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Bearings

US Industry Study with Forecasts for 2011 & 2016

Study #2207 | July 2007 | \$4500 | 263 pages



This study was prepared with the special cooperation of the American Bearing Manufacturers Association, and includes data based on an exclusive survey of ABMA members.

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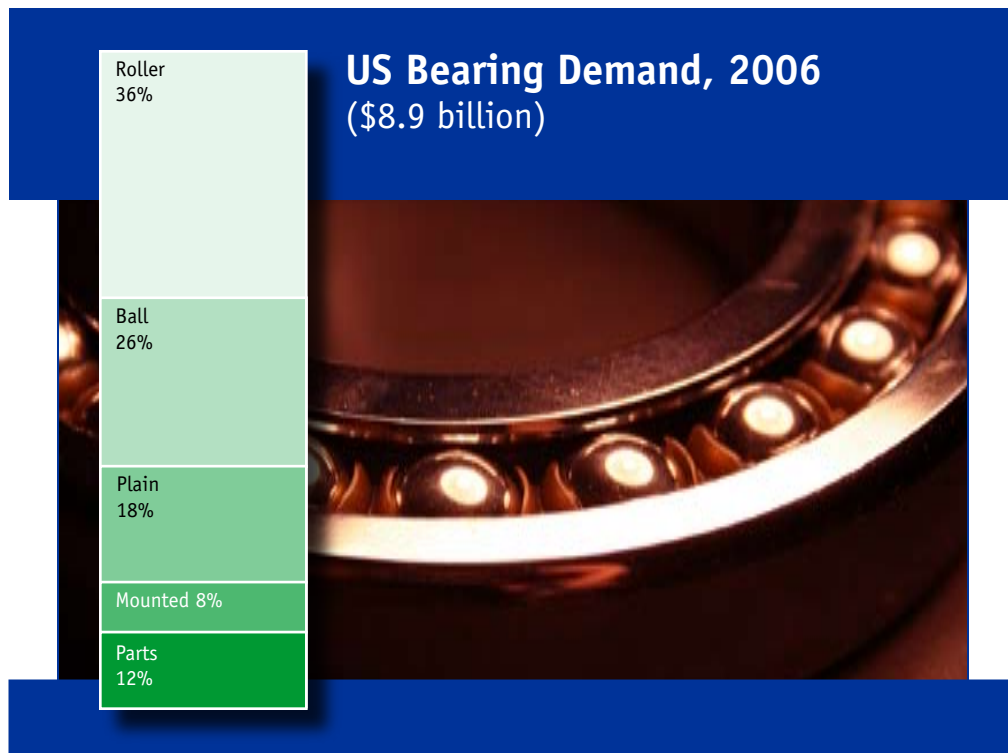
A shift toward more expensive, better performing bearings will counteract the effect of longer bearing life, as high energy prices make highly efficient bearings a more attractive investment.

US demand to reach \$10.4 billion in 2011

Ball, roller and plain bearing demand in the US is forecast to rise 3.1 percent per year through 2011 to \$10.4 billion. Suppliers will benefit from largely favorable economic conditions, with an acceleration in aerospace equipment output growth and an upturn in motor vehicle production driving demand. In addition, a pickup in nonresidential investment will help boost demand for bearings used in both original equipment manufacturing (OEM) and maintenance/repair/operations (MRO) applications. Market gains will be constrained by a deceleration in overall durable goods output as US companies continue to move manufacturing operations to offshore areas where labor costs are lower. Significant increases in average bearing life, attributable to the use of improved product designs, better-quality materials and better lubricants, will also dampen growth in aftermarket sales. However, a shift in the product mix toward more expensive, better performing products will provide a counterbalance, supported in part by high energy prices, which will make highly efficient bearings a more attractive investment.

Unmounted plain bearings to be fastest growing

The strongest market gains through 2011 will be posted by unmounted plain bearings, benefitting from renewed strength in US production of aerospace



equipment and motor vehicles, which represent major plain bearing markets. Plain bearings are also less costly than rolling-element types, which will help fuel sales as improvements continue to be made in plain bearing designs. Demand for bearing parts and unmounted roller bearings will climb at above-average rates as well. Bearing part sales will be driven by increases in US output of finished bearings and the number of bearing-containing products (aircraft, automobiles, industrial equipment, etc.) in use, while roller bearing demand will be stimulated by higher production levels in industries such as motor vehicles and turbines, with an acceleration in capital expenditure growth supporting increases in both OEM and aftermarket demand.

