

BOARD OF TRADE

FINAL REPORT on the CENSUS OF PRODUCTION FOR 1948

Volume 4

Trade C

MACHINE TOOLS



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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 25.0d.

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MACHINE TOOLS TRADE

THIS REPORT on the Machine Tools Trade relates to establishments engaged wholly or mainly in the manufacture of metal-working machine tools, engineers' small tools for use with machine tools, and welding machinery of all descriptions.

This trade corresponds to minimum list heading 54 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1946, 1937 or 1935.

Larger establishments

TABLE I

. O D L I				
	1948	1946	1937	1935
	£'000	£'000	£'000	£' 000
Gross output (production)	69,819	49,146	16, 355	10,303
Cost of materials and fuel used	25,931	18, 159	5, 680	3 , 376
Payment for work done on materials given out	1,164	863	165	54
Net output	42,724	30,124	10,510	6,873
Wages and salaries of persons employed	25,877	20,350		
	No.	No.	No.	No.
Average number of persons employed (a)	76,531(b)	70,051	33, 658	26, 168
	٤	3	£	٤
Net output per person employed (a)	558	430	312	263
Stocks at end of year	£' 000	£' COO	£'000	£' 000
Finished products and work in progress	14, 359	9,714	3,299(c)	2,305(c)
Materials and fuel	6,836	4, 341	••	••
	No.	No.	No.	No.
Number of establishments	616	••	••	195

(a) Excluding outworkers.
(b) For an estimate of the total number of persons employed in this trade see Table 3.
(c) Work in progress only.

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

	1948	1946	1937	1935
Output of firms in this trade	£' 000	£1 000	£' 000	£' 000
Total value of sales (1948 and 1946) or production (1937 and 1935)				
Principal products (see Table 8)	60,483	48.085	14,900	8,950
Other output (see Table 10)	7,844	40,000	923	710
Adjustment for changes in stocks and work in progress	+ 1,858(a)	+ 1,061	+ 532(b)	+ 643(b)
	70, 185	49, 146	16, 355	10,303
Less payment for transport by other firms	366	49, 140	10,000	10, 505
Gross output (production)	69,819	49,146	16, 355	10,303
Materials and fuel used by firms in this trade				
Purchases (see Table 13)	26,732	18,697	5 000	7 77 6
Adjustment for changes in stocks	- 801(a)	- 538	5,680	3, 376
Materials and fuel used	25,931	18, 159	5,680	3, 376

(a) See Table 14.
(b) Work in progress only.

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Summary, 1948 Small firms in Great Britain

TABLE 2

Number of returns	261
Average number of persons employed (a)	200 CO
Males	1,467
Females	254
Total	1,721

(a) Including working proprietors.

Estimated average employment, 1948 All firms in Great Britain .

TABLE 3

As returned by firms	300.1 7 8 8 7 9 7 7 9
Employing on average more than ten pe	ersons (a) 76,531
Employing on average ten persons or	less (b) 1,721
AREA AREA AREA AREA AREA AREA AREA AREA	78, 252
Estimated average employment in firms a satisfactory returns	not making 751
Estimated average employment in all fi	rms 79,003

(a) See Tables 1 and 15. (b) See Table 2.

Analysis by size, 1948 Larger establishments in Great Britain

TABLE 4

Average	Establish-	Gross	Net	Persons	R		Net output	
number employed	ments	output	output	employed	Wages	Salaries	Total	per person employed
	No.	£¹000	£!000	No.	£1000	£1 000	£1000	£
11-24	162	2, 213	1,488	2,946	738	221	960	505
25-49	153	4,653	3,062	5, 361	1,409	445	1,854	571
50-99	119	7,780	4,574	8,167	2, 118	654	2,772	560
100-199	97	14, 199	8,403	14, 153	3,716	1, 165	4,882	594
200-299	28	5,995	3,852	6,799	1,689	618	2, 307	567
300-399	18	5, 320	3, 347	6, 157	1,554	508	2,062	544
400-499	7	2,462	1,624	3, 140	806	203	1,010	517
500-749	15	8,888	5,045	8,796	2, 278	905	3, 183	574
750-999	8	5,083	3, 253	6,933	1,776	521	2, 296	469
1,000 and over	. 9	13, 226	8,076	14,079	3, 533	1,019	4,552	574
Total	616	69,819	42,724	76,531	19,617	6, 260	25,877	558

MACHINE TOOLS

Larger establishments

Analysis by standard region, 1948 Larger establishments in Great Britain

TABLE 5

1,000									
Databliah	One on	Net o	utput	Dongong	Remuneration				
ments	output	Value	Percentage of total	employed	Wages	Salaries	Total		
No.	£¹ 000	£'000		No.	£' 000	£1000	£1 000		
		isani							
7	1,080	696	1.6	1, 319	305	93	398		
119	16,910	10,040	23.5	18, 240	4, 371	1, 177	5, 548		
27	4,002	2, 517	5.9	4, 373	1,054	388	1,442		
15	2, 257	1,099	2.6	2,095	538	153	692		
17.1	10 501	200000000000000000000000000000000000000	40.0	47,000	7 000	1.010	4.014		
171	12, 381	7,555	17.7	13,080	3, 090	1, 219	4,914		
11	723	460	1.1	847	216	70	286		
17	1, 171	660	1.5	1,400	323	125	448		
157	21, 511	13,657	32.0	23, 354	6, 389	2, 163	8,552		
65	6,726	4, 190	9.8	7,816	1,940	617	2, 557		
589	66,761	40,876	95.7	73, 130	18,832	6,005	24, 837		
6	465	256	0.6	493	144	26	171		
21	2, 593	1,592	3.7	2,908	642	229	870		
616	69,819	42,724	100.0	76,531	19,617	6, 260	25,877		
	No. 7 119 27 15 171 11 17 157 65 589 6 21	ments output No. £'000 7 1,080 119 16,910 27 4,002 15 2,257 171 12,381 11 723 17 1,171 157 21,511 65 6,726 589 66,761 6 465 21 2,593	Establishments Gross output Value No. £'000 £'000 7 1,080 696 119 16,910 10,040 27 4,002 2,517 15 2,257 1,099 171 12,381 7,555 11 723 460 17 1,171 660 157 21,511 13,657 65 6,726 4,190 589 66,761 40,876 6 465 256 21 2,593 1,592	ments output Value Percentage of total No. £'000 £'000 7 1,080 696 1.6 119 16,910 10,040 23.5 27 4,002 2,517 5.9 15 2,257 1,099 2.6 171 12,381 7,555 17.7 11 723 460 1.1 17 1,171 660 1.5 157 21,511 13,657 32.0 65 6,726 4,190 9.8 589 66,761 40,876 95.7 6 465 256 0.6 21 2,593 1,592 3.7	Establishments Gross output Value Percentage of total Persons employed No. £'000 £'000 No. 7 1,080 696 1.6 1,319 119 16,910 10,040 23.5 18,240 27 4,002 2,517 5.9 4,373 15 2,257 1,099 2.6 2,095 171 12,381 7,555 17.7 13,686 11 723 460 1.1 847 17 1,171 660 1.5 1,400 157 21,511 13,657 32.0 23,354 65 6,726 4,190 9.8 7,816 589 66,761 40,876 95.7 73,130 6 465 256 0.6 493 21 2,593 1,592 3.7 2,908	Establish ments Gross output Value Percentage of total Persons employed Wages No. £'000 £'000 No. £'000 7 1,080 696 1.6 1,319 305 119 16,910 10,040 23.5 18,240 4,371 27 4,002 2,517 5.9 4,373 1,054 15 2,257 1,099 2.6 2,095 538 171 12,381 7,555 17.7 13,686 3,696 11 723 460 1.1 847 216 17 1,171 660 1.5 1,400 323 157 21,511 13,657 32.0 23,354 6,389 65 6,726 4,190 9.8 7,816 1,940 589 66,761 40,876 95.7 73,130 18,832 6 465 256 0.6 493 144 21 2,593	Establishments Gross output Value Percentage of total Persons employed Wages Salaries No. £'000 £'000 No. £'000 £'000 7 1,080 696 1.6 1,319 305 93 119 16,910 10,040 23.5 18,240 4,371 1,177 27 4,002 2,517 5.9 4,373 1,054 388 15 2,257 1,099 2.6 2,095 538 153 171 12,381 7,555 17.7 13,686 3,696 1,219 11 723 460 1.1 847 216 70 17 1,171 660 1.5 1,400 323 125 157 21,511 13,657 32.0 23,354 6,389 2,163 65 6,726 4,190 9.8 7,816 1,940 617 589 66,761 40,876 95.7 <td< td=""></td<>		

TABLE 6 - Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

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

TABLE 8

	ALL STATES OF THE STATES								
Kind of output				1948 ales		193 Produc		1935 Product	
(i) Complete machines(ii) Replacement parts		Quant		Value	Entries	Quantity	Value	Quantity	Value
Machine tools, metal-wor new (other than portabl power tools) (a)	king,	No.	Tons	£' 000	No.	Tons	£! 000	Tons	£'000
Boring	r				253				
Jig	(1)	68	152	96 21	7	}	(p)	Netty exects	(b)
Other types					1				
Vertical, including vertical fine boring machines and boring mills	$\begin{cases} (1) \\ (11) \end{cases}$	1,094	3, 302	831 6 63	9 6	1, 564	1 99	1,024	138
Other	\((1)\)\\((11)\)	956	3,054	958 2 93	} 16 13	4,065	477 13	2, 158	289
Broaching	{(1) (11)	71	238	89 6	7	126	25 1	53	8 -
Drilling				1808	Sea I	Kan Tanah			
Vertical (pillar and bench types)	{ (i) { (ii) }	22,502	3, 555	943 311 88	} 26 22	391	40(c)	No de de deserva	
Radial	{(1) (11)	1,797	5,646	1, 327 55	11 10	4, 430	484 17	(1) 5,979	645
Multi-spindle, not included above	(1) {	527	1,003	472 8 11	12 8	848	123(d) 3	(11)	35
Other	(i) { (ii)	578	705	256 9 40	19	3, 284	400 27		
Gear cutting	{(i) (ii)	306	952	474 21	14 10	846	229	485	69 8
Grinding, other than threading					and the				
Centreless	{(i) (ii)	176	624	275 19	5	409	103 1	THE PART OF THE	
Plain	$\begin{cases} (1) \\ (11) \end{cases}$	1,714	2, 177	673 59	12 7	1,667	283 1	Coeresta	
Surface	\((1)\)\\((11)\)\	932	2, 344 5	657 2 80	19	1,645	227 4		
Tool and cutter	$\begin{cases} (1) \\ (11) \end{cases}$	1,420 83	525	201 17 8 21	26	328	70		
Universal	{(1){	216	612	248 10 27	7 6			SHIRE OF	
S 34252/1								LINE	ENE REL

TABLE 8 (contd.)

