

U.S. Census Bureau
Antifriction Bearings - 2007
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Address inquiries concerning these data to Primary Goods Industries Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Bridgett Parker-Bell, 301-763-6618.

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Table 1. Value of Shipments of Antifriction Ball and Roller Bearings, Components, and Parts by Product Class: 2003 to 2007
 [Millions of dollars]

Product code	Product description	2007	2006	2005	2004	2003
332991	Ball and roller bearings.....	6,798.1	6,237.0	6,330.2	5,777.8	5,349.8
3329911	Ball bearings, complete, unmounted.....	1,954.4	1,932.8	1,940.9	1,822.7	1,848.8
3329913	Tapered roller bearings, including cups and cones, unmounted.....	2,351.6	1,958.3	2,010.5	1,727.9	1,456.5
3329915	Roller bearings (except tapered), unmounted.....	1,254.8	1,139.0	1,132.8	1,053.3	1,006.4
3329917	Mounted bearings (except plain).....	568.8	554.5	578.0	551.5	476.6
3329919	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers, sold separately.....	668.6	652.4	668.0	622.5	561.5

Table 2. Domestic Quantity and Value of Shipments of Antifriction Ball and Roller Bearings, Components, and Parts: 2007 and 2006
 [Quantity in thousands of units. Value in thousands of dollars]

Product code		No. of cos.	2007			2006				
			Quantity		Value	Quantity		Value		
332991	Ball and roller bearings.....	(X)	(X)		6,798,145		(X)	6,236,962		
3329911	Ball bearings, complete, unmounted.....	60	b/	324,020	b/	1,954,367	a/	321,423	a/	1,932,806
	Annular, including self-aligning:									
	Ground or precision:									
	Single-row conrad:									
	Miniature (below 9 mm outside diameter):									
3329911101	Regular (ABEC 1 and 3).....	4		(D)		(D)		(D)		(D)
3329911102	Precision (ABEC 5 and up).....	4	b/	3,855		21,916	a/	3,810		19,718
	Other regular (ABEC 1 and 3):									
3329911103	9 mm outside diameter through 30 mm outside diameter.....	7		(D)		(D)		(D)		(D)
3329911104	Over 30 mm outside diameter through 52 mm outside diameter.....	17		62,982		107,240		62,868		109,427
3329911105	Over 52 mm outside diameter through 100 mm outside diameter.....	15	b/	19,606	b/	148,231		21,704		149,863
3329911107	Over 100 mm outside diameter.....	15	c/	2,804	c/	107,538	a/	2,682	a/	102,771
	Other precision (ABEC 5 and up):									
3329911109	9 mm outside diameter through 30 mm outside diameter.....	7		(D)		(D)		4,000	r/	49,475
3329911111	Over 30 mm outside diameter through 52 mm outside diameter.....	8	a/	528	b/	50,612		410		38,048
3329911112	Over 52 mm outside diameter through 100 mm outside diameter.....	8		228	b/	36,667		178		28,088
3329911113	Over 100 mm outside diameter.....	8	b/	104	c/	49,796		87	a/	43,212
3329911114	Single-row maximum capacity type.....	11	b/	1,112	b/	25,449		945		19,409