OEM bearing applications to remain dominant

OEM bearing applications, which currently account for four-fifths of all demand, are projected to register the strongest advances through 2011. Market conditions will be particularly strong in the aerospace equipment, automotive, and engine, turbine and power transmission equipment manufacturing markets. MRO bearing demand will be spurred by a pickup in business investment spending, boosting the stock of bearing-containing equipment in use, with nonautomotive transportation equipment repair and federal government purchases forecast to grow the fastest.

Sample Text, Table & Chart

PRODUCTS

Roller Bearings

The market for unmounted roller bearings is forecast to reach \$2.5 billion, a moderate increase from \$2.2 billion in 2006. Demand for bearings in original equipment is expected to grow with an acceleration in 2007, driven by OEM and after-market demand. This will boost roller bearing sales. Further advances in roller bearing design will help support market gains. In April 2007, for instance, NTN announced that volume production had begun of what the firm reports is the world's smallest tapered roller bearing, which is engineered to replace ball bearings in applications such as gearboxes.

However, the increased durability of new roller bearings will act as a counterbalance, reducing MRO product requirements, and an ongoing shift in durable goods manufacturing activity from the US to lower-cost areas like China and India will limit future sales opportunities. On the other hand, the movement of manufacturing activity offshore has not affected a number of the heavier load industries (such as large industrial and mining machinery) that utilize sizable quantities of roller bearings, as much as it has lighter load industries (like small home appliances and sporting goods) that are bigger consumers of ball bearings. In fact, domestic production of items such as commercial wind turbines is expected to grow substantially, boosting demand for large roller bearings.

Roller bearing shipments are projected to climb steadily through 2011 to \$3.9 billion, approximating increases seen in 2006 and rising enough for the nation to maintain a positive trade balance on these products, with tapered and needle bearings accounting for the surplus. US manufacturers will benefit from both favorable market conditions and growing product demand in other

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TABLE III-7

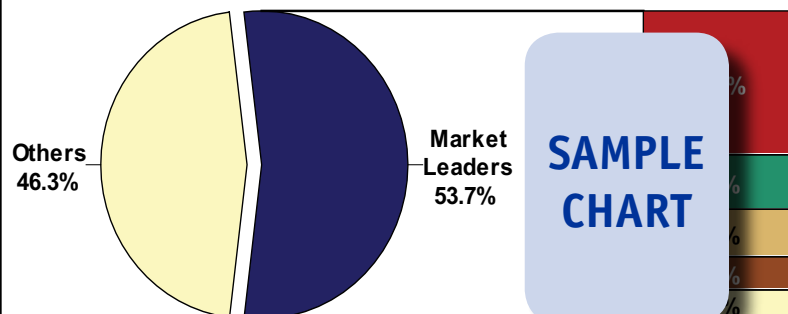
TAPERED ROLLER BEARING SUPPLY & DEMAND
(million dollars)

Item	1996	2001	2006	2011	2016
Roller Bearing Demand % tapered					
Tapered Bearing Demand					
Cup & Cone Assembly Sets					
Cups Shipped Separately					
Cone Assemblies Shipped Separately					
- imports					
+ exports					
Tapered Roller Bearing Shipments					

SAMPLE TABLE

CHART V-1

US BEARING MARKET SHARE BY COMPANY, 2006
(\$8.9 billion)



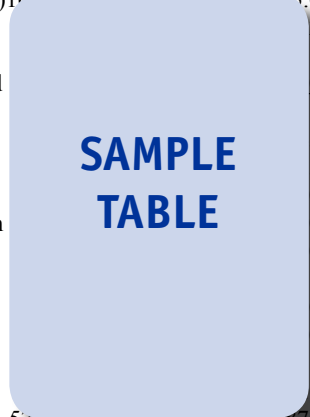
SAMPLE CHART

Sample Profile, Table & Forecast

TABLE IV-6
INDUSTRIAL MACHINERY BEARING DEMAND
 (million dollars)

Item	1996	2001	2006	2011	2016
Industrial Machinery Shipments (bil \$)	162.0	165.7	188.7	200.0	215.0
\$ bearings/000\$ machinery	1.2	1.2	1.2	1.2	1.2
Industrial Machinery Bearing Demand	1.9	1.9	1.9	1.9	1.9
By Machinery Type:					
General Purpose	1.5	1.5	1.5	1.5	1.5
Metalworking	0.5	0.5	0.5	0.5	0.5
Commercial & Service Industry	0.0	0.0	0.0	0.0	0.0
HVAC/Commercial Refrigeration	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0
By Bearing Type:					
Ball & Roller*	0.0	0.0	0.0	0.0	0.0
Plain*	0.0	0.0	0.0	0.0	0.0
% industrial machinery	0.0	0.0	0.0	0.0	0.0
OEM Bearing Demand	5732	5910	7140	8400	9870

* Includes mounted & unmounted bearings, & associated parts Source: The Freedonia Group, Inc.



