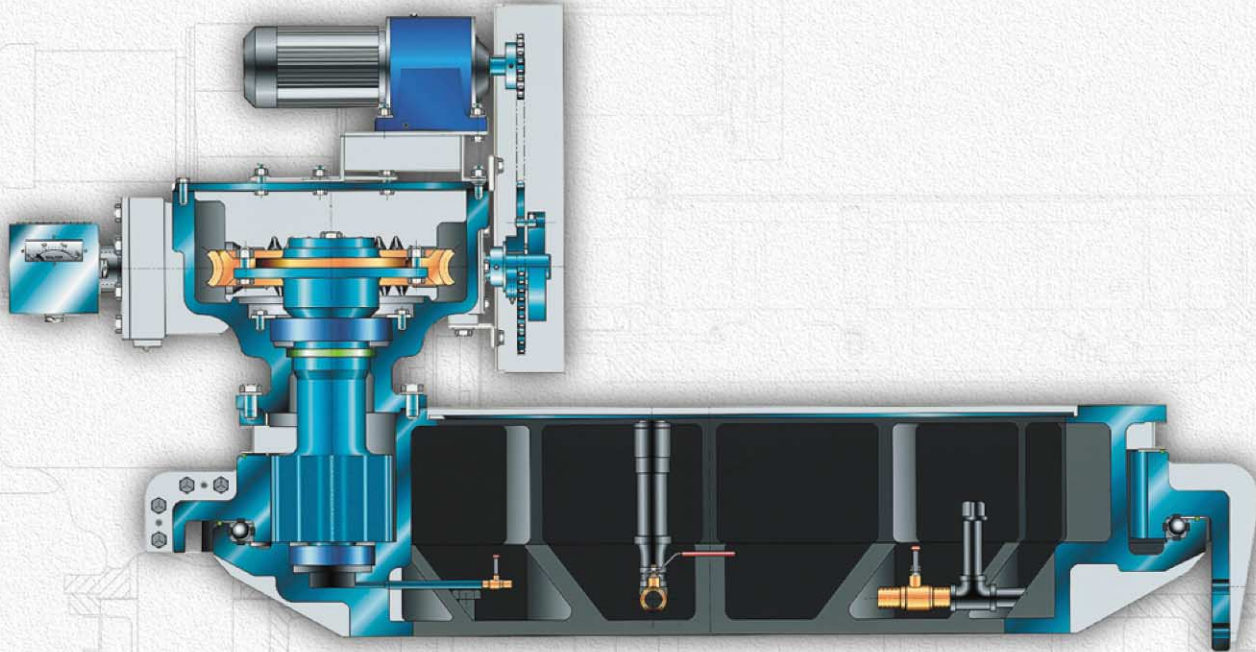


Drive Units for Circular Collectors



Division of McNish Corporation



Precision Drives: Built for Decades of Service

Walker Process Equipment Spur Gear Drives are precision Class 6 gear assemblies (after heat treatment) and include a split spur gear ring that allows access to replaceable bearing race inserts. Housings are machined from cast iron to provide the highest level of precision and superior corrosion resistance for a very long, useful life. The drive and torque ratings are in full conformance and certifiable to the latest ANSI/AGMA standards.

Walker Process Equipment Worm Gear Drives for bridge supported collectors consist of a single piece alloy steel worm and worm shaft matched to a centrifugally cast manganese bronze or cast iron worm gear and housed in a precisely machined, high grade, cast iron housing. The drives are simple, rugged, and provide extra long life with minimal maintenance.



