

Table SKTI-6

## Value added of KTI manufacturing industries, by region, country, or economy: 2002–19

(Millions of current dollars)

Region, country, or economy	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
World	2,576,987	2,883,573	3,197,869	3,374,917	3,651,713	4,095,900	4,384,975	3,989,644	4,623,515	5,134,356	5,199,948	5,339,575	5,548,016	5,450,753	5,603,086	6,018,099	6,479,750	6,407,464
North America	860,992	891,025	923,070	959,644	1,039,434	1,080,127	1,057,101	996,021	1,104,433	1,149,907	1,187,451	1,232,625	1,264,602	1,302,114	1,316,560	1,365,358	1,428,716	1,464,965
Canada	49,044	53,665	56,206	59,256	61,963	65,161	60,421	51,445	61,895	69,312	71,482	69,693	67,273	61,016	59,339	61,291	62,610	61,329
Mexico	59,688	52,914	54,373	58,410	67,661	70,236	71,546	53,189	66,793	72,847	82,426	86,358	90,365	91,757	87,003	93,222	97,810	101,924
United States	752,260	784,446	812,491	841,978	909,809	944,729	925,134	891,386	975,745	1,007,748	1,033,543	1,076,574	1,106,964	1,149,341	1,170,217	1,210,846	1,268,296	1,301,712
Central and South America	53,195	57,756	72,306	87,610	104,713	133,470	167,411	148,421	188,045	214,069	197,728	196,293	173,337	132,244	117,826	141,439	130,640	122,855
Argentina	3,489	4,710	6,086	7,707	9,511	12,137	15,900	15,127	17,831	19,555	19,028	18,353	12,183	10,850	11,057	12,570	11,615	10,445
Brazil	37,406	40,544	51,384	62,162	75,407	97,703	123,231	103,346	142,654	163,612	143,317	143,019	129,582	88,135	83,624	103,143	90,420	88,025
Chile	1,874	2,408	2,895	3,764	3,875	4,072	4,081	3,967	4,459	5,474	6,164	6,096	5,049	4,630	4,547	4,402	5,010	4,364
Colombia	3,226	3,204	3,931	4,507	5,088	6,344	7,055	6,802	7,992	8,460	9,187	9,189	8,791	7,590	7,297	7,390	7,756	7,241
Peru	1,400	1,474	1,584	1,812	2,058	2,522	3,121	3,193	3,589	3,973	4,657	4,872	4,730	4,278	4,339	4,551	4,695	4,445
Other Central and South America	5,801	5,415	6,426	7,658	8,774	10,691	14,022	15,986	11,521	12,995	15,375	14,764	13,002	16,761	6,963	9,383	11,144	8,335
Europe	754,601	896,723	1,023,781	1,058,247	1,143,913	1,325,372	1,421,186	1,142,668	1,242,687	1,400,885	1,311,908	1,372,896	1,421,611	1,289,669	1,317,500	1,374,737	1,476,363	1,364,890
EU	594,150	715,158	811,992	830,383	893,604	1,039,901	1,104,365	905,102	976,403	1,087,174	1,001,347	1,048,341	1,097,573	1,012,566	1,050,504	1,100,169	1,183,914	1,075,269
France	84,058	98,076	108,076	108,162	110,635	123,839	130,780	113,157	110,363	116,801	109,902	116,260	117,929	103,901	103,660	104,941	108,053	98,758
Germany	233,823	287,257	326,331	330,578	359,581	421,331	441,522	348,978	405,511	464,516	434,105	454,270	488,403	426,611	451,821	478,735	515,441	448,517
