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Statistician-General

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## 1. Introduction

This publication presents estimates in respect of the 2017 manufacturing industry large sample survey (LSS). The survey aims to determine changes (if any) in the nature and structure of the manufacturing industry.

The last manufacturing LSS was conducted in 2014 (Reports No. 30-02-03 (2014) and 30-02-04 (2014)).

### 1.1 Scope and coverage

This survey covers enterprises registered for value added tax (VAT) in the taxation system that are engaged mainly in manufacturing. It includes the following divisions within its scope:

- Manufacture of food products and beverages (SIC 30).
- Manufacture of textiles, clothing, leather and footwear (SIC 31).
- Manufacture of wood and wood products, paper, publishing and printing (SIC 32).
- Manufacture of coke, petroleum, chemical products, rubber and plastic (SIC 33).
- Manufacture of glass and other non-metallic mineral products (SIC 34).
- Manufacture of basic metals, metal products, machinery and equipment (SIC 35).
- Manufacture of electrical machinery and equipment (SIC 36).
- Manufacture of telecommunication and professional equipment (SIC 37).
- Manufacture of transport equipment (SIC 38).
- Manufacture of furniture and other manufacturing (including tobacco and recycling) (SIC 39).

The following activities are included:

- The South Africa-based activities of enterprises which operate in multiple countries.

### 1.2 Data items

The following categories of data items were collected: industrial classification, imports and exports, details of employment, income, expenditure, profit or loss, and inventories.

### 1.3 Reference period

The questionnaires were completed for the financial year of the enterprise which ends on any date between 1 July 2016 and 30 June 2017, according to the usual reporting schedule of the enterprise.

#### *Example*

- 1 October 2015 – 30 September 2016
- 1 January 2016 – 31 December 2016
- 1 February 2016 – 31 January 2017
- 1 March 2016 – 28 February 2017
- 1 April 2016 – 31 March 2017

#### **1.4 Current prices**

The rand values are at current prices.

#### **1.5 Reliability of data**

All estimates compiled for this industry are subject to both sampling and non-sampling errors.

The estimates are subject to sampling variability since they are based on information obtained from a sample. They may therefore differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. The standard error (SE) indicates the extent to which an estimate might have varied by chance, because only a sample of enterprises was used. The relative standard error (RSE) (the standard error expressed as a percentage of the estimate) provides an indication of the percentage error likely to have occurred due to sampling, and thus avoids the need to refer to the size of the estimate. The larger the RSE, the less reliable the estimate is.

The following are some of the likely sources of non-sampling errors: sampling frame not up to date, wrong definitions and classification, phrasing of questions, non-response, processing and estimation. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them with a sample of respondents, editing reported data and implementing efficient operating procedures. Non-sampling errors occur in both sample surveys and censuses.

#### **1.6 Confidentiality**

According to Section 17 of the Statistics Act, 1999 (Act No. 6 of 1999), completed questionnaires remain confidential to Statistics South Africa (Stats SA). Individual business information is never disclosed. Results are presented in aggregated form only.

## 2. Summary of findings for the year 2017

### 2.1. Income

**Table A – Income in the manufacturing industry, 2005 – 2017**

Type of manufacturer	2005		2008		2011		2014		2017	
	R million	% contribution	R million	% contribution	R million	% contribution	R million	% contribution	R million	% contribution
Division 30 - Food products and beverages	156 930	16,9	221 123	14,5	287 012	17,1	371 199	17,6	539 556	20,8
Division 31 - Textiles, clothing, leather and footwear	38 337	4,1	43 301	2,8	45 695	2,7	44 795	2,1	58 873	2,3
Division 32 - Wood, wood products, paper, publishing and printing	79 143	8,5	98 906	6,5	106 942	6,4	114 755	5,4	176 036	6,8
Division 33 - Coke, petroleum, chemical products, rubber and plastic	218 982	23,8	449 429	29,5	501 333	29,8	689 012	32,5	668 768	25,5
Division 34 - Glass and other non-metallic mineral products	31 161	3,4	48 550	3,2	52 826	3,2	64 487	3,1	82 211	3,2
Division 35 - Metals, metal products, machinery and equipment	188 090	20,3	311 606	20,4	313 331	18,7	359 698	17,0	422 901	16,3
Division 36 - Electrical machinery and apparatus	23 412	2,5	34 286	2,2	49 462	3,0	60 227	2,9	58 637	2,3
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	8 716	0,9	12 873	0,8	14 499	0,9	16 081	0,8	30 375	1,2
Division 38 - Transport equipment	149 446	16,1	246 696	16,2	248 247	14,8	333 284	15,8	466 473	17,9
Division 39 - Furniture, other manufacturing and recycling	32 533	3,5	59 732	3,9	57 276	3,4	59 001	2,8	95 552	3,7
<b>Total</b>	<b>926 750</b>	<b>100,0</b>	<b>1 526 502</b>	<b>100,0</b>	<b>1 676 623</b>	<b>100,0</b>	<b>2 112 539</b>	<b>100,0</b>	<b>2 599 382</b>	<b>100,0</b>

The total income for the manufacturing industry in 2017 was R2 599,4 billion. The total income represents an increase of 7,2% annualised over the income reported in the corresponding survey of 2014 (R2 112,5 billion). Comparing 2014 and 2017, large increases were reported for 'food products and beverages' (+R168,4 billion), 'transport equipment' (+R133,2 billion) and 'metals, metal products, machinery and equipment' (+R63,2 billion). However, there were decreases in 'coke, petroleum, chemical products, rubber and plastic' (-R20,2 billion) and 'electrical machinery and apparatus' (-R1,6 billion).

Between 2005 and 2017, the 'food products and beverages' division gained the biggest percentage share of income (+3,9 percentage points) (from a percentage contribution of 16,9% in 2005 to 20,8% in 2017). The 'metals, metal products, machinery and equipment' division lost the biggest percentage share (-4,0 percentage points) in the same period (from 20,3% in 2005 to 16,3% in 2017).

**Table B – Concentration ratios for total income in the manufacturing industry, 2005 – 2017**

Concentration ratio (CR)	2005	2008	2011	2014	2017
	%				
CR5	12,5	15,0	13,7	16,2	12,9
CR10	21,4	25,0	22,9	26,0	21,9
CR20	31,4	36,3	32,0	36,5	31,9
CR50	44,3	48,1	44,9	48,6	43,7
CR100	53,5	56,9	54,1	58,1	52,4

The top 5 enterprises in the manufacturing industry in 2017 contributed 12,9% to the total income. The highest concentration ratio of the top five enterprises (CR5) was in 2014 at 16,2%. Similarly, the concentration ratios (CR) of the top 10, 20, 50 and 100 were the highest in 2014 at 26,0%, 36,5%, 48,6% and 58,1%, respectively. This illustrates that the dominance of the top enterprises in the manufacturing industry decreased between 2014 and 2017.



**Table C – Profit margin in the manufacturing industry, 2008 – 2017**

Type of manufacturer	Net profit/loss after tax				Turnover				Profit margin			
	2008	2011	2014	2017	2008	2011	2014	2017	2008	2011	2014	2017
	R million				R million				%			
Division 30 - Food products and beverages	16 210	14 750	14 244	63 345	209 818	273 223	359 665	526 413	7,7	5,4	4,0	12,0
Division 31 - Textiles, clothing, leather and footwear	406	1 112	1 583	2 034	42 327	43 854	43 256	58 079	1,0	2,5	3,7	3,5
Division 32 - Wood, wood products, paper, publishing and printing	6 967	3 903	6 767	9 762	84 290	92 185	109 647	171 582	8,3	4,2	6,2	5,7
Division 33 - Coke, petroleum, chemical products, rubber and plastic	39 856	26 153	41 123	33 244	416 879	485 136	671 393	653 060	9,6	5,4	6,1	5,1
Division 34 - Glass and other non-metallic mineral products	4 124	48	3 531	1 065	45 908	48 884	62 959	79 387	9,0	0,1	5,6	1,3
Division 35 - Metals, metal products, machinery and equipment	30 553	13 677	11 462	6 167	299 693	302 687	340 030	410 192	10,2	4,5	3,4	1,5
Division 36 - Electrical machinery and apparatus	2 376	3 159	2 496	1 742	33 513	48 297	58 992	57 331	7,1	6,5	4,2	3,0
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	573	449	765	1 246	12 498	13 687	15 643	29 385	4,6	3,3	4,9	4,2
Division 38 - Transport equipment	10 050	9 941	8 956	13 994	232 019	239 170	312 445	438 533	4,3	4,2	2,9	3,2
Division 39 - Furniture, other manufacturing and recycling	3 837	4 598	5 343	5 758	51 973	55 163	55 917	93 032	7,4	8,3	9,6	6,2
<b>Total</b>	<b>114 952</b>	<b>77 790</b>	<b>96 270</b>	<b>138 357</b>	<b>1 428 918</b>	<b>1 602 286</b>	<b>2 029 947</b>	<b>2 516 994</b>	<b>8,0</b>	<b>4,9</b>	<b>4,7</b>	<b>5,5</b>

The profit margin for the manufacturing industry was 5,5% in 2017. 'Food products and beverages' had the highest profit margin at 12,0%, followed by 'furniture, other manufacturing and recycling' at 6,2%, 'wood, wood products, paper, publishing and printing' at 5,7% and 'coke, petroleum, chemical products, rubber and plastic' at 5,1%. 'Glass and other non-metallic mineral products' had the lowest profit margin at 1,3%.

Between 2008 and 2017 the manufacturing industry recorded a highest profit margin of 8,0% in 2008 and a lowest profit margin of 4,7% in 2014. The highest profit margin by a division during this period was earned in 'food products and beverages' at 12,0% in 2017.

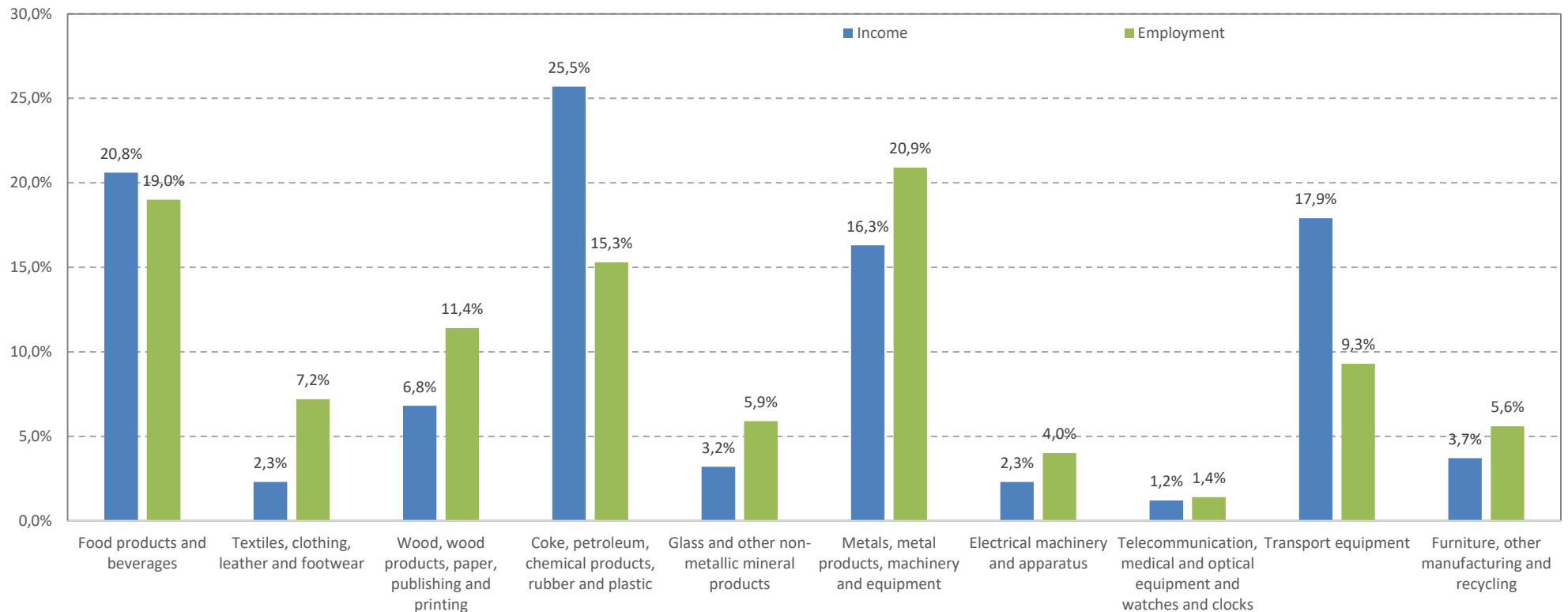
## 2.2. Employment

**Table D – Employment as at the end of June in the manufacturing industry, 2008 – 2017**

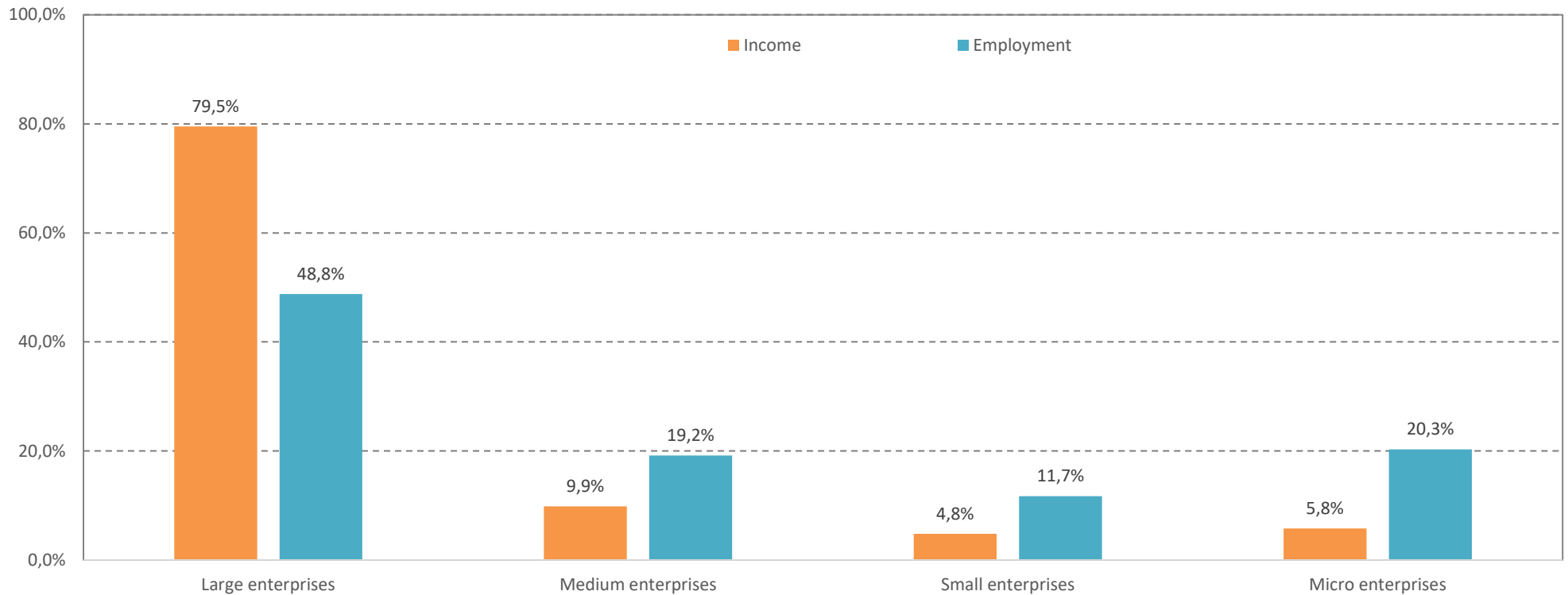
Type of manufacturer	2008		2011		2014		2017	
	Number	% contribution	Number	% contribution	Number	% contribution	Number	% contribution
Division 30 - Food products and beverages	191 609	14,3	226 842	17,4	230 317	19,6	224 362	19,0
Division 31 - Textiles, clothing, leather and footwear	168 912	12,6	127 292	9,8	103 968	8,9	84 788	7,2
Division 32 - Wood, wood products, paper, publishing and printing	159 145	11,8	138 523	10,6	125 821	10,7	135 099	11,4
Division 33 - Coke, petroleum, chemical products, rubber and plastic	171 114	12,7	171 973	13,2	173 401	14,8	180 304	15,3
Division 34 - Glass and other non-metallic mineral products	63 289	4,7	63 350	4,9	60 156	5,1	69 143	5,9
Division 35 - Metals, metal products, machinery and equipment	310 935	23,1	308 159	23,5	249 113	21,3	247 894	20,9
Division 36 - Electrical machinery and apparatus	41 308	3,1	49 929	3,8	44 579	3,8	46 899	4,0
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	19 790	1,5	16 966	1,3	13 032	1,1	16 102	1,4
Division 38 - Transport equipment	132 153	9,8	120 739	9,3	109 337	9,3	109 618	9,3
Division 39 - Furniture, other manufacturing and recycling	85 915	6,4	80 775	6,2	62 844	5,4	66 065	5,6
<b>Total</b>	<b>1 344 170</b>	<b>100,0</b>	<b>1 304 548</b>	<b>100,0</b>	<b>1 172 568</b>	<b>100,0</b>	<b>1 180 274</b>	<b>100,0</b>

The total number of persons employed in the manufacturing industry as at the end of June 2017 was 1 180 274. The 'metals, metal products, machinery and equipment' division employed the largest number of persons (247 894 or 20,9%), followed by 'food products and beverages' (224 362 or 19,0%), 'coke, petroleum, chemical products, rubber and plastic' (180 304 or 15,3%) and 'wood, wood products, paper, publishing and printing' (135 099 or 11,4%).

