cost	Quantity	Cost
Materials for processing (continued)	Number	£,000		£'000
Purchased components for incorporation in firms' own products (continued)	LITERAL I	5 (0.70	Sessory sor	Solder,
Internal combustion engines	427	218 38	}	16
Industrial valves	agatemaloji	1,282	ARIST Ile	3,155
Gears and gear wheels of metal		625	17.0 angbe	779
Pumps	alošeola (.e Asmsve <b>.</b> ed	576	enicals (ac	1,500
Measuring instruments and gauges and parts			100	5.553
Industrial process measuring and control instruments and equipment	a stance	743 {	dalursy b	3,85
Other		120	ns enlant o	799
Plastic goods moulded and fabricated		170		183
Other components not elsewhere specified except those	CONTRACTOR BOOK		list sil	
of rubber and asbestos (j)	g cotpolyae	24,961	disolati ka	20,73
plants from March 1981 are the state of the	Th.gal.	estandan kee 101 best abo	Th.gal.	diseles adox
Lubricating oils and greases (including cutting oils and emulsions)	200	53 41	358	170
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought		10% alika	ero bha and	oned 4
as replacement	eligite.	2,247	alline .an	2,50
All other materials for processing		20,889	nolaurius 0.8	16,42
ackaging materials	jang basa Song basan	offer (Sank)	bac aviiba	
Paper and board	193 5015019		0040813388	
Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard		(asymmin)	adil madi	13
Wrapping paper (including paper coated with plastics and any laminates incorporating paper but not metal), moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard (except multiwall sacks)	}	37 {	including	raddul raddil ra
Timber		123	beturealus	
Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates	TEN TON TH	a channed	Th.cu.ft.	10 10 17
Timber (sawn or planed) for manufacture into packing cases, etc.	Jana	407 {	} { 601	17
Plywood for manufacture into packing cases	at water	undi telijo	Jacon goods	d assibil
Sheet, film, foams, etc., wholly or mainly of polyethylene (including bags and lay flat tubing)	edalnii aba	(h)	2 11s all s	1
All other packaging materials		56		8
uel and electricity (k)	Th. tons		Th.tons	
Coal	110	442	54.6	27
Coke (including screenings) and manufactured fuel	85.7	508 {	35.3	31
toke (Including Screenings) and manufactured ruot	Th.gal.		Th.gal.	5
	1,713	342	2,783	50
Derv fuel and motor spirit for use in road vehicles		47	4 300 000 000	14
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)	4,041	204 45	11,894	59 7

TABLE 10 (continued)

	19	54	19	63
	Quantity	Cost	Quantity	Cost
Fuel and electricity (k) (continued)	Th. therms	£,000	Th.therms	€,000
Gas	6,228	308 69	11,226	775 154
	Th.kWh		Th.kWh	
Electricity	220,519	1,134 {	332,150	1,936 415
Total cost of materials and fuel		107,116		161,689
Goods purchased for merchanting	O CONTRACTOR LA		Control Con	12,459
Canteen purchases	la de la serios	laste at.	Medical	738
Total cost of purchases				174,885

- (a) Described in 1954 as 'Pig iron except refined pig iron'.
- (b) 'Pillars rolled (not fabricated) including tube rounds and squares' were not included in 1954.
- (c) Described in 1954 as 'Drop forgings of iron and steel'.
- (d) Described as covering 'Iron and steel' in 1954.
- (e) 'Blister' was not specifically excluded in 1954.
- (f) Not specified as 'single' wire in 1954.
- (g) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given, and have been included in 'All other materials for processing'.
- (h) Not recorded separately in 1954.
- (i) 'Strips and strands' were not included in 1954.
- (j) Components of rubber and asbestos were not excluded in 1954.
- (k) The total quantity of electricity generated in firms' own establishments in this industry was 925 Th. kWh in 1954; owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given for 1963.

