

# Ball and Roller Bearing Shipments, 1978-1999

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Source: U.S. Dept. of Commerce, Bureau of the Census, Current Industrial Report (MA35Q)

w = withheld to protect proprietary information

na = not available as separate line item

### Notes

1. Linear roller bearings appeared as separate line item in 1989, but were recombined into other ball bearings in 1994 revisions. No data on linear bearings was ever published to protect proprietary information.
2. Revisions in 1990 CIR reclassified certain tapered roller bearing parts as tapered roller bearings. This was effective in 1989, making data before and after 1989 not directly comparable
3. Revisions in 1994 CIR combined integral shaft ball bearings of greater and less than 30mm into one line item, effective in 1993
4. Expanded bearing parts detail was introduced in 1991; parts for linear bearings and parts for needle bearings were removed in 1994 revisions to the 1993 data
5. Unit entries for bearing parts shipments have generally not been available, and, therefore, not used.

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Dollars in 1000s

Product Description	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Ball and Roller Bearings	2,487,430	2,907,942	2,954,545	3,236,434	2,601,121	2,630,845	3,127,799	3,106,703	2,967,414	3,110,282	3,435,775
Parts for ball and roller bearings	292,365	329,895	307,158	346,199	290,107	325,115	407,114	402,204	381,925	440,623	463,417
Shipments of Bearings and Parts	2,779,795	3,237,837	3,261,703	3,582,633	2,891,228	2,955,960	3,534,913	3,508,907	3,349,339	3,550,905	3,899,192
Ball bearings, complete	910,149	1,075,499	1,179,445	1,274,363	1,070,957	1,107,162	1,375,844	1,363,169	1,298,627	1,312,165	1,497,570
Ball bearings, radial with od under 9mm,	13,410	16,041	17,855	14,157	w	w	w	11,591	w	w	w
Ball bearings, radial with od under 9mm, ABEC 1-3	5,145	6,717	7,782	4,199	w	w	w	2,567	w	w	w
Ball bearings, radial with od under 9mm, ABEC 5 +	8,265	9,324	10,073	9,958	10,542	9,192	10,453	9,024	14,224	w	w
Ball bearings, radial with od over 9mm to 30mm	89,526	98,093	116,727	101,771	98,623	89,681	97,798	86,621	w	w	w
Ball bearings, radial with od over 9mm to 30mm, ABEC 1-3	72,994	79,769	89,596	74,618	72,275	64,842	70,787	58,903	55,319	53,191	57,010
Ball bearings, radial with od over 9mm to 30mm, ABEC 5 +	16,532	18,324	27,131	27,153	26,348	24,839	27,011	27,718	w	w	w
Ball bearings, radial with od over 30mm to 52mm	134,204	144,078	142,149	159,152	127,663	120,665	136,274	126,109	118,673	123,617	130,688
Ball bearings, radial with od over 30mm to 52mm, ABEC 1-3	124,213	133,270	125,463	133,089	105,049	100,224	113,857	104,267	92,484	95,535	103,818
Ball bearings, radial with od over 30mm to 52mm, ABEC 5 +	9,991	10,808	16,686	26,063	22,614	20,441	22,417	21,842	26,189	28,082	26,870
Ball bearings, radial with od over 52mm to 100mm	149,036	171,081	170,546	178,043	137,635	139,621	161,055	135,527	136,120	143,408	159,137
Ball bearings, radial with od over 52mm to 100mm, ABEC 1-3	135,111	153,232	141,894	145,110	110,280	114,002	132,272	106,655	97,431	101,387	110,668
Ball bearings, radial with od over 52mm to 100mm, ABEC 5 +	13,925	17,849	28,652	32,933	27,355	25,619	28,783	28,872	38,689	42,021	48,469
Ball bearings, radial with od over 100mm	132,939	143,102	173,755	194,930	154,143	133,710	157,239	137,709	147,259	149,117	133,642
Ball bearings, radial with od over 100mm, ABEC 1-3	102,461	106,451	133,563	139,617	107,965	93,417	112,584	97,618	94,011	92,368	86,071
Ball bearings, radial with od over 100mm, ABEC 5 +	30,478	36,651	40,192	55,313	46,178	40,293	44,655	40,091	53,248	56,749	47,571
Ball bearings, unground	40,026	51,191	53,689	47,942	44,471	55,501	75,497	73,378	72,166	73,515	86,034
Ball bearings, double row	36,586	67,685	71,641	86,007	66,939	62,828	76,475	65,153	57,648	47,018	74,868
Ball bearings, radial, maximum capacity type, single row	32,104	32,208	38,031	36,414	23,778	21,247	31,162	23,709	19,591	18,502	21,483
Ball bearings, all other precision, ABEC 1	w	45,582	w	w	w	w	w	w	w	41,714	90,119
Ball bearings, ground, less than ABEC 1	73,778	37,251	32,580	24,534	22,996	19,822	26,237	w	w	w	w
Ball bearings with integral shafts	87,739	w	w	w	w	w	w	w	w	w	w
Ball bearings with integral shafts having an od <=30mm	w	13,159	w	14,277	10,354	11,380	12,522	11,268	10,964	11,375	14,032
Ball bearings with integral shafts having an od >30mm	w	114,864	w	w	w	w	w	w	w	w	w
Ball bearings, angular contact	41,551	47,226	52,004	67,785	55,247	54,620	78,436	68,956	63,067	58,744	68,816
Ball bearings, angular contact, regular											
Ball bearings, angular contact, precision											
Ball bearings, thrust	w	49,813	w	60,086	50,657	38,898	42,671	46,118	41,964	41,575	39,428
Ball bearings, thrust, ground	36,316	43,948	52,563	52,029	45,519	33,905	36,860	40,239	36,909	32,709	29,391
Ball bearings, thrust, unground	w	5,865	w	8,057	5,138	4,993	5,811	5,879	5,055	8,866	10,037
Ball bearings, linear	w	w	w	w	w	w	w	w	w	w	w
Ball bearings, nes (includes linear)	42,934	44,125	63,101	66,134	54,646	64,152	73,154	73,707	79,479	96,274	98,853
Tapered roller bearings	842,695	989,632	913,713	968,463	695,373	692,034	776,535	734,237	667,031	754,639	745,700
Tapered roller bearings, cup and cone assemblies	219,771	274,182	304,349	270,410	194,794	150,433	145,848	138,549	126,973	138,108	144,521
Tapered roller bearings, cone assemblies	418,887	489,560	417,934	469,038	338,444	366,326	408,611	407,142	377,132	426,006	404,225
Tapered roller bearings, cup and cone assemblies, shpd separately											
Tapered roller bearings, cups	204,037	225,890	191,430	229,015	162,135	175,275	222,076	188,546	162,926	190,525	196,954

