Industry 100

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10

Industry

- Industrial sector turnover increased by 123% between 1995 and 2001.
- Gross output for industrial local units increased by 119% between 1995 and 2001.
- In 2001 there were almost 4,900 industrial enterprises employing nearly 264,000 people, with a total turnover of €106bn.
- The volume of Industrial Production doubled between 1997 and 2003 with "Modern" sectors showing an increase of 160% while growth of about 13% was recorded in all other sectors.

Introduction

This chapter contains information on the industrial sector. The information is drawn from the annual Census of Industrial Production (CIP) and the various short-term industrial releases of the CSO.

Industrial statistics are compiled by the CSO using inquiries to industrial firms. The most detailed inquiry is the CIP which is an annual census of such firms designed to provide information on the structure of industry. To allow for short–term analysis of industry between censuses there are a number of less detailed monthly or quarterly inquiries which track the intra-year trend in some of the major CIP aggregates such as turnover, stock changes and capital acquisitions. In addition a short-term inquiry measures the change in volume terms (ie eliminating price changes) of industrial output. The data on wages and salaries and on employment in industry are tracked on a short-term basis by a CSO inquiry – see Chapter 16.

The information is broken down by sector using the standard EU-wide NACE Rev.1.1 classification for 2001 CIP data and NACE Rev.1 classification for preceding years.

Tables 10.1 to 10.4 show aggregates from the CIP over the most recent years. The CIP covers firms with 3 or more persons engaged and consists of two separate but closely related inquiries, one covering enterprises and the other covering local units. The former relates to the trading dimension of firms and Table 10.1 shows the main trading aggregates for industrial enterprises over the most recent seven years. The latter focuses on the industrial process and Table 10.2 shows the main aggregates relating to the industrial process for industrial local units.

Tables 10.3 and 10.4 provide a sectoral breakdown of some of those aggregates for the most recent year.

Table 10.5 shows information by sector on the trend in the volume of production in industry over the most recent full seven years. This is based on a monthly inquiry to firms covered in the CIP. It is confined to firms with 20 or more persons engaged but reflects very closely production trends in the entire sector. The effect of price changes is eliminated from the data to reflect the underlying volume changes.

Table 10.6 shows annual volume indices of production divided between the "Modern" and "All Other" sectors over the most recent full seven years.

Tables 10.7 and 10.8 show the changes in stocks and capital acquisitions in recent years, again by sector. This information comes from a quarterly inquiry to industrial firms with 20 or more persons engaged.

The results

From table 10.1 for the 7 year period 1995 to 2001 there has been a marked increase in turnover of about 123%. This increase is reflected in increased exports. Table 10.3 shows that, in terms of turnover value, the electrical

(including computers) and optical equipment, chemicals and food and beverages sectors predominate. In 2001 they accounted for about 31%, 25% and 18% of total turnover respectively. These sectors between them accounted for almost 53% of total industrial employment.

Table 10.5 shows that in volume terms (ie eliminating price changes) the volume of industrial production almost doubled between 1997 and 2003. For particular sectors the volume increase was much greater, volume increased by about 97% in the electrical and optical equipment sector and volume in the chemicals sector increased by 218%. There was a fall of about 63% in the leather industry. Looking at the categorisation of production by main use, the production of intermediate products showed a two and a half fold increase and capital goods was up by 88%, reflecting the increases in the chemical and the electrical and optical equipment sectors respectively. The increase in the volume of consumer goods was rather less at about 38%, caused in part by the 31% rise in food and beverages.

Table 10.6 compares the situation in "Modern" and "Traditional" sectors. The "Modern" sector comprises a number of high-technology and chemical sectors. There has been a greater than two and a half fold (260%) increase in production in the "Modern" sector between 1997 and 2003. This contrasts with growth of about 13% in all other sectors.

Enterprise

An enterprise is the smallest combination of legal units that is an organisational unit producing goods and services, which benefits from a certain degree of autonomy in decision-making, especially for the allocation of its current resources. In practice it is equivalent to a company or firm.

Local unit

A local unit is defined as an enterprise or part thereof situated in a geographically identified place. The different geographical locations in which an enterprise conducts industrial activities are treated as separate local units.

Turnover

Turnover comprises the net selling value of goods manufactured by an enterprise, of industrial services provided for others, of goods resold without further processing and other minor miscellaneous items.

Gross value added

This is defined as production value less intermediate consumption.

