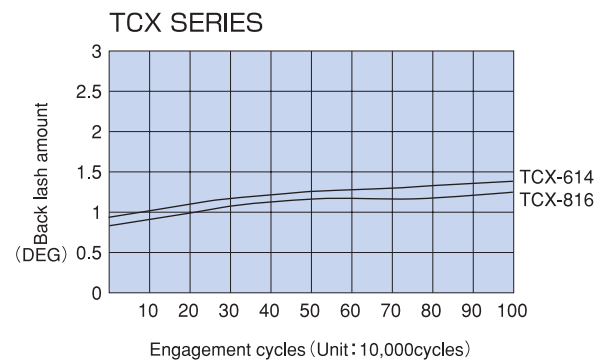
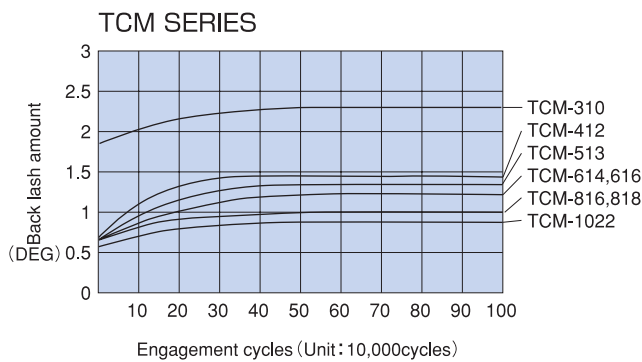


## 4. TEST RESULTS

### Test conditions

- (1) Engagement cycle : 240 cycles/minute
- (2) Oscillation angle: 30 degrees
- (3) Radial load : 9.8N (1Kgf)
- (4) Shaft material: ASTM W1-10
- (5) Shaft tolerance zone: JIS h9 or more
- (6) Surface Hardness: 700Hv

Note : 1. After 1,000,000 engagement test with a rated torques load, every TCM and TCX clutch had a slight increase in back-lash, but was within the company's standards of 2.5 degrees.  
 2. Applied torque for measuring back-lash : 0.098N·m(1Kgf·cm)



## 5. RECOMMENDED SHAFT SPECIFICATIONS

When inserting the shaft into a uni-directional clutch, turn the clutch in the direction of the free rotation. Any sharp edge around the shaft use be chamfered or removed. The above test was achieved using a grounded shaft of bearing steel, hardened to 600 to 800 Hv. Stainless Steel and free cutting steel may also be used in standard operating conditions.

### Note:

Operating temperature: 0 degrees C to 60 degrees C (For higher temperature use, please contact our sales/engineering department).

Some surface treatments to the shaft may reduce clutch functions

Low surface hardness or soft materials may reduce the full life of the clutch, only use materials that are recommended by our engineering department.

In order to avoid improper operation or malfunctions do not use the uni-directional clutch under these conditions:

1. Direct vibration from machines
2. void shaft sliding due to axial force
3. The use of solid lubricants
4. In high dust areas

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Product specification are subject to change without prior notice.

**Before assembly or use of any bearing, please read "Caution for Use"**