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Dollars in 1000s

Product Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Ball and Roller Bearings	3,579,263	3,671,991	3,552,968	3,724,195	3,864,074	4,158,733	4,613,502	4,873,704	5,049,535	5,183,005	5,190,367
Parts for ball and roller bearings	386,121	382,619	378,300	440,417	467,006	535,120	589,459	614,263	663,011	617,118	605,270
Shipments of Bearings and Parts	3,965,384	4,054,610	3,931,268	4,164,612	4,331,080	4,693,853	5,202,961	5,487,967	5,712,546	5,800,123	5,795,637
Ball bearings, complete	1,420,861	1,459,347	1,406,664	1,484,233	1,616,751	1,676,202	1,885,700	1,989,073	2,085,366	2,024,152	1,951,653
Ball bearings, radial with od under 9mm,	15,593	14,415	16,311	18,695	23,150	w	w	25,274	w	w	w
Ball bearings, radial with od under 9mm, ABEC 1-3	2,630	1,923	w	w	1,855	2,556	2,997	w	w	w	w
Ball bearings, radial with od under 9mm, ABEC 5 +	12,963	12,492	w	w	21,295	w	w	22,259	24,400	22,408	21,491
Ball bearings, radial with od over 9mm to 30mm	114,596	102,069	96,106	102,425	105,010	118,690	132,811	139,020	148,513	140,902	133,651
Ball bearings, radial with od over 9mm to 30mm, ABEC 1-3	60,800	50,441	46,478	52,797	60,582	69,947	78,565	77,959	79,467	77,058	72,755
Ball bearings, radial with od over 9mm to 30mm, ABEC 5 +	53,796	51,628	49,628	49,628	44,428	48,743	54,246	61,061	69,046	63,844	60,896
Ball bearings, radial with od over 30mm to 52mm	152,291	160,838	174,034	175,638	184,110	203,359	220,607	236,301	251,389	234,201	220,423
Ball bearings, radial with od over 30mm to 52mm, ABEC 1-3	110,434	121,283	132,490	138,977	152,599	169,491	181,588	193,705	204,608	190,610	179,753
Ball bearings, radial with od over 30mm to 52mm, ABEC 5 +	41,857	39,555	41,544	36,661	31,511	33,868	39,019	46,792	46,781	43,591	40,670
Ball bearings, radial with od over 52mm to 100mm	157,040	186,648	166,610	176,682	197,618	235,104	226,529	240,497	248,842	247,510	231,956
Ball bearings, radial with od over 52mm to 100mm, ABEC 1-3	120,861	149,313	133,648	149,615	171,935	207,545	195,127	215,860	212,208	215,944	200,589
Ball bearings, radial with od over 52mm to 100mm, ABEC 5 +	36,179	37,335	32,962	27,067	25,683	27,559	31,402	34,396	36,634	31,566	31,367
Ball bearings, radial with od over 100mm	153,683	175,259	147,447	158,084	166,003	172,038	199,256	250,256	242,937	218,894	216,529
Ball bearings, radial with od over 100mm, ABEC 1-3	112,175	128,758	107,960	116,869	129,171	142,199	165,647	180,180	193,754	176,562	175,820
Ball bearings, radial with od over 100mm, ABEC 5 +	41,508	46,501	39,487	41,215	36,832	29,839	33,609	38,564	49,183	42,332	40,709
Ball bearings, unground	91,137	82,648	78,959	85,877	104,903	121,784	120,066	126,756	128,759	134,059	133,514
Ball bearings, double row	58,480	80,644	89,767	134,292	135,499	111,509	171,635	172,005	200,992	209,410	192,956
Ball bearings, radial, maximum capacity type, single row	20,703	27,017	18,758	18,663	16,693	17,833	23,794	22,325	24,702	23,590	14,202
Ball bearings, all other precision, ABEC 1	67,200	w	17,656	21,301	w	w	w	w	w	w	w
Ball bearings, ground, less than ABEC 1	58,881	62,059	w	29,242	25,396	24,811	29,635	32,831	44,055	52,210	43,023
Ball bearings with integral shafts	282,743	w	w	w	331,557	302,598	323,092	340,096	331,398	314,978	351,402
Ball bearings with integral shafts having an od <=30mm	14,989	14,213	11,379	w	12,888	na	na	na	na	na	na
Ball bearings with integral shafts having an od >30mm	267,754	w	w	w	318,669	na	na	na	na	na	na
Ball bearings, angular contact	97,105	104,328	134,186	148,784	141,966	153,069	189,488	134,185	156,112	155,763	w
Ball bearings, angular contact, regular								76,221	73,031	78,738	61,656
Ball bearings, angular contact, precision								90,506	83,081	77,025	w
Ball bearings, thrust	44,031	41,621	39,972	42,967	41,063	36,069	38,996	39,133	45,602	43,965	39,457
Ball bearings, thrust, ground	37,300	36,488	33,986	36,558	34,052	28,117	27,628	27,340	33,156	31,941	26,696
Ball bearings, thrust, unground	6,731	5,133	5,986	6,409	7,011	7,952	11,368	11,793	12,446	12,024	12,761
Ball bearings, linear	w	w	w	na	na	na	na	na	na	na	na
Ball bearings, nes (includes linear)	107,378	123,037	123,697	113,902	143,041	146,552	172,246	205,262	224,957	240,302	230,609
Tapered roller bearings	963,894	977,339	876,759	935,573	1,001,037	1,139,236	1,283,106	1,408,772	1,420,860	1,538,793	1,589,534
Tapered roller bearings, cup and cone assemblies	296,300	285,992	260,872	279,676	291,458	351,992	423,097	w	w	w	w
Tapered roller bearings, cone assemblies	448,247	471,253	415,685					w	w	634,420	w
Tapered roller bearings, cup and cone assemblies, shpd separately				655,897	709,579	787,244	860,009	w	w	w	w
Tapered roller bearings, cups	219,347	220,094	200,202	w	w	w	w	276,181	296,618	w	w

