95 Drop forgings, etc.

This Report on the Drop Forgings, Etc Industry relates to establishments engaged wholly or mainly in manufacturing forgings by drop forging, drop stamping or hot pressing. Heavy forgings are excluded.

This industry corresponds to minimum list heading 399(5) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 census.

The industry formed part of the Miscellaneous Metal Manufactures Industry (Part 74) in the Reports on the last detailed Census of Production for 1963.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

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

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Footnotes continued from page 95/3.

- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions <u>less</u> disposals.

TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

						Ilm: 4	All establ	ishments
					udi	Unit	1963	1968
Number of enterprises	bead see	Liquin	Tudino 1	302.1015		No.	142	106
Number of establishments	s					11	161	138
						£.000	92,709	108,530
Gross output						"	38,212	46,773
Net output						£	1,347	1,761
Net output per head	١	goods produce	ed and work do	ne (c)		T.000	90,155	105,498
Sales and work done	ave. [ods and cante		s	п	2,246	2,558
	1,674	packaging an				п	50,597	57,425
Purchases	608.1	goods for me purchases	rchanting and	canteen		п	2,161	2,372
	(e on material	s given ou	t	п	1,361	1,450
	1,910	for transpor					21 79	
Payments to other	}	by road				n]	1,195
organi sations	1,781(6)		d other means vices	excluding		ıı	1,003	94
Stocks and work in prog	gress					"	+ 998 933	+ 1,254
Total stocks and work	k in	change durin				"	400700	
progress	l	at end of ye	ar				16,210	17,695
	, [change durin	g year			н	+ 49	132
Goods on hand for sal	le {	at end of ye	ear			"	1,017	1,281
	(change durin	ng year		ins less 1	n 3 3 3 3	+ 260	+ 606
Work in progress	1	at end of ye	ear		LouisnU		5,791	6,859
	- CO. 114	change duri	ng year		Harris Harris	11	+ 625	+ 780
Materials, stores an	d fuel	at end of y			100	n e	9,402	9,555
	178		uding working	proprieto	rs	Th.	28.4	26.6
Number employed on ave	rage	operatives	during worming	Piopi		11 3 23	23.6	21.6
during the year	1.00	other emplo	vees (d)			"	4.7	4.9
						£,000	18,738	23,896
Wages and salaries		of operativ				"	4,327	5,657
		of other em	proyees (a)				1,021	0,001
Capital expenditure (1- 2-		m-73
Total						"	2,858	4,287
New building work						"	382	452
Land and existing bu						"	- 36	919
Plant and machinery	(f)					"	2,382	2,743
Vehicles (f)					- 200	"	129	173

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 4 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 4 per cent. and 3 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	41	41
Average number employed		
Working proprietors	49	40
Other persons employed	320	491

Footnotes continued on page 95/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab- lish- men'ts	Enter- prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£,000	£'000	£
1-5	9	9	22			
6-10	6	6	45			
11-24	25	25	440	200	on here all	
25-49	15	15	584	1,903	920	1,575
50-99	21	19	1,604	5,660	2,525	1,574
100-199	21	19	3,026	9,929	4,682	1,547
200-299	12	10	3,122	12,139	4,712	1,509
300-499	9	8	3,254	12,487	5,472	1,682
500 and over	13	6	14,005	62,436	26,750	1,910
Unsatisfactory returns	7	7	466			
Total	138	106	26,568	108,530(c)	46,773(c)	1,761(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Employees		Wages and	l salaries	Wages and salaries per head		
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)	
E.E. T.O.	Number	Number	£'000	£'000	£	£	
1-5					rizarase to		
6-10				(h) Rassola	er relier to		
11-24							
25-49	498	79	442	98	889	1,235	
50-99	1,373	221	1,126	273	820	1,237	
100-199	2,527	493	2,278	582	901	1,180	
200-299	2,438	684	2,458	809	1,008	1,183	
300-499	2,648	606	2,721	643	1,027	1,061	
500 and over	11,355	2,648	14,031	3,053	1,236	1,153	
Insatisfactory returns	ere autobas	exterior ya	youtaries ;		shreed I do	20 101 26	
Total	21,599(c)	4,904(c)	23,896(c)	5,657(c)	1,106(c)	1,154(c)	

⁽a) Including working proprietors.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
A page to the same of the same	Per cent.	Per cent.	Per cent.
Under 18	4	2	6
18 and over	65	29	94
All ages	69	31	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the metal industries not elsewhere specified - minimum list heading 399 - at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

Footnotes to Table 4.

- (a) For 1963 one establishment employing fewer than 25 persons was included in a return for a large establishment. None was included for 1968.
- (b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (c) Direct sales of goods (excluding canteen takings) made to and work done for, the general public by larger establishments are included. These amounted to £1,000 in 1968. Similar information is not available for 1963.
- (d) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (e) Administrative, technical and clerical employees.
- (f) Excluding expenditure for establishments not yet in production.