TABLE 11 Transport costs and employment of larger firms, 1963 Firms employing 25 or more persons: United Kingdom

Electric f.O	Unit	1963
Average number employed mainly on transport	No.	1,321
Fransport costs		
Wages and salaries	£,000	1,068
Derv fuel and motor spirit		648
Payments to other organisations for transport	YEULKI	3,565
Costs of operating road goods vehicles	Manager S	
Insurance		102
Vehicle licences	100	92
Depreciation	12707 - 10	436
Payments to other organisations for repairs and maintenance		216
Total	"	6,127

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

Contraction of the second of t	Amounts payable
Repairs and maintenance to	£'000
Buildings	558
Road goods vehicles	216
Plant, machinery, and other capital equipment	1,130
Insurance, licensing and depreciation of road goods vehicles (b)	630
Rates, excluding water rates	2,218
Hire of plant and machinery	958
Postage, telephone, telegrams and cables	1,469
Total	7,178

<sup>(</sup>a) No deduction is made for these payments to arrive at the figures of net output given in this report.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963 Firms employing 25 or more persons: United Kingdom

Year ended	Percentage of total number employed	Year ended	Percentage of total number employed  Per cent.	
1963	Per cent.	1963 (contd.)		
April (a)	1.8	November	0.1	
May	0.4	December	52.7	
June	2.7	1964		
July	1.0			
August	0.7	January	3.3	
September	9.0	February	0.8	
October	1.2	March	26.3	
	and the state of t	Total	100	

<sup>(</sup>a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of industrial plant and steelwork by larger firms, including sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

(i) Parts sold in association with the sale of complete machines characteristic of	19	58	1963	
this industry (a) (ii) Other parts sold (b)	(i)	(ii)	(i)	(ii)
Nace, expenses and religible	£,000	\$,000	£,000	£,000
arts of industrial plant and steelwork				
For grain processing machinery and plant, including rice milling machinery	744	159	839	_
For refuse disposal machinery	136	-	170	1
For sewage disposal machinery	164	25	458	54
For water treatment plant, other than plant for waterworks				
Water softeners, water filters and water sterilising equipment	Basis s	32 72 432		
Domestic			34	(c)
Other	1,053	22	145	
Other			595	-
For waterworks equipment and plant	105	56	161	211
For boilers and boiler-house plant, other than sectional boilers for central heating, boilers for ships, and locomotives, burners and furnaces				
Boilers	0.444		4.007	00
Water tube	2,411		4,067	66
Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers for central heating	797	761	1,452	
Boiler-house plant, sold separately				
Fuel economisers, feed water heaters and steam superheaters	407	-	2,130	14
Boiler firing plant	1,630	229	2,074	3,051
For furnaces and kilns				
Blast furnaces	1,194	1	2,188	184
Other metallurgical furnaces		2,098		
Electric	598		1,042	1
Gas	633	71	833	146
Oil	144	h 1	506	
	76	40 {	251	-
Other descriptions		1 000		100
Other furnaces and kilns	261	348	931	162
For chemical making machinery and plant excluding centrifuges and other drying machinery, industrial mixing equipment and filter presses			inecess:	
Distillation plant, other than for potable spirits				
For mineral oil refining	891	2,680 {	3,438	149
Other	243	1	273	6
Evaporators and crystallisers	h	1	1	
Solvent extraction equipment			265	-
Solvent recovery equipment	2,451	668	J	
Other and unclassified chemical making machinery				
and plant			3,055	758

<sup>(</sup>b) For details see Table 11.

#### TABLE 14 (continued)

<ul><li>(i) Parts sold in association with the sale of complete machines characteristic of this industry (a)</li><li>(ii) Other parts sold (b)</li></ul>	1958		1963	
	(i)	(ii)	(i)	(ii)
	£,000	\$,000	£,000	£,000
Parts of industrial plant and steelwork (continued)		(#) vs	his ledge!	
For gas making plant	Test test			
Coal carbonising plant	878	690	1,371	81
Water gas, producer gas and complete gasification plant	1,014	340	1,038	130
For electro-plating plant and machinery	2 050	,958 349	2,712 {	153
For other iron, steel and non-ferrous metal works plant	5 2,956			530
Total	18,792	8,537	30,029	5,695

(a) Principal products of this industry.

(b) Principal products of General Mechanical Engineering.

(c) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given and have been included with parts for other iron, steel and non-ferrous metal works plant.

### Capital Expenditure (continued).

(ii) Land and existing buildings.

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

#### Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

#### Enterprise

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

#### Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

#### Establishment

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other

ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

#### Gross Output

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

#### Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

#### Net Output

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

#### Net output per person employed

The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

#### Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

#### Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

#### Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

### Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other

services rendered to other organisations. It includes amounts credited for similar services rendered to other departments of the same firm not covered by the return.

These are firms in which fewer than twenty-five persons were employed on the average during the

#### Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

#### Transport Payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

#### Wages and Salaries

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded; in Northern Ireland this exclusion extends also to payments to directors of limited companies. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to National Insurance and pension schemes is excluded.

#### Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

The following symbols are used throughout the

- .. Not available
- Nil or negligible (less than half the final digit shown)
- Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

#### Rounding of Figures

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

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