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Dollars in 1000s

Product Description	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Roller Bearings	510,799	586,677	602,620	713,571	594,877	586,452	679,534	706,299	703,579	737,856	834,304
Cylindrical roller bearings	196,123	228,377	243,308	301,687	240,138	202,934	225,271	218,860	220,283	218,070	233,137
Cylindrical roller bearings, RBEC 1 and 3	169,098	191,359	198,776	232,801	167,454	128,759	153,856	140,921	137,523	113,606	148,544
Cylindrical roller bearings, RBEC 5	27,025	37,018	44,532	68,886	72,684	74,175	71,415	77,939	82,760	104,464	84,593
Needle roller bearings	171,235	198,428	194,153	221,975	186,182	231,647	286,560	303,933	315,543	316,276	378,822
Spherical roller bearings	115,812	130,418	132,243	155,216	123,654	102,942	118,141	125,415	115,002	139,710	154,958
Spherical roller bearings, single row	24,158	27,919	14,610	18,444	15,202	14,380	14,935	15,485	17,317	19,525	24,179
Spherical roller bearings, double row	91,654	102,499	117,633	136,772	108,452	88,562	103,206	109,930	97,685	120,185	130,779
Other roller bearings, nes	27,629	29,454	32,916	34,693	44,903	48,929	49,562	58,091	52,751	63,800	67,387
Mounted Bearings	223,787	256,134	258,767	280,037	239,914	245,197	295,886	302,998	298,177	305,622	358,201
Mounted ball bearings, unit and/or split mounted	131,960	148,453	144,707	144,179	130,413	146,810	164,939	168,695	167,013	171,694	197,733
Mounted roller bearings, unit mounted	79,106	92,209	94,929	109,082	86,531	81,715	111,200	108,627	111,438	108,235	127,219
Mounted roller bearings, split mounted	12,721	15,472	19,131	26,776	22,970	16,672	19,747	25,676	19,726	25,693	33,249
Parts for ball and roller bearings	292,365	329,895	307,158	346,199	290,107	325,115	407,114	402,204	381,925	440,623	463,417
Balls for ball bearings	63,612	67,540	52,704	71,031	67,041	69,620	104,220	103,218	95,470	103,119	113,645
Parts of ball bearings, nes	26,513	22,067	32,179	23,996	21,148	20,368	23,706	22,389	19,409	22,399	29,189
Parts for tapered roller bearings, nes	0	0	0	0	0	0	0	0	0	0	0
Rollers for roller bearings	49,976	64,614	54,142	48,150	43,592	48,986	56,883	59,176	53,561	70,029	71,181
Parts of roller bearings, except rollers	152,264	175,674	168,133	203,022	158,326	186,141	222,305	217,421	213,485	245,076	249,402
Parts for other roller bearings											
Parts for cylindrical roller bearings											
Parts for needle roller bearings											
Parts for spherical roller bearings											
Housings and parts for housings											
Parts for linear roller bearings											

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Dollars in 1000s

Product Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Roller Bearings	849,567	872,408	794,303	773,133	806,900	935,545	985,999	1,017,413	1,117,246	1,169,428	1,201,821
Cylindrical roller bearings	232,072	242,538	222,835	197,369	180,616	221,121	208,964	221,690	281,763	305,878	300,128
Cylindrical roller bearings, RBEC 1 and 3	139,739	140,491	129,788	126,486	121,563	160,803	150,527	161,918	194,550	224,865	229,721
Cylindrical roller bearings, RBEC 5	92,333	102,047	93,047	70,883	59,053	60,318	58,437	57,363	87,213	81,013	70,407
Needle roller bearings	361,247	350,951	311,590	343,913	389,793	463,733	491,047	496,855	511,720	523,473	562,546
Spherical roller bearings	194,427	208,556	185,728	170,770	171,340	175,154	199,946	201,759	w	w	w
Spherical roller bearings, single row	28,464	26,377	24,109	19,481	19,263	19,465	20,877	w	w	w	w
Spherical roller bearings, double row	165,963	182,179	161,619	151,289	152,077	155,689	179,069	177,679	190,827	177,687	164,962
Other roller bearings, nes	61,821	70,363	74,150	61,081	65,151	75,537	86,042	93,313	w	w	w
Mounted Bearings	344,941	362,897	475,242	531,256	439,386	407,750	458,697	458,446	426,063	450,632	447,359
Mounted ball bearings, unit and/or split mounted	186,766	197,444	322,897	377,988	238,580	219,006	249,900	245,714	233,464	230,042	225,155
Mounted roller bearings, unit mounted	131,215	137,196	121,565	125,949	167,906	156,110	172,557	178,720	164,210	187,062	196,904
Mounted roller bearings, split mounted	26,960	28,257	30,780	27,319	32,900	32,634	36,240	34,012	28,389	33,528	25,300
Parts for ball and roller bearings	386,121	382,619	378,300	440,417	467,006	535,120	589,459	614,263	663,011	617,118	605,270
Balls for ball bearings	124,914	133,177	134,327	147,663	154,191	186,722	221,209	252,642	256,304	223,934	209,996
Parts of ball bearings, nes	39,073	41,363	78,530	89,125	96,375	98,851	112,182	104,433	104,807	99,960	91,225
Parts for tapered roller bearings, nes	20,923	22,031	20,587	31,766	34,088	42,454	45,810	51,143	80,919	76,468	77,921
Rollers for roller bearings	75,994	78,323	61,960	75,275	83,203	100,139	108,200	124,428	140,737	136,691	148,895
Parts of roller bearings, except rollers	281,917	107,525	22,403					w	w	w	w
Parts for other roller bearings			w	w	w	w	w	w	w	w	w
Parts for cylindrical roller bearings			w	w	w	1,688	1,912	w	22,852	21,890	w
Parts for needle roller bearings			w	w	w		na		w	na	na
Parts for spherical roller bearings			22,403	24,373	24,800	w	w	w	w	w	w
Housings and parts for housings			w	12,763	14,254	20,179	26,179	w	w	w	w
Parts for linear roller bearings			w	w			na	na	na	na	na

