# **OLDHAM COUPLING CPG**



CPG is an Oldham coupling that connects the motor section and encoder section inside the servo motor.

### · Easy to install

Using Oldham coupling makes the encoder field replaceable. With settled initialization, the position can be retained after encoder replacement. This feature is ideal for field repairing of medium/large servo motor while encoder can be replaced without removing the motor.

### · Heat isolation from motor

Slider of the Oldham coupling made in resin prevents the temperature rise caused by coil heat generation from being transmitted to the encoder side, eliminating encoder malfunction.

### · Shaft misalignment absorption

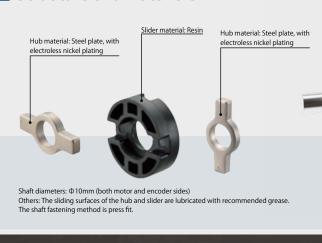
Oldham coupling absorbs installation errors of shafts of motor and encoder, resulting in encoder protection.

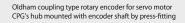
### · High-precision and smooth torque transmission

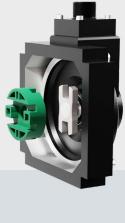
Coupling's components are machined with high precision.

### Small hysteresis loss and excellent durability

### Structure and Materials









# **OLDHAM COUPLING CPG**

## Application 1

### Specifications

· Rated torque: 0.05 Nm

· Rated rotation speed: 3000 min-1

· Operating temperature: 0-110 °C

· Misalignment:

• Parallel 0.1 mm Angular 0.1° Axial ± 0.3 mm

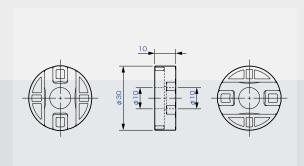
### **Dimensions**

· Outer diameter: 30 mm

· Shaft diameter: 10 mm

· Overall length: 10 mm





- Low reaction force and excellent in heat isolation.
  Avoid the negative effect to encoder applications.
- Coupling absorbs the eccentric contraction by thermal expansion of motor shaft
- · High resistance to abrasion in sliding part. Long life.

# Application 2

### Specifications

· Rated torque: 0.05 Nm

Rated rotation speed: 3000 min<sup>-1</sup>

 $\cdot$  Operating temperature: 0-110  $^{\circ}\text{C}$ 

· Misalignment:

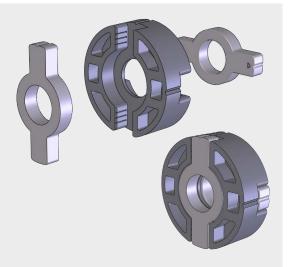
• Parallel 0.1 mm Angular 0.1° Axial ± 0.3 mm

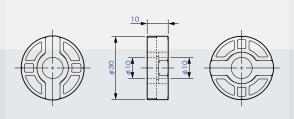
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