Employment in the manufacturing industry declined from a high of 1 344 170 in 2008 to a low of 1 172 568 in 2014 (a loss of 171 602 jobs). The biggest loss in employment between 2008 and 2017 was in 'textiles, clothing, leather and footwear' (-84 124 jobs), followed by 'metals, metal products, machinery and equipment' (-63 041 jobs) and 'wood, wood products, paper, publishing and printing' (-24 046 jobs).

**Figure 1 – Income and employment (% contribution) by division in the manufacturing industry, 2017**

The division with the highest proportion of employment compared with its proportion of income was 'textiles, clothing, leather and footwear' (7,2% of employment and 2,3% of income), followed by 'glass and other non-metallic mineral products' (contributing 5,9% of employment and 3,2% of income), and 'electrical machinery and apparatus' (4,0% of employment and 2,3% of income). Although the 'coke, petroleum, chemical products, rubber and plastic' division contributed 25,5% of the total income of the manufacturing industry in 2017, its contribution to employment was only 15,3%. The 'transport equipment' division had the highest proportion of income compared with its proportion of employment (based on the ratio of the proportions) (17,9% of income and 9,3% of employment).

**Figure 2 – Income and employment (% contribution) by enterprise size in the manufacturing industry, 2017**

Whereas large enterprises (those with annual turnover equal to or greater than R306 million) contributed 79,5% of the total income of the manufacturing industry in 2017, their contribution to employment was only 48,8%. The bigger share (51,2%) of the employment in the industry was created by small, medium and micro enterprises (SMMEs) with a contribution of 20,5% to total income.

**Table E – Average salaries and wages in the manufacturing industry, 2008 – 2017**

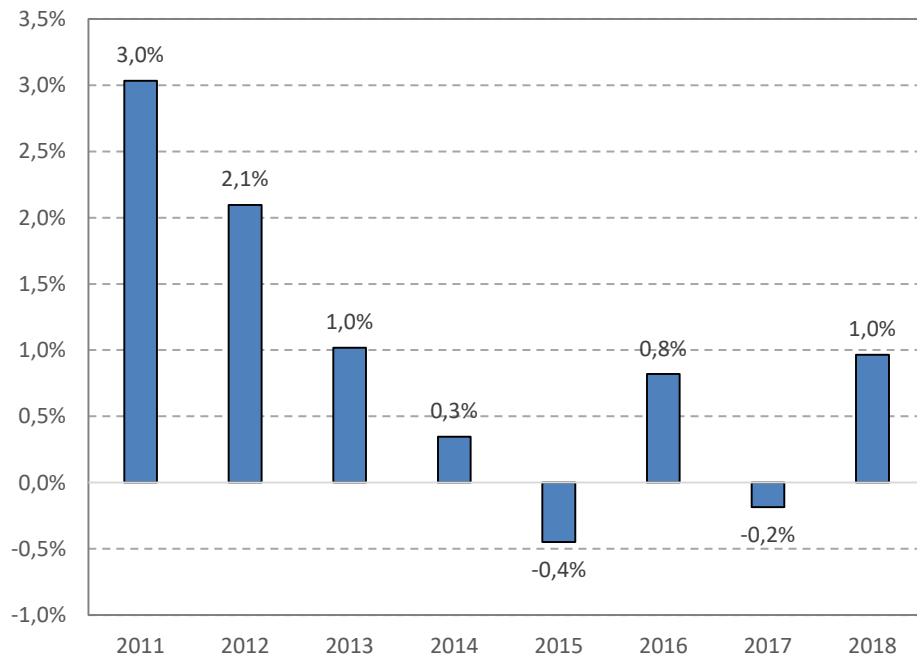
Type of manufacturer	2008			2011			2014			2017		
	Salaries and wages	Total employees	Average salaries and wages	Salaries and wages	Total employees	Average salaries and wages	Salaries and wages	Total employees	Average salaries and wages	Salaries and wages	Total employees	Average salaries and wages
	R million	Number	Rand	R million	Number	Rand	R million	Number	Rand	R million	Number	Rand
Division 30 - Food products and beverages	17 431	191 609	90 972	27 880	222 537	125 283	35 144	230 317	152 590	47 611	224 362	212 206
Division 31 - Textiles, clothing, leather and footwear	8 184	168 912	48 451	8 517	127 055	67 034	7 228	103 968	69 521	8 614	84 788	101 595
Division 32 - Wood, wood products, paper, publishing and printing	13 218	159 145	83 056	18 395	138 525	132 792	19 721	125 821	156 739	28 030	135 099	207 477
Division 33 - Coke, petroleum, chemical products, rubber and plastic	19 352	171 114	113 094	36 232	178 598	202 869	46 718	173 401	269 422	54 855	180 304	304 236
Division 34 - Glass and other non-metallic mineral products	4 545	63 289	71 813	7 392	63 172	117 014	8 647	60 156	143 743	10 465	69 143	151 353
Division 35 - Metals, metal products, machinery and equipment	27 191	310 935	87 449	45 091	291 791	154 532	51 467	249 113	206 601	61 025	247 894	246 174
Division 36 - Electrical machinery and apparatus	4 364	41 308	105 645	8 465	50 732	166 857	9 615	44 579	215 685	10 454	46 899	222 905
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	1 792	19 790	90 551	3 246	16 894	192 139	2 937	13 032	225 368	4 478	16 102	278 102
Division 38 - Transport equipment	11 831	132 153	89 525	21 557	123 748	174 201	25 037	109 337	228 989	31 131	109 618	283 995
Division 39 - Furniture, other manufacturing and recycling	5 805	85 915	67 567	8 024	81 997	97 857	7 125	62 844	113 369	9 488	66 065	143 616
<b>Total</b>	<b>113 713</b>	<b>1 344 170</b>	<b>84 597</b>	<b>184 799</b>	<b>1 295 049</b>	<b>142 697</b>	<b>213 639</b>	<b>1 172 568</b>	<b>182 198</b>	<b>266 151</b>	<b>1 180 274</b>	<b>225 499</b>

Total average salaries and wages in the manufacturing industry in 2017 was R225 499. The division with the highest average salaries and wages was 'coke, petroleum, chemical products, rubber and plastic' (R304 236), followed by 'transport equipment' (R283 995) and 'telecommunication, medical and optical equipment and watches and clocks' (R278 102). The division with the lowest average salaries and wages was 'textiles, clothing, leather and footwear' (R101 595).

Average salaries and wages in the manufacturing industry increased from R84 597 in 2008 to R225 499 in 2017, an annualised growth rate of 11,5%.

### 2.3 Manufacturing industry value added

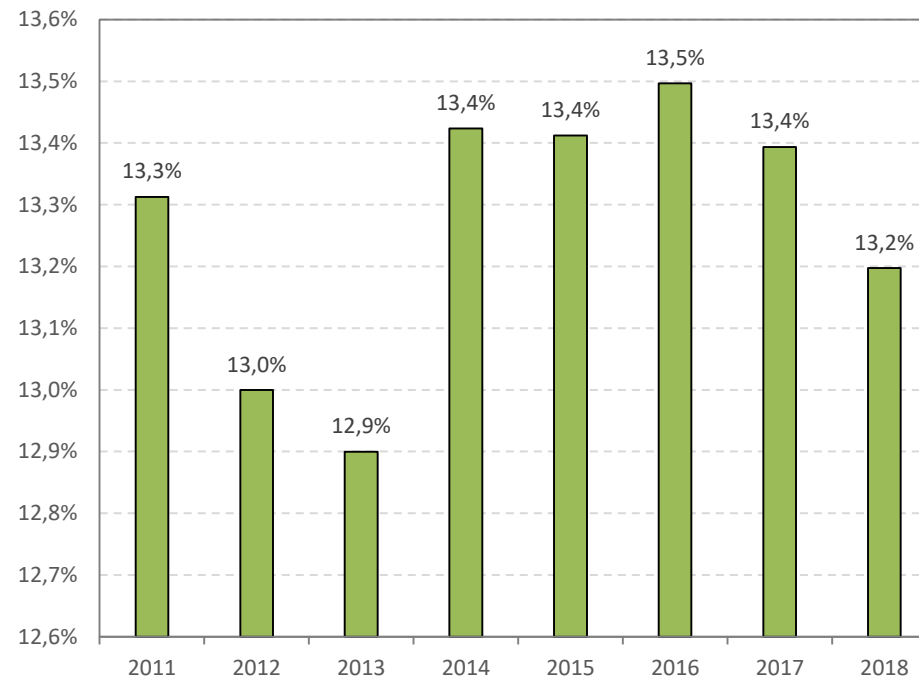
**Figure 3 – Manufacturing value added, percentage change (constant 2010 prices), 2011 – 2018**



Source: P0441, Gross domestic product

Annual manufacturing value added at constant 2010 prices increased from R369,6 billion in 2011 to R386,9 billion in 2018. During this period, the biggest increase was recorded between 2010 and 2011 (3,0%), followed by an increase between 2011 and 2012 (2,1%). There were two contractions recorded between 2014 and 2015 (-0,4%) and between 2016 and 2017 (-0,2%).

**Figure 4 – Percentage contribution of manufacturing to total value added (current prices), 2011 – 2018**



Source: P0441, Gross domestic product

In each of the survey years 2014 and 2017 the contribution of the manufacturing industry to total value added was 13,4%. Between 2011 and 2018 the contribution of the manufacturing industry to total value added was lowest in 2013 at 12,9%.

**2.4 Capital expenditure on new assets****Table F – Capital expenditure on new assets in the manufacturing industry, 2008 – 2017**

Type of manufacturer	2008		2011		2014		2017	
	R million	% contribution	R million	% contribution	R million	% contribution	R million	% contribution
Division 30 - Food products and beverages	9 555	16,9	11 581	16,8	14 327	18,7	16 740	16,1
Division 31 - Textiles, clothing, leather and footwear	1 136	2,0	1 016	1,5	1 181	1,5	1 560	1,5
Division 32 - Wood, wood products, paper, publishing and printing	6 667	11,8	5 085	7,4	7 073	9,2	10 182	9,8
Division 33 - Coke, petroleum, chemical products, rubber and plastic	15 081	26,8	25 770	37,3	30 410	39,7	46 739	45,1
Division 34 - Glass and other non-metallic mineral products	3 840	6,8	3 140	4,6	3 315	4,3	3 069	3,0
Division 35 - Metals, metal products, machinery and equipment	9 637	17,1	10 445	15,2	7 777	10,1	7 799	7,5
Division 36 - Electrical machinery and apparatus	1 183	2,1	1 008	1,5	1 170	1,5	1 354	1,3
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	231	0,4	441	0,6	291	0,4	1 073	1,0
Division 38 - Transport equipment	6 744	11,9	8 638	12,6	10 108	13,2	13 285	12,8
Division 39 - Furniture, other manufacturing and recycling	2 372	4,2	1 703	2,5	1 041	1,4	2 001	1,9
<b>Total</b>	<b>56 446</b>	<b>100,0</b>	<b>68 827</b>	<b>100,0</b>	<b>76 693</b>	<b>100,0</b>	<b>103 802</b>	<b>100,0</b>

The total capital expenditure on new assets in the manufacturing industry was R103,8 billion in 2017. The largest contributor to the total capital expenditure was 'coke, petroleum, chemical products, rubber and plastic' (R46,7 billion or 45,1%), followed by 'food products and beverages' (R16,7 billion or 16,1%), 'transport equipment' (R13,3 billion or 12,8%) and 'wood, wood products, paper, publishing and printing' (R10,2 billion or 9,8%).

The expenditure on new assets in 2017 represents an increase of 10,6% annualised from the expenditure reported in the corresponding survey of 2014 (+R27,1 billion). Large increases were reported for 'coke, petroleum, chemical products, rubber and plastic' (+R16,3 billion), 'transport equipment' (+R3,2 billion) and 'wood, wood products, paper, publishing and printing' (+R3,1 billion).

**Risenga Maluleke**  
**Statistician-General**

### 3. Tables

**Table 1 – Principal statistics in the manufacturing industry, 2014 and 2017**

Item	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million		
Total sales of own manufactured products	1 695 811	2 155 663	8,3
Total sales and services	2 029 947	2 514 390	7,4
Total income	2 112 539	2 599 382	7,2
Total expenditure	1 993 719	2 421 354	6,7
Net profit or loss before tax	137 324	183 418	10,1
Total opening inventory	249 276	321 805	8,9
Total closing inventory	267 773	334 821	7,7
Capital expenditure on new assets	76 693	103 802	10,6
Total salaries and wages	213 639	266 151	7,6
Total purchases	1 330 930	1 624 487	6,9
	Number		
Total employees	1 172 568	1 180 274	0,2

<sup>1</sup>Revised figures.

<sup>2</sup>Preliminary figures.



**Table 2 – Principal statistics by division in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Total income			Total expenditure			Net profit or loss before tax	
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>
	R million			R million			R million	
Division 30 - Food products and beverages	371 199	539 556	13,3	353 491	469 371	9,9	20 911	73 496
Division 31 - Textiles, clothing, leather and footwear	44 795	58 873	9,5	43 964	56 606	8,8	2 195	2 803
Division 32 - Wood, wood products, paper, publishing and printing	114 755	176 036	15,3	106 935	161 933	14,8	8 640	14 108
Division 33 - Coke, petroleum, chemical products, rubber and plastic	689 012	668 768	-1,0	630 224	628 759	-0,1	58 653	46 010
Division 34 - Glass and other non-metallic mineral products	64 487	82 211	8,4	58 999	70 996	6,4	5 696	11 839
Division 35 - Metals, metal products, machinery and equipment	359 698	422 901	5,5	350 179	414 088	5,7	15 735	10 695
Division 36 - Electrical machinery and apparatus	60 227	58 637	-0,9	57 796	56 457	-0,8	3 479	2 572
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	16 081	30 375	23,6	15 644	28 909	22,7	1 085	1 763
Division 38 - Transport equipment	333 284	466 473	11,9	324 484	445 123	11,1	13 470	19 826
Division 39 - Furniture, other manufacturing and recycling	59 001	95 552	17,4	52 003	89 112	19,7	7 454	7 932
Total	2 112 539	2 599 382	7,2	1 993 719	2 421 354	6,7	137 317	191 044

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 2 – Principal statistics by division in the manufacturing industry, 2014 and 2017 (concluded)**

Type of manufacturer	Total opening inventory			Total closing inventory			Capital expenditure on new assets		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualise d % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million			R million		
Division 30 - Food products and beverages	33 679	50 480	14,4	36 882	53 791	13,4	14 327	16 740	5,3
Division 31 - Textiles, clothing, leather and footwear	8 085	9 958	7,2	9 449	10 494	3,6	1 181	1 560	9,7
Division 32 - Wood, wood products, paper, publishing and printing	11 132	19 700	21,0	11 952	19 705	18,1	7 073	10 182	12,9
Division 33 - Coke, petroleum, chemical products, rubber and plastic	78 463	80 627	0,9	78 328	86 628	3,4	30 410	46 739	15,4
Division 34 - Glass and other non-metallic mineral products	7 622	9 865	9,0	7 830	10 489	10,2	3 315	3 069	-2,5
Division 35 - Metals, metal products, machinery and equipment	50 057	53 017	1,9	56 273	54 899	-0,8	7 777	7 799	0,1
Division 36 - Electrical machinery and apparatus	7 885	8 401	2,1	8 933	8 793	-0,5	1 170	1 354	5,0
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	1 800	4 390	34,6	2 448	4 687	24,2	291	1 073	54,5
Division 38 - Transport equipment	42 260	73 681	20,4	46 930	72 157	15,4	10 108	13 285	9,5
Division 39 - Furniture, other manufacturing and recycling	8 292	11 686	12,1	8 748	13 178	14,6	1 041	2 001	24,3
Total	249 276	321 805	8,9	267 773	334 821	7,7	76 693	103 802	10,6