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Number in 1000s

Product Description	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Ball and Roller Bearings	1,111,199	1,099,656	1,039,603	878,451	727,978	909,163	1,038,847	1,050,518	1,052,460	1,083,994	1,116,245
Ball bearings, complete	494,373	484,116	459,889	381,928	298,592	368,216	443,474	403,549	397,996	406,310	441,481
Ball bearings, radial with od under 9mm,	8,957	10,676	10,876	6,525	w	w	w	4,591	w	w	w
Ball bearings, radial with od under 9mm, ABEC 1-3	5,640	6,967	7,374	3,531	w	w	w	2,061	w	w	w
Ball bearings, radial with od under 9mm, ABEC 5 +	3,317	3,709	3,502	2,994	2,997	2,749	3,171	2,530	4,816	w	w
Ball bearings, radial with od over 9mm to 30mm	71,004	70,414	85,052	57,546	50,604	50,976	57,879	51,210	w	w	w
Ball bearings, radial with od over 9mm to 30mm, ABEC 1-3	66,550	65,270	78,403	52,615	45,533	45,506	51,124	46,114	40,209	36,751	40,218
Ball bearings, radial with od over 9mm to 30mm, ABEC 5 +	4,454	5,144	6,649	4,931	5,071	5,470	6,755	5,096	w	w	w
Ball bearings, radial with od over 30mm to 52mm	102,994	89,643	75,528	76,883	58,164	63,061	73,424	68,311	63,072	64,791	68,304
Ball bearings, radial with od over 30mm to 52mm, ABEC 1-3	102,695	89,308	75,076	76,321	57,667	62,617	72,916	67,861	62,465	63,824	67,730
Ball bearings, radial with od over 30mm to 52mm, ABEC 5 +	299	335	452	562	497	444	508	450	607	967	574
Ball bearings, radial with od over 52mm to 100mm	38,678	37,714	30,035	27,255	18,757	20,792	23,861	18,933	18,775	22,150	23,154
Ball bearings, radial with od over 52mm to 100mm, ABEC 1-3	38,202	37,180	29,534	26,750	18,415	20,471	23,505	18,597	18,322	19,913	22,854
Ball bearings, radial with od over 52mm to 100mm, ABEC 5 +	476	534	501	505	342	321	356	336	453	2,237	300
Ball bearings, radial with od over 100mm	5,555	4,637	4,877	4,175	2,867	2,675	3,585	2,935	3,017	5,863	2,543
Ball bearings, radial with od over 100mm, ABEC 1-3	4,677	3,684	4,584	3,847	2,571	2,407	3,464	2,833	2,876	3,537	2,468
Ball bearings, radial with od over 100mm, ABEC 5 +	878	953	293	328	296	268	121	102	141	2,326	75
Ball bearings, unground	130,630	140,532	135,660	104,007	94,484	126,176	163,183	145,100	156,411	143,917	165,564
Ball bearings, double row	12,506	11,182	8,957	9,591	7,308	8,267	9,860	8,729	8,210	7,739	8,235
Ball bearings, radial, maximum capacity type, single row	4,965	5,062	4,169	3,416	2,013	1,962	2,824	2,146	1,844	1,664	1,740
Ball bearings, all other precision, ABEC 1	w	10,057	w	w	w	w	w	w	w	10,427	17,434
Ball bearings, ground, less than ABEC 1	33,508	17,878	14,686	6,896	6,519	7,244	9,536	w	w	w	w
Ball bearings with integral shafts	w	25,581	w	w	w	w	w	w	w	w	w
Ball bearings with integral shafts having an od <=30mm	w	7,732	w	6,492	4,487	5,305	6,079	5,412	5,421	5,833	6,634
Ball bearings with integral shafts having an od >30mm	22,858	17,849	w	w	w	w	w	w	w	w	w
Ball bearings, angular contact	6,457	6,574	5,237	4,298	3,626	3,781	5,138	4,254	3,950	4,940	5,559
Ball bearings, angular contact, regular											
Ball bearings, angular contact, precision											
Ball bearings, thrust	w	18,153	w	15,937	11,218	10,817	12,116	12,855	12,717	12,769	11,631
Ball bearings, thrust, ground	16,128	12,853	16,472	11,450	8,411	8,281	9,561	10,506	10,456	8,110	7,746
Ball bearings, thrust, unground	w	5,300	w	4,487	2,807	2,536	2,555	2,349	2,261	4,659	3,885
Ball bearings, linear	w	w	w	w	w	w	w	w	w	w	w
Ball bearings, nes (includes linear)	40,133	36,013	37,205	34,387	10,626	36,637	39,964	38,671	35,746	45,815	39,027
Tapered roller bearings	198,772	196,889	166,509	134,189	99,292	119,374	129,714	113,316	124,801	137,452	159,009
Tapered roller bearings, cup and cone assemblies	22,381	21,655	17,559	16,768	11,783	13,651	15,032	11,629	12,264	13,941	15,347
Tapered roller bearings, cone assemblies	174,545	177,834	151,939	119,164	86,493	107,767	114,951	103,327	111,761	120,629	139,899
Tapered roller bearings, cup and cone assemblies, shpd separately											
Tapered roller bearings, cups	178,236	172,633	145,961	115,677	88,525	103,679	114,412	100,047	113,313	126,392	147,425

