TSUDAKOMA Original Next-Generation Drive mechanism

BallDrive®

The perfect drive system 'BallDrive®' realizes the highest accuracy level and no-backlash.

- No-clamp machining at a light load with no-backlash, high speed and high rigidity.
- Shorten cycle time to improve your productivity by zeroizing of clamp/unclamp time and more than double indexing speed ※

**Cycle time reduction**

Twice as fast as the current model
Clampless machining

**Power saving**

High transfer efficiency with a ball rolling system

**No backlash**

High accuracy machining without backlash

**High rigidity**

Stable positioning using a powerful clamp

**Maintenance free**

Extremely small aged deterioration
Original precision is maintained

※In-house comparison
HIGH-LEVEL PERFORMANCE PROVEN IN MACHINING FIELDS

BallDrive NC Rotary Tables

**Basic model**

**RBS-series**

**High-performance model with the drive system uniquely developed**

- **No backlash**
  Ideally meshing rolling of steel balls with cam shaft achieves no backlash, ‘play’ at drive parts. It realizes the highest accuracy level for both indexing accuracy and repeatability.

- **High Speed**
  It enables smaller speed reduction ratio comparing with other drive system and more than twice as fast as worm gear.

- **High rigidity**
  High rigidity of BallDrive enables strong clamp and no-clamp machining at a light load.

BallDrive NC Tilting Rotary Tables

**Basic model**

**TBS-series**

**High-end Next-Generation model pursuing productivity improvement**

- **No backlash**
  Ideally meshing rolling of steel balls with cam shaft achieves no backlash, ‘play’ at drive parts. Machining accuracy and wear resistance is excellent in simultaneous 5-axis machining.

- **High Speed**
  It enables smaller speed reduction ratio comparing with other drive system and more than twice as fast as worm gear at both rotary and tilt axis.

- **High rigidity**
  High rigidity of BallDrive enables strong clamp and no-clamp machining at a light load.

*In-house comparison*