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 3 – Principal statistics in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Total income	Total expenditure	Net profit or loss before tax	Total opening inventory	Total closing inventory	Capital expenditure on new assets
	R million					
<b>Division 30 - Food products and beverages</b>	<b>539 556</b>	<b>469 371</b>	<b>73 496</b>	<b>50 480</b>	<b>53 791</b>	<b>16 740</b>
Production, processing and preserving of meat and meat products	52 142	50 834	1 393	2 451	2 536	905
Processing and preserving of fruit and vegetables	18 561	17 749	1 000	3 221	3 409	901
Manufacture of vegetable and animal oils and fats	36 683	37 037	-200	3 113	3 267	751
Manufacture of dairy products	36 784	36 037	801	3 256	3 310	1 623
Manufacture of grain mill products, starches and starch products	58 750	55 419	3 662	5 821	6 152	917
Manufacture of prepared animal feeds	37 303	36 172	1 484	2 812	3 165	974
Manufacture of bakery products	19 637	17 877	1 648	1 169	1 057	626
Manufacture of sugar, cocoa, chocolate and sugar confectionery	39 002	31 873	7 252	3 652	3 775	1 855
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	74 818	68 761	6 642	7 967	8 552	1 176
Manufacture of alcoholic and non-alcoholic beverages	165 876	117 612	49 814	17 018	18 568	7 012
<b>Division 31 - Textiles, clothing, leather and footwear</b>	<b>58 873</b>	<b>56 606</b>	<b>2 803</b>	<b>9 958</b>	<b>10 494</b>	<b>1 560</b>
Preparation and spinning of textile fibres and weaving and finishing of textiles	7 779	7 519	348	1 627	1 715	264
Manufacture of made-up textile articles, except apparel	5 787	5 732	136	882	963	145
Manufacture of carpets, rugs and mats	2 255	2 070	255	561	631	88
Manufacture of cordage, rope, twine and netting	912	871	74	108	141	47
Manufacture of other textiles	4 413	4 283	171	574	615	232
Manufacture of knitted and crocheted fabrics and articles	3 468	3 164	299	763	758	136
Manufacture of wearing apparel, except fur apparel	22 593	21 930	905	3 648	3 890	397
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	6 496	6 178	389	772	843	130
Manufacture of luggage, handbags and the like, saddlery and harness	732	746	-8	133	139	17
Manufacture of footwear	4 438	4 113	234	890	799	104

<sup>2</sup>Preliminary figures.

**Table 3 – Principal statistics in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Total income	Total expenditure	Net profit or loss before tax	Total opening inventory	Total closing inventory	Capital expenditure on new assets
	R million					
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>176 036</b>	<b>161 933</b>	<b>14 108</b>	<b>19 700</b>	<b>19 705</b>	<b>10 182</b>
Sawmilling and planing of wood	13 810	14 399	-570	1 259	1 278	1 169
Manufacture of builders' carpentry and joinery	8 783	8 364	372	841	794	186
Manufacture of wooden containers	2 249	2 185	68	136	140	92
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	7 816	7 246	487	1 152	1 069	227
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	48 900	45 092	3 936	7 084	7 212	2 743
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	37 856	32 889	5 578	3 607	4 218	2 795
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	28 388	26 663	1 505	2 211	1 991	958
Publishing of recorded media and other publishing	262	231	31	3	3	2
Printing	26 672	23 613	2 665	3 299	2 905	2 005
Service activities related to printing and reproduction of recorded media	1 300	1 251	36	108	95	5
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>668 768</b>	<b>628 759</b>	<b>46 010</b>	<b>80 627</b>	<b>86 628</b>	<b>46 739</b>
Manufacture of coke oven products	5 759	5 356	397	399	393	170
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	299 758	286 927	17 189	28 115	32 473	17 487
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	97 970	87 265	11 907	13 236	14 438	8 650
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	24 537	23 392	939	4 647	4 441	4 197
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	17 396	17 715	-274	3 334	3 379	408
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	41 320	37 346	3 872	8 802	8 700	1 594
Manufacture of soap and detergents, perfumes and toilet preparations	55 738	49 812	6 195	5 713	5 982	2 065

<sup>2</sup>Preliminary figures.

**Table 3 – Principal statistics in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Total income	Total expenditure	Net profit or loss before tax	Total opening inventory	Total closing inventory	Capital expenditure on new assets
	R million					
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	39 643	37 422	1 929	6 204	5 912	1 087
Manufacture of rubber tyres and tubes and retreading of tyres	15 976	16 377	36	2 910	3 347	1 524
Manufacture of man-made fibres and other rubber products	5 807	5 585	252	668	698	192
Manufacture of plastic products	64 864	61 562	3 568	6 599	6 865	9 365
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>82 211</b>	<b>70 996</b>	<b>11 839</b>	<b>9 865</b>	<b>10 489</b>	<b>3 069</b>
Manufacture of refractory ceramic products	2 036	1 912	164	354	394	31
Manufacture of structural non-refractory clay and ceramic products	7 915	7 429	531	937	982	560
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	45 067	36 569	8 519	3 937	3 958	1 142
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	27 193	25 086	2 625	4 637	5 155	1 336
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>422 901</b>	<b>414 088</b>	<b>10 695</b>	<b>53 017</b>	<b>54 899</b>	<b>7 799</b>
Manufacture of basic iron and steel	89 146	95 788	-4 950	7 300	8 992	1 324
Manufacture of basic precious and non-ferrous metals	93 084	86 039	7 300	13 459	13 714	787
Manufacture of structural metal products	41 980	41 535	431	3 893	3 879	459
Treatment and coating of metals; general mechanical engineering	26 697	26 378	540	2 900	3 121	805
Manufacture of cutlery, hand tools and general hardware	5 033	4 725	363	1 001	1 056	68
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	41 544	40 153	1 716	4 557	4 882	940
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	3 304	3 547	-42	262	463	187

<sup>2</sup>Preliminary figures.

**Table 3 – Principal statistics in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Total income	Total expenditure	Net profit or loss before tax	Total opening inventory	Total closing inventory	Capital expenditure on new assets
	R million					
Manufacture of pumps, compressors, taps and valves	15 074	14 520	758	2 915	3 119	299
Manufacture of ovens, furnaces and furnace burners	571	489	115	86	119	27
Manufacture of lifting and handling equipment	6 379	6 043	419	543	626	360
Manufacture of steam generators, household appliances and other general purpose machinery	30 170	29 728	-993	5 503	4 068	674
Manufacture of agricultural and forestry machinery	4 928	4 513	535	899	1 019	237
Manufacture of machine tools	2 717	2 531	276	534	624	203
Manufacture of machinery for mining, quarrying, construction and metallurgy	33 428	31 253	2 119	6 265	6 209	736
Manufacture of machinery for food, beverage and tobacco processing	3 597	3 289	260	536	488	104
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	25 249	23 557	1 848	2 364	2 520	589
<b>Division 36 - Electrical machinery and apparatus</b>	<b>58 637</b>	<b>56 457</b>	<b>2 572</b>	<b>8 401</b>	<b>8 793</b>	<b>1 354</b>
Manufacture of electric motors, generators and transformers	17 627	17 344	255	2 784	2 756	162
Manufacture of electricity distribution and control apparatus	6 648	6 080	840	511	783	414
Manufacture of insulated wire and cable	11 008	11 145	126	1 711	1 974	107
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	8 531	8 056	412	1 915	1 852	280
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	14 823	13 832	939	1 480	1 428	391
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>30 375</b>	<b>28 909</b>	<b>1 763</b>	<b>4 390</b>	<b>4 687</b>	<b>1 073</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	19 570	19 046	531	2 433	2 440	756
Manufacture of medical and surgical equipment and orthopaedic appliances	1 936	1 727	256	274	321	50

<sup>2</sup>Preliminary figures.

**Table 3 – Principal statistics in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Total income	Total expenditure	Net profit or loss before tax	Total opening inventory	Total closing inventory	Capital expenditure on new assets
	R million					
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	8 028	7 307	958	1 588	1 825	245
Manufacture of watches and clocks, optical instruments and photographic equipment	841	829	18	95	101	22
<b>Division 38 - Transport equipment</b>	<b>466 473</b>	<b>445 123</b>	<b>19 826</b>	<b>73 681</b>	<b>72 157</b>	<b>13 285</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	11 026	9 996	740	2 491	2 201	183
Manufacture of parts for motor vehicles and their engines	84 058	78 666	5 107	8 775	8 490	2 345
Building and repairing of ships	3 581	3 370	247	67	103	73
Building and repairing of pleasure and sporting boats	1 544	1 440	118	40	54	19
Manufacture of aircraft	8 893	8 601	511	1 610	1 829	182
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	357 371	343 050	13 103	60 698	59 480	10 483
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>95 552</b>	<b>89 112</b>	<b>7 932</b>	<b>11 686</b>	<b>13 178</b>	<b>2 001</b>
Manufacture of furniture	12 924	12 273	723	1 323	1 395	226
Manufacture of jewellery and related articles	16 866	17 089	1 425	2 320	3 968	185
Manufacture of musical instruments, sports goods, games and toys	619	561	43	69	54	21
Manufacture of tobacco products and other manufacturing n.e.c.	47 147	41 774	5 195	7 324	7 146	1 036
Recycling of waste and scrap n.e.c.	17 996	17 415	546	650	615	533
<b>Total</b>	<b>2 599 382</b>	<b>2 421 354</b>	<b>191 044</b>	<b>321 805</b>	<b>334 821</b>	<b>103 802</b>

<sup>2</sup>Preliminary figures.

**Table 4 – Profit margin in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Net profit or loss after tax		Turnover			Profit margin	
	2014 <sup>1</sup>	2017 <sup>2</sup>	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>
	R million					%	
Division 30 - Food products and beverages	14 244	63 345	359 665	526 413	13,5	4,0	12,0
Division 31 - Textiles, clothing, leather and footwear	1 583	2 034	43 256	58 079	10,3	3,7	3,5
Division 32 - Wood, wood products, paper, publishing and printing	6 767	9 762	109 647	171 582	16,1	6,2	5,7
Division 33 - Coke, petroleum, chemical products, rubber and plastic	41 123	33 244	671 393	653 060	-0,9	6,1	5,1
Division 34 - Glass and other non-metallic mineral products	3 531	1 065	62 959	79 387	8,0	5,6	1,3
Division 35 - Metals, metal products, machinery and equipment	11 462	6 167	340 030	410 192	6,5	3,4	1,5
Division 36 - Electrical machinery and apparatus	2 496	1 742	58 992	57 331	-0,9	4,2	3,0
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	765	1 246	15 643	29 385	23,4	4,9	4,2
Division 38 - Transport equipment	8 956	13 994	312 445	438 533	12,0	2,9	3,2
Division 39 - Furniture, other manufacturing and recycling	5 345	5 758	55 917	93 032	18,5	9,6	6,2
Total	96 270	138 357	2 029 947	2 516 994	7,4	4,7	5,5

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.



**Table 5 – Profit margin in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Net profit or loss after tax	Turnover	Profit margin
	R million		%
<b>Division 30 - Food products and beverages</b>	<b>63 345</b>	<b>526 413</b>	<b>12,0</b>
Production, processing and preserving of meat and meat products	1 057	51 122	2,1
Processing and preserving of fruit and vegetables	696	18 137	3,8
Manufacture of vegetable and animal oils and fats	-631	35 874	-1,8
Manufacture of dairy products	391	36 266	1,1
Manufacture of grain mill products, starches and starch products	2 500	58 327	4,3
Manufacture of prepared animal feeds	849	33 905	2,5
Manufacture of bakery products	1 340	19 480	6,9
Manufacture of sugar, cocoa, chocolate and sugar confectionery	6 136	38 129	16,1
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	5 367	73 728	7,3
Manufacture of alcoholic and non-alcoholic beverages	45 640	161 445	28,3
<b>Division 31 - Textiles, clothing, leather and footwear</b>	<b>2 034</b>	<b>58 079</b>	<b>3,5</b>
Preparation and spinning of textile fibres and weaving and finishing of textiles	210	7 443	2,8
Manufacture of made-up textile articles, except apparel	91	5 569	1,6
Manufacture of carpets, rugs and mats	202	2 182	9,3
Manufacture of cordage, rope, twine and netting	58	883	6,6
Manufacture of other textiles	110	4 332	2,5
Manufacture of knitted and crocheted fabrics and articles	278	3 216	8,6
Manufacture of wearing apparel, except fur apparel	694	21 961	3,2
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	298	6 374	4,7
Manufacture of luggage, handbags and the like, saddlery and harness	-19	715	-2,7
Manufacture of footwear	112	5 404	2,1

<sup>2</sup>Preliminary figures.

**Table 5 – Profit margin in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Net profit or loss after tax	Turnover	Profit margin
	R million		%
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>9 762</b>	<b>171 582</b>	<b>5,7</b>
Sawmilling and planing of wood	-657	13 024	-5,0
Manufacture of builders' carpentry and joinery	259	8 676	3,0
Manufacture of wooden containers	45	2 206	2,0
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	365	7 577	4,8
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	3 011	47 576	6,3
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	3 986	37 169	10,7
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	763	27 769	2,7
Publishing of recorded media and other publishing	24	244	9,8
Printing	1 945	26 058	7,5
Service activities related to printing and reproduction of recorded media	21	1 283	1,6
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>33 244</b>	<b>653 060</b>	<b>5,1</b>
Manufacture of coke oven products	294	5 637	5,2
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	12 236	295 424	4,1
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	8 787	93 976	9,4
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	445	22 427	2,0
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	-351	17 127	-2,0
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	2 818	40 218	7,0
Manufacture of soap and detergents, perfumes and toilet preparations	5 030	54 703	9,2
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	1 360	38 882	3,5
Manufacture of rubber tyres and tubes and retreading of tyres	-3	15 383	0,0
Manufacture of man-made fibres and other rubber products	167	5 579	3,0
Manufacture of plastic products	2 461	63 704	3,9

<sup>2</sup>Preliminary figures.

**Table 5 – Profit margin in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Net profit or loss after tax	Turnover	Profit margin
	R million		%
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>1 065</b>	<b>79 387</b>	<b>1,3</b>
Manufacture of refractory ceramic products	111	2 013	5,5
Manufacture of structural non-refractory clay and ceramic products	377	7 795	4,8
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	-1 556	44 426	-3,5
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	2 133	25 153	8,5
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>6 167</b>	<b>410 192</b>	<b>1,5</b>
Manufacture of basic iron and steel	-5 663	85 573	-6,6
Manufacture of basic precious and non-ferrous metals	4 946	89 251	5,5
Manufacture of structural metal products	566	41 739	1,4
Treatment and coating of metals; general mechanical engineering	239	26 305	0,9
Manufacture of cutlery, hand tools and general hardware	247	4 879	5,1
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	1 077	40 780	2,6
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	-82	3 115	-2,6
Manufacture of pumps, compressors, taps and valves	520	14 853	3,5
Manufacture of ovens, furnaces and furnace burners	103	554	18,6
Manufacture of lifting and handling equipment	255	6 204	4,1
Manufacture of steam generators, household appliances and other general purpose machinery	432	29 511	1,5
Manufacture of agricultural and forestry machinery	364	4 799	7,6
Manufacture of machine tools	194	2 648	7,3
Manufacture of machinery for mining, quarrying, construction and metallurgy	1 462	31 992	4,6
Manufacture of machinery for food, beverage and tobacco processing	150	3 552	4,2
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	1 357	24 437	5,6

<sup>2</sup>Preliminary figures.

**Table 5 – Profit margin in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Net profit or loss after tax	Turnover	Profit margin
	R million		%
<b>Division 36 - Electrical machinery and apparatus</b>	<b>1 742</b>	<b>57 331</b>	<b>3,0</b>
Manufacture of electric motors, generators and transformers	82	17 288	0,5
Manufacture of electricity distribution and control apparatus	648	6 544	9,9
Manufacture of insulated wire and cable	76	10 741	0,7
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	318	8 264	3,8
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	618	14 494	4,3
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>1 246</b>	<b>29 385</b>	<b>4,2</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	258	19 120	1,3
Manufacture of medical and surgical equipment and orthopaedic appliances	197	1 897	10,4
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	771	7 536	10,2
Manufacture of watches and clocks, optical instruments and photographic equipment	20	832	2,4
<b>Division 38 - Transport equipment</b>	<b>13 994</b>	<b>438 533</b>	<b>3,2</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	562	10 814	5,2
Manufacture of parts for motor vehicles and their engines	3 726	81 169	4,6
Building and repairing of ships	175	3 383	5,2
Building and repairing of pleasure and sporting boats	85	1 503	5,7
Manufacture of aircraft	230	8 382	2,7
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	9 216	333 282	2,8
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>5 758</b>	<b>93 032</b>	<b>6,2</b>
Manufacture of furniture	415	12 522	3,3
Manufacture of jewellery and related articles	1 105	16 394	6,7
Manufacture of musical instruments, sports goods, games and toys	37	591	6,3
Manufacture of tobacco products and other manufacturing n.e.c.	3 796	45 838	8,3
Recycling of waste and scrap n.e.c.	405	17 687	2,3
<b>Total</b>	<b>138 357</b>	<b>2 516 994</b>	<b>5,5</b>

<sup>2</sup>Preliminary figures.