3329911118	Integral shaft and integral spindle ball bearings.....	6	a/	20,564	a/	281,158	a/r	25,806	a/	291,385
3329911120	Double-row.....	14		44,544	a/	597,702	r/	39,648		621,804
	Angular contact:									
3329911119	Regular.....	12	c/	886	b/	132,655		846		110,650
3329911123	Precision.....	9		2,138	b/	83,253		1,811		91,322
3329911124	All other ground or precision bearings (ABEC 1 and up).....	3		(D)		(D)		(D)		(D)
3329911127	Ground bearings of less than ABEC 1 precision.....	5	c/	3,885	c/	22,075	c/	4,958	b/	31,827
3329911129	Unground (less than ABEC 1).....	15	c/	114,903	c/	70,575	b/r	105,876	c/	68,640
	Thrust ball bearings:									
3329911133	Ground.....	9		(D)		(D)		(D)		(D)
3329911135	Unground.....	4		6,896		12,427		7,904		13,012
3329911155	Other ball bearings.....	15		22,419	b/	91,769		23,649	b/	86,382
3329913	Tapered roller bearings, including cups and cones, unmounted.....	20		273,217		2,351,587		256,708		1,958,288
3329913132	Cup and cone assemblies shipped as a set.....	18		(D)		(D)		(D)		(D)
3329913133	Cups shipped separately.....	13		97,381		371,016		95,084		315,140
3329913134	Cone assemblies shipped separately.....	14		(D)		(D)		(D)		(D)
3329915	Roller bearings (except tapered), unmounted.....	35		1,336,077	a/	1,254,761		1,794,451		1,138,954
	Cylindrical roller bearings:									
3329915111	Regular (ABEC 1 and 3).....	23		(D)		(D)		(D)		(D)
3329915112	Precision (ABEC 5 and up).....	6	b/	212	c/	94,090		206		87,824
	Spherical roller bearings, including hourglass and barrel:									
3329915124	Single-row.....	5		(D)		(D)		(D)		(D)
3329915125	Double-row.....	7		(D)		(D)		(D)		(D)
3329915141	Needle roller bearings.....	12		1,117,732		472,825		1,525,204		416,520
3329915193	Other roller bearings, n.e.c.....	12		(D)		(D)		(D)		(D)
3329917	Mounted bearings (except plain).....	17	b/	8,568	b/	568,821	a/	8,282	a/	554,485
3329917117	Ball bearings, unit and/or split-mounted.....	11	a/	7,564	b/	326,517	a/	7,254	b/	306,580
	Roller:									
3329917153	Unit mounted.....	8	b/	766	b/	172,872		777		176,726
3329917155	Split-mounted.....	5	c/	238	c/	69,432		251		71,179
3329919	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers sold separately.....	59		(X)		668,609		(X)		652,429
3329919111	Balls (millions of units) 1/.....	18	a/	4,661		214,209		8,949		212,485
3329919121	Other antifriction ball bearing components and parts, including unassembled ball bearings, cages, races, seals, shields, etc. (except balls).....	17		(X)		86,734		(X)		91,844
3329919131	Rollers (millions of units) 2/.....	19		10,187		133,743		(D)		(D)
	Other roller bearing parts and components (except rollers):									
3329919135	For tapered roller bearings (except cup cone assemblies).....	6		(X)	a/	125,160		(X)		108,652
3329919136	For cylindrical roller bearings.....	5		(X)		(D)		(X)		(D)