Kind of output				.948 .les		P	193 roduc		1935 Production		
(i) Complete machines (ii) Replacement parts		Quant		Value	Entries	Quanti	ty	Value	Quantity	Value	
Machine tools, metal-work new (other than portable power tools) (a) (contd.	e	No.	Tons	೯' 000	No.	Tons		£1000	Tons (i) 5,265 (ii) ••	&'000 866(e) 33	
Grinding, other than threading (contd.)						(i) 2, (ii)	389	424 27	(11)		
Other	(1)	4,859 437 ••	2,031	730 65 88 82	51 37						
Unclassified	{(1){	204	257 ••	5 72 12	6		-				
Lathes			0.000	4 740	15	1	056	279	5,863	1,057(f)	
Fully automatic (automatics)	(ii) (iii)	1,144	2,609	1,749 249	15 21	19	056	30	••	142	
Capstan and turret	{ (1) { (11)	2,928	4,623	2, 169 34 381	17 22	6,	654	1, 549 178			
Centre	{(1)}	12,084	13, 243	4, 101 7 206	56 49	8,	803	1, 139 (g) 28			
Multi-tool or production	{(1) (11)	308	695	355 29	8 6	100 an	874	228 5	(i) 8,026 (ii)	809 38	
Surface and boring	(i) { (ii)	127 9	346	126 17 2 8	10					•	
Tool-room	{(ii)	310	850	325 10	5	(1) 2 (11)	, 147	257 20			
Other	{(1)}	1,201	1,795 26	483 7 61	31 24					,	
Milling, other than threading											
Vertical	{ (i) (ii)	210	546	247 25	11 12	1	, 888	464 18			
Plain horizontal	(1) (11)	953	984	379 21	14 13	2	,041	452 17			
Universal	{ (1) (11)	985	1,889	844 44	11 9		591	141	(1) 2,822	572(e) 27	
Manufacturing	{(1) (11)	215	865	391	5 -	(1)	ı , 41 5	231	(11)	27	
Other	$\begin{cases} (1) \\ (11) \end{cases}$	461 106	1,203	393 33 8 22	26		••	1			
Unclassified	(11)	••	••	196			-	-			
Threading	{ (1){ (11)	308	406 68		} 15 10		268	122 (h 5		(b)	
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TABLE 8 (contd.

TABLE 8 (contd.)	ABLE 8 (contd.)										
Kind of out	no franchis		19 Sa	48 les		193 Produc	tion	. Produc	tion -		
(i) Complete machin (ii) Replacement par	es	Quant:	ity	Value	Entries	Quantity	Value	Quantity	Value -		
Machine tools, metal- new (other than port power tools) (a) (co	able	No.	Tons	ธ'000	No.	Tons	£'000	Tons	£'000		
Planing	\(\begin{aligned} \((1) \\ (11) \end{aligned} \end{aligned}	106 17	2,434	430 86 6 49	14	5,908	485 4	2, 357	185		
Sawing	{ (1) { (11)	6,994	2,279 55	494 21 60 36	31 23	1,444	152 5	844	87		
Shaping	{ (i) (ii)	2,016	2,403	611 16	17 8	1,128	124	1,156	99		
Slotting	{ (i) (ii)	149	807	173 7	7 9	799	109	552	58 1		
Presses, other than forging (1)	n							cedim sca	Course .		
Hydraulic					1 - 20			ARIS NASTEEN	6.000		
Extrusion	(1)	31	1,034	172 57	9 8	238	28	and meter and	1000 1000		
Other	{ (1) { (11)	1,404	3,755 72	720 14 88	31 24		e Lie	(1) 10,821	685 45		
Manual	\(\begin{aligned} (1) \\ (11) \end{aligned}	7,305 718	1,219	142 21 10	20	(1) 11, 614 (11)	808 73	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Other description	$ \begin{array}{c} \text{ns} \begin{cases} \text{(1)} \\ \text{(11)} \end{array} $	2,818	9,587	1,673 161 195	31 21			224	de la		
Punching and shear	$\lim_{n \to \infty} \left\{ \begin{array}{c} (1) \\ (11) \end{array} \right\}$	6,208	2,246	414 56 238 85	50 40	3, 403	207(J)	2,263	118		
Tin box and can making	{(1) {	1,038	693 289	394 65 167	12 13	393	50 6	185	26		
Forging machinery				,	1005	The Bra		- Anna Santa	•		
Presses							No.				
Hydraulic	{ (i) } (ii)	38 6	415	81 10 82	6 8		33	THE DELL			
Other	{ (i) { (ii) }	164	1,575	253 4 34	12 9	(i) 4,010 (ii) ••	241 51				
Other forging machinery	\(\begin{aligned} \ (11) \\ (11) \end{aligned}	396 76 ••	3,181	463 64 47 224	}		5.00				
		-									
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TABLE 8 (contd.)

Kind of output	THE REAL PROPERTY.			1948 ales	1955 1 195	193 Produc		1935 Production		
(i) Complete machines (ii) Replacement parts		Quanti		Value	Entries	Quantity	Value	Quantity	Value	
Machine tools, metal-working new (other than portable power tools) (a) (contd.)	ıg,	No.	Tons	£! 000	No.	Tons	£1000	Tons (1) 5, 181 (11)	£' 000 477 74	
Lapping and (1) and honing	(11)		••	86	13					
Straightening rolls, and plate and sheet metal working machines, not else- where specified	(1){	7,272	3,620 578	570 97 44	39 24				Page -	
Screwing	$\begin{cases} (1) \\ (11) \end{cases}$	1,475	681	264 5 38 125	3 8	(1) 4,725	687			
Other metal-working machine tools, new	$\begin{cases} (1) \\ (11) \end{cases}$	4,420	3, 353 305	808 102 243 289	105				.325	
Unclassified metal- working machine tools, new	$\begin{cases} (1) \\ (11) \end{cases}$	218	71 134 ••	28 64 178 368	42 48	-	-		-	
Reconditioned metal- working machine tools	$\begin{cases} (1) \\ (11) \end{cases}$	2, 389 315	6,666	886 161 497 101	} 56 15	}	(b)	••	(b)	
Welding and cutting machir and equipment, other than tube making (k)	lery			77.73						
Electric					1 2 6 7			Entre Property of the		
Arc welding				10000						
Alternating current (transformer)								There is a second		
Single and double operator	\((1) \\ (11) \\	3,303 1,160	1,015	253 71 4 44	19			and beautiful		
Other	$\begin{cases} (1) \\ (11) \end{cases}$	897 130	206	73 49 13	11 11			and the same		
Direct current								1 1 5 (1 5 (1 5)		
Single operator	$\begin{cases} (1)^{n} \\ (11) \end{cases}$	3,301	1,856	425	11 7			Calley Const		
Other	$\begin{cases} (1)^4 \\ (11) \end{cases}$	••	298	25 16	5			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Other descriptions	$\begin{cases} (1) \\ (11) \end{cases}$	••		32	5					
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TABLE 8 (contd.)

Kind of output			1948	247		T		193	37	1935 Production	
(1) Complete machines (11) Replacement parts	Quant		Value	En	tries	1	Quanti		value	Quantity	Value
(11) Replacement parts	No.	Tons	£1000		No.	-	Tons		£' 000	Tons	£1000
Welding and cutting machinery and equipment, other than tube making (k) (contd.)							(1) 1, (11)	460	276 22	1, 287	221 14
Electric (contd.)						-		Y. Co	omico sevoc	30 1118311	
Resistance welding									elitani bis Jos tudi 1	alitan kas	
Butt and flash $\begin{cases} (1) \\ (11) \end{cases}$	103	157	121 24 46	}	10				iests fest Teles fest	erege Kyl erege Kyl Allian	
Spot and $\left\{ \begin{array}{ll} \text{(1)} & \left\{ \end{array} \right. \right.$	550 453	301 339	112 86 126 124 88	}	16 13				PED John A	asta morte 1967	
Seam (1) { (11)	25	31	33 25 29	}	6					passot se	.17.
Other $ \begin{cases} (1) \\ (11) \end{cases} $		50	30 15 15	}	8		2000				
24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To	ns								CONTRACTOR OF THE PARTY OF THE	
Gas welding and cutting torches and equipment		79	676 341	1	19			149	102	74	73
Other descriptions, includ-		60	237 135	1	0.84			••	75	min to Links	52
Electrodes (other than carbon) for arc welding	Mill. ft.	Tons	\$ 100 miles	ľ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					teri	
Ferrous	728.0	28,406 3,084	2, 230 251	}	20				W-3092		
Non-ferrous {	12.6	366 25	173 21 77		15			•••	679	sizando en	541
Engineers' small tools and parts	Th.	doz.	101,504						Ted Stoke	the loof of	20,020
Hard metal							.00T				
Hard metal tipped tools		38	1,670 214	}	40					ense smill	128
Hard metal tips and inserts, sold separately	2	26	569 404	1	22				(b)	3400 300	(b)
Hard metal dies			280		23				Creme accid	1 1/2 Late	98.00
Hard metal die pellets, sold separately			108		9				alout te	CASS DES SE	18.4
			1 m						29187	Las been	
			100							er de la	
			1							5.6/103	THE STATE
DS 34252/1										/ 11	PERSON DE

TABLE 8 (contd.)