**Table 6 – Income in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Sales of goods			Income from services rendered			Other income			Total income		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million			R million			R million		
Division 30 - Food products and beverages	355 137	521 742	13,7	4 528	4 204	-2,4	11 534	13 610	5,7	371 199	539 556	13,3
Division 31 - Textiles, clothing, leather and footwear	42 722	57 797	10,6	535	233	-24,2	1 538	843	-18,2	44 795	58 873	9,5
Division 32 - Wood, wood products, paper, publishing and printing	106 159	168 403	16,6	3 488	3 088	-4,0	5 108	4 545	-3,8	114 755	176 036	15,3
Division 33 - Coke, petroleum, chemical products, rubber and plastic	635 965	645 907	0,5	35 427	6 359	-43,6	17 620	16 502	-2,2	689 012	668 768	-1,0
Division 34 - Glass and other non-metallic mineral products	61 887	78 360	8,2	1 072	908	-5,4	1 528	2 943	24,4	64 487	82 211	8,4
Division 35 - Metals, metal products, machinery and equipment	318 791	388 534	6,8	21 239	21 003	-0,4	19 668	13 364	-12,1	359 698	422 901	5,5
Division 36 - Electrical machinery and apparatus	54 582	52 879	-1,1	4 410	4 414	0,0	1 235	1 344	2,9	60 227	58 637	-0,9
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	14 244	26 203	22,5	1 399	3 149	31,1	438	1 023	32,7	16 081	30 375	23,6
Division 38 - Transport equipment	297 056	423 854	12,6	15 389	14 368	-2,3	20 839	28 251	10,7	333 284	466 473	11,9
Division 39 - Furniture, other manufacturing and recycling	54 706	90 970	18,5	1 211	2 015	18,5	3 084	2 567	-5,9	59 001	95 552	17,4
Total	1 941 249	2 454 649	8,1	88 698	59 741	-12,3	82 592	84 992	1,0	2 112 539	2 599 382	7,2

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 7 – Income in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Sales of goods	Income from services rendered	Other income	Total income
	R million			
<b>Division 30 - Food products and beverages</b>	<b>521 742</b>	<b>4 204</b>	<b>13 610</b>	<b>539 556</b>
Production, processing and preserving of meat and meat products	50 905	188	1 049	<b>52 142</b>
Processing and preserving of fruit and vegetables	18 052	63	446	<b>18 561</b>
Manufacture of vegetable and animal oils and fats	35 672	185	826	<b>36 683</b>
Manufacture of dairy products	34 941	1 318	525	<b>36 784</b>
Manufacture of grain mill products, starches and starch products	58 040	141	569	<b>58 750</b>
Manufacture of prepared animal feeds	33 826	53	3 424	<b>37 303</b>
Manufacture of bakery products	19 473	5	159	<b>19 637</b>
Manufacture of sugar, cocoa, chocolate and sugar confectionery	38 026	33	943	<b>39 002</b>
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	71 601	2 071	1 146	<b>74 818</b>
Manufacture of alcoholic and non-alcoholic beverages	161 206	147	4 523	<b>165 876</b>
<b>Division 31 - Textiles, clothing, leather and footwear</b>	<b>57 797</b>	<b>233</b>	<b>843</b>	<b>58 873</b>
Preparation and spinning of textile fibres and weaving and finishing of textiles	7 602	28	149	<b>7 779</b>
Manufacture of made-up textile articles, except apparel	5 637	90	60	<b>5 787</b>
Manufacture of carpets, rugs and mats	2 175	6	74	<b>2 255</b>
Manufacture of cordage, rope, twine and netting	883	0	29	<b>912</b>
Manufacture of other textiles	4 287	34	92	<b>4 413</b>
Manufacture of knitted and crocheted fabrics and articles	3 277	39	152	<b>3 468</b>
Manufacture of wearing apparel, except fur apparel	22 451	9	133	<b>22 593</b>
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	6 350	20	126	<b>6 496</b>
Manufacture of luggage, handbags and the like, saddlery and harness	715	0	17	<b>732</b>
Manufacture of footwear	4 420	7	11	<b>4 438</b>

<sup>2</sup>Preliminary figures.

**Table 7 – Income in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Sales of goods	Income from services rendered	Other income	Total income
	R million			
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>168 403</b>	<b>3 088</b>	<b>4 545</b>	<b>176 036</b>
Sawmilling and planing of wood	12 975	32	803	13 810
Manufacture of builders' carpentry and joinery	8 626	47	110	8 783
Manufacture of wooden containers	2 165	35	49	2 249
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	7 553	17	246	7 816
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	47 388	160	1 352	48 900
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	37 069	92	695	37 856
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	25 720	2 044	624	28 388
Publishing of recorded media and other publishing	241	3	18	262
Printing	25 472	573	627	26 672
Service activities related to printing and reproduction of recorded media	1 194	85	21	1 300
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>645 907</b>	<b>6 359</b>	<b>16 502</b>	<b>668 768</b>
Manufacture of coke oven products	5 470	163	126	5 759
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	291 825	3 194	4 739	299 758
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	92 617	1 128	4 225	97 970
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	22 372	38	2 127	24 537
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	17 049	52	295	17 396
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	39 679	518	1 123	41 320
Manufacture of soap and detergents, perfumes and toilet preparations	54 598	92	1 048	55 738
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	38 391	480	772	39 643
Manufacture of rubber tyres and tubes and retreading of tyres	15 340	41	595	15 976
Manufacture of man-made fibres and other rubber products	5 307	268	232	5 807
Manufacture of plastic products	63 259	385	1 220	64 864

<sup>2</sup>Preliminary figures.

**Table 7 – Income in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Sales of goods	Income from services rendered	Other income	Total income
	R million			
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>78 360</b>	<b>908</b>	<b>2 943</b>	<b>82 211</b>
Manufacture of refractory ceramic products	1 901	111	24	<b>2 036</b>
Manufacture of structural non-refractory clay and ceramic products	7 658	107	150	<b>7 915</b>
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	44 037	343	687	<b>45 067</b>
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	24 764	347	2 082	<b>27 193</b>
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>388 534</b>	<b>21 003</b>	<b>13 364</b>	<b>422 901</b>
Manufacture of basic iron and steel	84 343	1 136	3 667	<b>89 146</b>
Manufacture of basic precious and non-ferrous metals	87 733	1 466	3 885	<b>93 084</b>
Manufacture of structural metal products	41 198	519	263	<b>41 980</b>
Treatment and coating of metals; general mechanical engineering	23 171	3 107	419	<b>26 697</b>
Manufacture of cutlery, hand tools and general hardware	4 765	109	159	<b>5 033</b>
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	40 367	274	903	<b>41 544</b>
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	2 351	761	192	<b>3 304</b>
Manufacture of pumps, compressors, taps and valves	14 300	551	223	<b>15 074</b>
Manufacture of ovens, furnaces and furnace burners	537	17	17	<b>571</b>
Manufacture of lifting and handling equipment	5 323	866	190	<b>6 379</b>
Manufacture of steam generators, household appliances and other general purpose machinery	26 404	3 080	686	<b>30 170</b>
Manufacture of agricultural and forestry machinery	4 635	159	134	<b>4 928</b>
Manufacture of machine tools	2 633	15	69	<b>2 717</b>
Manufacture of machinery for mining, quarrying, construction and metallurgy	28 189	3 778	1 461	<b>33 428</b>
Manufacture of machinery for food, beverage and tobacco processing	3 058	428	111	<b>3 597</b>
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	19 527	4 737	985	<b>25 249</b>

<sup>2</sup>Preliminary figures.



**Table 7 – Income in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Sales of goods	Income from services rendered	Other income	Total income
	R million			
<b>Division 36 - Electrical machinery and apparatus</b>	<b>52 879</b>	<b>4 414</b>	<b>1 344</b>	<b>58 637</b>
Manufacture of electric motors, generators and transformers	14 582	2 696	349	17 627
Manufacture of electricity distribution and control apparatus	6 356	181	111	6 648
Manufacture of insulated wire and cable	10 740	1	267	11 008
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	8 227	19	285	8 531
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	12 974	1 517	332	14 823
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>26 203</b>	<b>3 149</b>	<b>1 023</b>	<b>30 375</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	18 178	939	453	19 570
Manufacture of medical and surgical equipment and orthopaedic appliances	1 779	113	44	1 936
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	5 419	2 092	517	8 028
Manufacture of watches and clocks, optical instruments and photographic equipment	827	5	9	841
<b>Division 38 - Transport equipment</b>	<b>423 854</b>	<b>14 368</b>	<b>28 251</b>	<b>466 473</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	10 314	499	213	11 026
Manufacture of parts for motor vehicles and their engines	80 737	428	2 893	84 058
Building and repairing of ships	2 090	1 291	200	3 581
Building and repairing of pleasure and sporting boats	612	888	44	1 544
Manufacture of aircraft	3 781	4 572	540	8 893
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	326 320	6 690	24 361	357 371
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>90 970</b>	<b>2 015</b>	<b>2 567</b>	<b>95 552</b>
Manufacture of furniture	12 293	200	431	12 924
Manufacture of jewellery and related articles	16 382	11	473	16 866
Manufacture of musical instruments, sports goods, games and toys	591	0	28	619
Manufacture of tobacco products and other manufacturing n.e.c.	44 447	1 388	1 312	47 147
Recycling of waste and scrap n.e.c.	17 257	416	323	17 996
<b>Total</b>	<b>2 454 649</b>	<b>59 741</b>	<b>84 992</b>	<b>2 599 382</b>

<sup>2</sup>Preliminary figures.

**Table 8 – Income by enterprise size in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Large enterprises	Medium enterprises	Small enterprises	Micro enterprises	Total
	R million				
Division 30 - Food products and beverages	461 090	50 520	13 816	14 130	<b>539 556</b>
Division 31 - Textiles, clothing, leather and footwear	23 564	19 210	8 608	7 491	<b>58 873</b>
Division 32 - Wood, wood products, paper, publishing and printing	122 747	23 299	13 404	16 586	<b>176 036</b>
Division 33 - Coke, petroleum, chemical products, rubber and plastic	579 164	46 222	20 174	23 208	<b>668 768</b>
Division 34 - Glass and other non-metallic mineral products	55 391	13 187	6 704	6 929	<b>82 211</b>
Division 35 - Metals, metal products, machinery and equipment	270 019	60 128	38 823	53 931	<b>422 901</b>
Division 36 - Electrical machinery and apparatus	34 672	12 380	5 728	5 857	<b>58 637</b>
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	21 419	3 846	2 020	3 090	<b>30 375</b>
Division 38 - Transport equipment	433 220	16 145	7 719	9 389	<b>466 473</b>
Division 39 - Furniture, other manufacturing and recycling	65 631	11 692	8 406	9 823	<b>95 552</b>
<b>Total</b>	<b>2 066 917</b>	<b>256 629</b>	<b>125 402</b>	<b>150 434</b>	<b>2 599 382</b>

<sup>2</sup>Preliminary figures.

**Table 9 – Concentration ratios for total income in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Total income	Income of 5 largest enterprises <sup>3</sup>	Relative contribution of 5 largest enterprises <sup>4</sup>	Income of 10 largest enterprises <sup>3</sup>	Relative contribution of 10 largest enterprises <sup>4</sup>	Income of 20 largest enterprises <sup>3</sup>	Relative contribution of 20 largest enterprises <sup>4</sup>
	R million		%	R million	%	R million	%
<b>Division 30 - Food products and beverages</b>	539 556	158 858	29,4	208 542	38,7	270 073	50,1
Production, processing and preserving of meat and meat products	52 142	13 496	25,9	20 581	39,5	28 001	53,7
Processing and preserving of fruit and vegetables	18 561	9 458	51,0	11 982	64,6	14 334	77,2
Manufacture of vegetable and animal oils and fats	36 683	21 279	58,0	28 329	77,2	35 556	96,9
Manufacture of dairy products	36 784	21 893	59,5	26 354	71,6	31 152	84,7
Manufacture of grain mill products, starches and starch products	58 750	38 669	65,8	44 592	75,9	51 590	87,8
Manufacture of prepared animal feeds	37 303	16 936	45,4	23 032	61,7	28 738	77,0
Manufacture of bakery products	19 637	13 080	66,6	14 194	72,3	15 759	80,3
Manufacture of sugar, cocoa, chocolate and sugar confectionery	39 002	31 776	81,5	35 985	92,3	37 767	96,8
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	74 818	33 508	44,8	44 552	59,5	52 436	70,1
Manufacture of alcoholic and non-alcoholic beverages	165 876	128 875	77,7	140 814	84,9	149 174	89,9
<b>Division 31 - Textiles, clothing, leather and footwear</b>	58 873	8 421	14,3	12 173	20,7	17 203	29,2
Preparation and spinning of textile fibres and weaving and finishing of textiles	7 779	2 785	35,8	3 957	50,9	5 558	71,4
Manufacture of made-up textile articles, except apparel	5 787	1 759	30,4	2 688	46,4	3 719	64,3
Manufacture of carpets, rugs and mats	2 255	1 796	79,6	2 164	96,0	2 219	98,4
Manufacture of cordage, rope, twine and netting	912	573	62,8	741	81,3	867	95,1
Manufacture of other textiles	4 413	1 649	37,4	2 391	54,2	2 957	67,0
Manufacture of knitted and crocheted fabrics and articles	3 468	1 710	49,3	2 413	69,6	3 000	86,5
Manufacture of wearing apparel, except fur apparel	22 593	6 177	27,3	8 381	37,1	11 375	50,3
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	6 496	4 784	73,6	5 989	92,2	6 388	98,3
Manufacture of luggage, handbags and the like, saddlery and harness	732	241	32,9	329	44,9	438	59,8
Manufacture of footwear	4 438	1 927	43,4	2 578	58,1	3 213	72,4

<sup>2</sup>Preliminary figures.<sup>3</sup>These figures reflect the income of the 5, 10 and 20 largest enterprises respectively for each row and not the column subtotal or total.<sup>4</sup>Relative contribution = income of the largest enterprises divided by total income multiplied by 100.

**Table 9 – Concentration ratios for total income in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Total income	Income of 5 largest enterprises <sup>3</sup>	Relative contribution of 5 largest enterprises <sup>4</sup>	Income of 10 largest enterprises <sup>3</sup>	Relative contribution of 10 largest enterprises <sup>4</sup>	Income of 20 largest enterprises <sup>3</sup>	Relative contribution of 20 largest enterprises <sup>4</sup>
	R million		%	R million	%	R million	%
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>176 036</b>	<b>57 068</b>	<b>32,4</b>	<b>74 367</b>	<b>42,2</b>	<b>89 587</b>	<b>50,9</b>
Sawmilling and planing of wood	13 810	7 201	52,1	9 905	71,7	11 334	82,1
Manufacture of builders' carpentry and joinery	8 783	3 075	35,0	3 652	41,6	4 449	50,7
Manufacture of wooden containers	2 249	669	29,7	1 102	49,0	1 505	66,9
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	7 816	4 382	56,1	4 917	62,9	5 543	70,9
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	48 900	30 208	61,8	34 786	71,1	40 108	82,0
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	37 856	23 056	60,9	25 775	68,1	28 488	75,3
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	28 388	18 824	66,3	21 918	77,2	23 842	84,0
Publishing of recorded media and other publishing	262	161	61,5	199	76,0	208	79,4
Printing	26 672	11 863	44,5	14 290	53,6	16 227	60,8
Service activities related to printing and reproduction of recorded media	1 300	936	72,0	1 040	80,0	1 152	88,6
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>668 768</b>	<b>268 818</b>	<b>40,2</b>	<b>381 086</b>	<b>57,0</b>	<b>432 404</b>	<b>64,7</b>
Manufacture of coke oven products	5 759	4 541	78,9	5 183	90,0	5 691	98,8
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	299 758	256 711	85,6	293 882	98,0	297 016	99,1
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	97 970	63 923	65,2	74 038	75,6	84 386	86,1
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	24 537	14 564	59,4	17 764	72,4	20 302	82,7
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	17 396	5 679	32,6	8 235	47,3	11 574	66,5
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	41 320	23 178	56,1	29 524	71,5	34 339	83,1
Manufacture of soap and detergents, perfumes and toilet preparations	55 738	36 369	65,2	43 741	78,5	49 016	87,9

<sup>2</sup>Preliminary figures.<sup>3</sup>These figures reflect the income of the 5, 10 and 20 largest enterprises respectively for each row and not the column subtotal or total.<sup>4</sup>Relative contribution = income of the largest enterprises divided by total income multiply by 100.