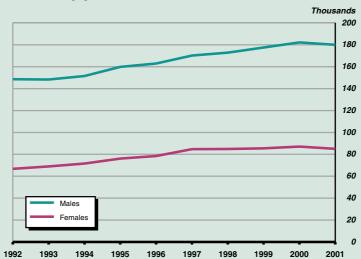
Gross output

Gross output represents the net selling value of all goods manufactured in the year, whether sold or not, including work done and capital assets manufactured for own use.

Table 10.1 Main aggregates for enterprises in all industries

	Unit	1995	1996	1997	1998	1999	2000	2001
Number of enterprises	No.	4,351	4,376	4,516	4,491	4,599	4,874	4,870
Persons engaged	No.	236,002	241,393	255,034	257,729	263,056	268,634	264,198
Males	No.	159,876	162,893	170,254	172,787	177,548	181,830	179,527
Females	No.	76,126	78,500	84,780	84,942	85,508	86,804	84,671
Turnover	€m	47,479	50,922	57,829	68,144	82,864	100,775	105,720
of which exports		29,309	32,706	36,845	47,808	60,257	74,680	79,317
Purchases	€m	31,535	33,088	37,368	45,605	54,153	66,243	70,259
Material and fuels	€m	21,239	21,556	23,889	26,678	30,559	37,163	38,579
Services and goods for factoring	€m	10,296	11,532	13,480	18,927	23,594	29,081	31,681
Gross value added	€m	16,979	18,179	21,311	23,517	30,060	36,104	35,815
Labour costs	€m	5,671	6,038	6,507	7,061	7,599	8,282	8,929
Wages and salaries	€m	4,717	5,005	5,460	5,908	6,356	6,921	7,367
Other labour costs	€m	952	1,032	1,046	1,152	1,244	1,361	1,562
Stocks at end of year	€m	4,899	4,754	5,304	5,840	6,843	8,339	8,210
Increase during year	€m	775	-118	541	637	992	1,227	66
Additions to capital assets during year	€m	2,131	2,590	2,909	4,054	4,614	4,183	4,691

Source: CSO

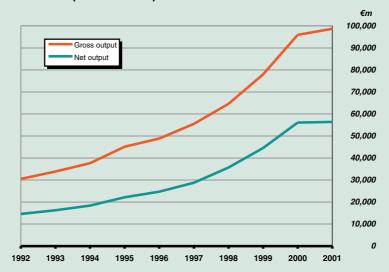


Persons engaged in all industries

Table 10.2 Main aggregates for industrial local units in all industries

	Unit	1995	1996	1997	1998	1999	2000	2001
Number of local units	No.	4,817	4,803	4,956	4,932	5,025	5,296	5,322
Persons engaged	No.	238,893	244,585	257,933	260,357	266,123	272,590	268,654
Males	No.	162,790	166,075	173,217	175,530	180,844	185,602	183,650
Females	No.	76,103	78,510	84,716	84,827	85,279	86,988	85,004
Gross output	€m	45,161	48,830	55,537	64,628	77,803	94,951	98,777
Industrial inputs	€m	23,011	24,089	26,795	28,964	33,387	39,790	42,343
Industrial materials	€m	21,382	22,358	24,842	26,836	31,002	36,895	38,476
Fuel and power	€m	922	962	1,036	1,065	1,113	1,331	1,592
Industrial services	€m	707	773	918	1,063	1,273	1,565	2,274
Net output	€m	22,149	24,737	28,743	35,664	44,417	55,161	56,434
Wages and salaries	€m	4,749	5,061	5,514	5,955	6,431	7,029	7,509
Remainder of net output	€m	17,399	19,676	23,229	29,709	37,986	48,132	48,926
Stocks at end of year	€m	4,891	4,787	5,337	5,850	6,845	8,329	8,201
Increase during year	€m	749	-122	541	642	1,013	1,254	-2
Additions to capital assets during year	€m	2,133	2,616	2,924	4,127	4,763	4,487	5,224