Italy	74,413	88,214	101,182	101,347	108,612	125,988	134,670	109,634	114,957	123,018	111,185	115,973	115,650	104,291	110,645	117,112	125,224	113,710
Spain	35,674	43,900	49,909	50,656	55,145	62,617	68,374	58,310	52,659	55,194	48,206	52,713	55,313	47,169	48,450	51,665	56,318	52,266
Other EU	166,183	197,710	226,494	239,640	259,631	306,127	329,020	275,022	292,913	327,645	297,949	309,126	320,278	330,595	335,929	347,715	378,878	362,017
Non-EU	160,451	181,565	211,790	227,864	250,308	285,471	316,821	237,566	266,284	313,711	310,561	324,554	324,038	277,104	266,996	274,568	292,448	289,621
United Kingdom	95,564	104,303	116,639	117,044	123,245	129,123	124,822	96,909	105,779	116,691	114,403	120,982	130,468	125,868	112,978	112,663	121,584	112,978
Russia	16,887	19,107	28,249	36,481	45,159	60,663	79,283	45,567	55,334	71,280	76,025	76,058	67,048	34,429	35,756	40,291	42,542	45,893
Switzerland	33,650	39,466	44,594	47,681	52,044	59,067	68,692	62,855	68,015	82,081	77,278	81,140	83,190	78,622	80,232	81,364	88,000	88,950
Other non-EU	14,350	18,689	22,307	26,658	29,860	36,618	44,024	32,235	37,157	43,658	42,856	46,374	43,332	38,185	38,030	40,251	40,322	41,800
Middle East	25,899	29,317	33,947	38,137	45,697	60,021	70,518	70,293	78,742	96,883	92,394	89,363	96,239	91,667	91,175	100,638	104,670	101,335
Iran	5,566	6,839	8,328	8,758	11,704	14,676	16,315	20,333	21,319	31,279	16,568	14,244	18,689	17,987	21,907	24,784	21,406	20,685
Israel	8,890	9,625	10,027	10,884	12,125	14,091	16,152	16,152	17,877	18,551	20,746	20,307	20,430	21,294	18,799	20,515	21,030	22,337
Saudi Arabia	5,447	5,948	6,885	7,904	9,180	13,379	15,560	15,731	18,948	20,804	23,343	24,874	26,802	29,101	28,957	31,787	38,110	32,024
United Arab Emirates	3,225	3,603	4,207	5,210	7,031	8,020	9,360	6,915	7,624	8,317	9,365	9,611	9,827	8,938	8,631	9,374	8,807	11,292
Other Middle East	2,771	3,302	4,500	5,381	5,657	9,855	13,131	11,163	12,973	17,932	22,371	20,328	20,492	14,347	12,881	14,177	15,317	14,996
Africa	13,492	17,316	21,019	23,459	22,746	24,912	26,350	25,294	29,128	29,523	30,662	30,225	29,954	28,402	29,108	30,591	33,761	37,739
Egypt	1,929	1,583	2,073	2,410	2,653	3,294	4,170	4,588	5,230	5,266	5,755	5,111	4,537	5,309	5,549	5,981	6,917	8,788
Nigeria	231	250	276	319	372	440	547	514	566	804	1,160	1,684	2,246	2,022	1,448	1,316	1,705	2,834
South Africa	7,343	10,808	13,510	14,678	13,067	13,525	12,949	12,210	14,222	13,856	14,480	13,398	12,885	12,055	11,857	12,127	12,766	13,082
Other Africa	3,989	4,676	5,160	6,053	6,654	7,652	8,685	7,982	9,110	9,597	9,267	10,031	10,286	9,016	10,253	11,167	12,373	13,034
Asia	854,943	973,610	1,102,593	1,185,418	1,273,002	1,445,544	1,614,967	1,581,832	1,950,353	2,208,549	2,346,199	2,386,839	2,532,557	2,581,783	2,706,127	2,978,980	3,280,359	3,293,519

