

Productivity in the Ball and Roller Bearing Industry 1978-1999

| | Price Indexes | | | | | BLS PPI Based Productivity Estimates | | | CIR MA332Q Index Productivity Estimates | | |
|-------------|---------------|---------|--------------------|-----------|----------------|--------------------------------------|---------------------|--------------------------|---|---------------------|--------------------------|
| | BLS PPI | CIR PPI | Historic Shipments | Employees | Employee Hours | Output | Output per Employee | Output per Employee Hour | Output | Output per Employee | Output per Employee Hour |
| 1978 | 57.8 | 78.02 | 84.1 | 136.6 | 131.4 | 145.5 | 106.5 | 110.7 | 107.9 | 79.0 | 82.1 |
| 1979 | 63.7 | 92.16 | 97.1 | 141.1 | 138.3 | 152.5 | 108.1 | 110.2 | 105.4 | 74.7 | 76.2 |
| 1980 | 74.3 | 99.05 | 99.5 | 140.1 | 136.3 | 133.8 | 95.5 | 98.2 | 100.4 | 71.7 | 73.7 |
| 1981 | 85.4 | 128.40 | 111.9 | 139.0 | 135.0 | 131.0 | 94.3 | 97.1 | 87.2 | 62.7 | 64.6 |
| 1982 | 93.0 | 124.53 | 87.0 | 116.7 | 109.1 | 93.6 | 80.2 | 85.8 | 69.9 | 59.9 | 64.0 |
| 1983 | 93.0 | 100.85 | 82.4 | 104.1 | 101.5 | 88.6 | 85.1 | 87.3 | 81.7 | 78.5 | 80.5 |
| 1984 | 95.7 | 104.93 | 106.7 | 116.2 | 116.9 | 111.5 | 96.0 | 95.4 | 101.7 | 87.5 | 87.0 |
| 1985 | 98.4 | 103.07 | 99.8 | 111.9 | 110.7 | 101.4 | 90.6 | 91.6 | 96.8 | 86.5 | 87.5 |
| 1986 | 99.5 | 98.27 | 96.8 | 104.4 | 103.4 | 97.3 | 93.2 | 94.1 | 98.6 | 94.4 | 95.3 |
| 1987 | 100.0 | 100.00 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1988 | 106.0 | 107.27 | 113.0 | 102.2 | 103.8 | 106.6 | 104.5 | 102.9 | 105.4 | 103.1 | 101.5 |
| 1989 | 116.4 | 133.07 | 120.5 | 104.1 | 104.6 | 103.5 | 99.4 | 99.0 | 90.5 | 87.0 | 86.6 |
| 1990 | 122.2 | 134.94 | 117.2 | 103.6 | 102.9 | 95.9 | 92.5 | 93.1 | 86.9 | 83.9 | 84.4 |
| 1991 | 127.1 | 124.14 | 109.0 | 98.5 | 95.7 | 85.8 | 87.1 | 89.6 | 87.8 | 89.2 | 91.8 |
| 1992 | 129.1 | 110.18 | 116.2 | 94.2 | 92.1 | 90.0 | 95.6 | 97.8 | 105.5 | 112.0 | 114.5 |
| 1993 | 131.3 | 109.13 | 123.4 | 90.3 | 90.5 | 94.0 | 104.1 | 103.8 | 113.1 | 125.3 | 125.0 |
| 1994 | 134.2 | 98.45 | 134.1 | 90.6 | 94.0 | 99.9 | 110.3 | 106.3 | 136.2 | 150.3 | 144.9 |
| 1995 | 139.9 | 107.81 | 145.3 | 94.4 | 97.5 | 103.9 | 110.1 | 106.6 | 134.8 | 142.8 | 138.2 |
| 1996 | 145.4 | 111.71 | 148.3 | 96.4 | 97.7 | 102.0 | 105.9 | 104.4 | 132.8 | 137.7 | 135.9 |
| 1997 | 150.0 | 109.86 | 166.6 | 97.3 | 99.2 | 111.1 | 114.2 | 112.0 | 151.6 | 155.8 | 152.9 |
| 1998 | 152.0 | 111.38 | 169.9 | 101.0 | 100.7 | 111.8 | 110.7 | 111.1 | 152.6 | 151.1 | 151.5 |
| 1999 | 153.7 | 106.19 | 164.0 | 98.8 | 97.7 | 106.7 | 108.0 | 109.2 | 154.4 | 156.3 | 158.0 |

Change between 1978-1999

-1.36%

92.53%