

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 ※

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

Cycle time reduction

Twice as fast as the current model
Clampless machining

Power saving

High transfer efficiency with a ball rolling system

※In-house comparison

HIGH-LEVEL PERFORMANCE PROVEN IN MACHINING FIELDS

BallDrive NC Rotary Tables

Basic model

RBS/TBS-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.

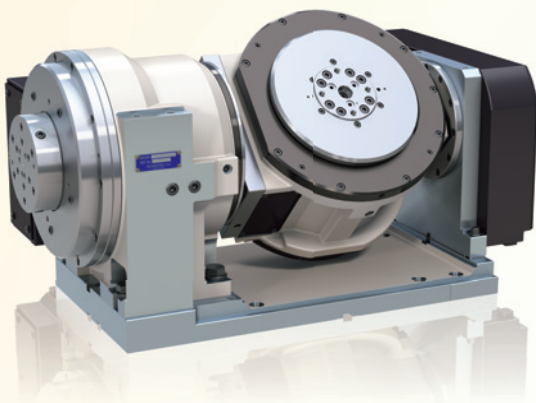
※In-house comparison

Direct Drive NC Tilting Rotary Tables

Milling and Turning Model

TDS/TDB

*Turning and Milling in One Chucking!
Process Integration with this One Unit*



High Speed

DD motor drive enables high-speed indexing and simultaneous 5-axis machining.

Turning and Milling

Enables turning at MAX 3,000 min⁻¹. The turning and indexing/milling machining processes, previously done in separate processes, are now integrated in a single machine. Machining in one chucking reduces setup time between different processes and increases workpiece accuracy.

No backlash

Achieve high-precision machining without backlash due to DD motor drive.

No reduction mechanism and no wear. Maintenance is basically unnecessary.

RBS

RBH

Multi-Spindle
RBM

TBS

RWE/RWA
RN

RWH

RWA-B
RNCV-B

RWB

RWB-K
RNCK

RCB

RCH
RNC

RCV

Multi-Spindle
RWM

TWA/TN

TWB
TTNC

Multi-Spindle
TWM

RDS

RTV
RTT

TDS
TDB

NC Controllers

Accessories

Options

Technical
Information