**Table 9 – Concentration ratios for total income in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Total income	Income of 5 largest enterprises <sup>3</sup>	Relative contribution of 5 largest enterprises <sup>4</sup>	Income of 10 largest enterprises <sup>3</sup>	Relative contribution of 10 largest enterprises <sup>4</sup>	Income of 20 largest enterprises <sup>3</sup>	Relative contribution of 20 largest enterprises <sup>4</sup>
	R million		%	R million	%	R million	%
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	39 643	27 868	70,3	31 357	79,1	35 143	88,6
Manufacture of rubber tyres and tubes and retreading of tyres	15 976	14 612	91,5	15 105	94,5	15 485	96,9
Manufacture of man-made fibres and other rubber products	5 807	2 063	35,5	2 962	51,0	4 020	69,2
Manufacture of plastic products	64 864	11 180	17,2	15 680	24,2	22 244	34,3
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>82 211</b>	<b>30 964</b>	<b>37,7</b>	<b>42 162</b>	<b>51,3</b>	<b>51 457</b>	<b>62,6</b>
Manufacture of refractory ceramic products	2 036	1 122	55,1	1 453	71,4	1 719	84,4
Manufacture of structural non-refractory clay and ceramic products	7 915	4 855	61,3	5 701	72,0	6 546	82,7
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	45 067	22 234	49,3	26 837	59,5	31 082	69,0
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	27 193	18 281	67,2	20 687	76,1	22 520	82,8
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>422 901</b>	<b>95 546</b>	<b>22,6</b>	<b>123 137</b>	<b>29,1</b>	<b>155 641</b>	<b>36,8</b>
Manufacture of basic iron and steel	89 146	57 384	64,4	69 923	78,4	78 739	88,3
Manufacture of basic precious and non-ferrous metals	93 084	61 919	66,5	72 472	77,9	84 228	90,5
Manufacture of structural metal products	41 980	6 397	15,2	10 425	24,8	15 055	35,9
Treatment and coating of metals; general mechanical engineering	26 697	6 937	26,0	8 640	32,4	10 581	39,6
Manufacture of cutlery, hand tools and general hardware	5 033	2 479	49,3	3 023	60,1	3 530	70,1
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	41 544	6 376	15,3	9 083	21,9	12 877	31,0
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	3 304	2 608	78,9	2 904	87,9	3 027	91,6
Manufacture of pumps, compressors, taps and valves	15 074	5 676	37,7	7 283	48,3	9 174	60,9
Manufacture of ovens, furnaces and furnace burners	571	349	61,1	443	77,6	473	82,8
Manufacture of lifting and handling equipment	6 379	1 481	23,2	2 093	32,8	2 944	46,2

<sup>2</sup>Preliminary figures.<sup>3</sup>These figures reflect the income of the 5, 10 and 20 largest enterprises respectively for each row and not the column subtotal or total.<sup>4</sup>Relative contribution = income of the largest enterprises divided by total income multiply by 100.

**Table 9 – Concentration ratios for total income in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Total income	Income of 5 largest enterprises <sup>3</sup>	Relative contribution of 5 largest enterprises <sup>4</sup>	Income of 10 largest enterprises <sup>3</sup>	Relative contribution of 10 largest enterprises <sup>4</sup>	Income of 20 largest enterprises <sup>3</sup>	Relative contribution of 20 largest enterprises <sup>4</sup>
	R million		%	R million	%	R million	%
Manufacture of steam generators, household appliances and other general purpose machinery	30 170	9 451	31,3	12 475	41,3	15 607	51,7
Manufacture of agricultural and forestry machinery	4 928	1 249	25,3	1 793	36,4	2 367	48,0
Manufacture of machine tools	2 717	1 526	56,2	1 841	67,8	2 198	80,9
Manufacture of machinery for mining, quarrying, construction and metallurgy	33 428	12 591	37,7	16 298	48,8	20 371	60,9
Manufacture of machinery for food, beverage and tobacco processing	3 597	2 112	58,7	2 521	70,1	2 917	81,1
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	25 249	12 611	49,9	14 747	58,4	16 681	66,1
<b>Division 36 - Electrical machinery and apparatus</b>	<b>58 637</b>	<b>18 077</b>	<b>30,8</b>	<b>24 803</b>	<b>42,3</b>	<b>31 798</b>	<b>54,2</b>
Manufacture of electric motors, generators and transformers	17 627	12 647	71,7	13 791	78,2	15 085	85,6
Manufacture of electricity distribution and control apparatus	6 648	2 226	33,5	2 932	44,1	3 879	58,3
Manufacture of insulated wire and cable	11 008	7 838	71,2	9 172	83,3	10 463	95,0
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	8 531	5 858	68,7	6 761	79,3	7 606	89,2
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	14 823	4 705	31,7	6 850	46,2	9 550	64,4
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>30 375</b>	<b>8 852</b>	<b>29,1</b>	<b>13 340</b>	<b>43,9</b>	<b>19 611</b>	<b>64,6</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	19 570	8 576	43,8	12 484	63,8	16 513	84,4
Manufacture of medical and surgical equipment and orthopaedic appliances	1 936	569	29,4	828	42,8	1 175	60,7
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	8 028	4 263	53,1	5 929	73,9	6 919	86,2
Manufacture of watches and clocks, optical instruments and photographic equipment	841	613	72,9	707	84,1	778	92,5

<sup>2</sup>Preliminary figures.<sup>3</sup>These figures reflect the income of the 5, 10 and 20 largest enterprises respectively for each row and not the column subtotal or total.<sup>4</sup>Relative contribution = income of the largest enterprises divided by total income multiply by 100.

**Table 9 – Concentration ratios for total income in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Total income	Income of 5 largest enterprises <sup>3</sup>	Relative contribution of 5 largest enterprises <sup>4</sup>	Income of 10 largest enterprises <sup>3</sup>	Relative contribution of 10 largest enterprises <sup>4</sup>	Income of 20 largest enterprises <sup>3</sup>	Relative contribution of 20 largest enterprises <sup>4</sup>
	R million		%	R million	%	R million	%
<b>Division 38 - Transport equipment</b>	<b>466 473</b>	<b>254 212</b>	<b>54,5</b>	<b>316 822</b>	<b>67,9</b>	<b>357 931</b>	<b>76,7</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	11 026	6 220	56,4	7 514	68,1	8 523	77,3
Manufacture of parts for motor vehicles and their engines	84 058	25 852	30,8	38 130	45,4	55 144	65,6
Building and repairing of ships	3 581	2 717	75,9	3 140	87,7	3 370	94,1
Building and repairing of pleasure and sporting boats	1 544	1 169	75,7	1 347	87,2	1 502	97,3
Manufacture of aircraft	8 893	6 645	74,7	7 438	83,6	8 004	90,0
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	357 371	254 212	71,1	312 130	87,3	336 647	94,2
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>95 552</b>	<b>37 642</b>	<b>39,4</b>	<b>46 326</b>	<b>48,5</b>	<b>57 216</b>	<b>59,9</b>
Manufacture of furniture	12 924	5 141	39,8	6 143	47,5	7 430	57,5
Manufacture of jewellery and related articles	16 866	8 496	50,4	12 122	71,9	14 618	86,7
Manufacture of musical instruments, sports goods, games and toys	619	422	68,2	493	79,6	573	92,6
Manufacture of tobacco products and other manufacturing n.e.c.	47 147	33 186	70,4	35 380	75,0	37 180	78,9
Recycling of waste and scrap n.e.c.	17 996	9 378	52,1	12 349	68,6	14 450	80,3
<b>Total</b>	<b>2 599 382</b>	<b>335 858</b>	<b>12,9</b>	<b>568 343</b>	<b>21,9</b>	<b>829 680</b>	<b>31,9</b>

<sup>2</sup>Preliminary figures.<sup>3</sup>These figures reflect the income of the 5, 10 and 20 largest enterprises respectively for each row and not the column subtotal or total.<sup>4</sup>Relative contribution = income of the largest enterprises divided by total income multiply by 100.

**Table 10 – Expenditure in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Purchases			Salaries and wages paid			Other expenditure			Total expenditure		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million			R million			R million		
Division 30 - Food products and beverages	222 089	303 773	11,0	35 144	47 611	10,7	96 258	117 987	7,0	353 491	469 371	9,9
Division 31 - Textiles, clothing, leather and footwear	27 905	38 315	11,1	7 228	8 614	6,0	8 831	9 677	3,1	43 964	56 606	8,8
Division 32 - Wood, wood products, paper, publishing and printing	58 369	92 641	16,6	19 721	28 030	12,4	28 845	41 262	12,7	106 935	161 933	14,8
Division 33 - Coke, petroleum, chemical products, rubber and plastic	454 853	425 796	-2,2	46 718	54 855	5,5	128 653	148 108	4,8	630 224	628 759	-0,1
Division 34 - Glass and other non-metallic mineral products	32 141	46 629	13,2	8 647	10 465	6,6	18 211	13 902	-8,6	58 999	70 996	6,4
Division 35 - Metals, metal products, machinery and equipment	223 025	259 714	5,2	51 467	61 025	5,8	75 687	93 349	7,2	350 179	414 088	5,7
Division 36 - Electrical machinery and apparatus	37 843	37 361	-0,4	9 615	10 454	2,8	10 338	8 642	-5,8	57 796	56 457	-0,8
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	9 075	18 446	26,7	2 937	4 478	15,1	3 632	5 985	18,1	15 644	28 909	22,7
Division 38 - Transport equipment	233 648	348 503	14,3	25 037	31 131	7,5	65 799	65 489	-0,2	324 484	445 123	11,1
Division 39 - Furniture, other manufacturing and recycling	31 982	53 309	18,6	7 125	9 488	10,0	12 896	26 315	26,8	52 003	89 112	19,7
<b>Total</b>	<b>1 330 930</b>	<b>1 624 487</b>	<b>6,9</b>	<b>213 639</b>	<b>266 151</b>	<b>7,6</b>	<b>449 150</b>	<b>530 716</b>	<b>5,7</b>	<b>1 993 719</b>	<b>2 421 354</b>	<b>6,7</b>

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.



**Table 11 – Expenditure in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Purchases	Salaries and wages paid	Other expenditure	Total expenditure
	R million			
<b>Division 30 - Food products and beverages</b>	<b>303 773</b>	<b>47 611</b>	<b>117 987</b>	<b>469 371</b>
Production, processing and preserving of meat and meat products	41 059	2 881	6 894	50 834
Processing and preserving of fruit and vegetables	11 297	2 287	4 165	17 749
Manufacture of vegetable and animal oils and fats	32 645	1 208	3 184	37 037
Manufacture of dairy products	22 580	4 316	9 141	36 037
Manufacture of grain mill products, starches and starch products	40 691	3 544	11 184	55 419
Manufacture of prepared animal feeds	29 701	2 358	4 113	36 172
Manufacture of bakery products	10 776	2 569	4 532	17 877
Manufacture of sugar, cocoa, chocolate and sugar confectionery	14 828	5 342	11 703	31 873
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	40 845	8 916	19 000	68 761
Manufacture of alcoholic and non-alcoholic beverages	59 351	14 190	44 071	117 612
<b>Division 31 - Textiles, clothing, leather and footwear</b>	<b>38 315</b>	<b>8 614</b>	<b>9 677</b>	<b>56 606</b>
Preparation and spinning of textile fibres and weaving and finishing of textiles	5 117	977	1 425	7 519
Manufacture of made-up textile articles, except apparel	3 709	806	1 217	5 732
Manufacture of carpets, rugs and mats	924	395	751	2 070
Manufacture of cordage, rope, twine and netting	472	206	193	871
Manufacture of other textiles	2 798	763	722	4 283
Manufacture of knitted and crocheted fabrics and articles	1 876	674	614	3 164
Manufacture of wearing apparel, except fur apparel	15 828	3 128	2 974	21 930
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	4 891	570	717	6 178
Manufacture of luggage, handbags and the like, saddlery and harness	401	190	155	746
Manufacture of footwear	2 299	905	909	4 113
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>92 641</b>	<b>28 030</b>	<b>41 262</b>	<b>161 933</b>
Sawmilling and planing of wood	9 135	1 395	3 869	14 399
Manufacture of builders' carpentry and joinery	4 951	1 472	1 941	8 364
Manufacture of wooden containers	1 484	315	386	2 185
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	4 705	1 055	1 486	7 246
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	27 311	6 985	10 796	45 092

<sup>2</sup>Preliminary figures.

**Table 11 – Expenditure in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Purchases	Salaries and wages paid	Other expenditure	Total expenditure
	R million			
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	19 350	4 489	9 050	32 889
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	10 096	7 377	9 190	26 663
Publishing of recorded media and other publishing	81	59	91	231
Printing	14 659	4 717	4 237	23 613
Service activities related to printing and reproduction of recorded media	869	166	216	1 251
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>425 796</b>	<b>54 855</b>	<b>148 108</b>	<b>628 759</b>
Manufacture of coke oven products	3 430	608	1 318	5 356
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	226 126	9 219	51 582	286 927
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	40 308	11 568	35 389	87 265
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	15 261	2 308	5 823	23 392
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	10 938	2 599	4 178	17 715
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	21 573	5 992	9 781	37 346
Manufacture of soap and detergents, perfumes and toilet preparations	27 531	5 915	16 366	49 812
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	27 069	4 184	6 169	37 422
Manufacture of rubber tyres and tubes and retreading of tyres	11 902	2 146	2 329	16 377
Manufacture of man-made fibres and other rubber products	3 471	952	1 162	5 585
Manufacture of plastic products	38 187	9 364	14 011	61 562
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>46 629</b>	<b>10 465</b>	<b>13 902</b>	<b>70 996</b>
Manufacture of refractory ceramic products	1 277	294	341	1 912
Manufacture of structural non-refractory clay and ceramic products	4 386	1 402	1 641	7 429
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	29 962	4 664	1 943	36 569
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	11 004	4 105	9 977	25 086
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>259 714</b>	<b>61 025</b>	<b>93 349</b>	<b>414 088</b>
Manufacture of basic iron and steel	61 421	9 306	25 061	95 788
Manufacture of basic precious and non-ferrous metals	65 529	4 508	16 002	86 039
Manufacture of structural metal products	27 869	6 472	7 194	41 535

<sup>2</sup>Preliminary figures.

**Table 11 – Expenditure in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Purchases	Salaries and wages paid	Other expenditure	Total expenditure
	R million			
Treatment and coating of metals; general mechanical engineering	15 201	6 003	5 174	26 378
Manufacture of cutlery, hand tools and general hardware	2 466	1 210	1 049	4 725
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	22 537	7 780	9 836	40 153
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	1 800	1 109	638	3 547
Manufacture of pumps, compressors, taps and valves	8 267	3 205	3 048	14 520
Manufacture of ovens, furnaces and furnace burners	229	139	121	489
Manufacture of lifting and handling equipment	3 400	1 511	1 132	6 043
Manufacture of steam generators, household appliances and other general purpose machinery	17 228	6 062	6 438	29 728
Manufacture of agricultural and forestry machinery	3 006	716	791	4 513
Manufacture of machine tools	1 236	656	639	2 531
Manufacture of machinery for mining, quarrying, construction and metallurgy	19 333	5 869	6 051	31 253
Manufacture of machinery for food, beverage and tobacco processing	2 277	618	394	3 289
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	7 915	5 861	9 781	23 557
<b>Division 36 - Electrical machinery and apparatus</b>	<b>37 361</b>	<b>10 454</b>	<b>8 642</b>	<b>56 457</b>
Manufacture of electric motors, generators and transformers	10 873	3 619	2 852	17 344
Manufacture of electricity distribution and control apparatus	3 892	1 287	901	6 080
Manufacture of insulated wire and cable	8 831	1 230	1 084	11 145
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	5 100	1 799	1 157	8 056
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	8 665	2 519	2 648	13 832
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>18 446</b>	<b>4 478</b>	<b>5 985</b>	<b>28 909</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	13 636	1 736	3 674	19 046

<sup>2</sup>Preliminary figures.