3329919137	For spherical roller bearings.....	1	(X)	(D)	(X)	(D)
3329919149	For other roller bearings.....	6	(X)	28,765	(X)	28,765
3329919159	Housings and parts and components for housings, including housing closures, collars, spacers, sleeves, adapters, and other miscellaneous items.....	7	(X)	c/ 59,546	(X)	55,757

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. X Not applicable.

1/ Production for all purposes of balls for 2007 and 2006 is 4.6 millions of units and 8.9 millions of units, respectively.

2/ Production for all purposes of rollers for 2007 and 2006 is 10.2 millions of units and 12.5 millions of units, respectively.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Antifriction Ball and Roller Bearings, Components, and Parts: 2007
 [Quantity in thousands of units. Value and duty in thousands of dollars]

Product code	Product Description	Manufacturers' shipments		Exports of domestic merchandise 1/		Imports for consumption 2/		Apparent consumption 3/	
		Quantity	Value f.o.b. plant	Quantity	Value at port	Quantity	C.i.f. and calculated duty	Quantity	Value
	Total.....	(X)	6,798,145	(X)	1,602,678	(X)	2,056,804	(X)	7,252,271
	Ball bearings, complete, unmounted:								
	Annular, including self-aligning:								
	Ground or precision:								
	Single-row conrod:								
3329911101, 102	Miniature (below 9 mm outside diameter), regular (ABEC 1 and 3) and precision (ABEC 5 and up).....	(D)	(D)	389	4,739	23,030	14,017	(D)	(D)
3329911103, 109	Other regular and other precision (ABEC 5 and up):								
3329911104, 111	9 mm outside diameter through 30 mm outside diameter.....	(D)	(D)	268	18,246	203,807	83,571	(D)	(D)
3329911105, 112	Over 30 mm outside diameter through 52 mm outside diameter.....	63,510	157,852	0	0	199,061	141,499	261,892	268,022
3329911107, 113	Over 52 mm outside diameter through 100 mm outside diameter.....	19,834	184,898	0	0	44,613	143,179	64,132	309,945
3329911114	Over 100 mm outside diameter.....	2,907	157,334	95	26,006	6,420	68,501	9,232	199,829
3329911118	Single-row maximum capacity type.....	1,112	25,449	164	8,190	10,982	18,235	11,929	35,494
3329911120	Integral shaft and integral spindle.....	20,564	281,158	1,239	43,865	19,432	42,815	38,757	280,108
3329911119, 123	Double-row.....	44,544	597,702	88	8,003	2,614	17,876	47,071	607,575
3329911124, 127, 129, 135	Angular contact, regular and precision.....	3,024	215,908	24,731	120,365	13,464	146,826	(S)	242,369
3329911133	All other ground or precision (ABEC 1 and up) and ground bearings of less than ABEC 1 precision; annular ball bearings including self-aligning, unground (less than ABEC 1), and unground thrust ball bearings.....	(D)	(D)	3,844	15,606	16,371	21,665	(D)	(D)
3329911155	Ground thrust ball bearings.....	(D)	(D)	299	30,265	5,538	19,315	(D)	(D)
3329913132	Other ball bearings.....	22,419	91,769	3,270	199,335	13,770	97,003	32,920	(S)
3329913133	Tapered roller bearings, including cups and cones, unmounted:								
3329913134	Cup and cone assemblies shipped as a set.....	(D)	(D)	5,590	206,107	33,130	154,878	(D)	(D)
3329915111, 112	Cups shipped separately.....	97,381	371,016	3,780	32,248	64,290	110,129	157,892	448,897
3329915124	Cone assemblies shipped separately.....	(D)	(D)	17,498	196,615	46,951	121,525	(D)	(D)
3329915125	Cylindrical roller bearings, regular (ABEC 1 and 3) and precision (ABEC 5 and up).....	(D)	(D)	1,593	100,948	31,783	228,598	(D)	(D)
3329915141	Spherical roller bearings, including hourglass and barrel:								
3329915193	Single-row.....	(D)	(D)	125	18,837	538	11,490	(D)	(D)
3329917117	Double-row.....	(D)	(D)	200	47,743	1,221	95,923	(D)	(D)
3329917153, 155	Needle rolling bearings.....	1,117,732	472,825	8,088	87,967	104,832	72,144	1,214,476	457,002
	Other roller bearings, n.e.c.....	(D)	(D)	178	16,322	1,651	5,977	(D)	(D)
	Mounted bearings (except plain):								
	Ball bearings, unit and/or split mounted.....	7,564	326,517	442	30,358	21,410	54,743	28,531	350,902
	Roller bearings, unit and split mounted.....	1,004	242,304	162	36,613	568	5,244	1,410	210,935
	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers, sold separately:								
3329919111	Balls (millions of units).....	4,661	214,209	(X)	34,068	5,870	22,348	(X)	202,489
3329919121	Other antifriction ball bearings components and parts, including unassembled ball bearings, cages, races, seals, shields, etc. (except balls).....	(X)	86,734	(X)	49,977	244,082	133,968	(X)	170,725
3329919131	Rollers (millions of units).....	10,187	133,743	(X)	63,964	4,170	39,892	(X)	109,671
3329919135	Other roller bearing parts and components (except rollers):								
3329919136	For tapered roller bearings (except cup and cone assemblies).....	(X)	125,160	(X)	51,624	(X)	68,262	(X)	141,798
3329919137	For cylindrical roller bearings.....	(X)	(D)	(X)	6,938	(X)	28,114	(X)	(D)
3329919149	For spherical roller bearings.....	(X)	(D)	(X)	3,217	(X)	14,097	(X)	(D)
3329919159	For other roller bearings.....	(X)	23,688	(X)	41,100	(X)	20,280	(X)	2,868
	Housings and parts and components for housing, including housing closures, collars, spacers, sleeves, adapters, and other miscellaneous items.....	(X)	59,546	(X)	53,951	(X)	54,690	(X)	60,285

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. S Does not meet publication standards. X Not applicable.

1/Source: Census Bureau report EM 545, U.S. Exports.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/Apparent consumption is derived by subtracting exports from manufacturer's shipments plus imports.

