Ever-Power®

Timing Belt Mechanism Trial Run Inspection Guide

After operating the timing belt mechanism for several minutes during trial run, please inspect the following items and take appropriate measures if issues are found. For safety, ensure the timing belt has completely stopped and power is disconnected before inspection. Never allow hands or body parts near the pulleys or timing belt during operation.

1. Timing Belt Climbing onto Pulley Flange

- Symptom: The timing belt shifts during operation and climbs onto the pulley's flange.

- Solution: Adjust pulley alignment to ensure precise centering.

2. Timing Belt Resonance Occurrence

Symptom:Vibration or resonance is observed during operation.

Solution:

- Adjust the initial tension (installation tension) of the timing belt.

- Gently press the backside of the belt to check if repositioning of idler pulleys is required.

3. Timing Belt Tooth Jumping

Symptom: The belt teeth skip over the pulley grooves.

Solution:

- Increase the initial tension of the timing belt.

- If jumping persists after tension adjustment, the load may exceed the belt's design capacity—consider redesigning the transmission system.

4. Abnormal Decrease in Timing Belt Tension

Symptom: Noticeable reduction in belt tension.

Solution:

- Check if the sliding base is loose and secure it.

- Verify proper meshing between the belt and pulley teeth during installation;

readjust tension if necessary.

Safety Reminders:

- Never approach pulleys or the timing belt during operation.

- Always disconnect power and ensure complete stoppage before inspection or adjustment.

For more detailed technical support, please provide equipment parameters or specific issues—our technical team will be glad to assist further!