

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Aerospace											
All regions/countries/economies	103,612	109,376	109,829	105,687	111,461	114,170	115,866	98,023	93,653	79,967	76,977
United States.....	74,649	79,190	79,631	74,462	75,490	76,305	79,957	63,775	59,380	47,270	43,769
EU.....	19,823	20,860	20,202	21,332	25,468	26,975	25,349	22,274	20,069	20,172	20,831
Austria	13	16	16	41	28	20	11	45	45	22	15
Belgium	567	594	599	708	576	626	408	502	350	333	338
Bulgaria	47	42	50	75	79	57	56	38	33	32	35
Czech Republic	101	97	101	99	92	76	47	24	15	45	44
Denmark.....	1	1	3	7	6	7	6	7	0	11	8
Finland.....	81	61	95	84	115	95	102	99	119	126	125
France.....	5,293	4,558	3,666	3,839	4,643	4,814	4,418	4,752	3,763	5,488	7,506
Germany.....	5,614	5,528	5,870	6,100	6,736	6,997	7,208	6,375	6,002	4,895	4,453
Greece.....	91	113	133	140	124	119	114	135	108	108	135
Hungary.....	1	1	1	1	0	0	0	0	1	1	0
Ireland.....	35	43	51	46	49	63	67	87	71	65	76
Italy.....	1,529	1,900	1,675	1,848	2,362	2,398	2,276	1,768	1,508	1,103	1,240
Netherlands.....	134	160	226	230	248	240	240	244	189	171	133
Poland.....	392	396	405	429	476	311	154	134	122	223	153
Portugal.....	1	1	2	2	3	4	3	3	4	70	34
Romania.....	3	3	2	2	2	1	1	1	1	1	1
Slovakia.....	0	0	0	0	0	0	0	0	0	0	0
Spain.....	884	950	832	851	795	754	715	681	595	487	541
Sweden.....	744	771	846	821	698	850	988	1,077	853	576	654
United Kingdom.....	4,292	5,626	5,632	6,011	8,436	9,544	8,534	6,300	6,290	6,414	5,340
Asia.....	2,174	2,087	2,391	2,495	2,284	2,419	2,813	3,356	4,033	3,988	4,188
China.....	328	349	309	400	398	487	573	805	1,192	1,196	1,175
India.....	23	24	30	60	33	30	50	65	61	62	77
Indonesia.....	27	30	36	18	18	13	21	36	29	8	30
Japan.....	1,299	1,179	1,502	1,452	1,419	1,393	1,534	1,807	2,085	2,076	2,259
Malaysia.....	3	2	2	2	3	5	4	4	3	3	5
Philippines.....	5	3	3	5	2	5	5	3	5	4	3
Singapore.....	383	389	391	371	239	275	253	343	396	416	418
South Korea.....	23	26	20	71	42	98	179	116	160	112	87
Taiwan.....	75	84	99	112	114	102	113	104	88	102	123
Thailand.....	7	1	2	4	16	10	82	73	14	9	10
All others.....	6,965	7,239	7,605	7,398	8,218	8,471	7,747	8,618	10,172	8,538	8,188
Pharmaceuticals											
All regions/countries/economies	89,306	95,446	105,008	107,008	112,377	116,940	122,260	124,988	126,799	134,445	135,449
United States.....	27,508	28,883	33,313	31,321	32,578	35,563	37,193	38,430	38,482	42,312	40,430
EU.....	24,120	25,267	26,134	28,034	29,104	30,661	33,091	34,164	34,263	35,729	38,545
Austria.....	235	321	347	440	409	460	505	519	567	586	707
Belgium.....	1,160	1,109	1,521	1,623	1,740	1,635	1,677	1,798	1,842	1,779	2,068