marka di marka na popularia	ru Pi - Ia	P	1937 roducti	on.	5 tion					
The state of autor T	Quant	ity	Value	Entries	Quan	tity	Value	Quai	ntity	Value
Engineers' small tools and parts (contd.)	Th. do:	Z.	£'000	No.	Th. d	oz.	£! 000	Th.	doz.	£'000
Other than hard metal (1)									OPERAL LES	o one
Drills, cylindrical, helically grooved commonly known as twist drills, bit stock drills and machine bits for wood (but not including auger bits)				400				y dans	omarale	
High speed steel twist drills		1,185		26						
Carbon steel twist drills	11	76	166 63	10	7	73	449 164		668	257 27
Other	11	29	86 250	16				1322		
Press tools	3	.4	661 2,012	281		••	512		•• 0000	229
	Th. doz.	Th. cwts.		1 50	Th. doz.	Th. cwts.		Th. doz.	Th. cwts.	
Hacksaw frames	49 21	6.3	98 29 11	13	17	2.3	19	12	1.3	12
Hacksaw blades		84	9.33				3021313 31230	30 tema Eluga i	SOLL SAN	202
Regular tungsten	2,467 3,596	14.6	301 459	16	4, 130	29.4	475	3, 415	25.2	359
Other	259 602	2.4	128 504 7	13	1, 100	2001	1223	0 108		TIDDAL A KOT
	Th. o	cwts.	1	21 70E x						
Lathe chucks	32.	6	576 307	27						-101
Drill chucks	3.	1	151 100	21		••	448 (m)			204(m)
Other tool and work holders			463(n	1) 14						ATTENDED TO
	Th.									
Slitting saws	(1	55	334 61	18				Maki		
Milling cutters	()	39	90 <u>4</u> 394	} 74			-0.11/3.503	0.508		
Reamers, end mills and similar shank tools	51	30	714 406	73	47		gener to	3915		
Lathe and planer tools			1 200					deter		
Welded and brazed	1	84	352 50	11						
Other	11	83	233	37			3,067			1,685(0)
Broaches		2	328	21			(0)			2 50
DS 34252/1									The state of	

TABLE 8 (contd.)

	27867	1948 Sales			.937 uction	19 Produ	35 ction
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Engineers' small tools and parts (contd.)	Th.doz.	£'000	No.		£' 000	10 2011	£' 000
Other than hard metal (e) (contd.)							
Cut and ground thread screwing tackle	••	3,021	46				
Moulds and dies		2,055	190				
Gear cutters, not elsewhere { specified (n)	2	144 182	5				
Other metal-cutting tools, except saws and saw blades	152	747 457	64				
The same of the same of the same	Th. cwts.	- 110				Tables and	
Jigs and fixtures	14.6	808 3,121	347				
Unclassified engineers' small tools and parts		3,956	93	2	-	_	-
Waste products, other than scrap iron and steel		47	94		(b)		(b)
Repair and jobbing work (p)		662	112		162	a figure society	131
Work done for the trade or on commission (p)		608	106		58		51
Total		75, 116			18,000		10,480
Less sales (or production)		7.7					
in other trades (see Table 9)	4 32	14,632	••		3, 100		1,530
Total principal products of this trade sold or made by establishments in the trade		60,483	570		14,900	78/7 2/30 (110)	8,950

(a) Not described as new in 1937 and 1935.
(b) Not recorded separately.
(c) Bench types only.
(d) Described as "Multiple".
(e) Not described as excluding threading ma
(f) Including semi-automatic lathes.
(g) Described as "Centre and engine".
(h) Thread grinding and thread milling mach

Not recorded separately.

Bench types only.

Described as "Multiple".

Not described as excluding threading machines.

Including semi-automatic lathes.

Described as "Centre and engine".

Thread grinding and thread milling machines only.

The figures for 1937 include some presses other than metal-working, and those for 1935 include some forging presses.

May include machines other than metal-working.

Described as "Welding machinery, other than tube making" in 1937 and 1935.

The figures for 1937 and 1935 include hard metal tools.

Described as "Chucks and other work holders".

So far as recorded separately.

So far as recorded separately.

Described as "Engineers' tools, not elsewhere specified, only usable with machine tools".

Amount charged in 1948 and amount received in 1937 and 1935.

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

TABLE 9

Kind of output (i) Complete machines	3		1948 Sale			193 Produc		1935 Product	
(11) Replacement parts		Quanti	ty	Value	Entries	Quantity	Value	Quantity	Value
Machine tools, metal-working, (other than portable power tools)	new	No.	Tons	£1000	No.	Tons	£1000	Tons	£1000
Boring									
Jig	(1)	28	5	5					
	(1)	421	287	80	\	(1) 92	12	}	-
Other types	1 1	••.	3	- 2		(11)	3	}	
	(11)	••	••	14	•••				
Broaching	(i)	_	-	-	_	63	6	6	1
Drilling									
	(1)	1,715	59	17	}	20	1	1	
Vertical (pillar and bench types)	(ii)		••	3 13	5	_	-		
	(1)	_	_	_	_	68	7		
Radial	{(11)	••:	••	2	••	_	_	(1)284	17
Multi-spindle, not included above	(1)	5	3	2	••	117	9	(11)	2
unia dana	,	291	73	33	10	82	9		
Othon	(i)	••	•••	9					
Other	(11)		••.	9	7	_	-		
	(1)	122	119	47		228	55	262	27
Gear cutting	(11)		• • .	2			1	-	_
Grinding, other than threading									
Plain	(1)	6	6	3	•••	65	5 5		
	(1)	99	54	24	••	2	2 1		
Surface	(11)			1	5		-	•	
		359	88	35					
	(1	18	••	13	10	2	5 12	3	
Tool and cutter	-		••	1				(1)209	30
DS 34252/1	(11)	••	5	6			(11)	4

TABLE 9 (contda)

Kind of output (1) Complete made			19. Sa.	48 les		193 Produc		1935 Product	
(ii) Replacement	parts	Quant	ity	Value	Entries	Quantity	Value	Quantity	Value
Machine tools, metal-work new (other than portable tools) (contd.)	cing, e power	No.	Tons	£1000	No.	Tons	£'000	Tons	£1000
Grinding, other than the (contd.)	nreading		301						
		661	72	35					
	- (4)	410	••	35		77	10		
Other, including universal	(1)	···	17	6			10	anto	l l
	1 1	••		10) days	2016 70 (2007)	
	(11)			14		-	-		
	[(4)]	204	17	5	6	_	_	at an ha	
Unclassified	(1)		257	72					
	(11)			12	6	-	-		
Lathes						42.3			
Fully automatic (automatics)	{ (i) (ii)	20	80	16 44	6	235	50 2		
Capstan and turret	(i) (ii)	116	95	3 5 38	6 11	269	58 8		
		626	1,129	373			000	100.000	
-Centre			14	7	14	317	26	(1) 756	63
	(11)			43	12		. 5	(11)	12
		1	35	7					
Surface and boring	(1)		••	2	∬		notice	o bay xee	m21
		446	421	111		(1) 689	73		
Other, including multi-tool or	(1)		14	4]	(11)	16		
production	(11)			21			18780		
Milling, other than th									
Plain horizontal	\[\begin{pmatrix} (1) \\ (11) \end{pmatrix}	128	54	21 7	5	110	30		
0.13	(11)		211	137				(1) 93	9
Other, including vertical, universal and manufacturing DS 34252/1	$\begin{cases} (1) \\ (11) \end{cases}$	210 51		9 1 14	}	287	44		DATE OF

TABLE 9 (contd.)

Kind of output (1) Complete machines		22 5200 222	194 Sá:	48 Les		1937 Product	ion	ion Production			
(11) Replacement parts		Quan	itity	Value	Entries	Quantity	Value	Quantity	Value		
Machine tools, metal-working, n (other than portable power tools) (contd.)	ew	No.	Tons	£!000	No.	Tons	£'000	Tons	£1000		
Threading	(1){	193	182 68	109 20	9	169	86 1	••-	(a)		
Sawing	(11)	2,412	766 12	163 5 25	15	358	37	388	36 1		
Shaping	(11) (11)	153	128	19 54 -	12 6 -	380	28 1	226	12 1		
Slotting Presses, other than	(i)	2	5	1	••.	36	5	- Den	-		
forging Hydraulic	(1)	146	975 72	176 14 45							
Manual	(1)	971 109	67	18 3 1	7 6	(1) 5,172	355 - 39	4,264	239		
Other descriptions	(1)	925	3,744	575 1 40	16			Sements			
Punching and shearing	(i) (ii)		206 • 44	51 13 8 29	21	863	55	306	3		
Forging machinery	(11)	241 71 	1,065	195 50 12 172	}	1,068	71				
Tin box and can making	(i) (ii)	61	2	35 1 9	5 6 5			(1) 1, 291	111		
Dapping and	(11)	- 074	547	64			2000				
Straightening rolls, and plate and sheet metal working machines, not elsewhere specified	{ (1)	1	347 131 ••	20 14	9	(1) 1,378		5			
Screwing	{ (i (ii	1	38	13 38 16	6			7			

TABLE 9 (contd.)

