The **Strong** Silent Type

VORTEX

Worm Gear Speed Reducers
Bronze Worm Gear
Bronze worm gears reduce friction and provide higher efficiency than cast iron worm gears.

Ground Gearing
Gears are ground, not rolled. This allows the gears to transmit more horsepower, run quieter, and last longer.

1. Seals
Double-lip oil seals ride on shafts with ground seal seats. This minimizes oil leakage and provides longer seal life.

2. Shafts
Input and output shafts are one-piece, heat-treated, high-chromium-content steel, giving them high strength. Input and output shafts also have centerless ground bearing seats that provide ideal shaft fits for longer bearing life.
At Vortex, we build reducers that are strong enough to handle the toughest applications. Our reducers are designed for rugged reliability and smooth-running performance. Check out the features found in every Vortex reducer that make it better than the competition.

When we say Vortex is "The Strong Silent Type", we mean it.

**3 Rigid Cast Iron Housing**
Since cast iron undergoes less thermal expansion and is more rigid than aluminum, a cast iron housing eliminates bearing preload and leaking oil seals found in competitors' aluminum-housed reducers.

**4 Cast Iron NEMA C Flange**
Use of NEMA C input flanges allows for the use of common off-the-shelf motors.

**5 Tapered Roller Bearings**
Tapered roller bearings on the output shaft give the reducer high overhung load and high thrust load capacities.

**6 Ball Bearings**
Ball bearings on the input shaft handle higher speeds and allow for smooth operation.
Direct Drop-In

Vortex worm gear speed reducers are a direct drop-in for most commonly used worm gearboxes. If you are ready to make the switch or want to learn more about which Vortex reducer is best suited for your application, contact your local distributor or Vortex representative. Additional information and engineering assistance are available online at www.vortexreducer.com.