



Highly Efficient Gear Technology

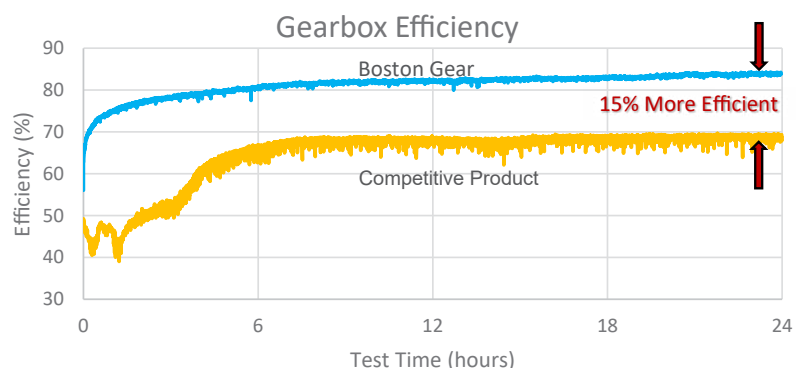
By Boston Gear

Industry leaders like Boston Gear are continuously improving gear design and manufacturing technology.

Worm gear performance will vary dramatically based on the technology infused into the design and manufacturing process. To provide an unbiased perspective and prove the superiority of the Boston Gear 700 series, Avera Test Systems was hired to conduct an independent test review of competitive products to their respective name plate ratings.

The following data shows the results of Test Report 021979-4500351135-20-001. The test subjects were both a Cast Iron 1.75 inch center distance worm gear speed reducer with a 30:1 ratio.

- Boston Gear's 718-30K-H1 achieved 15% higher operating efficiency than the competitive product
- Boston Gear ran 71 degrees F cooler than the competitive product



The Boston Gear Service Advantage

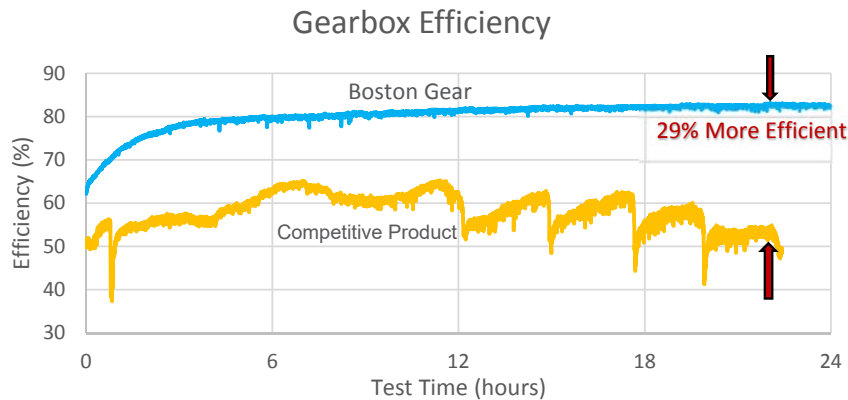
- Standard **1 day leadtime** on any cataloged SS700 Series product
- Standard **2 day leadtime** on Cast Iron 700 Series
- Same day break down service
- After hours/holiday hotline: **704-688-7350**
- Stocked at local and regional distribution centers

The Stainless Product Advantage

- NSF Certified SS700
- IP69K sealing solutions
- Sealed motor flange
- Electropolished exterior finish
- Covered hardware
- Maintenance friendly features
- Quill or coupled motor mounting options

The following data shows the results of Test Report 021979-4500351135-20-003. The test subjects were both a stainless steel 1.75 inch center distance worm gear speed reducer with a 30:1 ratio.

- Boston Gear's SS718-30K-H1 achieved 29% higher operating efficiency than the competitive product
- Boston Gear ran 206 degrees F cooler than the competitive product



Based on the above findings, the Boston Gear 700 series products will run cooler, more efficiently and last longer than the competition. In both tests, Boston Gear met AGMA temperature rise standards while the competition did not.

Cooler operating temperature provides:

- Increased oil life
- Increased seal life
- Longer gearbox life

Higher efficiency gearing provides:

- Electrical energy savings
- Longer motor life
- Downsizing opportunities

In this comparison, a Boston Gear 700 series gearbox coupled with a single 1 HP motor would provide electric energy savings of \$126.05 annually (based on an electricity rate of \$0.12/kWh running 2 shifts per day 5 days/week). For production facilities that operate hundreds of gearboxes, the potential electric savings provided by Boston Gear would be substantial.

For more information, contact your local sales manager or our technical support team at **1-800-816-5608** or visit us at www.bostongear.com.