

## Tips for Gear Drive Motors

- 1. Mount your motor as far away from the grill as possible, 6" minimum.**
- 2. Make a heat deflector to go between your grill and Motor to mount in front of your Coupling. It can be made with flashing or light sheet metal that can be bought at any hardware outlet. Use bushings or washers to have it stand off the grills hood about ½ to 1" cut a slot with beveled edges to go over your spit rod when you close the hood. This will help protect the motor and rubber driver in between the couplings from the extreme heat created during a roast session.**
- 3. The motor is not weather proof. Do not leave your motor exposed to the weather. Cover it with a grill cover, tarp, or keep it inside a building.**
- 4. You will have to lubricate the non motor end, where the solid bearing rides in the support bracket. Use some High temp white lithium grease. Dupont makes a spay can that works quite well, alternatives are Slick 50 oil additive, or good synthetic motor oil. The Dupont lithium grease is best.**
- 5. You will encounter more noise using a fast rpm motor, not from the motor, but from the beans moving against the drum. After a few roast you should not have a problem distinguishing the bean movement noise from the cracks of 1<sup>st</sup> and 2<sup>nd</sup> crack.**
- 6. If you do have trouble, use this as a guide. Smoke will start to appear as first crack gets going. It will slow or stop at the end of first crack, and will begin again 15 or so seconds before 2<sup>nd</sup> crack begins.**
- 7. If plan on doing multiple sessions you will do your motor a favor by adding a fan to blow across the motor to help it stay cool. Heat is a destroyer of electrical components, so do all you can to keep the motor cool. Under normal 1 to 2 batches the heat shield and the 6" separation should be sufficient. In the heat of the summer months a fan will be beneficial. You can use a small clip on fan found at any discount store, such as Wal-Mart, or Bed, Bath, and Beyond.**
- 8. When mounting your drum in the grill allow about 1/32" space between the couplings to eliminate binding.**