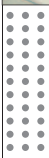
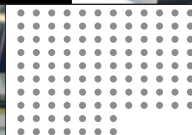
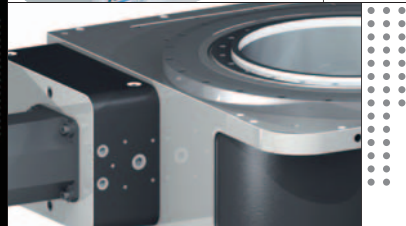
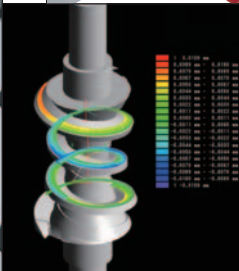
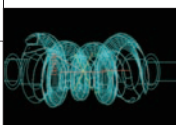
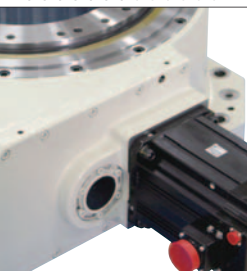
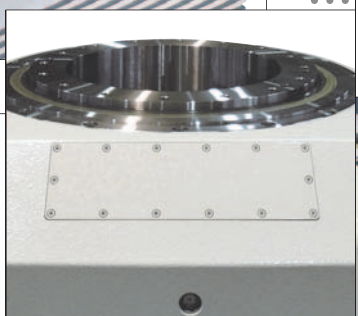
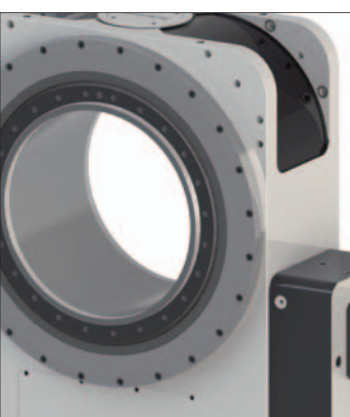