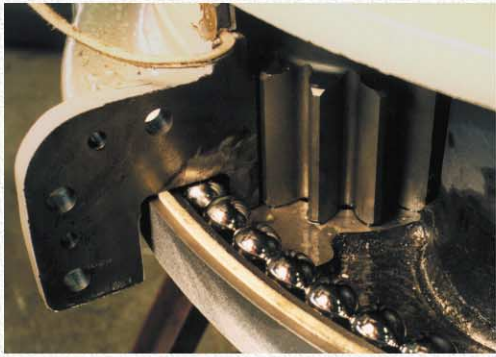
**Pier Supported
Spur Gear Drive Units**

- Cast Iron Housings
- Split Ductile Iron Gear Ring
- Replaceable Race Inserts
- Ratings Certifiable to ANSI/AGMA
- Oil Lubricated
- AGMA Precision Class 6
- Exceptional Corrosion Resistance



**Bridge Supported
Worm Gear Drive Units**

- Cast Iron Housings
- Centrifugally Cast Bronze or Cast Iron Worm Gear
- Single Piece Alloy Steel Worm Shaft
- Ratings Certifiable to ANSI/AGMA
- Oil Lubricated
- Very High Overload Capacity
- Extreme Corrosion Resistance

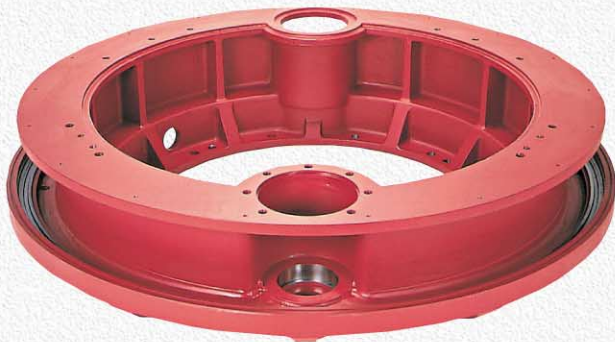


The Walker Process Difference:

Main Bearing L_{10} life can be calculated to substantially exceed 20 years. Through-hardened and ground replaceable race inserts and the highest quality chrome steel bearing balls assembled to precision tolerances optimize the bearing performance.

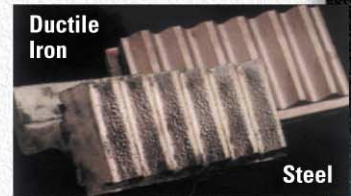
The cast iron housing provides exceptional rigidity, structural support and superior dampening properties which reduce the effects of vibration and offer better corrosion resistance compared to fabricated steel housings.

Spur gear rings are machined from ASTM A536 ductile iron, grade 120-90-02. Teeth are cut to a minimum AGMA quality 6 in conformance with ANSI/AGMA 2000 (after heat treatment)



Cast Iron Housing

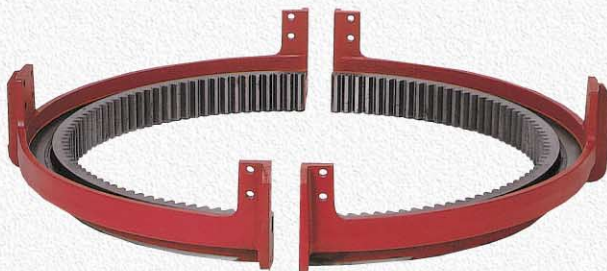
The spur gear ring is machined from ASTM A536 ductile iron. The carefully chosen heat-treated ductile iron used in Walker Process drives has a very fine pearlitic microstructure that exhibits corrosion resistance superior to that of steel.



The single-piece alloy steel pinion and worm shaft is machined to a minimum AGMA class 8 quality. Designed with a conservatively low aspect ratio, the pinion and shaft are straddle mounted between roller bearings to eliminate an overhung load design.



The alloy steel worm and worm shaft is machined from a single piece to avoid the wear and corrosion that plague a shell worm. The centrifugally cast manganese bronze worm gear is located in a cast iron housing that has a full 360° mounting surface to the spur gear housing.



Spur Gear Ring

Walker drive units are oil lubricated—the preferred method of lubricating machine parts. Oil lubrication, as opposed to grease, allows for the easy removal of condensate, flushing of debris and requires changing only once every six months.



Superior Design, Use of the Highest Grade Materials and Precision Machining Make Walker Process Drives the Most Advanced Drive Assembly Available Today.

Walker Process Equipment

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