Table 4. Comparison of North American Industry Classification System Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
	Ball bearings, complete, unmounted:		
	Annular, including self-aligning:		
	Ground or precision:		
	Single-row conrad:		
3329911101, 102	Miniature (below 9 mm outside diameter), regular (ABEC 1 and 3) and precision (ABEC 5 and up).....	8482.10.5036	8482.10.5036
3329911103, 109	Other regular and other precision (ABEC 5 and up): 9 mm outside diameter through 30 mm outside diameter.....	8482.10.5044	8482.10.5044
3329911104, 111	Over 30 mm outside diameter through 52 mm outside diameter.....	8482.10.5048	8482.10.5048
3329911105, 112	Over 52 mm outside diameter through 100 mm outside diameter.....	8482.10.5052	8482.10.5052
3329911107, 113	Over 100 mm outside diameter.....	8482.10.5056	8482.10.5056
3329911114	Single-row maximum capacity type.....	8482.10.5032	8482.10.5032
3329911118	Integral shaft and integral spindle.....	8482.10.1000	8482.10.1040 8482.10.1080
3329911120	Double-row.....	8482.10.5060	8482.10.5060
3329911119, 123	Angular contact, regular and precision.....	8482.10.5016 8482.10.5024 8482.10.5028	8482.10.5016 8482.10.5024 8482.10.5028
3329911124, 127, 129, 135	All other ground or precision bearings (ABEC 1 and up) and ground bearings of less than ABEC 1 precision; annular ball bearings, including self-aligning, unground (less than ABEC 1); and unground thrust ball bearings.....	8482.10.5004 8482.10.5064	8482.10.5004 8482.10.5064
3329911133	Ground thrust ball bearings.....	8482.10.5008	8482.10.5008
3329911155	Other ball bearings.....	8482.10.5012 8482.10.5068	8482.10.5012 8482.10.5068
	Tapered roller bearings, including cups and cones, unmounted:		
3329913132	Cup and cone assemblies shipped as a set.....	8482.20.0020 8482.20.0030 8482.20.0040 8482.20.0060	8482.20.0020 8482.20.0030 8482.20.0040 8482.20.0060
3329913133	Cups shipped separately.....	8482.99.3010	8482.99.1540
3329913134	Cone assemblies shipped separately.....	8482.20.0070 8482.20.0080	8482.20.0070 8482.20.0080
3329915111, 112	Cylindrical roller bearings, regular (ABEC 1 and 3) and precision (ABEC 5 and up).....	8482.50.0000	8482.50.0000
	Spherical roller bearings, including hourglass and barrel:		
3329915124	Single-row.....	8482.30.0040	8482.30.0040
3329915125	Double-row.....	8482.30.0080	8482.30.0080
3329915141	Needle roller bearings.....	8482.40.0000	8482.40.0000
3329915193	Other roller bearings, n.e.c.	8482.80.0020 8482.80.0040 8482.80.0060	8482.80.0020 8482.80.0040 8482.80.0060
	Mounted ball bearings (except plain):		
3329917117	Ball bearings, unit and/or split mounted.....	8483.20.0010	8483.20.4040 8483.20.8040
3329917153, 155	Roller bearings, unit and split mounted.....	8483.20.0050	8483.20.4080 8483.20.8080
	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers, sold separately:		
3329919111	Balls (millions of units).....	8482.91.0010 8482.91.0020	8482.91.0010 8482.91.0020
3329919121	Other antifriction ball bearings components and parts, including		

	unassembled ball bearings, cages, races, seals, shields, etc. (except balls).....	8482.99.1010 8482.99.1050	8482.99.0500 8482.99.3500
3329919131	Rollers (millions of units).....	8482.91.0040 8482.91.0050 8482.91.0070 8482.91.0080 8482.91.0090	8482.91.0040 8482.91.0050 8482.91.0070 8482.91.0080 8482.91.0090
3329919135	Other roller bearing and components (except rollers): For tapered roller bearings (except cup and cone assemblies).....	8482.99.3050	8482.99.1580 8482.99.4500
3329919136	For cylindrical roller bearings.....	8482.99.7060	8482.99.2560 8482.99.6560
3329919137	For spherical roller bearings.....	8482.99.5000	8482.99.2520 8482.99.6510
3329919149	For other roller bearings.....	8482.99.7030 8482.99.7090	8482.99.2540 8482.99.6530
3329919159	Housings and parts and components for housings, including housing closures, collars, spacers, sleeves, adapters, and other miscellaneous items.....	8483.30.5020	8483.30.4040 8483.30.8020 8483.90.2000 8483.90.7000

n.e.c. Not elsewhere classified.

1/Source: 2007 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2007).

HISTORICAL NOTE

The Census Bureau has collected data on antifriction bearings since 1972.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.