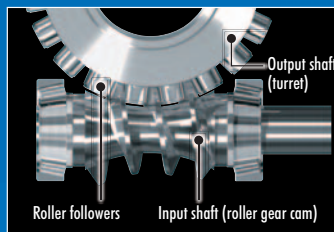
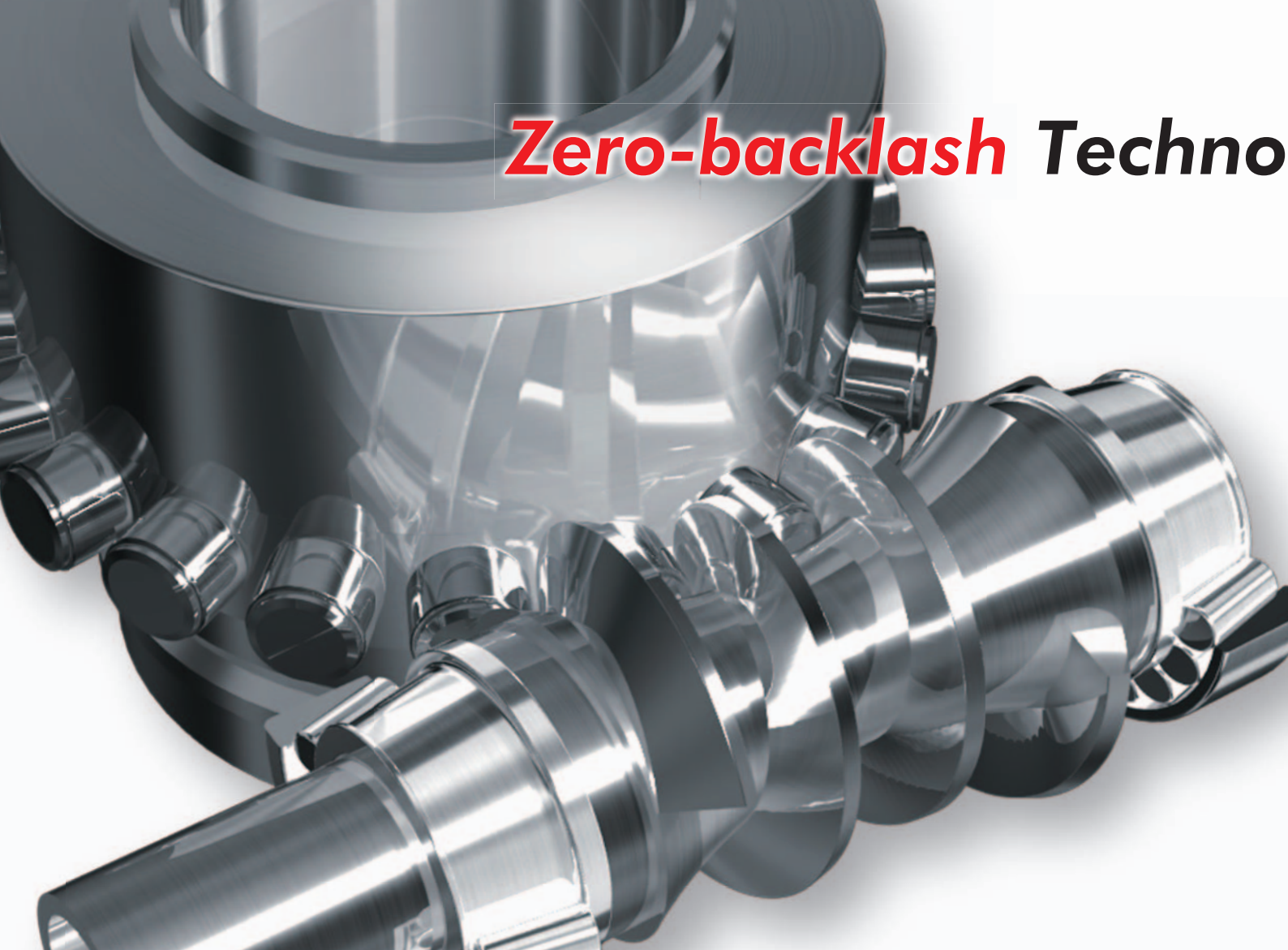
The **ZERO-Backlash** Positioner
RollerDrive®