Source: CSO



Gross output and net output

Table 10.3 Main aggregates for enterprises in each industrial se
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Industrial sector	NACE code	Enterprises	Turnover	Gross value added	Labour costs	Persons engaged
		No.	€m	€m	€m	No.
Mining and quarrying	10-14	86	1,214	464	241	5,558
Manufacture of food products, beverages						
and tobacco	15-16	693	20,799	6,902	1,647	50,806
Food products and beverages Tobacco products	15 16	687 6	19,204 1,595	5,559 1,343	1,607 41	49,898 909
Textiles and textile products	17-18	286	915	326	217	9,108
Textiles	17	164	534	205	142	, 5,583
Wearing apparel; dressing and dyeing of fur	18	122	381	121	75	3,525
Leather and leather products	19	27	72	15	15	655
Wood and wood products	20	293	929	246	154	6,043
Pulp, paper and paper products; publishing						
and printing	21-22	622	10,281	3,250	878	23,634
Manufacture of pulp, paper and paper products	21	116	835	325	164	4,857
Publishing, printing and reproduction of recorded media	22	506	9,446	2,925	714	18,777
Chemicals, chemical products and man-made fibres	24	210	26,094	12,370	1,021	24,210
Rubber and plastic products	25	271	1,232	469	260	9,565
Other non-metallic mineral products	26	276	1,682	699	354	10,654
Basic metals and fabricated metal products	27-28	640	1,777	688	446	15,366
Basic metals	27	81	344	115	84	2,253
Fabricated metal products, except machinery and equipment	28	559	1,432	573	363	13,112
Machinery and equipment, not elsewhere classified	29	359	1,832	639	424	14,048
Electrical and optical equipment	30-33	449	33,288	7,293	2,149	65,106
Manufacture of office machinery and computers Manufacture of electrical machinery and apparatus	30	73	18,422	1,593	677	19,202
not elsewhere classified Manufacture of radio, television and communication	31	181	3,296	900	407	13,193
equipment and apparatus Medical, precision and optical instruments, watches and	32	63	6,651	2,622	483	12,766
clocks	33	132	4,918	2,178	582	19,946
Transport equipment	34-35	118	1,057	392	264	8,222
Manufacture of motor vehicles, trailers and semi-trailers	34	72	478	151	94	3,581
Manufacture of other transport equipment	35	46	579	241	170	4,641
Manufacturing nec; recycling; manufacture of coke, refined petroleum products and nuclear fuel	36-37, 23	524	1,738	556	294	11,197
Manufacturing nec; manufacture of coke, refined						
petroleum products and nuclear fuel Recycling	36, 23 37	508 16	1,670 68	535 21	286 8	10,906 291
Electricity, gas, steam and hot water supply	40	16	2,812	1,506	564	10,026
All industries	1-4	4,870	105,721	35,815	8,929	264,198
Transportable goods industries	1-3	4,854	102,908	34,309	8,364	254,172

Table 10.4 Main variables for local units in each industrial sector, 2001

Industrial sector	NACE code	Local units	Gross output	Industrial inputs	Net output	Wages and salaries	Persons engaged
		No.	€m	€m	€m	€m	No.
Mining and quarrying	10-14	174	1,088	500	588	214	5,918
Manufacture of food products, beverages							
and tobacco	15-16	810	16,842	8,745	8,097	1,345	50,373
Food products and beverages Tobacco products	15 16	804 6	16,520 322	8,664 81	7,857 241	1,316 29	49,571 801
Textiles and textile products	17-18	293	764	396	367	183	9,177
Textiles	17	167	483	248	234	117	5,589
Wearing apparel; dressing and dyeing of fur	18	126	281	148	133	66	3,588
Leather and leather products	19	28	63	45	19	13	655
Wood and wood products	20	296	799	489	310	125	6,083
Pulp, paper and paper products; publishing							
and printing	21-22	639	10,014	1,517	8,497	728	24,031
Manufacture of pulp, paper and paper products	21	121	768	371	397	139	5,069
Publishing, printing and reproduction of recorded media	22	518	9,246	1,146	8,100	590	18,962
Chemicals, chemical products and							
man-made fibres	24	242	25,543	5,434	20,109	852	24,589
Rubber and plastic products	25	273	1,141	602	539	221	9,567
Other non-metallic mineral products	26	330	1,426	653	773	294	10,636
Basic metals and fabricated metal products	27-28	641	1,889	1,016	873	374	15,305
Basic metals	27	82	536	324	212	71	2,253
Fabricated metal products, except machinery and equipment	28	559	1,353	692	661	303	13,051
Machinery and equipment, not elsewhere							
classified	29	367	1,739	965	774	350	14,074
Electrical and optical equipment	30-33	470	31,631	19,034	12,597	1,750	64,988
Manufacture of office machinery and computers	30	76	17,628	12,360	5,268	565	19,442
Manufacture of electrical machinery and apparatus not elsewhere classified	31	189	3,159	1,963	1,197	329	13,041
Manufacture of radio, television and communication equipment and apparatus	32	66	6,185	2,586	3,598	388	12,714
Medical, precision and optical instruments, watches and clocks	33	139	4,659	2,125	2,534	468	19,792
Turning	24.25	100	1.007		400		0.000
Transport equipment Manufacture of motor vehicles, trailers and	34-35	130	1,084	604	480	273	9,988
semi-trailers	34	82	503	300	204	110	4,519
Manufacture of other transport equipment	35	48	580	304	276	163	5,469

