

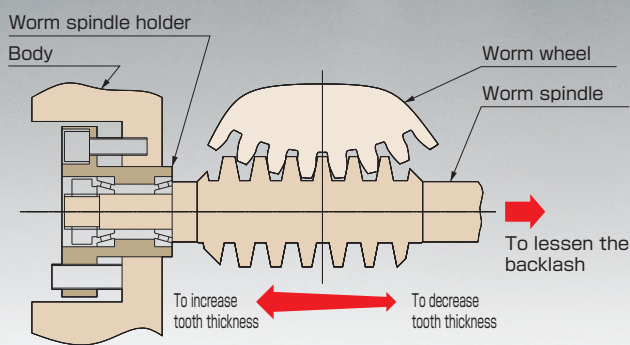
# EXCELLENT BALANCE OF SMOOTHNESS, POWER AND DURABILITY BY SPECIAL GEAR SYSTEM ASSURES THE ULTIMATE IN PERFORMANCE

## TSUDAKOMA specially designed double-lead worm gears with full-depth teeth

The setting of the lead amount on this gear system is different depending on the rotating direction of the worm wheel and the worm spindle. By moving the worm spindle axially, the tooth engagement can be changed successively. As the backlash between the worm wheel and the worm spindle can be adjusted while keeping them in their proper positions, the ideal tooth engagement is maintained.



**Gear system**



**Materials**

Worm spindle: Case-hardened alloy steel  
Worm wheel: Special high-tensile brass equal in strength to a steel alloy

**Torque transfer efficiency**

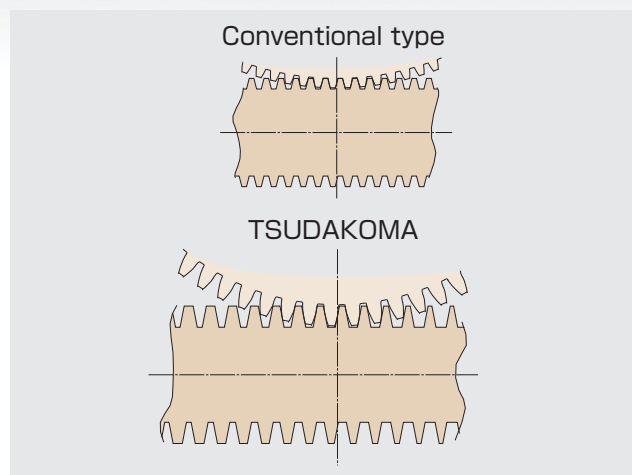
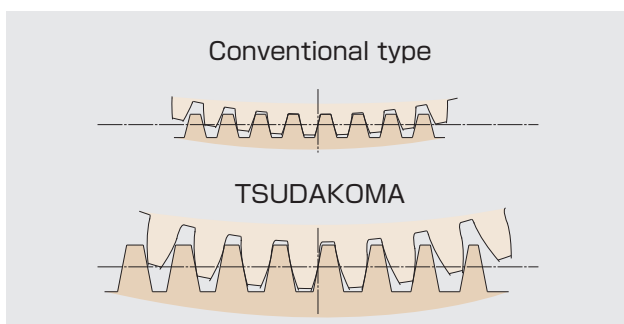
The combination of iron and brass produces less friction. A more effective transfer of the motor torque is achieved compared with other combinations of materials.

**Larger worm wheel**

The worm wheel with a large pitch diameter creates a large engagement area and less pressure on the contact surface, resulting in high durability against wear compared with conventional gear system.

**Tooth profile**

The adoption of full-depth gear teeth, instead of standard teeth, results in higher strength equal to that of a gear of a size larger in module.



## NC Rotary Tables

Basic models

# RWE/RWA-series

**New standard for the ultimate in power and speed**



### High Speed

The specially designed double-lead worm gear system with full-depth teeth of increased torque transfer efficiency minimizes the speed reduction ratio, improving the indexing speed. The machining cycle time is reduced.

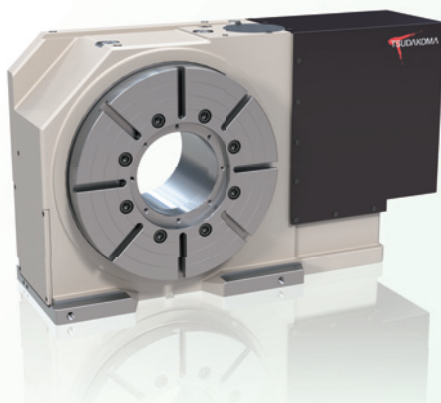
### Strong Clamp Torque(RWA-series)

The newly developed clamp mechanism using pneumatic pressure realizes powerful clamping. The cutting feed speed is increased. Responsivity is also increased.

Big bore models

# RWB-series

**Flagship models of single-axis NC table**



### Newly developed strong hydraulic clamping system

New clamping system enables 25% stronger clamping torque than previous model. It realizes stable machining at a distance from rotary center.

### Strong strength of worm gears

Strength of worm gears improves 70% to 130% higher than previous model. It realizes 1 size stronger strength than previous model, which provides downsizing of the model.

### Indexing accuracy 14 sec.(the sum) guaranteed

Our high quality control enable us to take an another step forward to elevate the indexing accuracy.

## NC Tilting Rotary Tables

Basic tilting models

# TWA/TN-series

**Best partner for five-axis machining**



### High Speed

The specially designed double-lead worm gear system with full-depth teeth of increased torque transfer efficiency minimizes the speed reduction ratio, improving the indexing speed. The machining cycle time is reduced.

### Strong Clamp Torque

The newly developed clamp mechanism using pneumatic pressure realizes powerful clamping. It is rigid enough for machining even at a position far from the tilting axis.

### Variety of Options

In addition to the automatic work mounting and dismounting arrangements by a pull-stud device as well as pneumatic or hydraulic rotary joint, high precision specifications using a scale is also available.

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