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Number in 1000s

Product Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Ball and Roller Bearings	937,463	948,390	997,483	1,178,054	1,234,010	1,472,281	1,491,358	1,520,577	1,601,844	1,621,845	1,703,501
Ball bearings, complete	432,305	438,300	433,179	534,878	518,987	585,777	583,412	591,799	608,508	604,431	602,669
Ball bearings, radial with od under 9mm,	3,808	4,193	3,893	5,569	5,856	w	w	6,953	w	w	w
Ball bearings, radial with od under 9mm, ABEC 1-3	955	729	w	w	764	1,185	1,230	1,288	w	w	w
Ball bearings, radial with od under 9mm, ABEC 5 +	2,853	3,464	w	w	5,092	w	w	5,665	5,905	5,542	5,308
Ball bearings, radial with od over 9mm to 30mm	52,317	48,454	54,216	61,456	71,208	83,098	90,663	86,886	86,738	84,791	86,344
Ball bearings, radial with od over 9mm to 30mm, ABEC 1-3	45,658	43,460	50,841	58,081	67,153	78,563	85,273	81,324	81,316	79,228	81,516
Ball bearings, radial with od over 9mm to 30mm, ABEC 5 +	6,659	4,994	3,375	3,375	4,055	4,535	5,390	5,562	5,422	5,563	4,828
Ball bearings, radial with od over 30mm to 52mm	65,969	84,807	89,799	98,058	113,839	124,325	129,630	129,889	132,645	127,088	120,217
Ball bearings, radial with od over 30mm to 52mm, ABEC 1-3	65,159	84,105	89,097	97,413	113,297	123,741	128,963	129,562	131,925	126,431	119,625
Ball bearings, radial with od over 30mm to 52mm, ABEC 5 +	810	702	702	645	542	584	667	719	720	657	592
Ball bearings, radial with od over 52mm to 100mm	20,125	24,076	21,946	22,523	29,418	40,306	33,479	37,928	38,894	36,362	35,668
Ball bearings, radial with od over 52mm to 100mm, ABEC 1-3	19,811	23,770	21,744	22,349	29,254	40,127	33,260	38,011	38,665	36,163	35,459
Ball bearings, radial with od over 52mm to 100mm, ABEC 5 +	314	306	202	174	164	179	219	214	229	199	209
Ball bearings, radial with od over 100mm	3,815	4,265	2,835	3,483	4,168	5,511	5,308	4,332	5,350	4,725	5,495
Ball bearings, radial with od over 100mm, ABEC 1-3	3,751	4,193	2,772	3,430	4,105	5,476	5,262	4,751	5,299	4,659	5,433
Ball bearings, radial with od over 100mm, ABEC 5 +	64	72	63	53	63	35	46	44	51	66	62
Ball bearings, unground	178,376	164,308	161,210	236,518	179,431	222,103	200,240	209,943	217,368	221,293	227,208
Ball bearings, double row	9,018	11,789	14,121	20,336	21,385	15,021	23,875	24,866	29,047	31,249	29,648
Ball bearings, radial, maximum capacity type, single row	1,678	1,864	1,106	1,228	975	1,095	1,368	1,245	1,520	1,696	1,110
Ball bearings, all other precision, ABEC 1	10,841	w	2,171	2,839	w	w	w	w	w	w	w
Ball bearings, ground, less than ABEC 1	11,505	11,376	w	4,428	3,934	4,780	4,826	w	6,498	5,582	4,318
Ball bearings with integral shafts	19,322	w	w	w	23,688	26,742	29,378	26,881	22,631	21,957	24,084
Ball bearings with integral shafts having an od <=30mm	6,388	6,074	4,671	w	5,090	na	na	na	na	na	na
Ball bearings with integral shafts having an od >30mm	12,934	w	w	w	18,598	na	na	na	na	na	na
Ball bearings, angular contact	6,011	6,026	6,121	7,181	7,035	7,292	7,767	7,585	7,369	6,718	w
Ball bearings, angular contact, regular								1,007	1,084	1,066	845
Ball bearings, angular contact, precision								6,578	6,285	5,652	w
Ball bearings, thrust	13,592	12,520	12,126	13,919	12,594	9,099	9,332	11,379	13,718	15,072	15,094
Ball bearings, thrust, ground	9,968	9,670	9,459	10,366	8,436	4,163	3,957	5,993	7,799	7,627	7,023
Ball bearings, thrust, unground	3,624	2,850	2,667	3,553	4,158	4,936	5,375	5,386	5,919	7,445	8,071
Ball bearings, linear	w	w	w	na	na	na	na	na	na	na	na
Ball bearings, nes (includes linear)	35,928	38,184	36,341	35,110	43,500	38,806	39,042	37,336	39,080	43,544	43,035
Tapered roller bearings	93,359	101,181	92,042	108,985	121,692	137,388	133,365	126,947	132,311	131,629	133,923
Tapered roller bearings, cup and cone assemblies	12,649	11,562	9,403	13,846	14,608	16,049	15,615	16,000	9,078	w	w
Tapered roller bearings, cone assemblies	81,575	94,510	84,905					w	125,052	124,328	w
Tapered roller bearings, cup and cone assemblies, shpd separately				190,278	214,167	242,678	235,500	221,893	w	w	w
Tapered roller bearings, cups	79,845	84,727	80,373					w	123,233	w	w