⁽b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

⁽c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

⁽d) Administrative, technical and clerical employees.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

The supplied of the lower settler.	11 (64) (1 - 11 - 17 - 17 - 17 - 17 - 17 - 17 -	Unit	1963	1968
Number of enterprises	Line for the line is the line in the line is the line	No.	87	62
Number of establishments		. "	106	91
Gross output		£'000	88,771	104,555
Net output		"	36,589	45,061
Net output per head		£	1,347	1,761
Sales and work done	goods produced and work done (b) (c)	£,000	86,325	101,634
Index of energialization (1)	merchanted goods and canteen takings	Per	2,150	2,464
Index of specialisation (d)	Contanial - Con	cent.	92	93
Purchases	materials for processing and packaging, and fuel	£'000	48,448	55,322
rurchases	goods for merchanting and canteen purchases	"	2,070	2,285
	for work done on materials given out	11	1,303	1,397
Dormonto to other	for transport			,
Payments to other organisations	by road	н) (1,152
	by rail and other means excluding postal services		960	90
Stocks and work in progress			, ,	
Goods on hand for sale	change during year	п	+ 47	- 127
doods on hand for safe	at end of year	п	974	1,234
Work in progress	change during year	"	+ 249	+ 584
norm in progress	at end of year	"	5,545	6,608
Materials, stores	change during year	п	+ 598	+ 752
and fuel	at end of year	"	9,003	9,205
	(total, including working proprietors	No.	27,161	25,595
Number employed on average during the year	operatives	п	22,608	20,839
	other employees (e)	"	4,501	4,731
W 1	of operatives	£'000	17,977	23,055
Wages and salaries	of other employees (e)		4,148	5,457
	Coperatives	6	139	
Wages and salaries per head	other employees (e)	£	795	1,106
Capital expenditure (f)	Control of the contro		922	1,154
New building work		6,000	200	
	Cacquisitions	£'000	366	436
Land and existing buildings	disposals	n	113	922
		H 3	147	37
Plant and machinery	acquisitions	11	2,370	2,790
	disposals	'"	89	147
Vehicles	acquisitions	н	183	242
to be presented a property of the	disposals	"	59	75

For notes to this table - see page 95/5.

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

BANT BANT	190	63	1968				
Auto7 arto1	Quantity	Value	Quantity	Value	Enter- prises	Entries	
the rese, having the paging at the case of	Th.tons	£'000	Th.tons	£,000	Number	Number	
Drop forgings of steel and iron and steel stampings and pressings which are the			1		100	388-100K	
products of drop stampings and hot pressings; not being finished products	498	80,319 8,366	} 582	104,139	157	183	
Other products		285		491	6	9	
Waste products							
Scrap metals							
Iron and steel $\left\{ \right.$	113	1,078 561	} 169	1,876	53	74	
Other scrap metals		20		18	7	7	
Other waste products		30		2	*	*	
Work done		541		402	7	7	
Total	is the second	91,200	n (ass.) krodsti	106,928	•		
Sales in other industries (see Table 6)		11,876		12,859			
Principal products of this industry sold by establishments in the industry		79,325		94,069	62	83 (8	

⁽a) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Parvious Composition and alexakers (2011)	1963		1968			
Labernation 's. in and grapmes vincinities on	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Contaminate parks for firms one successive	Th.tons	£'000	Th.tons	£'000	Number	
Orop forgings of steel and iron and steel stampings and pressings which are the products of drop stampings and hot pressings; not being finished products	64.8	10,428 1,447	61.6	12,859	100	44,52,82,97
Total		11,876		12,859		

⁽a) The references given are to the list of industries at the front of this report.

Sales of other than principal products by larger establishments TABLE 7 in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	1968
	Value	Value
	£'000	£'000
Steel ingots, castings, forgings, etc	1,399	1,853
Non-ferrous metal forgings, stampings and pressings	664	310
Mechanical engineering products including industrial plant and steelwork	1,420	1,237
Motor vehicle and aerospace parts and accessories	810	990
Engineers' small tools	193	116
Hand tools and implements	450	558
Anchors and grapnels, chain cable and wire and cable gripping devices	481	541
Hooks, fasteners and shackles	11	91
Other metal products	1,498	1,752
Services rendered to other organisations (a)	75	118
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	2,057	2,341
Canteen takings	94	123
Total	9,151	10,029

⁽a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

Purchases by larger establishments of selected principal products TABLE 9 of the industry, 1968

This table is not applicable to this industry.