Industrial sector	NACE code	Local units	Gross output	Industrial inputs	Net output	Wages and salaries	Persons engaged
		No.	€m	€m	€m	€m	No.
Manufacturing nec; recycling; manufacture of coke, refined petroleum products and nuclear fuel	36-37,23	532	1,554	907	647	245	11,165
Manufacturing nec; manufacture of coke, refined petroleum products and nuclear fuel	36,23	514	1,493	872	621	238	10,874
Recycling	37	18	60	34	26	7	291
Electricity, gas and water supply	40-41	97	3,200	1,436	1,764	541	12,106
Electricity, gas, steam and hot water supply	40	43	3,071	1,394	1,677	486	10,026
Collection, purification and distribution of water	41	54	129	42	87	55	2,080
All industries	1-4	5,322	98,777	42,343	56,434	7,509	268,654
Transportable goods industries	1-3	5,225	95,577	40,907	54,670	6,968	256,548
Manufacturing industries	15-37	5,051	94,489	40,407	54,082	6,754	250,630

Table 10.4 Main variables for local units in each industrial sector, 2001 (continued)

Table 10.5 Volume indices of production for industrial sectors

						Bas	e year 19	95=100
Industrial sector	NACE code	1997	1998	1999	2000	2001	2002	2003
Mining and quarrying	10-14	84.0	77.4	92.7	114.0	108.1	94.3	105.5
Food products, beverages								
and tobacco products	15-16	103.6	109.0	114.3	120.5	126.1	130.8	134.8
Food products and beverages	15	103.8	109.7	114.8	120.5	126.0	130.6	135.7
Tobacco products	16	103.8	95.8	104.7	121.3	127.5	136.5	114.7
Textiles and textile products	17-18	100.6	102.6	90.6	73.2	76.5	53.8	47.4
Textiles	17	101.7	103.8	90.2	83.3	96.9	78.6	69.0
Wearing apparel; dressing and dyeing of fur	18	99.3	101.0	91.0	60.9	51.7	23.6	21.1
Leather and leather products	19	96.0	96.7	83.2	79.0	63.7	58.3	35.8
Wood and wood products	20	142.6	154.6	170.8	165.4	150.8	167.4	170.9
Pulp, paper and paper products; publishing,								
printing and reproduction of recorded media	21-22	131.6	165.2	180.4	171.4	169.7	188.1	212.8
Manufacture of pulp, paper and paper products	21	104.3	108.2	104.4	106.5	110.9	113.8	114.3
Publishing, printing and reproduction of								
recorded media	22	136.5	175.2	194.3	183.4	180.6	201.9	231.0
Chemicals, chemical products and man-made fibres	24	163.4	231.1	290.5	331.1	403.4	500.1	519.7
Rubber and plastic products	25	95.0	95.1	96.2	98.8	99.5	92.1	100.3
Other non-metallic mineral products	26	119.0	120.6	123.7	135.7	136.0	121.9	124.8
Basic metals and fabricated metal products	27-28	105.4	110.0	114.6	123.5	110.4	104.0	100.3
Basic metals	27	95.0	90.3	91.5	94.2	85.6	87.0	85.9
Fabricated metal products, except machinery and	20	100.0		120 5	121.2	110.0	100.4	104.0
equipment	28	108.0	115.1	120.5	131.2	116.9	108.4	104.0
Machinery and equipment, not elsewhere classified	29	99.1	107.7	100.9	104.7	95.8	90.9	89.1
Electrical and optical equipment	30-33	131.4	151.2	175.0	238.9	250.1	226.5	258.6
Office machinery and computers	30	122.9	134.7	160.8	219.7	201.9	164.9	201.3
Electrical machinery and apparatus, not elsewhere classified	31	142.3	188.6	200.7	284.8	335.3	353.4	355.4
Radio, television and communication equipment and								
apparatus	32	123.6	154.9	162.1	199.6	153.9	98.1	58.6
Medical, precision and optical instruments, watches and clocks	33	151.7	172.0	202.9	279.4	376.2	374.6	451.1
Transport equipment	34-35	134.0	151.3	160.4	199.6	209.9	187.8	187.6
Manufacturing not elsewhere classified; recycling; refined petroleum products	36,37,23	108.8	105.8	104.2	124.2	115.9	106.0	96.9
Manufacturing industries		129.4	157.0	180.6	209.0	230.4	249.7	265.7
Transportable goods industries		128.1	154.8	178.2	206.4	227.1	245.5	261.3
of which: Industries mainly or wholly producing								
Capital goods		130.1	155.2	172.7	231.3	242.6	218.4	244.3
Intermediate products		141.7	184.4	224.3	253.4	288.7	335.5	359.1
Consumer goods		109.2	116.0	123.2	128.3	137.6	152.7	151.0
Durable consumer goods		n/a	n/a	n/a	138.8	125.7	112.7	115.0
Non-durable consumer goods		n/a	n/a	n/a	127.1	139.0	157.4	155.3
Electricity, gas and water supply	40-41	110.2	113.3	122.9	129.3	137.7	142.4	146.7
All industries		126.9	152.2	174.6	201.5	221.4	238.9	254.0
of which: Energy producing industries	10, 11, 12,	103.3	104.3	114.9	121.4	119.2	122.7	127.9
er mien Energy producing induction								