Kind of output (i) Complete machines			194 SaJ			193 Produc		193 Produc	
(ii) Replacement parts		Quant	ity	Value	Entries	Quantity	Value	Quantity	Value
fachine tools, metal-working,	MAIN	No.	Tons	£1000	No.	Tons	£!000	Tons	£1000
new (other than portable pow tools) (contd.)	er	1 000	1,889	201		3,29,			
Other metal-working machine tools, new, including planing	(1)	1,989	232	357 62 73		ediz ediz		director	
machines	(11)		0.00.	98	1	- salte		darjionak i exibio	
Unclassified metal- working machine tools, new	(i) (ii)	151	44 114 ••	14 40 94 209	25	7200	(desegiu Son (ac aca)	5 545_66 (5070)_06	enos en saels
deconditioned metal-	(1)	110 72	205	35	20			Buthles	
working machine tools	(11)		80	34 6 38	9	}	(a)		(a)
Welding and cutting machinery and equipment, other than tube making (b)					# A			2077	
Electric									
Arc welding				,		entac i	as stood	Chara le	
Alternating current { (transformer)	(11)	3,073 423	875	222 87 4 44			t boe so	Lades 3 Assem	
Direct current						1.2		CTRIPS T	
Single operator	(i) (ii)	1,788	623	257 3 11	}			Ab da an	
Other descriptions (including direct current, other	(1)	91	50	25 8	} ••	(1) 607	115	904	128
than single operator)	(11)	••	••	18	••	(11)	5	oo dino	6
Resistance welding			0.0	70		Tagus Sci		(1 de 4) to	
Spot and projection	(i) (ii)	121 285	66 339	36 54 126 13	9 6	Sal		bests for	
Other (including butt and flash butt and seam)	(1)	35	27 29	21 15 3	••	eritro k		ada podni Talij	
David and Soan)	(11)	••	614	9	••			aloud se	

TABLE 9 (contd.)

notes Attended tentering	8017203	194	18	56,630°	193'	7	1935	
A 1000 12 1997 200 12 19 A007		Sal	.es		Product	tion	Product	ion
TOTAL PORTO DE LO TOTAL DE LA CONTRACTOR	Quanti	ty	Value	Entries	Quantity	Value	Quantity	Value
	Ton	ıs	£1000	No.	Tons	£1000	Tons	2,000
Welding and cutting machinery and equipment, other than tube making (b) (contd.)			202	050 ±1	11.2)	noint	e-lease a leas cabi la selbil	
Other descriptions (including gas welding and cutting torches and equipment)	11	3	26 43	{	89	89 74	60	66 52
Electrodes (other than carbon) for arc welding	Mill. ft.	Tons	200	0.50				
Ferrous	133.7	4,645 364	398 29	8		115	ns machin	62
Non-ferrous	0.9	43	13 16	5	Version of	iosm, poly for tendo	Juo Das 3 Jusuqiup Jaskina (b	Stolen bos edui
	Th.	doz.	18				0.077	
Engineers' small tools and parts							galetay à	
Hard metal			37876 .	200 gg	(th)	normo o	forester (A	
Hard metal tips and inserts, sold separately		17	40 216	6		(a)	(Tropaco)	(a)
Hard metal tipped tools, dies and die pellets (sold separately)		TEI E	382	88741			arsoft.	
Other than hard metal			02 8	te		roolidi,	Serio resisto	
Drills, cylindrical, helically grooved, commonly known as twist drills, bit stock drills and machine bits for	(440)		6			75076	THE STUD	
wood (but not including auger bits)			l sa			20044040	Th.doz.	
	9	AB (%)	10 20 1	ale.	Th.doz.		1116 0026	
High speed steel twist drills	10	44		-				
Carbon steel twist drills		T 0.	-	9	130	58	10	6
Other		21	70 234	}		HEALT THERE	ons type	
Press tools DS 34252/1		1.7	119 534	A STATE OF THE PARTY OF THE PAR		203	••	45

TABLE 9 (contd.)

TABLE 3 (CONTUL)	82	0320	1010	9613Q R	8 3.2 0 3 4 5	100 (10				
	3	2 04 3	1948 Sales	rger es	P	1937 roducti	on	P	1935 roducti	on
	Quan	tity	Value	Entries	Quan	tity	Value	Quan	tity	Value
Production Production	Th. doz.	Th. cwts.	£1000	No.	Th. doz.	Th.	£1000	Th. doz.	Th.	£1000
Engineers' small tools and parts (contd.)		0.000103		1			137501.0	e oneic	ten v	entaseli
Other than hard metal (contd.)	Taxasia A				#4.L	3.0	10 5280	191100	0.25	
Hacksaw frames	20	0.3	5 28 7	7	16	2.0	17	11	1.1	11
Hacksaw blades	1,749		370	1000, 30	1,712	12.5	205	1,319	10.0	146
Lathe chucks	Th.c		12	8		Value			The sea	PARKET.
Drill chucks	1	. Sal	2	• • •		· The same of	28	3(3)	and pan	5
Other tool and work holders		- -		-				THERE		1.3501.
	Th.	doz.			Place		191090	in info am Lower 1894		3.250 3.250
Slitting saws		2	8 1	8			7-100	austri	irobati	tariet
Milling cutters		8	24 21	14			A. Fried.	81450		cears er
Reamers, end mills and similar shank tools		1	7 25	13			Angelet L	pod rasi		- 292
Lathe and planer tools				, 15			412 133	0.00		god!
Welded and brazed		1	8	••		80,083		g menu		
Other	2		63 2	14			823		· warszioże	381
Cut and ground thread		TOPE						a dicinde		ecas.co
screwing tackle		•368	223	13		431	Ling Lights	ban sio		CONTROL OF
Moulds and dies	Villa .	084	977	82	ico ntes	THE DIR	E215/21/02	30 .003 132		Castle is
Other metal-cutting tools (except saws and saw blades), including broaches, and gear cutters not elsewhere	1		140	} ••	300 2770		t decorate	and the same		el geral
specified (Th.c	wts.	540 111							NOTE AND
Jigs and fixtures	4.	Control of the contro	1,018	156	J					
Unclassified engineers' small tools and parts	•	•	3,158	71		45 L	seat den	a tollip	patibari	oai <u>(</u> e)
Total			14,632	••			3,100	A. 82.1	SHEW SIES	1,530
/ \	<u></u>									

(a) Not recorded separately.
(b) Described as "Welding machinery, other than tube making" in 1937 and 1935.

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

Larger establishments

TABLE I

	007,8	1948 Sales	1937 Production	1935 Production
fachinery and plant and parts		£1000	£' 000	£' 000
		00		1,00
Boilers and boiler house plant		82	(Leanus) Erau	a bred nada he
Food preparation, processing and sterilising machinery		130		emericanene
Internal combustion engines, except engines for locomotives and marine engines	A International	92		sensid washos
Printing and bookbinding machinery	4	80		014
Pumps, other than petrol and oil measuring and hand pumps		158	168	211
.Textile machinery		114	Washing Steel	the foot tell
Wood working machine tools, other than portable power tools		115		
Other descriptions	1 1	1,522		diese attaut.
lears and gear wheels		177	71	60
Tools and implements	1 3			STRUCTURE WHATE
Edge and similar tools		90	ins all	terbes astems
Files and rasps	13	284	The state of	analo per set
Gauges, other than pressure gauges		391	000	010
Saws and saw blades, other than hacksaws and hacksaw blades	1 0	610	278	219
Spanners and wrenches	111	135	The second	Maries No.
Other hand tools and implements	100	582		Inped aclusts
Castings, forgings, stampings and pressings of iron and steel	(re	490	186	89
Other goods		2, 402	146	98
Scrap iron and steel sold	A bal	292	74(a)	33(a)
Work done	14 106	98(b)		- 110000 11000
Total	1 919,1	7,844	923	710

⁽a) Including other scrap metals.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE II

INDLL II was a sana	AND THE RESERVE	
Name of Adaption	Sales	Percentage of total sales
	£¹ 000	yn mae gyrau i na goli
Sales (or transfers) to other organisations under the same control		
Productive works	1, 320	2.0
Export sales organisations (including branches abroad)	623	0.9-
Other wholesale or selling organisations and retail shops, etc.	2, 267	3, 4
Unclassified	782	1. 2
Total sales (or transfers) to other organisations under the same control	4,992	7.5
Sales to independent buyers	(Haring)	
Exports invoiced directly overseas	6,366	9.5
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	3, 658	5. 5
His Majesty's Government and Local Authorities (other than productive establishments)	1,059	1. 6
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	30, 388	45.4
Wholesalers, merchants and other agents for resale	15,814(a)	23, 6
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	488	0.7
Other businesses (including farmers) and institutions of all kinds	560	0.8
Members of the public, including employees	91	0.1
Unclassified	3, 542	5,3
Total sales to independent buyers	61,967	92.5
Total	66,959	100.0

⁽a) Of this total £10,468,000 was recorded as divided between £5,077,000 for export and £5,391,000 for other sales.

⁽b) Amount charged.

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

Note - In the returns of exports and imports for 1937, parts of metal-working machine tools are not distinguished separately from complete machines, or used machines from new machines. For 1948, particulars of new machines, of used machines and of parts are shown separately, but detail as to types is available only in respect of complete new machines.

TABLE 12

INCL 12		Produ	action (b)	(c)	Ex	ports (d)		Retained imports (e)	
		No.	Tons	£1000	No.	Tons	£1000	No.	Tons	£'000
Machine tools, metal-working new (other than portable po tools)	wer									
Boring, complete										
Vertical, including vert fine boring machines an boring mills	d	1,170(f)	3,480(f)	933(g)	268	869	277	206	329	223(h)
Other	1948	958(f)	3,057	960	620	1,675	551			
Total boring										
Complete	1948	2,128(f)		1,893	888	2,544	827	206	329	223(h)
The property of the second	[1937	••	5,629	676		893	110(i)		2,341	409(1)
Parts	1937	••	••		11	49	26			
Broaching, complete	1948	71	238	89	41	49	20			
Drilling			Section 1	0. 20117	Branch II	1 500	4 7714	150	46	29
Complete .	1948	• • .	12,110(f) 8,953	3,326 1,047	9,948		1,371		825	164
Parts	1937	6498	••	48	} •••	1,469	237	••	020	104
Grinding, other than							4			
threading (j)									550	440
Complete	\[\begin{cases} 1948 \\ 1937 \end{cases} \]		9,150(f) 6,438	3,052 1,107	10,762	3,694 1,393	1,516 296	448	558 2,808	789
Parts	1937	*••		34						Action 1
Lathes, complete					o code					Administration of the second
Fully automatic (auto- matics)	1948	1,144	2,609	1,749	1,074	1,889	896(k)	472	939	603(k)
Capstan and turret	1948	••	4,700(f)	2,203	1,623	2,929		(1)	40	60
Other	1948	• • :	17,020(f)	5, 423	4,836	5,922		145	196	104(m)
Screwing, complete	1948	••	790(f)	307	445	404	202	<u> </u>		
Total lathes and screwing machines										
Complete	<pre>{ 1948 1937</pre>	::	25, 119(f) 19, 534	9,682 3,452(n)		11, 144 3, 816	4, 458 710		1, 175 7, 244	766(m) 1,740
Parts	1937	••	••	261(n)						
Threading	1948	••;	474	275	135	84	56(0)	••	•••	••

TABLE 12 (contd.)