## Ball and Roller Bearing Shipments, 1978-1999

### Shipments from U.S. Factories, Number in 1000s

Product Description	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Roller Bearings	398,418	397,833	396,140	351,326	321,143	411,477	453,200	519,651	514,272	527,402	501,436
Cylindrical roller bearings	41,379	36,962	32,318	27,295	21,767	21,819	26,900	23,792	23,395	22,300	25,993
Cylindrical roller bearings, RBEC 1 and 3	41,124	36,673	32,055	26,933	21,509	21,601	26,685	23,573	23,127	21,933	25,699
Cylindrical roller bearings, RBEC 5	255	289	263	362	258	218	215	219	268	367	294
Needle roller bearings	336,562	344,573	349,600	312,655	288,506	374,626	408,960	476,660	470,830	486,017	454,437
Spherical roller bearings	2,461	2,535	1,669	1,660	1,101	1,046	1,148	1,109	1,149	1,389	1,356
Spherical roller bearings, single row	1,434	1,464	467	483	266	337	470	416	450	419	410
Spherical roller bearings, double row	1,027	1,071	1,202	1,177	835	709	678	693	699	970	946
Other roller bearings, nes	18,016	13,763	12,553	9,716	9,769	13,986	16,192	18,090	18,898	17,696	19,650
Mounted Bearings	19,636	20,818	17,065	11,008	8,951	10,096	12,459	14,002	15,391	12,830	14,319
Mounted ball bearings, unit and/or split mounted	18,332	19,323	15,738	9,935	7,972	9,178	11,265	12,828	13,943	11,597	12,827
Mounted roller bearings, unit mounted	1,196	1,366	1,215	923	856	802	1,030	1,008	1,297	973	1,220
Mounted roller bearings, split mounted	108	129	112	150	123	116	164	166	151	260	272

## Ball and Roller Bearing Shipments, 1978-1999

Product Description	Shipments from U.S. Factories, Number in 1000s										
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Roller Bearings	400,251	396,923	462,140	522,783	582,153	738,657	764,182	792,635	849,063	876,428	957,923
Cylindrical roller bearings	24,471	23,605	20,522	23,111	27,056	39,085	46,676	58,688	89,349	131,267	144,923
Cylindrical roller bearings, RBEC 1 and 3	24,192	23,335	20,280	22,938	26,926	38,947	46,543	56,161	89,151	131,066	144,749
Cylindrical roller bearings, RBEC 5	279	270	242	173	130	138	133	143	198	201	174
Needle roller bearings	317,650	305,951	392,198	456,499	507,513	638,187	650,293	661,881	658,099	612,089	657,697
Spherical roller bearings	1,547	1,595	1,331	1,255	1,238	1,213	1,328	1,177	w	w	w
Spherical roller bearings, single row	388	364	323	274	276	258	281	w	w	w	w
Spherical roller bearings, double row	1,159	1,231	1,008	981	962	955	1,047	867	808	766	719
Other roller bearings, nes	56,583	65,772	48,089	41,918	46,346	60,172	65,885	72,994	w	w	w
Mounted Bearings	11,548	11,986	10,122	11,408	11,178	10,459	10,399	9,196	9,240	9,357	8,986
Mounted ball bearings, unit and/or split mounted	10,259	10,720	8,986	10,258	9,833	9,195	9,054	7,904	8,112	8,172	7,853
Mounted roller bearings, unit mounted	1,124	1,112	960	1,002	1,187	1,112	11,160	1,137	1,005	1,005	981
Mounted roller bearings, split mounted	165	154	176	148	158	152	185	155	123	181	151

## Ball and Roller Bearing Shipments, 1978-1999

### Average Per Unit Shipment Values (Dollar Values/Unit Totals)

Product Description	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Ball and Roller Bearings	2.24	2.64	2.84	3.68	3.57	2.89	3.01	2.96	2.82	2.87	3.08
Ball bearings, complete	1.84	2.22	2.56	3.34	3.59	3.01	3.10	3.38	3.26	3.23	3.39
Ball bearings, radial with od under 9mm,	1.50	1.50	1.64	2.17	w	w	w	2.52	w	w	w
Ball bearings, radial with od under 9mm, ABEC 1-3	0.91	0.96	1.06	1.19	w	w	w	1.25	w	w	w
Ball bearings, radial with od under 9mm, ABEC 5 +	2.49	2.51	2.88	3.33	3.52	3.34	3.30	3.57	2.95	w	w
Ball bearings, radial with od over 9mm to 30mm	1.26	1.39	1.37	1.77	1.95	1.76	1.69	1.69	w	w	w
Ball bearings, radial with od over 9mm to 30mm, ABEC 1-3	1.10	1.22	1.14	1.42	1.59	1.42	1.38	1.28	1.38	1.45	1.42
Ball bearings, radial with od over 9mm to 30mm, ABEC 5 +	3.71	3.56	4.08	5.51	5.20	4.54	4.00	5.44	w	w	w
Ball bearings, radial with od over 30mm to 52mm	1.30	1.61	1.88	2.07	2.19	1.91	1.86	1.85	1.88	1.91	1.91
Ball bearings, radial with od over 30mm to 52mm, ABEC 1-3	1.21	1.49	1.67	1.74	1.82	1.60	1.56	1.54	1.48	1.50	1.53
Ball bearings, radial with od over 30mm to 52mm, ABEC 5 +	33.41	32.26	36.92	46.38	45.50	46.04	44.13	48.54	43.14	29.04	46.81
Ball bearings, radial with od over 52mm to 100mm	3.85	4.54	5.68	6.53	7.34	6.72	6.75	7.16	7.25	6.47	6.87
Ball bearings, radial with od over 52mm to 100mm, ABEC 1-3	3.54	4.12	4.80	5.42	5.99	5.57	5.63	5.74	5.32	5.09	4.84
Ball bearings, radial with od over 52mm to 100mm, ABEC 5 +	29.25	33.43	57.19	65.21	79.99	79.81	80.85	85.93	85.41	18.78	161.56
Ball bearings, radial with od over 100mm	23.93	30.86	35.63	46.69	53.76	49.99	43.86	46.92	48.81	25.43	52.55
Ball bearings, radial with od over 100mm, ABEC 1-3	21.91	28.90	29.14	36.29	41.99	38.81	32.50	34.46	32.69	26.11	34.87
Ball bearings, radial with od over 100mm, ABEC 5 +	34.71	38.46	137.17	168.64	156.01	150.35	369.05	393.05	377.65	24.40	634.28
Ball bearings, unground	0.31	0.36	0.40	0.46	0.47	0.44	0.46	0.51	0.46	0.51	0.52
Ball bearings, double row	2.93	6.05	8.00	8.97	9.16	7.60	7.76	7.46	7.02	6.08	9.09
Ball bearings, radial, maximum capacity type, single row	6.47	6.36	9.12	10.66	11.81	10.83	11.03	11.05	10.62	11.12	12.35
Ball bearings, all other precision, ABEC 1	w	4.53	w	w	w	w	w	w	w	4.00	5.17
Ball bearings, ground, less than ABEC 1	2.20	2.08	2.22	3.56	3.53	2.74	2.75	w	w	w	w
Ball bearings with integral shafts	w	0.00	w	w	w	w	w	w	w	w	w
Ball bearings with integral shafts having an od <=30mm	w	1.70	w	2.20	2.31	2.15	2.06	2.08	2.02	1.95	2.12
Ball bearings with integral shafts having an od >30mm	3.84	6.44	w	w	w	w	w	w	w	w	w
Ball bearings, angular contact	6.44	7.18	9.93	15.77	15.24	14.45	15.27	16.21	15.97	11.89	12.38
Ball bearings, angular contact, regular	w	2.74	w	3.77	4.52	3.60	3.52	3.59	3.30	3.26	3.39
Ball bearings, angular contact, precision	2.25	3.42	3.19	4.54	5.41	4.09	3.86	3.83	3.53	4.03	3.79
Ball bearings, thrust	w	1.11	w	1.80	1.83	1.97	2.27	2.50	2.24	1.90	2.58
Ball bearings, thrust, ground	w	w	w	w	w	w	w	w	w	w	w
Ball bearings, thrust, unground	1.07	1.23	1.70	1.92	5.14	1.75	1.83	1.91	2.22	2.10	2.53
Ball bearings, linear											
Ball bearings, nes (includes linear)	4.24	5.03	5.49	7.22	7.00	5.80	5.99	6.48	5.34	5.49	4.69
Tapered roller bearings	9.82	12.66	17.33	16.13	16.53	11.02	9.70	11.91	10.35	9.91	9.42
	2.40	2.75	2.75	3.94	3.91	3.40	3.55	3.94	3.37	3.53	2.89
Tapered roller bearings, cup and cone assemblies											
Tapered roller bearings, cone assemblies	1.14	1.31	1.31	1.98	1.83	1.69	1.94	1.88	1.44	1.51	1.34
Tapered roller bearings, cup and cone assemblies, shpd separately											
Tapered roller bearings, cups											

