



HALL:106 | BOOTH:NO.6J01

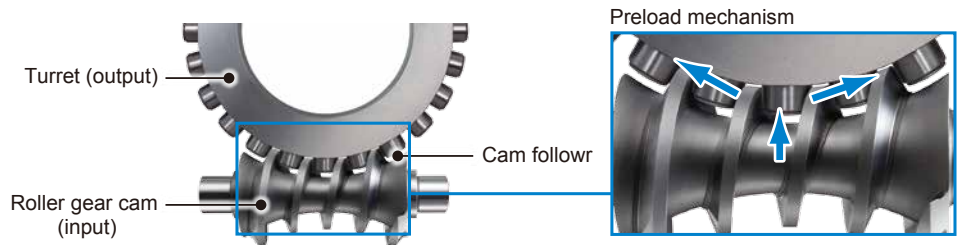
# GUIDE BOOK



 **SANKYO** WORKS (THAILAND) CO., LTD.

# The ZERO-Backlash Reducer **RollerDrive**<sup>®</sup>

**Exclusive  
zero-backlash  
construction**



## Shorter positioning time

### Time comparison for 90° positioning

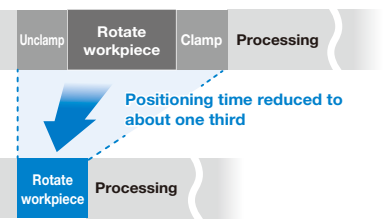
#### Conventional worm gear

- ▶ Clamping using hydraulic pressure or air pressure is required to suppress backlash.

#### RollerDrive

- ▶ Zero backlash and high rigidity eliminate the need for clamping. Compared to the worm gear type, positioning time is reduced to about one third.

Conventional  
worm gear  
(with clamp)



(Based on in-house calculations)

## Extended Accuracy

### Compared against a worm gear for over 5 million indexes.

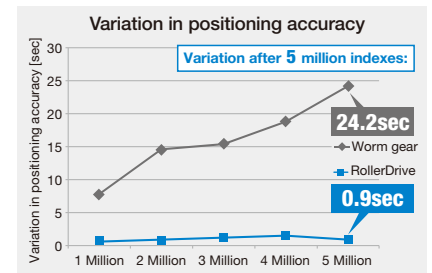
#### ▶ Test conditions

- Table size: Output table diameter: 170 mm
- Load inertia: 0.5 kgm<sup>2</sup>
- Index angle: 36° (unidirectional)
- Indexing time: 0.35sec

#### ▶ Results after 5 million indexes:

Item	Worm gear	RollerDrive
Variation in positioning accuracy	24.2sec	0.9sec
Backlash (measured at R60)	18 μm (15 μm → 33 μm)	-

(Based on internal testing data.)



## Product Guide & Application

### MR Series

Ultra minimum RollerDrive



### RA Series

Light-Weight-Ultra precision



### RU Series

High Rigidity-Versatility



### RW Series

Heavy loads-Ultra precision



### SP Series

Welding Positioner



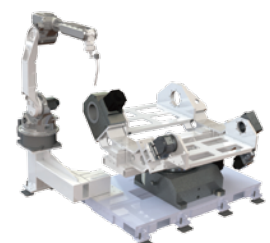
### Pick & Place



### Welding Positioner



### Multi-axis Welding Positioner



## Indexing Drives / Pick & Place Units

# Sandex

### Product Guide & Application

#### AD Series

Drive unit integrated model



#### ED Series

Eco model



#### D Series

Shaft model



#### MI Series

Small model



#### FH Series

Rotary Pick & Place Unit



#### GY Series

Linear Pick & Place Unit



## Overload Protection Devices

# TORQUE LIMITERS

### Product Guide & Application

#### TF Series

Flange model



#### TC Series

Coupling model



## Long Stroke Linear Drive Unit

# LinerUnit

### Product Guide & Application

#### CS Series

New-Technology Linear Unit



#### Robot conveyance



#### Suspended robot conveyance



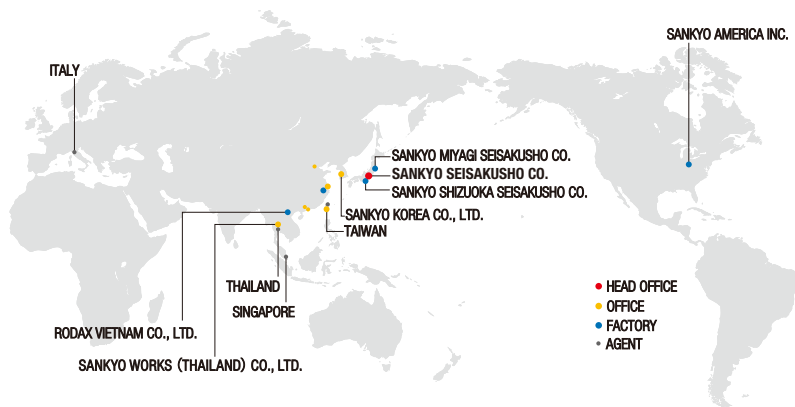
#### Gantry Loader



#### Pick & Place



## Global network



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