RollerDrive Product Guide

- RA series
- RU series
- RW series

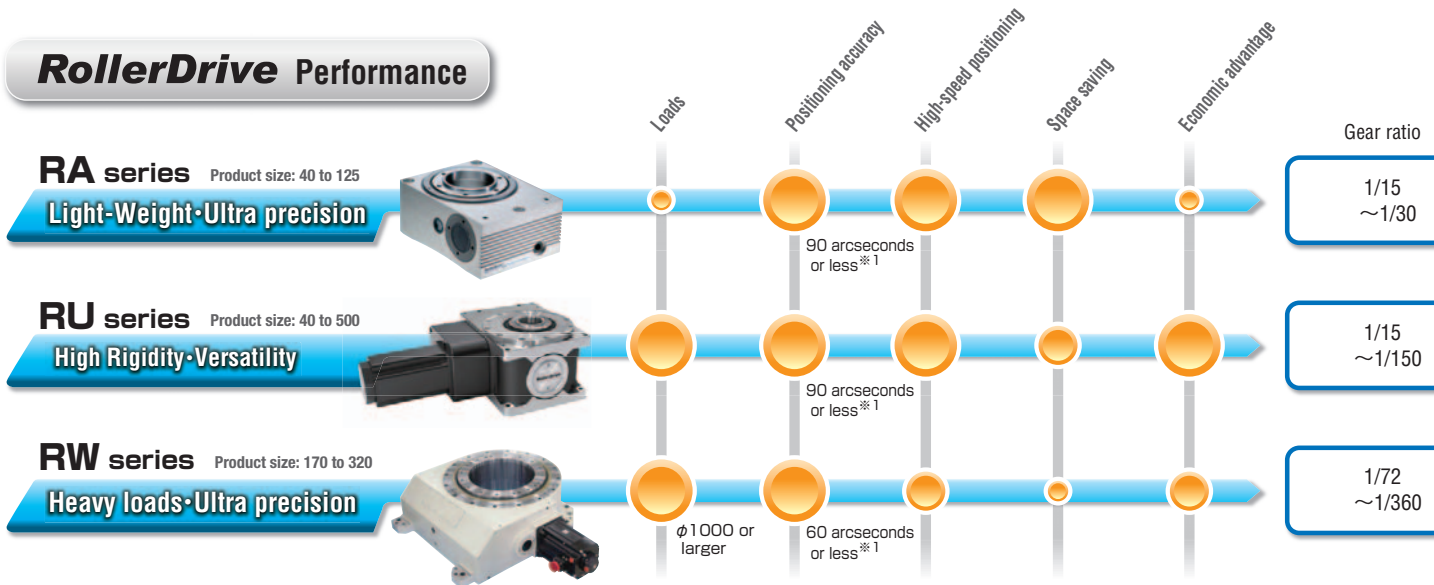
Zero-backlash Techno



Preload structure

Wedge-shaped ribs on input shaft contact roller followers under preload to eliminate backlash completely.

RollerDrive Performance



※1 Size of dots in figure denote overall accuracy. ※2 Maximum output refers to maximum torque at starts and stops.

Technology Delivers Unsurpassed Motion

The **ZERO-Backlash** Positioner

Ultimate Rotary Positioner.

Featuring a roller gear cam mechanism that offers accuracy, rigidity, and durability.

The most outstanding feature of the RollerDrive is its ability to deliver output motions faithfully true to the control input. This is the result of the preload mechanism unique to roller gear cam mechanisms which eliminates all traces of backlash. Roller followers transfer power from the input shaft to the output shaft through rolling contact, which eliminates wear and also maintains the initial accuracy of the unit for prolonged periods of use. Also possible to stop instantly at the emergency and it has high durability against shocks for instantaneous stop.

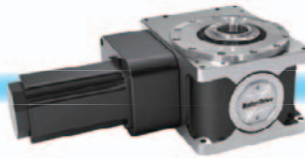
The RollerDrive encompasses the performance not available with a stand-alone motor in a small footprint. For instance, it can index at high-speeds while delivering powerful torque and high precision, and it can position dynamically while offering noise resistance and self-clamping properties that stand up to machining loads while supporting work. All this is achieved through mechanical means. As for ease of use, the thin compact form and large diameter output hollow hole serve as the concept of design, flexible mounting positions, one part of models helps reduce totally the burden on designing the RollerDrive into equipment, such as the aluminum alloy housing which offers excellent heat dissipation.

These excellent properties are the exclusive benefits of a mechanical design that makes the RollerDrive indispensable for robots, machining centers, and other state-of-the-art factory automation applications in the high-tech industries. Today, more than 20,000 RollerDrives continue to boost the productivity of factory automation equipment all over the world. Our comprehensive lineup of RollerDrive products offers the perfect solution for equipment, or on the production floor.

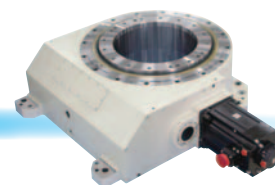
RollerDrive Major Products



RA | High-end model featuring an array of RollerDrive technology in an easy to use package.



RU | This all-purpose model is usable for various applications.



RW | This is high efficiency model for Heavy loading Positioner.



Rolling transfer

Torque is transferred from the input to the output by rolling action of the roller followers. Rolling contact holds initial accuracy semi-permanently.