## Ball and Roller Bearing Shipments, 1978-1999

### Average Per Unit Shipment Values (Dollar Values/Unit Totals)

Product Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Ball and Roller Bearings	3.82	3.87	3.56	3.16	3.13	2.82	3.09	3.21	3.15	3.20	3.05
Ball bearings, complete	3.29	3.33	3.25	2.77	3.12	2.86	3.23	3.36	3.43	3.35	3.24
Ball bearings, radial with od under 9mm,	4.09	3.44	4.19	3.36	3.95	w	w	3.63	w	w	w
Ball bearings, radial with od under 9mm, ABEC 1-3	2.75	2.64	w	w	2.43	2.16	2.44	w	w	w	w
Ball bearings, radial with od under 9mm, ABEC 5 +	4.54	3.61	w	w	4.18	w	w	3.93	4.13	4.04	4.05
Ball bearings, radial with od over 9mm to 30mm	2.19	2.11	1.77	1.67	1.47	1.43	1.46	1.60	1.71	1.66	1.55
Ball bearings, radial with od over 9mm to 30mm, ABEC 1-3	1.33	1.16	0.91	0.91	0.90	0.89	0.92	0.96	0.98	0.97	0.89
Ball bearings, radial with od over 9mm to 30mm, ABEC 5 +	8.08	10.34	14.70	14.70	10.96	10.75	10.06	10.98	12.73	11.48	12.61
Ball bearings, radial with od over 30mm to 52mm	2.31	1.90	1.94	1.79	1.62	1.64	1.70	1.82	1.90	1.84	1.83
Ball bearings, radial with od over 30mm to 52mm, ABEC 1-3	1.69	1.44	1.49	1.43	1.35	1.37	1.41	1.50	1.55	1.51	1.50
Ball bearings, radial with od over 30mm to 52mm, ABEC 5 +	51.68	56.35	59.18	56.84	58.14	57.99	58.50	65.08	64.97	66.35	68.70
Ball bearings, radial with od over 52mm to 100mm	7.80	7.75	7.59	7.84	6.72	5.83	6.77	6.34	6.40	6.81	6.50
Ball bearings, radial with od over 52mm to 100mm, ABEC 1-3	6.10	6.28	6.15	6.69	5.88	5.17	5.87	5.68	5.49	5.97	5.66
Ball bearings, radial with od over 52mm to 100mm, ABEC 5 +	115.22	122.01	163.18	155.56	156.60	153.96	143.39	160.73	159.97	158.62	150.08
Ball bearings, radial with od over 100mm	40.28	41.09	52.01	45.39	39.83	31.22	37.54	57.77	45.41	46.33	39.40
Ball bearings, radial with od over 100mm, ABEC 1-3	29.91	30.71	38.95	34.07	31.47	25.97	31.48	37.92	36.56	37.90	32.36
Ball bearings, radial with od over 100mm, ABEC 5 +	648.56	645.85	626.78	777.64	584.63	852.54	730.63	876.45	964.37	641.39	656.60
Ball bearings, unground	0.51	0.50	0.49	0.36	0.58	0.55	0.60	0.60	0.59	0.61	0.59
Ball bearings, double row	6.48	6.84	6.36	6.60	6.34	7.42	7.19	6.92	6.92	6.70	6.51
Ball bearings, radial, maximum capacity type, single row	12.34	14.49	16.96	15.20	17.12	16.29	17.39	17.93	16.25	13.91	12.79
Ball bearings, all other precision, ABEC 1	6.20	w	8.13	7.50	w	w	w	w	w	w	w
Ball bearings, ground, less than ABEC 1	5.12	5.46	w	6.60	6.46	5.19	6.14	w	6.78	9.35	9.96
Ball bearings with integral shafts	14.63	w	w	w	14.00	11.32	11.00	12.65	14.64	14.35	14.59
Ball bearings with integral shafts having an od <=30mm	2.35	2.34	2.44	w	2.53	w	w	w	w	w	w
Ball bearings with integral shafts having an od >30mm	20.70	w	w	w	17.13	w	w	w	w	w	w
Ball bearings, angular contact	16.15	17.31	21.92	20.72	20.18	20.99	24.40	17.69	21.18	23.19	w
Ball bearings, angular contact, regular								75.69	67.37	73.86	72.97
Ball bearings, angular contact, precision								13.76	13.22	13.63	w
Ball bearings, thrust	3.24	3.32	3.30	3.09	3.26	3.96	4.18	3.44	3.32	2.92	2.61
Ball bearings, thrust, ground	3.74	3.77	3.59	3.53	4.04	6.75	6.98	4.56	4.25	4.19	3.80
Ball bearings, thrust, unground	1.86	1.80	2.24	1.80	1.69	1.61	2.11	2.19	2.10	1.62	1.58
Ball bearings, linear	w	w	w	w	w	w	w	w	w	w	w
Ball bearings, nes (includes linear)	2.99	3.22	3.40	3.24	3.29	3.78	4.41	5.50	5.76	5.52	5.36
Tapered roller bearings	10.32	9.66	9.53	8.58	8.23	8.29	9.62	11.10	10.74	11.69	11.87
Tapered roller bearings, cup and cone assemblies	23.42	24.74	27.74	20.20	19.95	21.93	27.10	w	w	w	w
Tapered roller bearings, cone assemblies	5.49	4.99	4.90	w	w	w	w	w	w	5.10	w
Tapered roller bearings, cup and cone assemblies, shpd separately	w	w	w	3.45	3.31	3.24	3.65	w	w	w	w
Tapered roller bearings, cups	2.75	2.60	2.49	w	w	w	w	w	2.41	w	w