TABLE 12 (Contar)		Produ	action (b)	(c)	Ex	ports(d)			Retain		
		No.	Tons	£1 000	No.	Tons	£1 000	No.	Tons	£1000	
Machine tools, metal-working new (other than portable power tools) (contd.)	,										
Milling, other than threading (p)				_							
Complete	1948 1937	2,940(f)	5,610(f) 5,935	2, 295 1, 288	1,432	2,654	1,032		1, 356	926	
Parts	1937	••	••	42		558	140	••	4, 116	982	
Gear cutting, complete	1948	306	952	474	119	201	123		••		
Sawing											
Complete	1948 1937	••	3, 450(f) 1, 444	575 152	1,549	694	236	135	13	7	
Parts	1937		••	5	}	170	25	••	333	56	
Planing, complete	1948	••	2,950(f)	522	217	906	197	1	404	07(a)	
Shaping, complete	1948	2,016	2, 403	611	1,560	1,554	476	27	104	63(q)	
Total planing and shaping											
Complete	1948 1937	::	5,353(f) 7,036	1,133 609	1,777	2, 460	673	27	104	63(q)	
Parts	1937			6	}	874	110	••	1, 132	1 78	
Slotting, complete	1948	149	807	173	131	382	105	••	••	•••	
Presses, complete											
Hydraulic											
Extrusion	1948	31	1,034	172	22	406	82	h			
Other	1948	••	4,290(f)	825	299	1,891	392	210	780	296	
Other presses	1948		13,500(f)	2, 254	1,089	1,820	414				
Punching and shearing, complete	1948	••	3,700(f)	708	6,300	1,743	432				
Straightening rolls, and plate and sheet metal working machines (including tin box and can making), not elsewhere	-							61	144	52	
specified, complete	1948	••	5, 180	1, 126	947	1,627	305	J			
Other metal-working machine tools, complete	1948	• •	••	2,083(r)	4, 122	3, 294	961	712	1, 404	. 809	
Reconditioned metal-working machine tools, complete (s)	1948	••	••	1, 544	4,752	11,034	1,655	412	3, 190	223	

DS 34252/1

Duns 34252/1

TABLE 12 (contd.)

									THE CONTRACT OF STREET	
		Prod	duction (b) (c)	Exports (d)			Retained imports (e)		
Part's of metal-working machine tools of all types, including chucks and other tool and work		No.	Tons	£¹ 000	No.	Tons	£! 000	No.	Tons	£' 000 755(u)
holders	1948	••	••	5,573(t)	•••	1,749	1,029		1,000	755(u)
		Tor	ls		To	ns		T	ons	
Welding and cutting machiner; and equipment, other than tube making (including part										
Electric										1
Arc welding										
Alternating current (transformer)	1948		• • • • • • • • • • • • • • • • • • •	507	: 1148	404	184			
Other	1948	••		1,575	1, 149		578	8		
Resistance welding	1948			874		70	48			
All other descriptions	1948		••	1, 389		960	633	}	1, 164	265
Electrodes (other than carbon) for arc welding										
Ferrous	1948	31, 4	90	2, 481	3,	649	355			
Non-ferrous	1948	. 5	50(f)	271		333	171			
								33316		
Drills, cylindrical, helically grooved, commonly known as twist drills, bit					Th.	doz.		Th.	doz.	
stock drills and machine bits for wood (but not including auger bits)	1948 1937		••	3, 694 613		801 259	1, 193		4 655	2 72
		Th. c	wts.		Th.	cwts.		Th	.cwts.	
Hacksaw frames and hacksaw blades	1948 1937		7	1,537 494		20.0	530 166		0.2 2.4	6 19
				A STATE OF THE PARTY OF THE PAR	The state of the s		Lancate and a second second	and the second second second second	AND REAL PROPERTY AND PERSONS ASSESSED.	Secretarion of the second

(a) Figures of sales (or production) refer only to larger establishments in the relevant years. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
 (b) Sales in 1948 and production for sale in 1937, including, where necessary, quantity estimates for output returned by value only.
 (c) Including sales (or production) by establishments classified to other trades.

Valued f.o.b.

Valued c.i.f.

(f) Partly estimated.
(g) Including all types of jig boring machines.
(h) Including broaching machines.
(i) Described as "Boring mills".
(j) The oversea trade figures include thread grinding machines; the retained imports for 1948 also include lapping and homing machines.
(k) Described as "Automatic".
(l) Re-exports in excess of imports.
(m) Including threading machines other than thread grinding or milling machines.
(n) Excluding screwing machines.
(o) Excluding thread grinding or milling machines.
(p) The oversea trade figures include thread milling machines; the retained imports for 1948 also include gear cutting machines.
(q) Including slotting machines.
(q) Including slotting machines.
(r) Including unclassified sales of machine tools (\$270,000), and parts of lapping and homing machines.
(s) The oversea trade figures relate to used machines, whether reconditioned or not.
(t) Excluding parts of lapping and homing machines.
(u) Excluding chucks and other tool holders.

Purchased materials and fuel Larger establishments

TABLE 13

· Linking and conditioning the agreement		1	1948		1937	1935		
THE STATE OF THE S		Materi fuel p	lals and Durchased	Usa	age of purch and	ased materia	als	
		Quantity	Cost	Quantity	Cost	Quantity	Cost	
Materials		Th. tons	£1000	Th. tons	£'000	Th. tons	£1000	
Iron and steel								
Pig iron		15.1	159	20.8	106	14.4	63	
Castings in the rough (a)		2						
Iron	•	69.8	3,874	52.8	1,087	36.2	630	
Alloy steel		0.9	153 26	6.2	163	4.7	107	
Non-alloy steel		3.4	277				101	
Bars and rods								
Alloy steel		8.5	1,093(b)	23.3	870	12.0	205(b)	
Iron and non-alloy steel		16.5	734(b)	••	105	••	66	
Forgings in the rough (a)								
Alloy steel				-				
Drop		0.7	86			ALTER VIALE		
Other	{	1.3	140 18					
Unclassified		0.8	124					
Iron and non-alloy steel				5.6	198	3.4	102	
Drop	{	0.6	54 11	100 411	Augus and			
Other	{	3.2	226 29			2 7.552/3		
Iron and non-alloy steel (c)						takanan no Gali, pinaka		
Angles, shapes and sections		1.6	49 13	} 0.4	8 (d)	0.3	4	
Bars and rods, and angles, shapes and sections, unclassified		3.5	124	-				
Plates and sheets		5.0	152					
Hoop and strip (including tape)	1	0.2	9 2	2.6	133	1.4	17(b)	

TABLE 13 (contd.)

	194	18	1937		19	35
	Material fuel pur		Usago	of purch	ased materia	ls
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£1000	Th. tons	£1000	Th. tons	\$1000
Materials (contd.)		Name and				
Iron and steel (contd.)						
Iron and non-alloy steel (c) (contd.)						
Tubes and fittings	0.4	40 35		6(e)	••	2(e)
Blooms, billets and slabs	6.8	102				
Wire, including cables and rope	20.2	559				
Other descriptions, except finished parts and scrap			8.3	262		(f)
Alloy steel	1.0	216	1 - 1 - 1			
Iron and non-alloy steel	0.2	10 14		94, 94()		
Iron and steel (except castings, forgings, finished parts, and scrap), unclassified					enconcugat	310 2
Alloy steel	7.7	2,730	1			_,_,
Iron and non-alloy steel	5.9	255 109		-	3.6	317 (g)
Machined castings	1.0	86 31	}	(f)	••	(f)
Brass (including all alloys of copper, other than nickel alloys)	Th. cwts.		Th. cwts.		Th. cwts.	
Rods and sections	23.5	179	2. 2	11		
Castings	26. 1	334	15.6	88	15.6	94(h)
Other descriptions, except finished parts	25. 3	222	0.6	2		
Aluminium and aluminium alloys			9202	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Castings and forgings, rough dressed	14.8	183				40(4)
Other descriptions, except finished parts	2.0	18	2.1	16	2.7	17(1)
			egas en			

TABLE 13 (contd.)

		1948		1937	,	1938	5
		Materials fuel pur	THE RESERVE THE PARTY OF THE PA	Usage	of purcha and f	sed materia	als
		Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)		Th. cu. ft.	£1000		£1000		£1000
Timber (excluding timber used for making into cases, etc., or for repairing							
Hardwood	{	14.7	9			E STORIES	
Softwood	{	Th. standards 0.5	41 10		63(j)		(f)
Packing materials			565				
Consumable tools bought as replacement		yarra i	1,006		151		(f)
Scrap iron and steel		Th. tons	57				
Transmission chains, iron and steel		Th. galls.	15		olenasi i	er relibes	
Paint, enamel and varnish	1	70	91 35		10000 70	an ma han	
Machinery belting (including conveyor and elevator bands)		Th. cwts.	64				
Ball and roller bearings	{	3.0	113 326				
Nuts, bolts, washers, etc. (b)			213	} ••	2, 135	dive.	1,586(k)
Purchased components not elsewhere specified		••	6,439		Selfic	- Albaha	
Replacement parts for firms' own machinery, other than machined castings		••	270	25,9,294		bentesae	
Second-hand machinery (b)			459		Total Control		
All other purchased materials		•• 200	3, 338				
uel and electricity		Th. tons		Th. tons	es digress	Th. tons	
Coal		43.4	122	27.9	27	18.8	19
Coke		34. 7	145	12.7	22	12.1	18
				VANDAGE 131	THE STREET		
	4 8 8	er autition					
		* (430)	Company of	valuation and		20 10000	

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments In Great Britain

TABLE 13 (contd.)