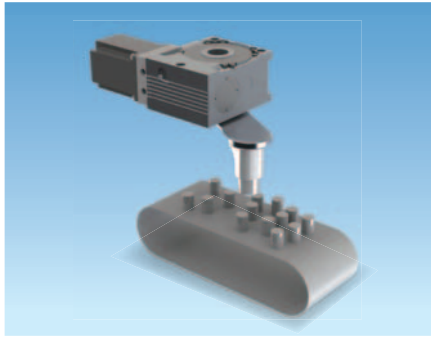
Cross roller

(RA Series, RW Series only)

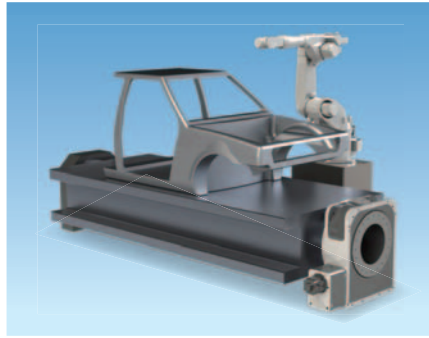
Output shaft bearing is a single piece design with built-in cross roller bearings. Minimum surface runout of Thin Compact Form and Output Shaft.

Max output torque [N·m]	Positioning accuracy [arcseconds or less]	Rated output speed [min ⁻¹]	Allowable axial load [N]	Allowable moment load [N·m]	Profile height [mm]	Diameter of hollow output shaft [mm]	Casing material	Weight of main unit [kg]
55~1,150*2	40~90	20~60	1,000 ~8,170	30~760	70~140	φ25~115	Aluminum alloy	2.5~36.3
100 ~26,090*2	40~90	12~60	3,000 ~180,000	100 ~200,000	100~405	φ20~600	Cast iron	9~1,715
1,000 ~8,000*2	30~90	10~35	61,000 ~201,000	5,500 ~10,700	210~295	φ180~360	Cast iron	120~650

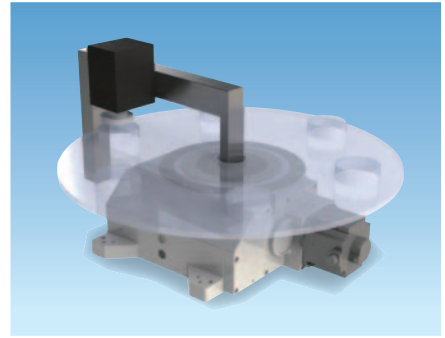
Applications



Inspection device (RA Series)



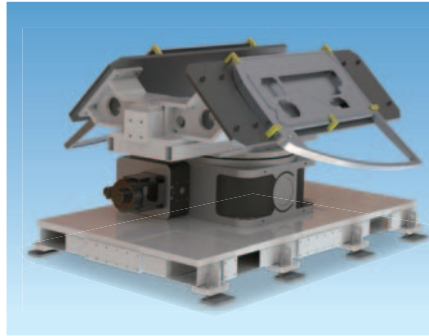
Automotive Welding and Assembly Process (RU Series)



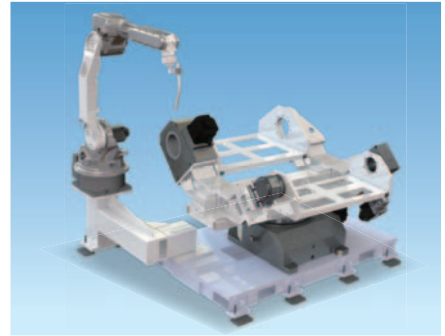
Rotary Table for the use of Hollow Shaft (RW Series)



Turning, Oscillating Arm (RA Series)



Oversized Welding Positioner (RU Series)



Oversized Welding Positioner (RW Series)

Global network

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<http://www.sankyo-seisakusho.co.jp>

Specifications and dimensions are subject to change without notice.
Consult Sankyo sales before ordering.