**Table 11 – Expenditure in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Purchases	Salaries and wages paid	Other expenditure	Total expenditure
	R million			
Manufacture of medical and surgical equipment and orthopaedic appliances	821	479	427	1 727
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	3 475	2 127	1 705	7 307
Manufacture of watches and clocks, optical instruments and photographic equipment	514	136	179	829
<b>Division 38 - Transport equipment</b>	<b>348 503</b>	<b>31 131</b>	<b>65 489</b>	<b>445 123</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	6 916	1 838	1 242	9 996
Manufacture of parts for motor vehicles and their engines	58 781	7 505	12 380	78 666
Building and repairing of ships	2 074	634	662	3 370
Building and repairing of pleasure and sporting boats	1 042	190	208	1 440
Manufacture of aircraft	3 992	2 666	1 943	8 601
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	275 698	18 298	49 054	343 050
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>53 309</b>	<b>9 488</b>	<b>26 315</b>	<b>89 112</b>
Manufacture of furniture	6 641	2 358	3 274	12 273
Manufacture of jewellery and related articles	14 797	818	1 474	17 089
Manufacture of musical instruments, sports goods, games and toys	314	136	111	561
Manufacture of tobacco products and other manufacturing n.e.c.	18 094	4 829	18 851	41 774
Recycling of waste and scrap n.e.c.	13 463	1 347	2 605	17 415
<b>Total</b>	<b>1 624 487</b>	<b>266 151</b>	<b>530 716</b>	<b>2 421 354</b>

<sup>2</sup>Preliminary figures.

**Table 12 – Purchases in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Raw materials			Finished goods for resale			Other purchases			Total purchases		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million			R million			R million		
Division 30 - Food products and beverages	191 442	253 637	9,8	6 414	22 182	51,2	24 233	27 954	4,9	222 089	303 773	11,0
Division 31 - Textiles, clothing, leather and footwear	23 176	30 345	9,4	4 028	6 596	17,9	701	1 374	25,1	27 905	38 315	11,1
Division 32 - Wood, wood products, paper, publishing and printing	51 808	81 395	16,3	3 251	6 658	27,0	3 310	4 588	11,5	58 369	92 641	16,6
Division 33 - Coke, petroleum, chemical products, rubber and plastic	349 256	341 589	-0,7	71 388	53 612	-9,1	34 209	30 595	-3,7	454 853	425 796	-2,2
Division 34 - Glass and other non-metallic mineral products	28 248	39 820	12,1	520	1 343	37,2	3 373	5 466	17,5	32 141	46 629	13,2
Division 35 - Metals, metal products, machinery and equipment	200 467	240 482	6,3	11 696	6 268	-18,8	10 862	12 964	6,1	223 025	259 714	5,2
Division 36 - Electrical machinery and apparatus	33 230	31 388	-1,9	3 912	5 369	11,1	701	604	-4,8	37 843	37 361	-0,4
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	8 545	17 272	26,4	271	1 023	55,7	259	151	-16,5	9 075	18 446	26,7
Division 38 - Transport equipment	173 624	258 439	14,2	55 017	86 902	16,5	5 007	3 162	-14,2	233 648	348 503	14,3
Division 39 - Furniture, other manufacturing and recycling	29 832	50 693	19,3	810	1 333	18,1	1 340	1 283	-1,4	31 982	53 309	18,6
<b>Total</b>	<b>1 089 628</b>	<b>1 345 060</b>	<b>7,3</b>	<b>157 306</b>	<b>191 286</b>	<b>6,7</b>	<b>83 996</b>	<b>88 141</b>	<b>1,6</b>	<b>1 330 930</b>	<b>1 624 487</b>	<b>6,9</b>

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 13 – Purchases in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Raw materials	Finished goods for resale	Other purchases	Total purchases
	R million			
<b>Division 30 - Food products and beverages</b>	<b>253 637</b>	<b>22 182</b>	<b>27 954</b>	<b>303 773</b>
Production, processing and preserving of meat and meat products	39 428	376	1 255	41 059
Processing and preserving of fruit and vegetables	7 605	2 044	1 648	11 297
Manufacture of vegetable and animal oils and fats	31 211	159	1 275	32 645
Manufacture of dairy products	18 922	81	3 577	22 580
Manufacture of grain mill products, starches and starch products	32 768	5 365	2 558	40 691
Manufacture of prepared animal feeds	26 530	1 579	1 592	29 701
Manufacture of bakery products	9 429	21	1 326	10 776
Manufacture of sugar, cocoa, chocolate and sugar confectionery	12 766	511	1 551	14 828
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	27 747	7 858	5 240	40 845
Manufacture of alcoholic and non-alcoholic beverages	47 231	4 188	7 932	59 351
<b>Division 31 - Textiles, clothing, leather and footwear</b>	<b>30 345</b>	<b>6 596</b>	<b>1 374</b>	<b>38 315</b>
Preparation and spinning of textile fibres and weaving and finishing of textiles	4 595	170	352	5 117
Manufacture of made-up textile articles, except apparel	3 375	45	289	3 709
Manufacture of carpets, rugs and mats	806	53	65	924
Manufacture of cordage, rope, twine and netting	393	36	43	472
Manufacture of other textiles	2 564	152	82	2 798
Manufacture of knitted and crocheted fabrics and articles	1 812	18	46	1 876
Manufacture of wearing apparel, except fur apparel	9 730	5 775	323	15 828
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	4 795	0	96	4 891
Manufacture of luggage, handbags and the like, saddlery and harness	342	56	3	401
Manufacture of footwear	1 933	291	75	2 299

<sup>2</sup>Preliminary figures.

**Table 13 – Purchases in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Raw materials	Finished goods for resale	Other purchases	Total purchases
	R million			
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>81 395</b>	<b>6 658</b>	<b>4 588</b>	<b>92 641</b>
Sawmilling and planing of wood	7 479	1 335	321	9 135
Manufacture of builders' carpentry and joinery	4 683	83	185	4 951
Manufacture of wooden containers	1 402	14	68	1 484
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	3 243	835	627	4 705
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	26 087	282	942	27 311
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	16 232	1 158	1 960	19 350
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	7 720	2 050	326	10 096
Publishing of recorded media and other publishing	74	6	1	81
Printing	13 625	881	153	14 659
Service activities related to printing and reproduction of recorded media	850	14	5	869
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>341 589</b>	<b>53 612</b>	<b>30 595</b>	<b>425 796</b>
Manufacture of coke oven products	3 087	38	305	3 430
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	182 528	26 882	16 716	226 126
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	33 367	5 971	970	40 308
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	14 219	53	989	15 261
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	9 477	419	1 042	10 938
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	13 885	5 986	1 702	21 573
Manufacture of soap and detergents, perfumes and toilet preparations	19 478	2 892	5 161	27 531
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	18 106	7 327	1 636	27 069
Manufacture of rubber tyres and tubes and retreading of tyres	8 499	2 890	513	11 902
Manufacture of man-made fibres and other rubber products	3 001	244	226	3 471
Manufacture of plastic products	35 942	910	1 335	38 187

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 13 – Purchases in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Raw materials	Finished goods for resale	Other purchases	Total purchases
	R million			
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>39 820</b>	<b>1 343</b>	<b>5 466</b>	<b>46 629</b>
Manufacture of refractory ceramic products	1 098	84	95	1 277
Manufacture of structural non-refractory clay and ceramic products	2 859	490	1 037	4 386
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	26 949	486	2 527	29 962
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	8 914	283	1 807	11 004
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>240 482</b>	<b>6 268</b>	<b>12 964</b>	<b>259 714</b>
Manufacture of basic iron and steel	53 904	11	7 506	61 421
Manufacture of basic precious and non-ferrous metals	63 811	242	1 476	65 529
Manufacture of structural metal products	26 036	1 068	765	27 869
Treatment and coating of metals; general mechanical engineering	14 899	176	126	15 201
Manufacture of cutlery, hand tools and general hardware	2 096	103	267	2 466
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	21 046	537	954	22 537
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	1 782	1	17	1 800
Manufacture of pumps, compressors, taps and valves	6 771	1 390	106	8 267
Manufacture of ovens, furnaces and furnace burners	220	0	9	229
Manufacture of lifting and handling equipment	3 302	43	55	3 400
Manufacture of steam generators, household appliances and other general purpose machinery	15 494	967	767	17 228
Manufacture of agricultural and forestry machinery	2 725	185	96	3 006
Manufacture of machine tools	1 051	80	105	1 236
Manufacture of machinery for mining, quarrying, construction and metallurgy	18 237	755	341	19 333
Manufacture of machinery for food, beverage and tobacco processing	1 978	274	25	2 277
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	7 130	436	349	7 915

<sup>2</sup>Preliminary figures.



**Table 13 – Purchases in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Raw materials	Finished goods for resale	Other purchases	Total purchases
	R million			
<b>Division 36 - Electrical machinery and apparatus</b>	<b>31 388</b>	<b>5 369</b>	<b>604</b>	<b>37 361</b>
Manufacture of electric motors, generators and transformers	7 278	3 496	99	<b>10 873</b>
Manufacture of electricity distribution and control apparatus	3 431	419	42	<b>3 892</b>
Manufacture of insulated wire and cable	8 601	4	226	<b>8 831</b>
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	4 875	212	13	<b>5 100</b>
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	7 203	1 238	224	<b>8 665</b>
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>17 272</b>	<b>1 023</b>	<b>151</b>	<b>18 446</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	13 171	406	59	<b>13 636</b>
Manufacture of medical and surgical equipment and orthopaedic appliances	780	17	24	<b>821</b>
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	2 979	438	58	<b>3 475</b>
Manufacture of watches and clocks, optical instruments and photographic equipment	342	162	10	<b>514</b>
<b>Division 38 - Transport equipment</b>	<b>258 439</b>	<b>86 902</b>	<b>3 162</b>	<b>348 503</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	5 946	571	399	<b>6 916</b>
Manufacture of parts for motor vehicles and their engines	56 444	1 745	592	<b>58 781</b>
Building and repairing of ships	2 056	0	18	<b>2 074</b>
Building and repairing of pleasure and sporting boats	918	43	81	<b>1 042</b>
Manufacture of aircraft	3 723	95	174	<b>3 992</b>
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	189 352	84 448	1 898	<b>275 698</b>
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>50 693</b>	<b>1 333</b>	<b>1 283</b>	<b>53 309</b>
Manufacture of furniture	6 349	117	175	<b>6 641</b>
Manufacture of jewellery and related articles	14 490	262	45	<b>14 797</b>
Manufacture of musical instruments, sports goods, games and toys	187	123	4	<b>314</b>
Manufacture of tobacco products and other manufacturing n.e.c.	16 453	807	834	<b>18 094</b>
Recycling of waste and scrap n.e.c.	13 214	24	225	<b>13 463</b>
<b>Total</b>	<b>1 345 060</b>	<b>191 286</b>	<b>88 141</b>	<b>1 624 487</b>

<sup>2</sup>Preliminary figures.

**Table 14 – Details of capital expenditure on new assets in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Land, buildings and construction			Plant, machinery and equipment			Computers and network equipment		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million			R million		
Division 30 - Food products and beverages	2 601	2 272	-4,4	8 033	8 412	1,5	485	606	7,7
Division 31 - Textiles, clothing, leather and footwear	168	141	-5,7	729	955	9,4	60	227	55,8
Division 32 - Wood, wood products, paper, publishing and printing	936	666	-10,7	5 486	6 645	6,6	172	418	34,4
Division 33 - Coke, petroleum, chemical products, rubber and plastic	6 540	3 772	-16,8	18 623	24 991	10,3	302	432	12,7
Division 34 - Glass and other non-metallic mineral products	182	385	28,4	2 018	1 692	-5,7	123	74	-15,6
Division 35 - Metals, metal products, machinery and equipment	736	891	6,6	4 421	4 440	0,1	453	327	-10,3
Division 36 - Electrical machinery and apparatus	114	171	14,5	666	817	7,0	107	97	-3,2
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	16	51	47,2	138	273	25,5	43	580	138,0
Division 38 - Transport equipment	3 057	2 037	-12,7	4 123	4 918	6,1	210	154	-9,8
Division 39 - Furniture, other manufacturing and recycling	194	91	-22,3	422	940	30,6	39	70	21,5
Total	14 543	10 477	-10,4	44 657	54 083	6,6	1 993	2 985	14,4

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 14 – Details of capital expenditure on new assets in the manufacturing industry, 2014 and 2017 (concluded)**

Type of manufacturer	Motor vehicles			Capital expenditure on other assets			Total capital expenditure on new assets		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million			R million		
Division 30 - Food products and beverages	1 021	893	-4,4	2 187	4 557	29,2	14 327	16 740	5,3
Division 31 - Textiles, clothing, leather and footwear	113	108	-1,5	111	129	-9,2	1 181	1 560	9,7
Division 32 - Wood, wood products, paper, publishing and printing	274	339	7,4	205	2 114	135,4	7 073	10 182	12,9
Division 33 - Coke, petroleum, chemical products, rubber and plastic	692	936	10,6	4 253	16 608	58,1	30 410	46 739	15,4
Division 34 - Glass and other non-metallic mineral products	533	379	-10,7	459	539	6,9	3 315	3 069	-2,5
Division 35 - Metals, metal products, machinery and equipment	849	1 002	5,7	1 318	1 139	-3,9	7 777	7 799	0,1
Division 36 - Electrical machinery and apparatus	140	132	-1,9	143	137	-0,5	1 170	1 354	5,0
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	38	81	28,7	56	88	14,7	291	1 073	54,5
Division 38 - Transport equipment	1 111	360	-31,3	1 607	5 816	54,1	10 108	13 285	9,5
Division 39 - Furniture, other manufacturing and recycling	353	153	-24,3	33	747	216,9	1 041	2 001	24,3
Total	5 124	4 383	-5,1	10 376	31 874	47,3	76 693	103 802	10,6

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 15 – Details of capital expenditure on new assets in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Land, buildings and construction	Plant, machinery and equipment	Computers and network equipment	Motor vehicles	Capital expenditure on other assets	Total capital expenditure on new assets
	R million					
<b>Division 30 - Food products and beverages</b>	<b>2 272</b>	<b>8 412</b>	<b>606</b>	<b>893</b>	<b>4 557</b>	<b>16 740</b>
Production, processing and preserving of meat and meat products	211	420	33	95	146	905
Processing and preserving of fruit and vegetables	116	613	29	52	91	901
Manufacture of vegetable and animal oils and fats	23	419	12	15	282	751
Manufacture of dairy products	183	710	123	94	513	1 623
Manufacture of grain mill products, starches and starch products	93	546	8	69	201	917
Manufacture of prepared animal feeds	133	589	52	86	114	974
Manufacture of bakery products	166	347	4	38	71	626
Manufacture of sugar, cocoa, chocolate and sugar confectionery	555	932	126	4	238	1 855
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	207	708	73	181	7	1 176
Manufacture of alcoholic and non-alcoholic beverages	585	3 128	146	259	2 894	7 012
<b>Division 31 - Textiles, clothing, leather and footwear</b>	<b>141</b>	<b>955</b>	<b>227</b>	<b>108</b>	<b>129</b>	<b>1 560</b>
Preparation and spinning of textile fibres and weaving and finishing of textiles	15	223	8	6	12	264
Manufacture of made-up textile articles, except apparel	16	98	6	10	15	145
Manufacture of carpets, rugs and mats	0	73	12	2	1	88
Manufacture of cordage, rope, twine and netting	0	42	2	3	0	47
Manufacture of other textiles	35	31	162	4	0	232
Manufacture of knitted and crocheted fabrics and articles	3	123	1	3	6	136
Manufacture of wearing apparel, except fur apparel	28	220	26	57	66	397
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	16	67	7	12	28	130
Manufacture of luggage, handbags and the like, saddlery and harness	0	8	0	9	0	17
Manufacture of footwear	28	70	3	2	1	104

<sup>2</sup>Preliminary figures.

