

GEAR OLOGY

APRIL 14, 2009

UNIFICATION PROJECT YIELDS HIGHER TORQUE RATINGS

With the cast iron worm gear reducer unification and Electra-Gear redesign project, torque ratings will be 25% to 30% higher than the original designs. The increase will effect the Grove Gear and Electra-Gear worm gear reducers.

To maximize the rating increase, the gear reducers

will have PAG synthetic lube as standard, a new gear material will be used and a new worm manufacturing process will be utilized.

For additional information, please contact your local sales representative.



BENEFITS OF THE ELECTRA-GEAR REDESIGN

Improved Leadtimes: The original Electra products had typical leadtimes of 5-7 days to 5-6 weeks. By standardizing on internal components from the cast iron product, the Electra and Grove worm reducers will now follow the same assembly process flow, enabling leadtimes as fast as 1 day.

Single Piece Housing: The original design was a 2-part housing with many areas of potential particle entrapment in food applications. The center split in the housing created several potential leak paths. The new design has a single piece housing with rounded corners and smooth exterior surfaces with a uniform finish and minimized potential for leakage.

Eliminate Gaskets and Sealants: The new design uses no gaskets or sealants like the original design. All covers are sealed with o-rings. Potential leak paths are minimized.

Increased Ratings: By utilizing the gearing from the cast iron product line, the Electra product will have 25-30% more torque capacity than original design to allow smaller case sizes given the same motor size as before.

Interchangability to "Industry" Footprint: The original Electra design has a unique footprint, limiting its interchangability to any other worm products. The new housing will be machinable to match bolt pattern and shaft height of common cast iron

worm reducers like Boston Gear, Browning, Morse, Dodge and even Grove Gear.

Improve Quality Through Design-for-Assembly Principles: The original Electra used outdated worm reducer assembly techniques, which led to lower than desirable repeatability and increased probability of leaks.

Improved Marketability: The new design will be packed with premium features as standard, including viton rubber cased seals, synthetic lube, higher ratings, single output cover design and input quill guard. Add this to the good looks of a paint-free, uniform external finish, it lends itself well to replace traditional painted reducers in washdown applications.

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GROVE GEAR



ELECTRA-GEAR