

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

RBS

TBS

RWE/RWA
RN

RWE/RWA-B
RNCV-B

RNCM

RWB

RWB-K
RNCK

RCH
RNC

RCV
RNCV

Multi-Spindle
RN-N

TWA/TN

TTNC

THNC

Multi-Spindle
TTNC-N

RDS

RTV
RTT

RCB

NC Controllers

Accessories

Options

Technical
Information

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