			,		Base year	1995 = 100	
Year	All indu	Istries	Modern	sector	Traditional sector		
	Index	Annual % change	Index	Annual % change	Index	Annual % change	
1997	126.9	17.5	147.1	29.3	106.7	4.0	
1998	152.2	19.9	191.7	30.3	111.4	4.4	
1999	174.6	14.7	232.6	21.3	114.8	3.1	
2000	201.5	15.4	279.4	20.1	121.1	5.5	
2001	221.4	9.9	317.5	13.6	122.2	0.9	
2002	238.9	7.9	354.9	11.8	119.4	-2.3	
2003	254.0	6.3	383.1	7.9	120.9	1.3	

Table 10.6 Volume indices of production for modern, traditional and all industries

Source: CSO

Volume indices of production

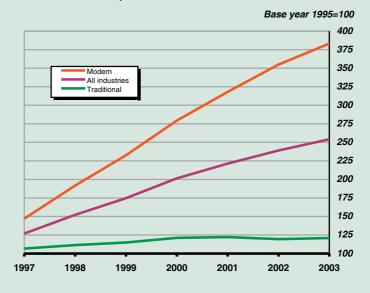
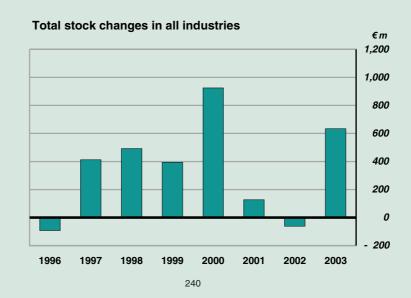