**Table 15 – Details of capital expenditure on new assets in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Land, buildings and construction	Plant, machinery and equipment	Computers and network equipment	Motor vehicles	Capital expenditure on other assets	Total capital expenditure on new assets
	R million					
<b>Division 32 - Wood, wood products, paper, publishing and printing</b>	<b>666</b>	<b>6 645</b>	<b>418</b>	<b>339</b>	<b>2 114</b>	<b>10 182</b>
Sawmilling and planing of wood	7	1 061	29	55	17	1 169
Manufacture of builders' carpentry and joinery	6	108	20	50	2	186
Manufacture of wooden containers	4	64	0	23	1	92
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	28	126	6	28	39	227
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	46	1 997	39	29	632	2 743
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	283	1 770	123	61	558	2 795
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	228	552	114	21	43	958
Publishing of recorded media and other publishing	1	1	0	0	0	2
Printing	61	1 065	86	72	721	2 005
Service activities related to printing and reproduction of recorded media	2	1	1	0	1	5
<b>Division 33 - Coke, petroleum, chemical products, rubber and plastic</b>	<b>3 772</b>	<b>24 991</b>	<b>432</b>	<b>936</b>	<b>16 608</b>	<b>46 739</b>
Manufacture of coke oven products	6	90	2	33	39	170
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	1 258	2 854	87	193	13 095	17 487
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	241	8 053	54	66	236	8 650
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	975	1 982	16	170	1 054	4 197
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	37	273	12	57	29	408

<sup>2</sup>Preliminary figures.

**Table 15 – Details of capital expenditure on new assets in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Land, buildings and construction	Plant, machinery and equipment	Computers and network equipment	Motor vehicles	Capital expenditure on other assets	Total capital expenditure on new assets
	R million					
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	63	492	70	20	949	<b>1 594</b>
Manufacture of soap and detergents, perfumes and toilet preparations	331	1 488	23	64	159	<b>2 065</b>
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	279	636	62	60	50	<b>1 087</b>
Manufacture of rubber tyres and tubes and retreading of tyres	343	732	13	11	425	<b>1 524</b>
Manufacture of man-made fibres and other rubber products	11	136	4	15	26	<b>192</b>
Manufacture of plastic products	228	8 255	89	247	546	<b>9 365</b>
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>385</b>	<b>1 692</b>	<b>74</b>	<b>379</b>	<b>539</b>	<b>3 069</b>
Manufacture of refractory ceramic products	8	21	1	1	0	<b>31</b>
Manufacture of structural non-refractory clay and ceramic products	203	289	8	44	16	<b>560</b>
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	90	505	12	290	245	<b>1 142</b>
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	84	877	53	44	278	<b>1 336</b>
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>891</b>	<b>4 440</b>	<b>327</b>	<b>1 002</b>	<b>1 139</b>	<b>7 799</b>
Manufacture of basic iron and steel	167	790	33	55	279	<b>1 324</b>
Manufacture of basic precious and non-ferrous metals	60	255	10	49	413	<b>787</b>
Manufacture of structural metal products	9	251	19	147	33	<b>459</b>
Treatment and coating of metals; general mechanical engineering	53	574	13	139	26	<b>805</b>
Manufacture of cutlery, hand tools and general hardware	2	43	4	19	0	<b>68</b>
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	52	648	36	161	43	<b>940</b>

<sup>2</sup>Preliminary figures.

**Table 15 – Details of capital expenditure on new assets in the manufacturing industry, 2017<sup>2</sup> (continued)**

Type of manufacturer	Land, buildings and construction	Plant, machinery and equipment	Computers and network equipment	Motor vehicles	Capital expenditure on other assets	Total capital expenditure on new assets
	R million					
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	80	69	10	19	9	187
Manufacture of pumps, compressors, taps and valves	33	164	22	64	16	299
Manufacture of ovens, furnaces and furnace burners	15	8	0	4	0	27
Manufacture of lifting and handling equipment	25	238	23	67	7	360
Manufacture of steam generators, household appliances and other general purpose machinery	111	394	53	106	10	674
Manufacture of agricultural and forestry machinery	33	144	5	52	3	237
Manufacture of machine tools	72	118	2	11	0	203
Manufacture of machinery for mining, quarrying, construction and metallurgy	120	358	46	65	147	736
Manufacture of machinery for food, beverage and tobacco processing	44	22	2	9	27	104
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	15	364	49	35	126	589
<b>Division 36 - Electrical machinery and apparatus</b>	<b>171</b>	<b>817</b>	<b>97</b>	<b>132</b>	<b>137</b>	<b>1 354</b>
Manufacture of electric motors, generators and transformers	17	46	40	48	11	162
Manufacture of electricity distribution and control apparatus	2	338	21	33	20	414
Manufacture of insulated wire and cable	9	62	9	6	21	107
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	39	202	7	16	16	280
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	104	169	20	29	69	391
<b>Division 37 - Telecommunication, medical and optical equipment and watches and clocks</b>	<b>51</b>	<b>273</b>	<b>580</b>	<b>81</b>	<b>88</b>	<b>1 073</b>
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	31	137	562	9	17	756

<sup>2</sup>Preliminary figures.

**Table 15 – Details of capital expenditure on new assets in the manufacturing industry, 2017<sup>2</sup> (concluded)**

Type of manufacturer	Land, buildings and construction	Plant, machinery and equipment	Computers and network equipment	Motor vehicles	Capital expenditure on other assets	Total capital expenditure on new assets
	R million					
Manufacture of medical and surgical equipment and orthopaedic appliances	9	21	2	16	2	50
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	10	96	14	56	69	245
Manufacture of watches and clocks, optical instruments and photographic equipment	1	19	2	0	0	22
<b>Division 38 - Transport equipment</b>	<b>2 037</b>	<b>4 918</b>	<b>154</b>	<b>360</b>	<b>5 816</b>	<b>13 285</b>
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	32	117	7	25	2	183
Manufacture of parts for motor vehicles and their engines	399	1 170	31	25	720	2 345
Building and repairing of ships	24	23	3	6	17	73
Building and repairing of pleasure and sporting boats	0	15	0	2	2	19
Manufacture of aircraft	5	79	17	19	62	182
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	1 577	3 514	96	283	5 013	10 483
<b>Division 39 - Furniture, other manufacturing and recycling</b>	<b>91</b>	<b>940</b>	<b>70</b>	<b>153</b>	<b>747</b>	<b>2 001</b>
Manufacture of furniture	28	89	20	23	66	226
Manufacture of jewellery and related articles	29	146	7	2	1	185
Manufacture of musical instruments, sports goods, games and toys	0	9	1	9	2	21
Manufacture of tobacco products and other manufacturing n.e.c.	7	351	24	65	589	1 036
Recycling of waste and scrap n.e.c.	27	345	18	54	89	533
<b>Total</b>	<b>10 477</b>	<b>54 083</b>	<b>2 985</b>	<b>4 383</b>	<b>31 874</b>	<b>103 802</b>

<sup>2</sup>Preliminary figures.



**Table 16 – Employment in the manufacturing industry as at the end of June, 2014 and 2017**

Type of manufacturer	Male			Female			Total employees		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	Number			Number			Number		
Division 30 - Food products and beverages	150 786	144 052	-1,5	79 531	80 310	0,3	230 317	224 362	-0,9
Division 31 - Textiles, clothing, leather and footwear	31 852	34 163	2,4	72 116	50 625	-11,1	103 968	84 788	-6,6
Division 32 - Wood, wood products, paper, publishing and printing	84 360	90 164	2,2	41 461	44 935	2,7	125 821	135 099	2,4
Division 33 - Coke, petroleum, chemical products, rubber and plastic	121 770	122 986	0,3	51 631	57 318	3,5	173 401	180 304	1,3
Division 34 - Glass and other non-metallic mineral products	47 689	55 055	4,9	12 467	14 088	4,2	60 156	69 143	4,8
Division 35 - Metals, metal products, machinery and equipment	206 048	201 472	-0,7	43 065	46 422	2,5	249 113	247 894	-0,2
Division 36 - Electrical machinery and apparatus	31 807	34 909	3,2	12 772	11 990	-2,1	44 579	46 899	1,7
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	8 061	10 349	8,7	4 971	5 753	5,0	13 032	16 102	7,3
Division 38 - Transport equipment	83 593	84 020	0,2	25 744	25 598	-0,2	109 337	109 618	0,1
Division 39 - Furniture, other manufacturing and recycling	44 257	47 682	2,5	18 587	18 383	-0,4	62 844	66 065	1,7
Total	810 221	824 852	0,6	362 347	355 422	-0,6	1 172 568	1 180 274	0,2

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.

**Table 17 – Employment in the manufacturing industry as at the end of June 2017<sup>2</sup>**

Type of manufacturer	Permanent employees			Temporary employees			Casual employees			Total employees
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
	Number									
Division 30 - Food products and beverages	132 251	69 917	202 168	9 067	8 797	17 864	2 734	1 596	4 330	224 362
Production, processing and preserving of meat and meat products	18 859	9 906	28 765	577	256	833	301	166	467	30 065
Processing and preserving of fruit and vegetables	8 666	7 183	15 849	1 638	2 224	3 862	201	137	338	20 049
Manufacture of vegetable and animal oils and fats	2 703	950	3 653	302	117	419	62	17	79	4 151
Manufacture of dairy products	14 922	6 113	21 035	910	404	1 314	26	35	61	22 410
Manufacture of grain mill products, starches and starch products	14 260	5 656	19 916	330	88	418	896	650	1 546	21 880
Manufacture of prepared animal feeds	7 463	2 332	9 795	549	103	652	70	6	76	10 523
Manufacture of bakery products	13 702	7 520	21 222	306	380	686	589	246	835	22 743
Manufacture of sugar, cocoa, chocolate and sugar confectionery	10 545	5 675	16 220	511	288	799	190	10	200	17 219
Manufacture of macaroni, noodles, couscous and similar farinaceous and other food products n.e.c.	18 766	14 288	33 054	2 355	4 303	6 658	197	213	410	40 122
Manufacture of alcoholic and non-alcoholic beverages	22 365	10 294	32 659	1 589	634	2 223	202	116	318	35 200
Division 31 - Textiles, clothing, leather and footwear	32 150	48 110	80 260	1 467	2 201	3 668	546	314	860	84 788
Preparation and spinning of textile fibres and weaving and finishing of textiles	4 163	3 966	8 129	177	239	416	39	9	48	8 593
Manufacture of made-up textile articles, except apparel	4 123	3 626	7 749	114	73	187	189	63	252	8 188
Manufacture of carpets, rugs and mats	1 392	643	2 035	30	28	58	38	4	42	2 135
Manufacture of cordage, rope, twine and netting	1 025	666	1 691	160	32	192	169	27	196	2 079
Manufacture of other textiles	3 642	1 768	5 410	7	20	27	4	6	10	5 447
Manufacture of knitted and crocheted fabrics and articles	2 346	5 030	7 376	234	473	707	1	11	12	8 095
Manufacture of wearing apparel, except fur apparel	7 719	26 720	34 439	271	1 064	1 335	80	102	182	35 956
Dressing and dyeing of fur, manufacture of articles of fur, tanning and dressing of leather	2 283	1 306	3 589	120	47	167	0	0	0	3 756
Manufacture of luggage, handbags and the like, saddlery and harness	1 382	849	2 231	0	0	0	0	0	0	2 231
Manufacture of footwear	4 075	3 536	7 611	354	225	579	26	92	118	8 308

<sup>2</sup>Preliminary figures.

**Table 17 – Employment in the manufacturing industry as at the end of June 2017<sup>2</sup> (continued)**

Type of manufacturer	Permanent employees			Temporary employees			Casual employees			Total employees
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
	Number									
Division 32 - Wood, wood products, paper, publishing and printing	84 878	41 527	126 405	3 902	2 302	6 204	1 384	1 106	2 490	135 099
Sawmilling and planing of wood	9 305	3 966	13 271	337	111	448	47	18	65	13 784
Manufacture of builders' carpentry and joinery	10 797	3 304	14 101	174	26	200	82	3	85	14 386
Manufacture of wooden containers	2 935	701	3 636	342	29	371	76	6	82	4 089
Manufacture of veneer sheets, plywood, other boards and other products of wood, articles of cork, straw and plaiting materials	4 914	2 003	6 917	221	92	313	63	6	69	7 299
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	17 188	5 289	22 477	442	203	645	199	39	238	23 360
Manufacture of pulp, paper and paperboard and other articles of paper and paperboard	12 114	6 528	18 642	500	584	1 084	162	181	343	20 069
Publishing of books, brochures, musical books, newspapers, journals, periodicals and other publications	10 260	9 670	19 930	1 698	1 089	2 787	438	299	737	23 454
Publishing of recorded media and other publishing	168	134	302	0	0	0	5	7	12	314
Printing	16 679	9 534	26 213	180	124	304	312	546	858	27 375
Service activities related to printing and reproduction of recorded media	518	398	916	8	44	52	0	1	1	969
Division 33 - Coke, petroleum, chemical products, rubber and plastic	116 820	52 618	169 438	4 809	3 477	8 286	1 357	1 223	2 580	180 304
Manufacture of coke oven products	1 729	470	2 199	33	30	63	27	1	28	2 290
Manufacture of petrol, fuel oils and other petroleum products n.e.c.	11 832	4 217	16 049	268	169	437	47	62	109	16 595
Processing of nuclear fuels and manufacture of basic chemicals, except fertilisers and nitrogen compounds	15 974	4 795	20 769	417	300	717	95	15	110	21 596
Manufacture of fertilisers and nitrogen compounds; and plastics in primary forms and synthetic rubber	5 663	1 634	7 297	209	118	327	10	4	14	7 638
Manufacture of paints, varnishes and similar coatings, printing ink and mastics	7 296	2 335	9 631	187	59	246	40	15	55	9 932
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	10 020	9 470	19 490	574	503	1 077	94	84	178	20 745
Manufacture of soap and detergents, perfumes and toilet preparations	10 110	5 431	15 541	382	835	1 217	364	676	1 040	17 798
Manufacture of pesticides and other agro-chemical products and other chemical products n.e.c.	8 188	2 962	11 150	553	226	779	26	17	43	11 972

<sup>2</sup>Preliminary figures.

**Table 17 – Employment in the manufacturing industry as at the end of June 2017<sup>2</sup> (continued)**

Type of manufacturer	Permanent employees			Temporary employees			Casual employees			Total employees
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
	Number									
Manufacture of rubber tyres and tubes and retreading of tyres	5 610	1 285	6 895	114	24	138	179	14	193	7 226
Manufacture of man-made fibres and other rubber products	3 458	1 302	4 760	181	26	207	62	13	75	5 042
Manufacture of plastic products	36 940	18 717	55 657	1 891	1 187	3 078	413	322	735	59 470
<b>Division 34 - Glass and other non-metallic mineral products</b>	<b>51 313</b>	<b>13 373</b>	<b>64 686</b>	<b>2 391</b>	<b>583</b>	<b>2 974</b>	<b>1 351</b>	<b>132</b>	<b>1 483</b>	<b>69 143</b>
Manufacture of refractory ceramic products	1 990	546	2 536	200	41	241	141	2	143	2 920
Manufacture of structural non-refractory clay and ceramic products	8 252	2 593	10 845	510	228	738	77	34	111	11 694
Manufacture of cement, lime and plaster and articles of concrete, cement and plaster	25 327	5 108	30 435	1 369	157	1 526	915	35	950	32 911
Manufacture of glass and glass products, non-structural non-refractory ceramicware, cutting and shaping of stone and other non-metallic mineral products n.e.c.	15 744	5 126	20 870	312	157	469	218	61	279	21 618
<b>Division 35 - Metals, metal products, machinery and equipment</b>	<b>190 143</b>	<b>44 208</b>	<b>234 351</b>	<b>9 128</b>	<b>1 957</b>	<b>11 085</b>	<b>2 201</b>	<b>257</b>	<b>2 458</b>	<b>247 894</b>
Manufacture of basic iron and steel	22 770	3 182	25 952	615	232	847	71	11	82	26 881
Manufacture of basic precious and non-ferrous metals	7 478	3 335	10 813	465	150	615	58	10	68	11 496
Manufacture of structural metal products	30 495	4 578	35 073	2 841	178	3 019	1 182	77	1 259	39 351
Treatment and coating of metals; general mechanical engineering	25 885	4 195	30 080	437	21	458	267	39	306	30 844
Manufacture of cutlery, hand tools and general hardware	5 045	1 498	6 543	52	47	99	3	2	5	6 647
Casting of iron, steel and non-ferrous metals; manufacture of tanks, reservoirs and similar containers of metal; forging, pressing, stamping and roll-forming of metal; powder metallurgy and manufacture of other fabricated metal products	29 917	8 083	38 000	1 971	454	2 425	383	39	422	40 847
Manufacture of engines and turbines, except aircraft, vehicle and motor cycle engines	1 645	595	2 240	13	4	17	8	27	35	2 292

<sup>2</sup>Preliminary figures.