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Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Bulgaria	45	48	48	62	57	43	38	40	22	31	29
Czech Republic	93	86	90	88	93	72	32	50	49	66	73
Denmark	517	588	560	659	654	753	780	817	756	864	929
Finland	357	284	327	381	421	429	441	406	319	363	337
France	3,948	4,157	4,081	4,341	4,647	4,710	5,010	4,834	4,999	5,099	6,287
Germany	6,598	6,006	6,238	6,610	6,746	7,309	8,550	8,748	8,111	8,654	8,933
Greece	40	47	50	55	57	81	58	56	52	58	54
Hungary	720	746	690	654	570	468	391	343	363	275	278
Ireland	66	100	118	165	239	222	278	358	391	514	775
Italy	3,278	3,899	4,006	4,280	4,422	4,871	4,953	5,324	5,096	5,109	5,248
Netherlands	1,196	1,167	1,038	835	773	826	935	1,003	1,351	1,381	1,497
Poland	338	460	466	580	539	491	319	324	336	384	444
Portugal	159	196	196	162	284	243	323	328	315	308	337
Romania	302	319	244	240	209	181	119	106	111	101	189
Slovakia	113	112	111	109	108	103	70	83	101	132	142
Spain	1,505	1,551	1,555	1,694	1,779	1,870	1,927	1,962	1,941	1,960	2,172
Sweden	701	789	800	856	794	883	1,412	1,789	1,948	2,013	1,845
United Kingdom	2,752	3,282	3,648	4,198	4,562	5,011	5,274	5,275	5,592	6,051	6,202
Asia	18,886	21,104	25,151	28,358	31,006	30,555	32,366	32,388	34,524	36,994	37,911
China	955	1,010	1,357	1,766	1,711	1,658	2,438	2,754	3,684	3,822	3,092
India	321	352	390	422	494	563	662	791	928	1,042	1,129
Indonesia	79	92	132	108	105	197	308	217	262	391	265
Japan	16,022	17,898	21,071	23,306	25,662	24,584	25,061	24,675	25,212	27,048	28,832
Malaysia	28	27	30	34	32	39	47	53	62	66	70
Philippines	202	159	159	193	286	329	357	429	474	419	569
Singapore	389	477	604	750	690	965	1,153	1,023	1,156	1,266	599
South Korea	749	939	1,211	1,513	1,653	1,899	2,004	2,071	2,386	2,506	2,895
Taiwan	108	134	175	230	262	262	269	327	354	375	357
Thailand	33	16	22	36	111	59	69	48	6	60	103
All others	18,792	20,193	20,410	19,296	19,690	20,162	19,610	20,006	19,530	19,410	18,563
Office and computing machinery											
All regions/countries/economies	39,684	44,631	49,571	56,518	60,122	58,949	60,736	54,032	52,474	59,816	65,692
United States	1,625	1,855	2,536	3,152	3,587	3,784	3,732	4,050	4,747	5,869	8,393
EU	10,824	11,368	11,752	12,766	13,201	12,955	13,011	10,095	9,875	10,659	13,538
Austria	47	54	62	62	62	58	62	73	46	40	35
Belgium	35	31	31	34	42	46	45	34	37	42	46
Bulgaria	5	5	5	6	6	6	7	5	4	4	4
Czech Republic	9	9	9	9	9	7	21	46	47	96	127
Denmark	55	66	54	63	64	62	53	71	69	72	67
Finland	72	120	133	111	58	121	56	89	66	53	59
France	499	507	563	663	761	768	814	760	735	805	1,123
Germany	3,318	3,436	3,464	3,642	3,594	3,745	4,380	2,795	2,735	2,658	2,641

Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Greece	40	36	22	26	25	29	44	42	20	4	2
Hungary	8	8	8	8	8	6	8	6	22	15	11
Ireland.....	711	865	1,097	1,268	1,504	1,738	1,667	1,321	1,138	1,655	3,346
Italy.....	966	998	1,001	1,011	1,041	862	934	1,118	809	755	1,167
Netherlands.....	291	443	364	320	318	337	274	313	269	325	342
Poland.....	57	59	61	66	77	53	29	26	22	33	46
Portugal.....	111	47	64	13	13	25	29	26	26	30	50
Romania.....	8	8	7	7	7	8	4	3	4	3	5
Slovakia.....	6	6	7	6	7	6	5	5	4	4	9
Spain.....	2,987	2,905	2,810	3,172	3,296	2,983	2,433	1,273	1,530	1,051	937
Sweden.....	509	588	591	568	523	277	426	317	244	255	245
United Kingdom.....	1,089	1,178	1,400	1,709	1,787	1,818	1,720	1,773	2,049	2,758	3,276
Asia.....	25,301	29,162	32,785	37,936	40,496	39,355	41,007	36,759	33,964	39,225	39,822
China.....	184	174	229	295	321	408	514	551	664	799	1,385
India.....	11	8	7	11	63	61	92	110	56	128	107
Indonesia.....	0	0	0	0	1	1	1	2	3	3	3
Japan.....	22,867	26,618	29,705	34,159	35,767	33,487	34,496	29,680	26,436	30,283	29,259
Malaysia.....	56	48	50	13	22	151	510	558	758	864	884
Philippines.....	1	1	4	2	6	4	5	7	20	34	57
Singapore.....	1,525	1,374	1,544	1,994	2,659	3,233	3,071	3,259	3,208	3,704	4,074
South Korea.....	83	170	323	458	560	685	647	628	791	1,061	1,539
Taiwan.....	572	768	921	1,003	1,095	1,296	1,597	1,848	1,882	2,346	2,514
Thailand.....	0	0	0	1	1	30	74	116	147	4	1
All others.....	1,935	2,246	2,498	2,664	2,838	2,854	2,985	3,128	3,888	4,063	3,938
Radio, television, and communications equipment											
All regions/countries/economies.....	130,297	136,532	144,730	159,064	170,000	180,055	191,184	182,074	187,553	204,626	218,659
United States.....	16,705	16,351	13,847	14,968	16,473	17,104	16,811	18,422	20,353	24,642	29,844
EU.....	30,282	32,041	33,372	35,555	37,147	37,472	38,468	37,390	38,542	42,062	41,318
Austria.....	1,250	1,276	1,367	1,347	1,461	1,601	1,553	1,662	1,603	1,603	1,628
Belgium.....	1,476	1,301	1,313	1,385	1,420	1,491	1,381	1,195	1,142	1,182	1,257
Bulgaria.....	145	128	153	229	240	173	167	87	58	56	62
Czech Republic.....	21	20	22	22	21	18	91	101	69	79	145
Denmark.....	256	322	322	318	337	340	328	393	352	394	432
Finland.....	318	354	446	434	505	574	402	600	849	1,114	1,374
France.....	1,818	1,957	2,014	2,074	2,230	2,325	2,619	2,650	2,891	2,991	3,544
Germany.....	5,653	5,985	5,971	6,205	6,492	6,658	8,507	7,784	6,896	7,844	6,557
Greece.....	98	120	83	82	96	93	123	129	98	102	78
Hungary.....	1,100	1,085	1,186	1,280	1,240	1,080	824	935	1,187	2,090	2,639
Ireland.....	85	93	142	195	255	279	289	286	301	291	445
Italy.....	7,000	7,588	8,119	8,410	9,314	9,255	9,295	8,648	9,541	9,185	7,795
Netherlands.....	1,691	1,952	2,003	2,054	1,911	2,228	2,249	2,327	2,512	2,762	2,401
Poland.....	462	481	490	553	667	460	261	226	316	366	359