Table 10.7 Total stock changes in industry

								€m
Industrial sector	NACE code	Change in 1997	Change in 1998	Change in 1999	Change in 2000	Change in 2001	Change in 2002	Change in 2003
Mining and supervise	10.14	0.0		22.1	10.0	0.2	14.0	F 1
Mining and quarrying	10-14 15	0.9 54.1	4.4 53.0	22.1 66.0	19.8 85.7	0.3 107.3	-14.8 11.8	-5.1 68.5
Food products and beverages	15	22.6	-2.3	23.9	35.3	-28.2	44.1	14.7
Tobacco products Textiles	10	22.6	-2.3	-0.3	35.3	-28.2	-3.1	-4.7
Wearing apparel	17	-1.3	1.8	-0.3	3.8 0.6	-3.2 14.1	-3.1	-4.7
······································								
Leather products	19	-0.5	1.8	-0.5	0.8	3.8	0.6	1.9
Wood and wood products	20	0.4	7.4	-0.8	19.3	-4.0	-3.6	13.7
Paper and paper products	21	8.6	2.5	3.2	5.5	1.6	2.2	1.7
Publishing and printing	22	2.2	11.8	8.9	-11.7	2.2	43.3	1.4
Chemical products	24	61.1	218.1	451.6	365.1	199.6	210.9	649.1
Rubber and plastic products	25	1.7	4.7	12.7	23.6	2.5	-10.8	4.4
Other non-metallic mineral products	26	15.1	3.6	8.0	29.7	1.7	-11.0	-1.6
Basic metals	27	0.4	-2.4	5.3	7.0	10.6	-8.6	1.8
Fabricated metals excluding machinery	28	14.4	6.5	-5.3	12.7	8.4	45.5	-39.5
Machinery not elsewhere classified	29	-5.0	14.0	0.3	17.0	-15.8	-14.5	-16.5
Office machinery and computers	30	109.3	26.4	218.0	217.1	78.4	-296.7	40.9
Other electrical equipment	31	18.0	20.3	33.4	81.8	-86.2	-15.5	-29.6
Communication equipment	32	41.5	41.7	33.9	220.7	-157.4	23.0	-13.2
Medical and optical instruments	33	59.3	65.7	7.4	40.0	-10.1	-21.1	34.8
Motor vehicles	34	0.8	2.2	4.1	23.0	7.8	-18.2	9.4
Other transport equipment	35	17.5	10.2	14.1	14.9	1.9	-26.8	-20.5
Other manufacturing	36-37, 23	13.7	38.4	-15.5	120.0	-102.1	-8.8	-73.9
Electricity and gas supply	40	86.3	81.8	79.6	-103.7	93.6	14.6	1.3
All industries	10-40	523.3	624.3	964.6	1,227.5	126.8	-61.3	633.1
Transportable goods industries	10-37	436.9	542.7	884.9	1,331.2	33.2	-75.9	631.8
Manufacturing industries	15-37	436.0	538.1	862.9	1,311.4	32.9	-61.1	636.9

Source: CSO



€m

Table 10.8 Total capital acquisitions in industry

								Cili
Industrial sector	NACE code	1997	1998	1999	2000	2001	2002	2003
Mining and quarrying	10-14	35.8	144.2	233.8	165.8	198.8	241.8	173.3
Food products and beverages	15	328.0	411.0	797.3	547.2	541.9	515.3	466.5
Tobacco products	16	6.5	9.5	7.9	16.9	17.7	13.8	10.5
Textiles	17	20.2	24.3	22.4	45.4	32.6	14.3	8.8
Wearing apparel	18	11.6	10.0	12.8	10.0	7.9	6.0	4.8
Leather products	19	1.9	1.5	1.3	3.4	4.9	3.9	1.0
Wood and wood products	20	18.3	40.5	36.4	45.9	60.4	58.6	38.1
Paper and paper products	21	31.0	30.7	38.1	51.3	45.6	32.4	18.1
Publishing and printing	22	132.7	113.6	136.4	200.8	216.9	134.0	99.7
Chemical products	24	570.8	843.5	1,017.1	913.4	788.3	944.9	663.2
Rubber and plastic products	25	58.5	69.3	71.9	88.9	77.7	60.5	49.7
Other non-metallic mineral products	26	108.1	85.1	99.9	171.1	107.2	115.0	143.0
Basic metals	27	38.2	27.8	23.2	26.9	21.1	21.4	21.4
Fabricated metals excluding machinery	28	38.5	46.2	40.8	64.1	72.6	43.0	35.8
Machinery not elsewhere classified	29	70.2	66.0	85.1	97.9	85.9	43.6	42.5
Office machinery and computers	30	343.1	348.7	409.2	355.5	290.8	188.0	151.0
Other electrical equipment	31	103.1	104.0	113.4	173.8	84.2	57.5	39.2
Communication equipment	32	83.0	682.1	561.5	328.7	722.0	694.2	182.1
Medical and optical instruments	33	103.0	155.3	107.3	150.5	186.5	241.4	181.5
Motor vehicles	34	81.0	49.3	18.4	33.5	34.6	22.1	21.2
Other transport equipment	35	12.6	22.0	33.9	17.3	17.6	33.5	9.2
Other manufacturing	36-37, 23	49.3	60.2	57.1	92.8	49.5	64.4	87.3
Electricity and gas supply	40	299.3	413.0	520.6	522.9	815.3	1,268.9	1,087.0
All industries	10-40	2,565.6	3,758.2	4,443.6	4,178.2	4,479.6	4,818.5	3,534.9
Transportable goods industries	10-37	2,266.4	3,345.1	3,923.0	3,655.1	3,664.3	3,549.6	2,447.9
Manufacturing industries	15-37	2,230.4	3,200.9	3,689.4	2,489.3	3,465.6	3,307.8	2,274.6