Purchases by larger establishments in the industry, 1963 and 1968 TABLE 10 Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Senson Contract Senson Capacitation of the Contract of the Con	196	33	1968		
	Quantity	Cost	Quantity	Cost	
Materials for use in production	Th.tons	£,000	Th.tons	£,000	
Pig iron, including refined pig iron and other irons for re-melting and iron castings	0.5	30 99	}	23	
Steel					
Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars)	363	19,614	••	28,337	
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and	249	14,915	201	12,905	
squares		۲	8.2	408	
Plates, 3mm. thick and over	13.7	686 {	or an industry	66	
Sheets under 3mm. thick (including electrical sheets)	19.2	1,436	2.2	118	
Hoop and strip (including tape of all thicknesses) and timplate and blackplate (a)	5.3	326		255	
The state of the s	0.8	135 228	} 2.7	441	
Forgings (except drop forgings)		220	1		
And the state of t	0.2	37	0.1	10	
Castings	Last programme and the	ma 1612 32 33)	Treat Market	
Iron and steel not elsewhere specified except finished parts, wire and scrap	a defigliation	era ligarios ((2) m lass) bi	or I spidle	
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc)		7		88	
(including weided, seamiess, conduct,	2.9	346	1	625	
Other	{ -::	100]}	020	
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap					
Aluminium and aluminium alloys		66		64	
Brass, copper, lead, zinc, nickel and their alloys excluding solder		724		187	
		4		228	
Scrap metal	Th.gal.	A SEPARATE AND A SERVICE	Th.gal.		
and the same of th	{ 11.8	18	3.0	7	
Paint and varnish (including lacquers and stains)	4	1	J		
General chemicals (b) Inorganic (including inorganic gases)	h			18	
Organic (including organic gases)		26	0 10 mm 1. 30 mm	10	
		ne meantraine (month)		5	
Other (eg mixtures of inorganic and organic chemicals	a last metade	d grisslii	DEN PER GUIS	(bac 70 T. 38)	
Bolts, rivets, nuts and washers, screws, nails, tacks, etc	18981	92	shift are be	103	
	n d barmani	855	30'44.3'0	828	
Purchased components not elsewhere specified	367	83	513	126	
Destronce, Browning and Constitute	Th.cwt.	ant vist	Th.cwt.	a see and all a	
Lubricating oils and greases (including cutting oils and emulsions)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 39	} 2.1	13	
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	sa salaqini		128	177	
Tyres and other spare parts for firms, own road goods vehicles	}	2,144	{	36	
Other	J			2,008	
	or I deline with a Table	1,844		2,332	

TABLE 10 (continued)

	1	963	1	968
to the second se	Quantity	Cost	Quantity	Cost
Packaging materials		£'000		£,000
Paper and board		25	a aya a	21
Timber	red to bus as	PART OF ST	or nothern	il ironi gi
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates	and for the s	11	10 1 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28
Timber (sawn or planed) for manufacture into packing cases, etc	dipos - di	-	of pail abo	3
Jute and hessian piece-goods, sacks and bags		87	and and a	74
All other packaging materials		8	de deldering	34
Fuel and electricity (c)	Th.tons	SELECT VICE VICE	Th.tons	on a tours
Coal	28.6	146	15.2	82
Coke (including screenings) and manufactured fuel	5.5	47 4	2.8	36 11
	Th.gal.		Th.gal.	-8/12 8 10/2
Derv fuel and motor spirit for use in road vehicles	306	63 50	277	72 31
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	25,900	1, 154 117	30,030	1,541
	Th. therms	os , fablus	Th.therms	
Gas	10,610	669 245	} 18,506	1,124
	Th.kWh	Mes wayn	Th.kWh	
Electricity	151,216	804 1,157	321,698	2,306 665
All other fuels	a add bus to	(d)	tan I was	51
Total cost of materials and fuel		48,448		55,322
Goods purchased for merchanting	a brown	1,944		2,099
Canteen purchases		125	(d) electe	186
Total cost of purchases		50,517		57,607

⁽a) Terneplate was specifically included for 1963.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

		Unit	1963	1968
Average number mainly employed on transport		No.	160	284
Transport costs		- 10 00 000		lawel .
Wages and salaries		£'000	126	318
Derv fuel and motor spirit		п	113	103
Tyres and other spare parts for road goods vehicles		"		36
Payments to other organisations for transport	by road	п	1	1,152
	by rail and other means excluding postal services	н	960	90
Costs of operating road	goods vehicles	1000		1 Transferred
Insurance		D.S. III	9	10
Vehicle licences		п	8	18
Depreciation		"	60	71
Payments to other organisations for repairs and maintenance		п	30	40
Total		n	1,306(a)	1,838

⁽a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Amounts	Amounts payable	
	1963	1968	
Repairs and maintenance to	£ *000	£'000	
Buildings	285	257	
Road goods vehicles	30	40	
Plant, machinery and other capital equipment	502	978	
Insurance, licensing and depreciation of road goods vehicles (b)	77	99	
Rates, excluding water rates	406	604	
Hire of plant and machinery	37	47	
Postage, telephone, telegrams, cables and telex (c)	135	176	
Total	1,473	2,202	

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

⁽b) Described as 'heavy chemicals' for 1963.

⁽c) Owing to risk of disclosure of information relating to individual firms, the total quantity of electricity generated in firms, own establishments in this industry in 1968 cannot be given. None was recorded for 1963.

⁽d) Not recorded separately for 1963.

⁽b) For details see Table 11.

⁽c) Excluding Telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed	
1968	Per cent.	Per cent.	
April (a)	2.4	0.4	
May	2.4	0.6	
June	4.8	2.0	
July	3.6	3.0	
August	3.6	2.0	
September	12.0	8.8	
October	9.6	4.1	
November	1.2	1.0	
December	32.5	51.7	
1969			
January	2.4	4.9	
February	6.0	4.7	
March	19.3	16.7	
April (b)	0.0	0.0	
	100	100	

⁽a) From 6 April.

⁽b) To 5 April.