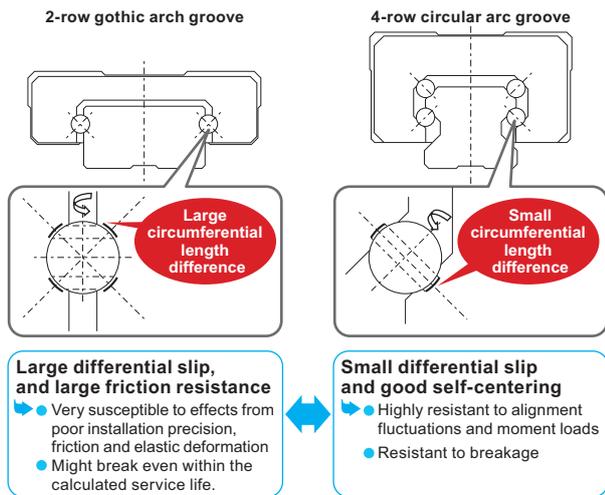


This is why the XY-X is terrific! —

1 Uses a 4-row 2-point groove guide rail for superb durability!

The XY-X uses 4-row circular arc groove 2-point contact guides having minimal differential ball slip. These can handle large static loads when compared to 2-row Gothic arch 4-point contact guides and deliver a stable product service life even on Cartesian robots where a constant moment is applied.



2 Tough & highly reliable resolver

The position detector is a resolver. The resolver has a simple yet strong structure using not electronic components or elements and so has great features such as being extremely tough in harsh environments as well as a low breakdown rate. The resolver structure has none of the detection problems that occur in other detectors such as optical encoders whose electronic components breakdown or suffer from moisture or oil that sticks to the disk. Moreover, **mechanical specifications for both absolute and incremental specifications are common to all controllers** ^{Note 1} so one can switch to either absolute or incremental specifications just by setting a parameter. Also even if the absolute battery is completely worn down, the XY-X can operate on incremental specifications so in the unlikely event of trouble one can feel secure knowing that there will be no need to stop the production line. The backup circuit has been completely renovated and now has a backup period extending to 1 year. ^{Note 2}



Note 1. Not including the ERCD and RD series that are only for incremental operation.

Note 2. Exclude ERCX, DRCX

3 Streamlined maintenance tasks

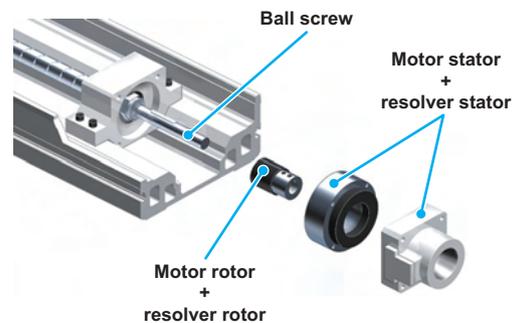
Even though it uses a built-in structure, components such as the motor and ball screw can be replaced individually so maintenance tasks are smooth and simple.

4 Complete line-up

Full spectrum robot lineup includes the compact and low-priced PXYx type, the long distance HXYLx type conveying payloads up to 50kg, and the NXY that supports double-arm specs with a hollow servo motor in the X-axis. Full selection of arm and performance variations is perfect for meeting diverse customer needs. We also accept special orders for models not listed in the catalog. Feel free to consult us for help in meeting your special work needs.

5 Lightweight & compact

Ball screw drive motor is built directly into the unit with no coupling. This arrangement eliminates dead space and delivers a smaller unit footprint.



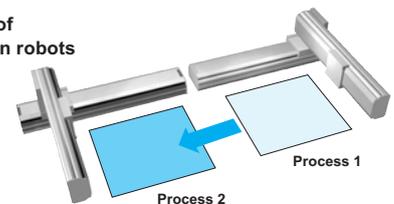
6 Reasonable price

We achieved an even lower price by cutting down on the number of parts while boosting basic performance. Using a resolver in the structure helped to finally eliminate the "absolute units are expensive" idea. Moreover, the mechanical components are the same regardless of whether incremental or absolute unit specifications are used.

7 Supports double Y axis standard specs

The NXY with its nut rotation type structure supports a double Y axis where 2 carriers are placed along the same axis. The compact unit formed here by 2 Cartesian robots not only boosts work efficiency but saves space at a low cost.

Layout using 2 units of conventional cartesian robots



Space saving & process aggregation using NXY-W