COMPANY PROFILES

Frantz Manufacturing Company

603 First Avenue
 Sterling, IL 61081
 815-625-3333
 http://www...



Annual S
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 Key Pro

Frantz Manufacturing Company is a manufacturer of conveyor bearings, end cup adapters, conveyor wheels, trolley wheels, ball transfers, and stud- and flange-mount ball transfers through t...

The Company is active in the US bearing industry via both divisions. Through the Bearings division (Sterling, Illinois), Frantz manufactures conveyor bearings, end cup adapters, conveyor wheels, trolley wheels, ball transfers, and stud- and flange-mount ball transfers. These products are sold under the FRANTZ umbrella brand name and are primarily used in unit handling conveyor systems.

The Company's line of conveyor bearings includes the GEN II and GENSTAR product lines. GEN II conveyor bearings are made with carbon steel balls and are manufactured via a proprietary process that ensures a precise fit-up between raceways and balls. These bearings are designed to outlast standard conveyor bearings by as much as ten times, and to operate at speeds of up to ten-times faster than standard conveyor bearings. Specifically, GEN II bearings can operate at speeds of up to 600 surface feet per minute.

GENSTAR conveyor bearings are marketed for use in high-speed, live roller applications where speed, sound reduction and weight

"Bearing Market -- The industrial machinery OEM market for ball, roller and plain bearings is forecast to grow at a 1.5 percent annual pace to \$1.1 billion in 2011, moderating from the 2001-2006 period. Sales advances will be limited by a slowdown in industrial equipment production, particularly for general purpose machinery (fans and blowers, packaging machines, pumps and compressors, etc.), and HVAC and commercial refrigeration equipment. In addition, ..."
 --Section IV, pg. 105

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OTHER STUDIES

Industrial Castings

US industrial castings demand will reach \$35 billion in 2011, supported by gains in smaller markets such as aerospace and electrical/electronic equipment. Shipments of nonferrous types will accelerate, led by magnesium-based castings. Ferrous castings will continue to lose market share to nonferrous, both in value and tonnage. This study analyzes the 15.8 billion ton US industrial castings industry, with forecasts given for 2011 and 2016 by type and market. It also details market share and profiles major players.

#2214 07/2007..... \$4400

Elevators in China

Elevator/escalator product and service demand in China will grow 9.7% yearly through 2011. Gains will be driven by strong new construction spending (especially on multifamily buildings) and on nonresidential establishments. New product installations will remain dominant over the elevator service segment. This study analyzes the ¥39 billion Chinese elevator/escalator industry, with forecasts for 2011 and 2016 by type, market and region. It also evaluates market share and profiles industry participants.

#2216 07/2007..... \$4900

Gaskets & Seals

US demand for gaskets and seals will grow 3.6% annually through 2010. Gains will be supported by an improved economic outlook and increasing penetration of more advanced materials. Molded seals and packings, plastic gaskets, expanded graphite gaskets and metallic gaskets will grow the fastest. Aerospace will see the most rapid gains by market. This study analyzes the \$7.3 billion US gasket and seal industry to 2010 and 2015 by product and market. It also evaluates market share and profiles major firms.

#2150 02/2007..... \$4300

World Material Handling Products

Global material handling product demand will grow 4.5% yearly through 2010, led by developing countries such as China, India, Turkey, Mexico and Russia. Western Europe and Japan will show renewed strength and the US market will accelerate. Automated products such as robots and AGVs will lead gains. This study analyzes the \$93.8 billion world material handling industry to 2010 and 2015 by product, market, world region and for 37 countries. It also details market share and profiles major players.

#2113 11/2006..... \$5300

World Bearings

Global bearings demand will rise 5.5% yearly through 2010 based on higher manufacturing production and rising aerospace and motor vehicle output. Market advances in the developing world will significantly outpace demand in the US, Europe and Japan. China will register the largest gains, with growth in India, Thailand and Brazil also strong. This study analyzes the world bearings industry to 2010 and 2015 by market, product, world region and for 30 countries. It also details market share and profiles major players.

#2081 07/2006..... \$5300

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