	1948		1937		1935		
000194.	Material fuel pur		Usage		sed material fuel	S	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Fuel and electricity (contd.)	Th.B.T.U. (kW.hrs.)	£! 000	Th.B.T.U. (kW.hrs.)	£! 000	Th.B.T.U. (kW.hrs.)	£! 000	
Electricity purchased (1)	E						
From public supply	121, 134	574			000033		
From other sources			55,341	161	40, 478	123	
Electricity obtained from other works under the same ownership	7,471	20) 		i leep i		
Motor spirit (petrol) and derv. fuel	Th.galls.	2 30X	Th.galls.	en Gesa	Th.galls.		
Used for road vehicles	441	45	(approximately	(f)	are spitesting	(f)	
Used for other power purposes	72	5		ne herov 1			
Other oil fuel (including creosote/ pitch mixtures)	1,163	45	424	8 (m)	361	6 (m)	
Gas purchased	Th. therms						
	4,914 Th.cu.ft.	184			masign box	Class	
From public supply	130, 940	20 21		ode areas	SSM _23205()	2.749)	
From other sources				58	LO LOB! CARBO	(f)	
Gas obtained from other works under the same ownership	68,174	8 3		ndi nat a ako masa	rang agameda graniunas	Eapt Cum	
All other purchased fuel	1000	12			Land Carlotte Control (A)	Jeth .	
Total		26,732		5,680	and the second	3,376	

(a) Not described as "in the rough" in 1937 and 1935. The 1948 figures may include some machined castings (or forgings).

(b) So far as recorded separately.

(c) The figures for 1937 and 1935 include alloy steel.
(d) Including girders, beams, joists and columns.
(e) Described as "Wrought tubes".

(f) Not recorded separately.

(g) Steel only.

(h) Non-ferrous alloys in all forms.

(i) Aluminium in all forms.

(j) Described as "Timber, including hardwood and packing cases".

(k) Including fuel not specified separately.

(l) The total quantity of electricity consumed in 1948 was 142,317,000 B.T. units, including 13,712,000 generated in the same works.

(m) Described as "Heavy fuel oil".

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TABLE 14

	At beginni	ng of year	At end	of year
mer we le ear frage of more	Quantity	Value	Quantity	Value
		£' COO		£'000
inished products		3,484		4,445
Jork in progress	1 (8) + 1 Yes (0s)	9,016	Mayor Ho	9, 913
Total finished products and work in progress	24.4	12,501		14,359
TO ALL ALONS ST. ST. CO. L. CO. CO	Th. tons	1 200	Th. tons	SI TORGU
aterials and fuel				7-pa -14
Alloy steel in all forms, except finished parts {	6.2	836 232	7.4	1, 025 248
Iron and non-alloy steel in all forms, except finished parts	26.0	1,007 291	26.7	1,131 375
Other descriptions of materials and fuel	11 1 · 3 cm	2,745	00013	3,004
Unclassified		924	Tieset in	1,054
Total materials and fuel	numbers were	6,035	anderstands.	6,836

Employment and remuneration (a)

Larger establishments

TABLE 15

IAULL 13	14021 13								
rest to br	AV	erage number operatives		Administra			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males Under 18 All ages	3,660 53,571	5,004 27,038	3,530	371 9,103	394 3,406	290 2,975	4,031 62,674	5,398 30,444	3, 820 23, 632
Females Under 18 All ages	469 8,478	771	562 1,395	876 5,300	373 1, 386	238	1,345 13,778	1,144	800 2,536
Total Under 18 All ages	4,129	5,775 28,866	4,092 22,052	1,247 14,403(c)	767 4,792	528 4,116	5,376 76,452 (c)(d)(e)	6,542 33,658	4,620 26,168
Total remuneration	g:000 19,617	- 247 A	••	£1000 6,260	1992	day tin	£1000 25,877	olggiqqaab aaliied	redition

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers 34 males 1,032 females

Other workers 653 males 583 females

- (b) Number at September 25, 1948, October 16, 1937, and October 12, 1935. (c) There were, in addition, 79 working proprietors (77 males and 2 females) in 1948. Working
- proprietors are included in the 1937 and 1935 figures. (d) The employers' share of contributions to all National Insurance Schemes payable during the year in
- respect of these workers amounted to £604,000. (e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	121	
Maintenance and repair of firms' buildings, but not plant	259	
Research work not directly connected with current production however charged	43	80
	at this th	ade employed 13 male and 1

In addition to the employees in the above table the firms in this trade employee female outworkers in 1948, the amount paid to them being £2,000. Similar information is not available for 1937 and 1935.

Wages and salaries paid, 1948 (a) Larger establishments in Great Britain

TABLE 16

	Amount	Estal	Establishments making returns for the calendar year								
	by all establish-	Amount	Percentage of annual remuneration paid in								
	ments		First quarter	Second quarter	Third quarter	Fourth quarter	Year				
Wages and salaries of	£'000	£1000	1941		200						
Operatives	19,617	9,443	24.3	25.1	24.3	26.4	100.0				
Administrative, technical and clerical employees	6,260	3,050	24.1	24.0	24.4	27.5	100.0				
Total	25,877	12,493	24.2	24.8	24.3	26.7	100.0				

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948 Larger establishments in Great Britain

The total amount paid for work done on materials given out was £1,164,000.

Payments for certain services, 1948 Larger establishments in Great Britain

TABLE 18

DAS TRANSCO OFFICE AND ADDRESS OF THE TRANSCO OFFICE AND ADDRESS OF TRANSCO OFFICE AND ADDRESS OFFICE AND ADDRESS OFFICE AND ADDRESS OFFICE AND ADDRESS OFFI	Amount paid
Did we have \$90 grove owners are in accuration and Congress to Lagorian and	£'000
Repair and maintenance	
Of buildings	193
Of Plant, machinery and vehicles	302
Unclassified	174
Hire of plant, machinery and vehicles	39
Advertising and market research	
Advertising in newspapers, magazines and periodicals	162
Other advertising services (poster display, despatch of circulars, etc.) and market research	78
Unclassified	223
Payments made for research work	
To research associations	15
To universities, institutions, academic bodies and similar agencies	2
To other commercial concerns	23
Postage, telephone, telegrams and cables	238
Commercial insurance premiums	249
Rates (excluding water rates) payable in the year	88
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Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

	Acquis	Acquisitions		
	New	Second-hand		
Plant and machinery	£,000 1,501	&! 000 498	£'000 208	
Vehicles	148	43	43	
Total	1,649	541	251	

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABL	E 20			
		The second secon	£1000	£1000
1.	Capital ex	openditure on building work (a)		415
2.	Existing t	ouildings and land (b)		office the angular for the
	(1)	Capital cost of freeholds bought	157	41(0)40)
0	Estir	mated capital value of		100k 11 11 11 11 11 11 11 11 11 11 11 11 11
		(11) Rented property newly occupied in the year (c)	83	25, 27
iss an	(:	iii) Leasehold buildings and land newly occupied in the year	246	MAN AND STREET OF THE PARTY OF
1000		Total of heading 2		486
		Total of headings 1 and 2		901
3.	Existing 1	buildings and land relinquished (d)		
9.05	(1)	Selling value of freeholds sold	49	THE KINKLING STREET
1000 mm	(11)	Estimated value of other properties relinquished	46	rastant. Secolosop en
		Total of heading 3		95
4.	Headings	1 and 2 less heading 3		806

- (a) Excluding site value which, where appropriate, is included in heading 2(i).
- (b) The figures do not reflect changes in ownership of previously occupied land and buildings.
- (c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
- (d) Including property destroyed or abandoned.

Summary Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
Gross output (production)	£'000 66,761	£1000 465	£1000 2,593	£'000 69,819
Cost of materials and fuel used	24,780	199	952	25, 931
Payment for work done on materials given out	1,105	10	48	1,164
Net output	40,876	256	1,592	42,724
Wages and salaries of persons employed	24,837	171	870	25,877
	No.	No.	No.	No.
Average number of persons employed (a)	73,130	493	2,908	76,531
	£	£	٤	£
Net output per person employed (a)	559	519	547	558
Stocks at end of year	£,000	£1000	£1000	£1000
Finished products and work in progress	13,677	54	628	14,359
Materials and fuel	6,575	33	228	6,836
	· No.	No.	No.	No.
Number of establishments	589	6	21	616

(a) Excluding outworkers.

The values of gross output and of materials and	fuel used are	e derived in t	he following wa	ay:-
	England	Wales	Scotland	Great Britain
Output of firms in this trade	£1000	£1000	£1000	£1000
Total value of sales (see Table 23)	65,302	461	2,564	68,327
Adjustment for changes in stocks and work in				
progress	+1,805	+ 5	+48	+1,858
	67,107	466	2,611	70,185
Less payment for transport by other firms	346	2	19	366
Gross output (production)	66,761	465	2,593	69,819
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	25,560	202	970	26,732
Adjustment for changes in stocks	- 781	- 4	- 17	- 801
Materials and fuel used	24,780	199	952	25,931

Summary

Small firms

TABLE 22

INDLE 22						
. dans	heattone	calsy Soldier	England	Wales	Scotland	Great Britain
Number of r	returns		251	3	7	261
Average num	ber of perso	ons employed (a)	-	District Sec	t one electronia	E THE RESIDEN
Males			1,404	24	39	1,467
Females		90.	246	4	4	254
	ate of		2.5		a co cartains	STATE STOLEN
		Total	1,650	28	43	1,721

(a) Including working proprietors.

Sales in the trade

Larger establishments

TABLE 23

Kind of output (i) Complete machines		Engla	nd and V	Vales		Scotland	d	Gre	eat Bri	tain
(1) Complete machines (11) Replacement parts		Quan	tity	Value	Quan	tity	Value	Quant	tity	Value
rincipal products		No.	Tons	£' 000	No.	Tons	£' 000	No.	Tons	£'000
Machine tools, metal-working, (other than portable power t	new ools)									
Boring										
Jig	(1)	40	147	91 21	-	-	-	40	147	91 21
Other types	(1) (11)	••	••	(a)			(a)	1,629	6,069	1,708
Broaching	(1)	71	238	89	<u>-</u>	-	-	71	238	89
Drilling							a desertion			
Vertical (pillar and bench types)	(1) (11)	••	••	(a)			(a)	20,787	3,496	926 308 78
Radial	{ (1) (i1)	1,793	5, 641	1,326 54	4 -	5	2 -	1,797	5, 646	1,327 54
Multi-spindle, not included above	{ (i) { (ii)	522	1,000	471 8 11	} -	-	_ {	522	1,000	471 8
Other	{ (1) (11)	287	632	222	-	-	-	287	632	222
Gear cutting	{ (1) (11)	184	833	427		-		184	833	427 19
Grinding, other than threading										
Centreless	(i) (ii)	176	624	275 19	_	-	-	176	624	275 19
Plain	{ (1) (11)	••	••	(a) 59		•-	(a) -	1,708	2, 171	671 58
Surface	$\begin{cases} (1) \\ (11) \end{cases}$	833	2, 290	633 2 79	} -	-	- {	833	2,290	633 79
. Tool and cutter	(1) ((11)	1,061 65	437	166 4 7	} -	_	_ {	1,061 65	437	166
	((11)	••	•••	16				•••	••	16

TABLE 23 (contd.)

