
INSTALLATION AND MAINTENANCE

Installation of OPL & OPL-R Clutches

Installation Procedure

1. The unit comes completely assembled, and there are no gaps to set. The unit must only be mounted in the horizontal position. If the unit is used or handled in a slanted or vertical position, powder distribution and therefore torque will not be consistent. Care should be taken not to apply any type of sharp impact or shock to the unit.
2. OPL units are normally shipped with custom shafts to meet a specific customer requirement. The support bracket manufactured by the customer is required to hold the unit in place. Plastic bearing units can not take any direct side load, so load must be carried by customer supplied gear or pulley on the shaft and then be coupled to the OPL housing. For units with bearings care should be taken not to exceed bearing load limitations.
3. OPL-R units are connected from the bore to the housing via a shaft, gear or pulley coupling connection. Plastic bushing units can not take any side load therefore all axial load must be carried by either the customer supplied pulley or gear. For units with bearings, care should be taken not to exceed bearing load limitations.

Pre-Running Process

Particles may become packed unevenly during shipping, so the following pre-running process is recommended to allow for even particle distribution before the unit is run at the full application requirements. This is for initial operation only.

1. Rotate the input shaft for a few minutes to distribute the particles. This can be done on the bench or on the machine and should be done in the horizontal position.

Continuous Slip Operation

Units are designed to run continuously up to their maximum RPM. If maximum RPM is exceeded units will develop more heat than they can dissipate and will fail.

Maintenance

1. The magnetic particles must be kept free of moisture. The unit will not be able to perform at its optimal level and clutch torque will become significantly unstable if water or oil is admitted into the unit. The unit should not be stored in an environment with high humidity or condensation. If the unit is mounted near speed reducers or other equipment containing oil,

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care should be taken not to allow any oil to spill onto or around the clutch. The unit is sealed, but any oil or water placed on the unit may still migrate into the particle chamber.

2. As the magnetic particles wear, their sharp edges will become rounded. This wear will be noticeable as a gradual decrease in clutch torque. Once torque no longer meets the machine's requirements the unit should be replaced.