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(Millions of current dollars)

Region, country, or economy	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
China	203,326	244,588	275,052	323,745	391,773	497,876	643,951	688,103	852,641	1,033,982	1,148,147	1,283,720	1,397,329	1,460,433	1,514,143	1,702,829	1,937,445	1,981,928
India	19,769	23,472	28,886	34,487	38,898	48,746	50,596	54,385	65,498	80,343	71,012	64,854	70,716	81,048	81,256	92,316	104,875	109,996
Indonesia	13,261	16,456	17,570	17,137	18,554	23,982	30,653	29,770	36,983	43,055	44,511	49,397	48,755	49,395	51,205	54,235	51,615	53,154
Japan	447,221	496,681	547,592	553,668	535,823	553,535	587,807	526,229	629,487	645,267	661,727	541,774	528,358	510,998	565,484	568,002	576,597	582,386
Malaysia	13,310	15,136	17,762	16,499	19,085	20,397	21,347	16,456	21,704	24,513	27,327	28,132	28,909	28,071	28,584	29,099	32,169	33,587
Philippines	4,419	4,003	4,548	4,757	5,371	7,079	6,093	6,766	7,007	7,600	8,200	6,864	8,195	7,838	8,097	8,557	9,019	8,156
Singapore	15,123	15,991	21,085	22,344	26,940	29,615	25,476	25,662	34,215	38,082	38,604	37,175	39,035	38,342	39,090	45,695	63,235	57,708
South Korea	77,453	86,202	107,424	121,747	136,729	154,969	134,890	129,039	173,601	199,375	205,702	222,434	233,132	225,767	229,577	267,474	285,296	248,095
Taiwan	44,333	50,991	58,695	63,530	67,538	72,414	72,441	66,210	84,464	90,427	93,368	100,889	115,619	117,244	121,131	134,341	136,167	131,340
Thailand	11,918	14,314	16,505	18,483	21,629	25,815	29,113	25,574	29,223	28,177	28,616	29,686	30,690	31,760	33,099	34,967	38,156	38,234
Vietnam	1,287	1,473	1,831	2,294	3,021	4,038	4,990	6,408	6,975	7,711	9,375	12,007	21,105	19,566	22,565	28,060	32,249	35,594
Other Asia	3,522	4,304	5,644	6,728	7,640	7,081	7,610	7,229	8,556	10,016	9,612	9,906	10,714	11,321	11,897	13,406	13,536	13,341
Oceania	13,864	17,826	21,154	22,404	22,209	26,455	27,442	25,115	30,127	34,540	33,606	31,334	29,716	24,874	24,790	26,355	25,241	22,161
Australia	12,079	15,615	18,502	19,486	19,597	23,188	24,668	22,434	26,870	31,024	29,882	27,302	25,462	20,978	20,630	21,904	20,713	17,944
New Zealand	1,785	2,212	2,651	2,918	2,612	3,267	2,774	2,681	3,257	3,516	3,724	4,033	4,254	3,897	4,160	4,452	4,528	4,217

EU = European Union; KTI = knowledge and technology intensive; nec = not elsewhere classified.

**Note(s):**

*Value added* is the amount contributed by a country, an industry, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. KTI industries include high R&D intensive and medium-high R&D intensive industries based on a classification by the Organisation for Economic Co-operation and Development. KTI manufacturing industries include chemicals and chemical products; pharmaceuticals; computer, electronic, and optical products; electrical equipment; machinery and equipment nec; motor vehicles, trailers, and semi-trailers; air and spacecraft and related machinery; railroad, military vehicles, and transport nec; and medical and dental instruments. Detail may not add to total because of rounding. The world total and regional totals do not include all countries and economies due to limitations in data availability. See Table SKTI-4 for a full list of countries and economies in each region for which data are available. China includes Hong Kong. The EU total excludes the United Kingdom (UK) to reflect the new EU country composition following the UK's withdrawal on 1 February 2020. In order to maintain consistency over time, the EU aggregate excludes the UK for the entire time series.

**Source(s):**

U.S. Bureau of Economic Analysis, Value Added by Industry, accessed 5 October 2021; IHS Markit, special tabulations (2021) of the Comparative Industry Service.

*Science and Engineering Indicators*