Kind of output		Engla	nd and	Wales	S	cotland		Gre	eat Brit	ain
(i) Complete machines (ii) Replacement parts		Quant	ity	Value	Quant	ity	Value	Quan	tity	Value
parolars arons breakly by		No.	Tons	£1000	No.	Tons	£1000	No.	Tons .	£1000
Principal products (contd.)	unes)									
Machine tools, metal-working, new (other than portable power tools) (contd.))(V)	0.503							
Grinding, other than threading (contd.)		*								
Other, including universal	{ (i) (ii)	••	••	(a) 95	• 12.	••	(a)	4,414	2,571	943 30 83 95
Lathes		(61)								
Fully automatic (automatics)	$\begin{cases} (1) \\ (11) \end{cases}$		•••	(a) (a)			(a) (a)	1,124	2,529	1,733 205
Capstan and turret	(1) (11)	2,812	4,528	2,134 34 343	1	_	-	2,812	4,528	2,134 34 343
Centre	$\begin{cases} (1) \\ (11) \end{cases}$	•••		(a) (a)	••		(a) (a)	11,458	12,114	3,728 163
Surface and boring	(1) (11)	••	12	(a) (a)	•	• •	(a)	126	311	119 17 8
Tool-room	{ (i) (ii)	310	850	325 10	-	_		310	850	325 10
Other, including multi-tool or production	$\begin{cases} (1) \\ (11) \end{cases}$	••		(a) 70	••	••	(a) ⁵	1,063	2,069 12	
Milling, other than threading				32.				3/13	007	75.0
Plain horizontal	$\begin{cases} (1) \\ (11) \end{cases}$	825	930	358 14	1 1	-		825	930	358 14 2 1,737
Other, including vertical, universal	{ (1)	••		(a)	• •		(a)		•••	25 8
and manufacturing	(11)	(6)		78				•		106
Unclassified	(11)	••		196				•	000	
Threading	(i) (ii)		224	1 10				115	224	46
Sawing	(1))		7.5					1,51	3 16 35
	[(ii			18				1,863		
Shaping	{ (ii		2,275	16				1,803	2,21	10
DS 34252/1								i ja		

TABLE 23 (contd.)

TABLE 23 (CONTACT)								- 22 P.O.		are to
Kind of output (i) Complete machi	nes	Engla	nd and w	Males	S	cotland	verso is	Gre	at Brit	ain
(ii) Replacement pa	rts	Quan	tity	Value	Quan	tity	Value.	Quant	ity	Value
Principal products (contd.)		No.	Tons	£1 000	No.	Tons	£'000	No.	Tons	£,000
Machine tools, metal-workin new (other than portable power tools) (contd.)	15,						2)%	ados in bes a oriso s	a Anabi Taktosa Carrilla	i i
Slotting	{(1) {(11)	147	802	172 7	-	-	-	147	802	172
Presses, other than forgi	ng							pateir	10 09a	12.9 Ed.
Hydraulic	{(i) (ii)	30) •• 55 ••		(a) (a)	n !		(a) (a)	1,289	3,814	716 100
Manual	{ (1) { (11) }	<pre>{6,334 609 </pre>	1, 152	124 18 10	} -	-	- {	6,334	1, 152	124 18 10
Other descriptions	{ (1) (11)		••	(a) 155	- -	-	(a) {	1,893	5,843	1,098 160 155
Punching and shearing	{ (i) (ii)	5, 189	1,581	258 42 229 55	809	459	105	5,998 53 	2,040	363 42 229 56
Tin box and can making	(1)	977	649 287	359 64 158	} -		-{ -	977	649 287	359 64 158
Forging machinery	(1) (11)		••	(a)	•		(a) {	357 11	4,106	603 25 39 167
Lapping and honing	(1) and (11)			69		-	-			69
Straightening rolls, and plate and sheet metal working machines, not elsewhere specified	{ (1) (11)	2, 187	2,070 447	328 77 (a)	51	1,203	178{ (a)	2, 238	3, 273 447	506 77 30
Screwing	(1) (11)	1,324	643 14	251 5 (a)	-	-	-{ (a)	1,324	643 14 ••	251 5 109
Other metal-working machine tools, new, including planing machines	(1) (11)	2,483	3,209	752 86 41 170 230	54	689	128	2,537	3,898 73	881 86 41 176 241
Unclassified metal-working machine tools, new	(11) (11)	67	27 20	15 24 84 128	· -	mag 5	31	67	27 20	15 24 84 159
Reconditioned metal- working machine tools DS 34252/1	(11)	901	••	(a)	-	-	(a)	2, 279 243 	6,461	851 150 151 63

TABLE 23 (contd.)

Kind of output	Engl	land and V	Vales		Scotland	i	Gre	at Brit	ain
(i) Complete machines (ii) Replacement parts	Qua	antity	Value	Quan	t1ty	Value	Quant	ity	Value
Principal products (contd.)	No.	Tons	£1000	No.	Tons	£1000	No.	Tons	£1000
Welding and cutting machinery and equipment, other than tube making			e e	(3)	.,322	1004-18- 105719- 1051	en ell assa no) (n	ALRO TO WEE TOO	
Electric			4.4	7,5204				gata a u waa	
Arc welding					100		4 407	346	105
Alternating current (transformer) (1	1) 1,127	7	105 33 13	-	_		1,127	••	33 13
Direct current Single (i	1,51	910	422		_	-{	1,513	1,233 910	620 422 8
Other descriptions (including direct current, other than single operator) (1	(1) 9		148 24 30	-	_		97	248	148 24 30
Resistance welding	1 30							075	78
Spot and projection {	(1)	•	(a)	(2.3)		(a)	429 168	235	32 124 74
butt and flash	(i) (i)	Tons	(a)		 (a)	(a)	93	161 21	
Other descriptions (including gas welding and cutting torches and equipment)		1,226	887 438	5)	- 1	te all laser son a peli	{ · · ·	1,220	177
Electrodes (other than carbon) for arc welding	1 (8)		S\$,1]				Mill. ft		
Ferrous	100	905.3	(a)			(a	594.3	23,761	1,833
Non-ferrous	DYT DES	73	(a)	(21)	••	(a)	11.6	323 25	21
Engineers' small tools and parts	108						antani altoni	ne call—ac sachtae	
Hard metal Hard metal tips and inserts, sold separately		Th. doz. 209	529 189		-			doz.	529 189

TABLE 23 (contd.

	Engla	and and	Wales	2	Scotlan	ıd	Gre	eat Brit	ain	
	Quan	ntity	Value	Quant	tity	Value	Quar	ntity	Value	
rincipal products (contd.)	Th.	dcz.	2,000			£1000	Th.	doz.	£'000	
Engineers' small tools and parts (contd.)						Listing	en e			
Hard metal (contd.)						er mes				
Hard metal tipped tools, dies, and die pellets (sold separately)			(a)			(a)	BACK S		1,889	
Other than hard metal										
Drills, cylindrical, helically grooved, commonly known as twist drills, bit stock drills and machine bits for wood (but not including auger bits)							ACRETE D			
High speed steel twist drills	1,1	.85	1,782	} -		_	{ 1,	185	1,782	
Carbon steel twist drills	3		166 63	}		ت ا	{	376	166 63	
Other		9	15 16	}	-	_		9	15 16	
Press tools	1	.7	536 1,469	••		6 9		1.7	543 1,478	
	Th. doz.	Th.cwts.	94	Th.doz. T	Ch.cwts.		Th.doz.	Th.cwts	94	
Hacksaw frames	1	••	2 4	} -	-,	-	1	••	2 4	
Hacksaw blades	2,726 2,449	17.0	429 593 7	} -	_	-	2,726 2,449	17.0	429 593 7	
Lathe chucks	Th. c		576 296	} -	·NEST	_	Th.c	wts. 2.6	576 296	
Drill chucks		.1	149 100	} -			(3.1	149 100	
Other tool and work holders (b)	Th.	• •	463			-	Th.	• •	463	
Slitting saws		53	327 60	}		-	111.	53	327 60	
Milling cutters		60	881 374	} -		-		60	881 374	
Reamers, end mills and similar shank tools		• • • • • • • • • • • • • • • • • • • •	(a)			(a)		79	707 381	
						1945				

TABLE 23 (contd.)

	England and	Wales	Scotland		Great Brit	ain
	Quantity	Value	Quantity	Value	Quantity	Value
(Th. doz.	£'000	Th. doz.	£1000	Th. doz.	£!000
Principal products (contd.)		1022		1 (25) 308)	arousone da.	
Engineers' small tools and parts (contd.)			hirth	also sico.	Clara lama	
Other than hard metal (contd.)						
Lathe and planer tools						
Welded and brazed	83	34 3 50	} -	1 {	83	344 50
	62	169			62	169
Other	••	29	}			29
Cut and ground thread screwing tackle		(a)		(a)		2,799
Moulds and dies	••	1,077	- 161	1	ento entotas.	1,078
Other metal cutting tools,					136	1,079
(except saws and saw blades), including broaches, and gear cutters not elsewhere speci-		(a)	••	(a)	••	98
fied	Th.cwts.		Th.cwts.	7	Th.cwts.	697
Jigs and fixtures	10.5	690 2,088	0.1	15	10.0	2,103
Unclassified engineers! small tools and parts		.798	_	_	••	798
Waste products, other than scrap iron and steel		45	•• (2		47 662
Repair and jobbing work (c)		602		60		002
Work done for the trade or on commission (c)		(a)		(a)		608
Total principal products		58,141		2,342	ALANA MARKATA	60,483
Other output						
Machinery and plant and parts						82
Boilers and boiler house plant	1 · ·	82	_			
Food preparation, processing and sterilising machinery		130	1	-	antonosa, erro	130
Internal combustion engines, except engines for locomotives and marine engines		92	-		ris toog• • est	92
Printing and bookbinding machinery		80	_	-	**************************************	80
Pumps, other than petrol and oil measuring and hand pumps		(a)		(a)		158
Textile machinery	••.	114	-	-		114
Wood working machine tools, other than portable power tools		115	-	822313	and market	115
DS 34252/1					1 35	102 100 2 2

TABLE 23 (contd.)