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Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Portugal	144	138	131	121	160	194	211	205	223	220	271
Romania.....	12	13	12	13	16	18	20	8	15	37	75
Slovakia.....	28	27	28	28	28	27	21	19	17	16	25
Spain	1,268	1,371	1,716	1,962	1,823	1,780	1,707	1,423	1,855	1,818	1,646
Sweden.....	629	638	624	739	772	766	1,040	1,143	1,271	1,762	2,075
United Kingdom.....	6,827	7,192	7,232	8,102	8,160	8,112	7,379	7,568	7,345	8,152	8,511
Asia.....	69,261	73,017	82,269	93,105	100,303	109,487	119,153	111,897	113,658	121,947	131,474
China	4,525	4,513	5,614	6,221	6,924	6,885	8,474	8,717	10,228	11,248	11,285
India.....	101	104	173	195	276	327	405	427	391	555	461
Indonesia	26	30	26	23	50	226	233	518	348	599	769
Japan.....	59,035	61,172	67,144	76,369	82,021	88,030	94,058	84,860	83,146	87,187	90,944
Malaysia	416	548	588	632	851	1,151	1,672	1,919	2,190	2,742	3,597
Philippines	122	139	135	168	192	349	356	300	362	374	543
Singapore.....	970	980	1,286	1,367	1,232	1,622	1,434	1,597	2,289	3,021	4,086
South Korea	1,111	1,677	2,357	3,125	3,203	4,104	4,549	4,966	5,670	7,505	10,767
Taiwan	2,910	3,813	4,841	4,798	5,426	6,151	6,671	7,290	8,352	7,891	8,166
Thailand.....	44	42	105	207	127	644	1,301	1,305	683	825	857
All others.....	14,049	15,122	15,242	15,436	16,077	15,992	16,752	14,365	15,000	15,975	16,023
Medical, precision, and optical instruments											
All regions/countries/economies	87,829	86,938	90,578	97,861	102,960	102,556	103,523	99,463	97,897	96,912	101,052
United States.....	29,206	27,471	31,845	34,504	35,658	35,056	34,093	33,646	32,843	33,756	36,734
EU	29,553	29,912	30,258	31,684	32,672	33,858	34,048	33,518	31,850	32,234	33,736
Austria	277	283	300	300	319	339	349	341	373	371	384
Belgium	492	408	340	347	294	357	365	340	316	346	415
Bulgaria	12	11	11	13	14	12	16	10	9	8	9
Czech Republic	45	48	69	68	61	60	89	94	115	145	150
Denmark.....	449	486	469	484	483	455	462	514	523	630	613
Finland.....	335	377	384	397	460	467	405	405	422	430	465
France.....	3,700	3,887	3,826	3,739	3,643	3,739	3,776	3,821	3,738	3,776	3,882
Germany	10,801	11,161	10,947	11,603	12,265	12,686	13,673	13,538	11,887	11,831	12,116
Greece	62	54	119	70	43	47	53	51	39	39	48
Hungary	300	304	321	347	368	332	239	143	140	161	155
Ireland.....	133	147	183	195	228	277	290	351	391	389	447
Italy.....	3,541	3,765	3,993	4,140	4,241	4,328	3,819	3,358	3,079	3,215	3,854
Netherlands.....	385	454	450	471	442	560	556	515	446	464	415
Poland.....	416	445	463	512	598	415	244	243	270	261	334
Portugal	71	65	59	58	77	82	95	108	109	118	180
Romania.....	154	152	120	117	118	94	63	47	53	45	75
Slovakia.....	43	43	44	44	44	42	32	30	30	31	46
Spain	708	765	945	851	976	1,268	1,317	1,389	1,197	1,187	1,103
Sweden.....	315	319	327	314	571	751	758	769	920	989	1,265
United Kingdom.....	7,314	6,738	6,889	7,614	7,426	7,545	7,447	7,450	7,793	7,798	7,780

Appendix table 6-10

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Value-added revenue of high-technology manufacturing industries for selected regions/countries/economies: 1985–95

(Millions of 2000 U.S. constant dollars)

Industry and region/country/economy	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Asia.....	17,018	17,009	16,309	18,857	21,620	21,478	23,251	20,781	20,388	18,793	19,484
China.....	902	871	894	1,088	1,106	1,125	1,277	1,463	2,485	2,281	1,919
India.....	77	95	225	246	293	232	264	205	198	200	251
Indonesia.....	12	9	9	11	14	27	22	20	14	43	60
Japan.....	14,681	14,518	13,346	15,645	18,336	18,187	19,633	17,022	15,626	13,882	14,685
Malaysia.....	155	145	144	157	196	188	176	166	158	178	199
Philippines.....	3	9	8	4	5	8	10	10	15	22	29
Singapore.....	177	178	240	228	162	195	228	262	314	334	425
South Korea.....	629	836	1,038	1,051	1,026	1,011	1,005	1,028	1,085	1,249	1,332
Taiwan.....	260	307	363	392	404	417	449	493	460	510	488
Thailand.....	122	42	42	36	79	87	188	113	32	96	95
All others.....	12,052	12,546	12,165	12,816	13,010	12,165	12,130	11,519	12,815	12,128	11,099

EU = European Union

NOTES: High-technology manufacturing industries classified by Organisation for Economic Co-operation and Development and include aerospace, communications equipment, office machinery and computers, pharmaceuticals, and scientific instruments. Value-added revenue excludes purchases of domestic and imported materials and inputs. EU excludes Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Constant dollar data for foreign countries calculated by deflating industry data valued in each country's nominal domestic currency with a sector-specific price index constructed for that country and then converted to U.S. dollars based on average annual exchange rates.

SOURCE: Global Insight, Inc., World Industry Service database, special tabulations (15 April 2007).

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