**Table 17 – Employment in the manufacturing industry as at the end of June 2017<sup>2</sup> (continued)**

Type of manufacturer	Permanent employees			Temporary employees			Casual employees			Total employees
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
	Number									
Manufacture of pumps, compressors, taps and valves	8 631	2 264	10 895	128	26	154	2	0	2	11 051
Manufacture of ovens, furnaces and furnace burners	359	105	464	0	0	0	1	0	1	465
Manufacture of lifting and handling equipment	5 207	1 207	6 414	95	20	115	3	1	4	6 533
Manufacture of steam generators, household appliances and other general purpose machinery	17 397	4 852	22 249	653	228	881	113	28	141	23 271
Manufacture of agricultural and forestry machinery	3 587	898	4 485	188	24	212	0	1	1	4 698
Manufacture of machine tools	2 515	752	3 267	41	12	53	12	2	14	3 334
Manufacture of machinery for mining, quarrying, construction and metallurgy	13 858	3 332	17 190	134	63	197	64	9	73	17 460
Manufacture of machinery for food, beverage and tobacco processing	1 948	590	2 538	16	3	19	18	2	20	2 577
Manufacture of machinery for textile and leather production, weapons and ammunition and other special purpose machinery	13 406	4 742	18 148	1 479	495	1 974	16	9	25	20 147
Division 36 - Electrical machinery and apparatus	29 282	11 356	40 638	5 400	534	5 934	227	100	327	46 899
Manufacture of electric motors, generators and transformers	8 766	2 285	11 051	3 648	249	3 897	94	18	112	15 060
Manufacture of electricity distribution and control apparatus	3 934	1 458	5 392	371	228	599	56	5	61	6 052
Manufacture of insulated wire and cable	3 123	953	4 076	1 143	2	1 145	14	1	15	5 236
Manufacture of accumulators, primary cells, batteries, electric lamps and lighting equipment	6 044	2 164	8 208	88	18	106	2	2	4	8 318
Manufacture of bearings, gears, gearing, driving elements and other electrical equipment	7 415	4 496	11 911	150	37	187	61	74	135	12 233

<sup>2</sup>Preliminary figures.

**Table 17 – Employment in the manufacturing industry as at the end of June 2017<sup>2</sup> (concluded)**

Type of manufacturer	Permanent employees			Temporary employees			Casual employees			Total employees
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
	Number									
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	9 694	5 446	15 140	312	200	512	343	107	450	16 102
Manufacture of electronic valves and tubes, television and radio transmitters and receivers, sound or video recording, line telephony apparatus and other electronic components	5 192	2 701	7 893	235	95	330	71	54	125	8 348
Manufacture of medical and surgical equipment and orthopaedic appliances	1 170	938	2 108	20	48	68	17	40	57	2 233
Manufacture of instruments and appliances for measuring, testing, navigating and industrial process control equipment	2 675	1 506	4 181	57	57	114	255	13	268	4 563
Manufacture of watches and clocks, optical instruments and photographic equipment	657	301	958	0	0	0	0	0	0	958
Division 38 - Transport equipment	79 708	24 026	103 734	3 953	1 412	5 365	359	160	519	109 618
Manufacture of bodies (coachwork) for motor vehicles, trailers and semi-trailers	10 376	1 616	11 992	461	6	467	96	13	109	12 568
Manufacture of parts for motor vehicles and their engines	23 951	8 797	32 748	842	421	1 263	240	36	276	34 287
Building and repairing of ships	2 611	638	3 249	101	21	122	0	93	93	3 464
Building and repairing of pleasure and sporting boats	1 224	606	1 830	18	0	18	0	0	0	1 848
Manufacture of aircraft	5 019	1 240	6 259	82	23	105	22	8	30	6 394
Manufacture of motor vehicles; railway and tramway locomotives and rolling stock; motor cycles; bicycles; invalid carriages and other transport equipment	36 527	11 129	47 656	2 449	941	3 390	1	10	11	51 057
Division 39 - Furniture, other manufacturing and recycling	45 678	17 700	63 378	1 577	552	2 129	427	131	558	66 065
Manufacture of furniture	15 930	5 897	21 827	635	136	771	206	86	292	22 890
Manufacture of jewellery and related articles	2 425	1 329	3 754	9	0	9	0	0	0	3 763
Manufacture of musical instruments, sports goods, games and toys	576	265	841	0	0	0	5	7	12	853
Manufacture of tobacco products and other manufacturing n.e.c.	17 855	6 941	24 796	742	404	1 146	140	8	148	26 090
Recycling of waste and scrap n.e.c.	8 892	3 268	12 160	191	12	203	76	30	106	12 469
Total	771 917	328 281	1 100 198	42 006	22 015	64 021	10 929	5 126	16 055	1 180 274

<sup>2</sup>Preliminary figures.

**Table 18 – Employment by enterprise size in the manufacturing industry as at the end of June 2017<sup>2</sup>**

Type of manufacturer	Large enterprises	Medium enterprises	Small enterprises	Micro enterprises	Total employees
	Number				
Division 30 - Food products and beverages	157 815	33 999	12 369	20 179	<b>224 362</b>
Division 31 - Textiles, clothing, leather and footwear	20 257	30 495	16 318	17 718	<b>84 788</b>
Division 32 - Wood, wood products, paper, publishing and printing	61 970	25 199	16 938	30 992	<b>135 099</b>
Division 33 - Coke, petroleum, chemical products, rubber and plastic	101 733	32 358	18 773	27 440	<b>180 304</b>
Division 34 - Glass and other non-metallic mineral products	27 565	17 015	9 610	14 953	<b>69 143</b>
Division 35 - Metals, metal products, machinery and equipment	80 938	49 197	37 031	80 728	<b>247 894</b>
Division 36 - Electrical machinery and apparatus	25 579	8 637	5 669	7 014	<b>46 899</b>
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	6 273	3 842	2 247	3 740	<b>16 102</b>
Division 38 - Transport equipment	77 750	11 913	8 184	11 771	<b>109 618</b>
Division 39 - Furniture, other manufacturing and recycling	15 941	13 685	11 393	25 046	<b>66 065</b>
<b>Total</b>	<b>575 821</b>	<b>226 340</b>	<b>138 532</b>	<b>239 581</b>	<b>1 180 274</b>

<sup>2</sup>Preliminary figures.

**Table 19 – Imports and exports in the manufacturing industry, 2014 and 2017**

Type of manufacturer	Value of goods imported			Value of goods exported		
	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change	2014 <sup>1</sup>	2017 <sup>2</sup>	Annualised % change
	R million			R million		
Division 30 - Food products and beverages	10 499	14 049	10,2	16 085	26 708	18,4
Division 31 - Textiles, clothing, leather and footwear	5 520	7 558	11,0	3 016	3 178	1,8
Division 32 - Wood, wood products, paper, publishing and printing	3 648	2 613	-10,5	11 892	17 335	13,4
Division 33 - Coke, petroleum, chemical products, rubber and plastic	73 328	80 199	3,0	43 980	60 185	11,0
Division 34 - Glass and other non-metallic mineral products	964	1 200	7,6	741	2 711	54,1
Division 35 - Metals, metal products, machinery and equipment	24 268	29 680	6,9	42 051	52 305	7,5
Division 36 - Electrical machinery and apparatus	10 210	7 855	-8,4	3 548	6 110	19,9
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	2 120	3 057	13,0	1 359	2 831	27,7
Division 38 - Transport equipment	119 076	87 389	-9,8	93 661	154 971	18,3
Division 39 - Furniture, other manufacturing and recycling	2 524	4 719	23,2	9 040	11 972	9,8
Total	252 158	238 319	-1,9	225 373	338 306	14,5

<sup>1</sup>Revised figures.<sup>2</sup>Preliminary figures.



**Table 20 – Information and communication technology usage in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Enterprises which use computers for business purposes	Enterprises which access financial services via the internet	Enterprises which have a web-page	Enterprises which receive orders via the internet	Enterprises which place orders via the internet	Enterprises whose information technology (IT) activities are outsourced
	%					
Division 30 - Food products and beverages	98,7	72,4	62,1	29,7	23,1	40,5
Division 31 - Textiles, clothing, leather and footwear	99,2	68,1	50,5	16,5	14,3	55,0
Division 32 - Wood, wood products, paper, publishing and printing	99,8	76,8	87,3	30,0	25,1	50,7
Division 33 - Coke, petroleum, chemical products, rubber and plastic	99,9	75,0	72,9	31,9	27,0	50,2
Division 34 - Glass and other non-metallic mineral products	100,0	83,7	72,5	44,2	36,1	57,9
Division 35 - Metals, metal products, machinery and equipment	98,6	88,7	64,2	33,7	30,6	59,3
Division 36 - Electrical machinery and apparatus	100,0	88,6	77,2	18,8	17,2	66,6
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	100,0	75,0	74,3	34,7	30,9	52,3
Division 38 - Transport equipment	100,0	78,9	81,9	22,9	30,8	55,3
Division 39 - Furniture, other manufacturing and recycling	100,0	90,4	75,8	26,5	19,5	58,2
<b>Total</b>	<b>99,3</b>	<b>81,8</b>	<b>70,4</b>	<b>30,6</b>	<b>26,8</b>	<b>54,7</b>

<sup>2</sup>Preliminary figures.

**Table 21 – Information and communication technology usage by enterprise size in the manufacturing industry, 2017<sup>2</sup>**

Enterprise size	Enterprises which use computers for business purposes	Enterprises which access financial services via the internet	Enterprises which have a web-page	Enterprises which receive orders via the internet	Enterprises which place orders via the internet	Enterprises whose information technology (IT) activities are outsourced
	%					
Large enterprises	99,6	75,3	86,5	27,3	25,1	56,3
Medium enterprises	98,8	75,5	83,4	29,6	25,5	59,6
Small enterprises	98,9	78,7	78,7	29,3	28,2	61,1
Micro enterprises	99,4	83,3	66,8	31,2	26,8	53,2
<b>Total</b>	<b>99,3</b>	<b>81,8</b>	<b>70,4</b>	<b>30,6</b>	<b>26,8</b>	<b>54,7</b>

<sup>2</sup>Preliminary figures.

## Explanatory notes

### Background

The results presented in this publication have been derived from the 2017 large sample survey of manufacturing. This is a periodic survey which measures economic activity in the manufacturing sector of the South African economy. The survey is based on a sample of private enterprises operating in the manufacturing industry.

This publication summarises the financial data of the manufacturing industry. Details of products are published in a separate report.

The sample was drawn from Stats SA's business register. The business register is mainly based on the value added tax (VAT) database of the South African Revenue Service (SARS). Stats SA continuously updates its business register, based on units registered in the taxation system at SARS.

The last large sample survey of the manufacturing industry was conducted for the year 2014 (Report No. 30-02-03 (2014)).

### Value added tax (VAT)

All figures exclude value added tax (VAT).

### Reference period

The information was collected from enterprises for their financial year which ended on any date between 1 July 2016 and 30 June 2017.

### Statistical unit

The statistical unit for the collection of the information is an enterprise. An enterprise is a legal unit (or a combination of legal units) that includes and directly controls all functions necessary to carry out its production activities.

### Size groups

The enterprises are divided into four size groups according to the value of turnover recorded for them on the Stats SA business register. Table 22 presents the cut-off points for size groups.

**Table 22 – Size groups for the manufacturing industry, 2017**

Size group	Turnover
Large enterprises	Turnover > R306 000 000
Medium enterprises	R78 000 000 < turnover ≤ R306 000 000
Small enterprises	R30 000 000 < turnover ≤ R78 000 000
Micro enterprises	Turnover ≤ R30 000 000

### Survey methodology and design

The survey was conducted by email, telephone and personal visits.

A sample of approximately 16 100 enterprises was drawn using cluster stratified simple random sampling. Enterprises were clustered using district municipality, then stratified at four-digit level according to the SIC and by size of enterprise. All large, medium and small enterprises are completely enumerated. Also micro enterprises with more than one geographic location were fully selected. Business register turnover was used as the measure of size for stratification.

**Weighting methodology**

For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form division estimates.

**Collection rate**

Collection rate = ((collected enterprises + finalised investigations) / sample size)\*100. The collection rate was 74,0%.

**Turnover collection rate**

Turnover collection rate = ((weighted collected enterprises BR turnover + weighted finalised investigations BR turnover) / population turnover)\*100. The turnover collection rate was 94,4%.

**Revisions to 2014 results**

Revisions were made to previous results due to new information obtained after publication.

**Relative standard error**

Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the construction industry in South Africa. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of enterprises was used. The relative standard error (RSE) provides an immediate indication of the percentage error likely to have accrued due to sampling.

**Table 23 – Confidence intervals (95%) for income in the manufacturing industry, 2017<sup>2</sup>**

Type of manufacturer	Lower limit	Total income	Upper limit	Relative standard error
	R million			%
Division 30 - Food products and beverages	537 937	539 556	541 175	0,3
Division 31 - Textiles, clothing, leather and footwear	58 638	58 873	59 108	0,4
Division 32 - Wood, wood products, paper, publishing and printing	175 156	176 036	176 916	0,5
Division 33 - Coke, petroleum, chemical products, rubber and plastic	667 430	668 768	670 106	0,2
Division 34 - Glass and other non-metallic mineral products	81 964	82 211	82 458	0,3
Division 35 - Metals, metal products, machinery and equipment	420 786	422 901	425 016	0,5
Division 36 - Electrical machinery and apparatus	58 168	58 637	59 106	0,8
Division 37 - Telecommunication, medical and optical equipment and watches and clocks	30 223	30 375	30 527	0,5
Division 38 - Transport equipment	466 473	466 473	466 473	0,0
Division 39 - Furniture, other manufacturing and recycling	93 737	95 552	97 367	1,9
<b>Total</b>	<b>2 596 783</b>	<b>2 599 382</b>	<b>2 601 981</b>	<b>0,1</b>

<sup>2</sup>Preliminary figures.

**Non-sampling errors** Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Non-sampling errors occur in both sample surveys and censuses.

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

**Symbols and abbreviations**

DTI	Department of Trade and Industry
GDP	Gross domestic product
ISIC	International Standard Industrial Classification of all Economic Activities
IT	Income tax
n.e.c.	not elsewhere classified
RSE	Relative standard error
SARS	South African Revenue Service
SE	Standard error
SIC	Standard Industrial Classification of all Economic Activities
SNA	System of National Accounts
Stats SA	Statistics South Africa
VAT	Value added tax
0	Nil or less than half the final digit shown

## Glossary

### Capital expenditure on new assets

Capital expenditure on new assets includes:

- the erection of new buildings and works, and additions to and alterations of existing buildings and works;
- work in progress capitalised;
- new plant, machinery, equipment and vehicles;
- new computers, network equipment and other information technology equipment;
- intangible assets;
- used plant and machinery which was imported by or on behalf of the enterprise, whether paid to outside contractors/concerns or which was done by the enterprise itself; and
- other new assets not specified.

and excludes:

- acquisition of land;
- existing buildings and works;
- used plant and machinery and vehicles;
- transfers-in of property, plant, equipment and intangible assets; and
- other existing assets.

### Concentration ratio

The concentration ratio is the ratio of the income of the n largest enterprises to the total income.

### Employees

People employed by the business or organisation who received payment (salaries, wages, commission, piece rates or payments in kind) for the last pay period ended on or before 30 June 2017.

### Enterprise

A legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

### Exports

Outward flow of goods and services leaving the economic territory of a country to the outside world.

### Imports

Inward flow of goods and services entering the economic territory of a country from the outside world.

### Industry

An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the *Standard Industrial Classification of all Economic Activities*, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).

### Net profit or loss before tax

Net profit or loss before tax is derived as:

Total income  
**plus** closing inventories  
**minus** total expenditure  
**minus** opening inventories

**Other expenditure**

Other expenditure includes:

- professional services, e.g. audit and other professional business services, legal expenses and data processing services;
- donations and sponsorship;
- amortisation; and
- subscriptions.

**Profit margin**

Profit margin is derived as:

Net profit or loss after tax

***divided by*** turnover

***multiplied by*** 100

**Salaries and wages**

Salaries and wages include:

- salaries and/or fees paid to directors, executives and managers;
- commissions paid;
- employer's contribution to pension, provident, medical aid, sick pay and other funds;
- payments made from South Africa to employees based abroad;
- payments for all types of leave;
- incentive payments for piecework or profit-sharing schemes;
- fringe benefits paid in cash;
- allowances and penalty payments;
- value of any salary sacrificed; and
- bonuses.

**Statistical unit**

A unit about which statistics are tabulated, compiled or published. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

**Stratum**

A stratum is constructed by concatenating the SIC classification and size group variables.

**Turnover**

Turnover includes:

- the value of sales;
- amounts received for work done;
- amounts received for services rendered;
- rent and/or lease payments received for land and buildings; and
- rent, leasing and hiring received for machinery, vehicles and other equipment.

Turnover excludes:

- value added tax (VAT);
- net profit or loss on sales or revaluation of fixed assets (including profit or loss on foreign exchange);
- export freight charges;
- interest received; and
- excise duty.