	124 4 6 6 7 8 7	MI THE REL				
	England a	and Wales	Scotla	ind	Great B	ritain
	Quantity	Value	Quantity	Value	Quantity	Value
Other output (contd.)		£'000		£'000		£1000
Machinery and plant and parts (contd.)					,	
Other descriptions		1,514	••	8	••	1,522
Gears and gear wheels	••	(a)	••	(a)	••.	177
Tools and implements ,					Linguis Emile	most.
Edge and similar tools		(a)		(a)		90
Files and rasps	••	284	_			284
Gauges, other than pressure gauges	••	(a)	••	(a)		391
Saws and saw blades, other than hacksaws and hacksaw blades		610	_	_		610
Spanners and wrenches	•••	(a)	••	(a)		135
Other hand tools and implements	••	(a)		(a)	••.	582
Castings, forgings, stampings and pressings of iron and steel	17	490	_	_		490
Other goods	••	2,234	••	168		2,402
Scrap iron and steel sold	••	287	••	4	(55.00)	292
Work done (c)		98		-	7	98
Total		65,763		2,564		68,327

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

⁽b) So far as recorded separately.

⁽c) Amount charged.

Purchased materials and fuel

Larger establishments

TABLE 24

	Englar Wal		Scot	land	Great	Britain
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials Iron and steel	Th. tons	£'000	Th. tons	£! 000	Th. tons	£! 000
Pig iron		(a)		(a)	15.1	159
Castings in the rough (b)						
Iron	67.0	3,715	2.8	159	69.8	3,874
Alloy steel	0.8	150 26	-	3	0.9	153 26
Non-alloy steel	2.9	242	0.4	34	3.4	277
Bars and rods (c)					A LANCE CONTRACTOR	
Alloy steel	8.2	1,070	0.3	22	8.5	1,093
Iron and non-alloy steel	15.1	689	1.4	46	16.5	734
Forgings in the rough (b)						
Alloy steel				and the state of	libers the in	
Drop	0.7	86	- 1	-	0.7	86
Other , {	1.3	133 18	0.1	6	1.3	140 18
Unclassified	, 0.8	124		ewesthe-	0.8	124
Iron and non-alloy steel			62		pafragian da	
Drop	0.6	54 11	-	-	0.6	54 11
Other	2.7	197 29	0.5	29	3.2	226 29
Iron and non-alloy steel						
Angles, shapes and sections	1.4	45 11	0.2	2	1.6	49 13
Bars and rods, and angles, shapes and sections, unclassified	3.5	124		-	3.5	124
Plates and sheets	4.5	140	0.5	12	5.0	152
Hoop and strip (including tape)	••:	(a)	••	(a)	0.2	9

TABLE 24 (contd.)

	Englar Wal	es	Scot	land	Great	Britain
7507 WITHERE RES	Quantity	Cost	Quantity	Cost	Quantity	Cost
(000) (3949-01 (000))	Th. tons	£1000	Th. tons	£'000	Th. tons	£1 000
(aterials (contd.)						- Simple and
Iron and steel (contd.)						antarna.
Iron and non-alloy steel (contd.)					, corperator	
Tubes and fittings	0.3	36 34	_	4 1	0.4	40 35
Blooms, billets and slabs	••	(a)	••	(a)	6.8	102
Wire, including cables and rope		(a)	•	(0)		
Other descriptions, except finished parts and scrap		(a)	••	(a)	20.2	559
Alloy steel	1.0	211		5	1.0	216
Iron and non-alloy steel	0.2	10	}	5	0.2	10 14
Iron and steel (except castings, forgings, finished parts, and scrap), unclassified						
Alloy steel	7.7	2,729	-	1	7.7	2,730
Iron and non-alloy steel	5.8	254 109	} -	1 {	5.9	255 109
Machined castings	********	(a)	1	(a) {	1.0	86 31
Brass (including all alloys of copper, other than nickel alloys)	Th.cwts.	100	Th.cwts.		Th.cwts.	
Rods and sections	23.3	178	0.1	1	23.5	179
Castings	23.6	302	2.5	31	26.1	334
Other descriptions, except finished parts	24.9	220	0.3	2	25,3	222
Aluminium and aluminium alloys		A STATE OF S		idia ma	A CONTRACTOR OF THE SECOND	
Castings and forgings, rough dressed	•••	(a)	••	(a)	14.8	183

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TABLE 24 (contd.)

otalias teeko	England and Wales		Scot	Land	Great Britain		
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Science amostral cases		£1 000	SECULOTI	£1000	Th. cwts.	£1000	
Materials (contd.)					1.00000	ale transfer	
Aluminium and aluminium alloys (contd.)					Addony Tands	the north	
Other descriptions, except finished parts	••	(a)	••	(a)	. 2.0	18	
Timber (excluding timber		-10			Maragana ana	2000	
used for making into cases, etc., or for repairing returnable cases)				20134 0	Th. cu. ft.		
Hardwood	••:	(a)	**	(a) {	14.7	9 4	
	Th.stan- dards		Th.stan- dards	querou.	Th.stan-dards	ETATY.	
Softwood	0.4	37 10		4 1	0.5	41 10	
Packing materials	••	551	••	14	••	565	
Consumable tools bought as		965	•	42	esatemot .es	1,006	
replacement	••	905		, ∓~	Th. tons	1,000	
Scrap iron and steel	• •	(a)	•	(a)	9.4	57	
Transmission chains, iron and steel	••	15	••	1	erice ones	15	
	Th. galls.		Th.galls.		Th. galls.	altions.	
Paint, enamel and varmish	66	87 33	4	5 1	70	91 35	
Machinery belting (including conveyor and elevator bands)		62		2	ano • Oct. 6	64	
	Th. cwts.	1 508	Th.cwts.		Th.cwts.	anasto	
Ball and roller bearings	3.0	112 3 1 2		1 15	3.0	113 326	
Nuts, bolts, washers, etc. (c)	•••	(a)		(a)	Sadanaki She	213	
Purchased components not elsewhere specified	••	6,227	••••	213	originos dina la descripto	6, 439	

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
		£1 000		£1000		£! 000
Materials (contd.)						
Replacement parts for firms own machinery, other than machined castings		262	•••	8	•••	270
Second-hand machinery (c)		(a)		(a)		459
All other purchased materials		3, 217		121		3, 338
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	39.4	110	4.0	12	43.4	122
Coke	33.5	140	1.2	5	34.7	145
Electricity purchased (d)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	115,640	549	5, 493	26	121, 134	574
From other sources						
Electricity obtained from other works under the same ownership	7,471	20	_	-	7,471	20
Motor spirit (petrol) and derv. fuel	Th.galls.		Th.galls.		Th. galls.	
Used for road vehicles	434	44	7	1	441	45
Used for other power purposes	72	5	_	_	72	5
Other oil fuel (including creosote/pitch mixtures)	1,162	44	1	_	1, 163	45
Gas purchased From public supply	Th. therms 4,860 Th. cu. ft. 129,531	182 20 19	Th. therms 54 Th. cu. ft. 1, 409	2 - 1	Th. therms 4,914 Th. cu. ft. 130,940	184 20 21
From other sources	20 17					
Gas obtained from other works under the same ownership	68,174	8 3	_		68, 174	8 3
All other purchased fuel	••	12	-	-	••	12
Total		25,763		970		26,732

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

(b) May include some machined castings (or forgings).

(c) So far as recorded separately.

(d) The total quantity of electricity consumed in England and Wales was 136,823,000 B.T. units, including 13,712,000 generated in the same works. The total quantity of electricity consumed in Scotland was 5,493,000 B.T. units, no electricity being generated in the same works.

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Employment and remuneration

Larger establishments

TABLE 25

TABLE 20											
	Engla	England and Wales			. Scotland			Great Britain			
######################################	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of cperatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total		
Males								en lasapas			
Under 18	3,518	355	3,873	142	16	158	3,660	371	4,031		
All ages	51, 417	8,670	60,087	2, 154	433	2,587	53, 571	9,103	62,674		
Females	5 (3:00).										
Under 18	467	836	1,303	2	40	42	469	876	1,345		
All ages	8,378	5,082	13, 460	100	218	318	8,478	5,300	13,778		
Total	182F280	U-Ard			2/4-5/4				(1180V)		
Under 18	3,985	1,191	5,176	144	56	200	4, 129	1,247	5, 376		
All ages	59,795	13,752(b)	73,547 (b) (c)	2, 254	651(b)	2,905 (b)(c)	62,049	14,403(b)	76,452 (b)(c)		
303 1 352 1	£1000	£'000	£1000	£1000	£1000	£1000	£'000	£'000	£1000		
Total remuneration	18,976	6,031	25,007	642	229	870	19,617	6,260	25, 877		

(a) Number at September 25, 1948.

(b) There were, in addition, 79 working proprietors (77 males and 2 females) in Great Britain; 74 males and 2 females in England and Wales, and 3 males in Scotland.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £604,000; £580,000 for England and Wales, and £24,000 for Scotland. In addition to the employees in the above table the firms in England and Wales in this trade employed 13 male and 1 female outworkers, the amount paid to them being £2,000. No outworkers were recorded for Scotland.

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

TABLE 26

	1	Monthly index	(a)		Monthly index (a)				
Month	Month England Scotland Great Month Wales		Month	England and Wales	Scotland	Great Britain			
1948				1948					
January	98.6	100.1	98.7	August	100.5	101.0	100.5		
February	99.1	100.6	99.2	September	100.3	101.7	100.3		
March	99.9	101.3	100.0	October	99.8	99.0	99.8		
April	100.8	100.6	100.8	November	99.5	97.4	99.5		
May	101.1	100.8	101.0	December	99.1	97.1	99.0		
June	100.8	100.9	100.8	Percentage employment in this trade covered					
July	100.4	99.7	100.4	by the index.	47.5	52.7	47.7		

⁽a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

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