## Ball and Roller Bearing Shipments, 1978-1999

### Average Per Unit Shipment Values (Dollar Values/Unit Totals)

Product Description	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Roller Bearings	1.28	1.47	1.52	2.03	1.85	1.43	1.50	1.36	1.37	1.40	1.66
Cylindrical roller bearings	4.74	6.18	7.53	11.05	11.03	9.30	8.37	9.20	9.42	9.78	8.97
Cylindrical roller bearings, RBEC 1 and 3	4.11	5.22	6.20	8.64	7.79	5.96	5.77	5.98	5.95	5.18	5.78
Cylindrical roller bearings, RBEC 5	105.98	128.09	169.32	190.29	281.72	340.25	332.16	355.89	308.81	284.64	287.73
Needle roller bearings	0.51	0.58	0.56	0.71	0.65	0.62	0.70	0.64	0.67	0.65	0.83
Spherical roller bearings	47.06	51.45	79.23	93.50	112.31	98.41	102.91	113.09	100.09	100.58	114.28
Spherical roller bearings, single row	16.85	19.07	31.28	38.19	57.15	42.67	31.78	37.22	38.48	46.60	58.97
Spherical roller bearings, double row	89.24	95.70	97.86	116.20	129.88	124.91	152.22	158.63	139.75	123.90	138.24
Other roller bearings, nes	1.53	2.14	2.62	3.57	4.60	3.50	3.06	3.21	2.79	3.61	3.43
Mounted Bearings	11.40	12.30	15.16	25.44	26.80	24.29	23.75	21.64	19.37	23.82	25.02
Mounted ball bearings, unit and/or split mounted	7.20	7.68	9.19	14.51	16.36	16.00	14.64	13.15	11.98	14.81	15.42
Mounted roller bearings, unit mounted	66.14	67.50	78.13	118.18	101.09	101.89	107.96	107.76	85.92	111.24	104.28
Mounted roller bearings, split mounted	117.79	119.94	170.81	178.51	186.75	143.72	120.41	154.67	130.64	98.82	122.24

## Ball and Roller Bearing Shipments, 1978-1999

### Average Per Unit Shipment Values (Dollar Values/Unit Totals)

Product Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Roller Bearings	2.12	2.20	1.72	1.48	1.39	1.27	1.29	1.28	1.35	1.33	1.25
Cylindrical roller bearings	9.48	10.27	10.86	8.54	6.68	5.66	4.48	3.78	3.15	2.33	2.07
Cylindrical roller bearings, RBEC 1 and 3	5.78	6.02	6.40	5.51	4.51	4.13	3.23	2.88	2.33	1.72	1.59
Cylindrical roller bearings, RBEC 5	330.94	377.95	384.49	409.73	454.25	437.09	439.38	401.14	405.75	403.05	404.64
Needle roller bearings	1.14	1.15	0.79	0.75	0.77	0.73	0.76	0.75	0.77	0.86	0.86
Spherical roller bearings	125.68	130.76	139.54	136.07	138.40	144.40	150.56	171.42	w	w	w
Spherical roller bearings, single row	73.36	72.46	74.64	71.10	69.79	75.45	74.30	w	w	w	w
Spherical roller bearings, double row	143.19	147.99	160.34	154.22	158.08	163.03	171.03	204.94	236.17	231.97	229.43
Other roller bearings, nes	1.09	1.07	1.54	1.46	1.41	1.26	1.31	1.28	w	w	w
Mounted Bearings	29.87	30.28	46.95	46.57	39.31	38.99	44.11	49.85	46.11	48.16	49.78
Mounted ball bearings, unit and/or split mounted	18.21	18.42	35.93	36.85	24.26	23.82	27.60	31.09	28.78	28.15	28.67
Mounted roller bearings, unit mounted	116.74	123.38	126.63	125.70	141.45	140.39	15.46	157.19	163.39	186.13	200.72
Mounted roller bearings, split mounted	163.39	183.49	174.89	184.59	208.23	214.70	195.89	219.43	230.80	185.24	167.55