

High reliability/High speed transfer of 0.5 sec. per cycle

High speed production line compatible

High speed tact time of 0.5 sec. per piece. Compatible with high speed production lines of 7,200 pieces per hour.

High accuracy of ± 0.02 mm

Repetitive positioning accuracy of ± 0.02 mm. Suitable for a production line of precision parts or electronic parts for which accuracy is required.

Compact and thin

Compact and thin design. Small footprint.

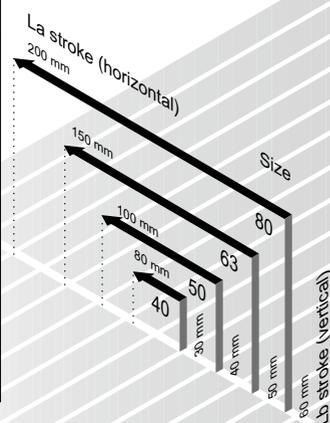
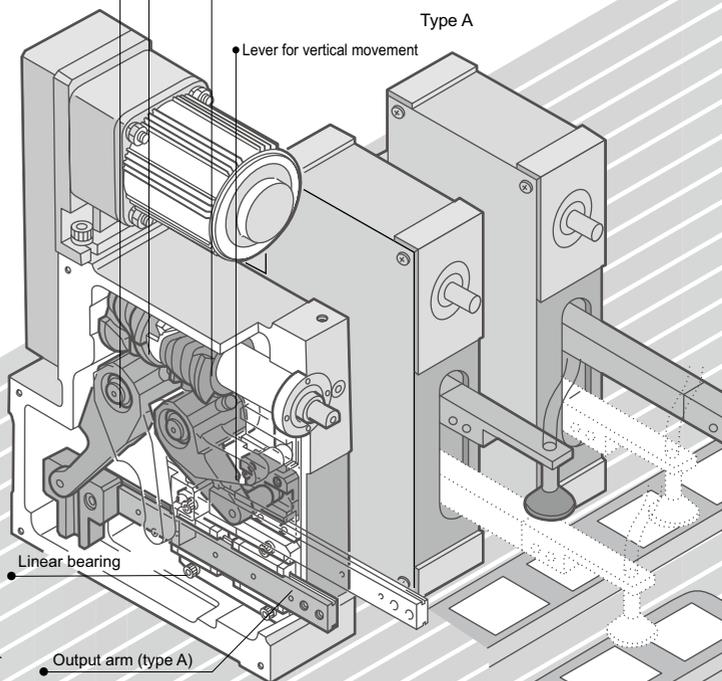
Two different output types for your applications

Arm (type A) and Table type (type B) are available.

Four models with different strokes and capacities

Horizontal stroke: 80 to 200 mm
Size: Available in 4 sizes of 40, 50, 63 and 80.

Roller gear cam for horizontal movement
Horizontal movement lever
Roller gear cam for vertical movement
Lever for vertical movement

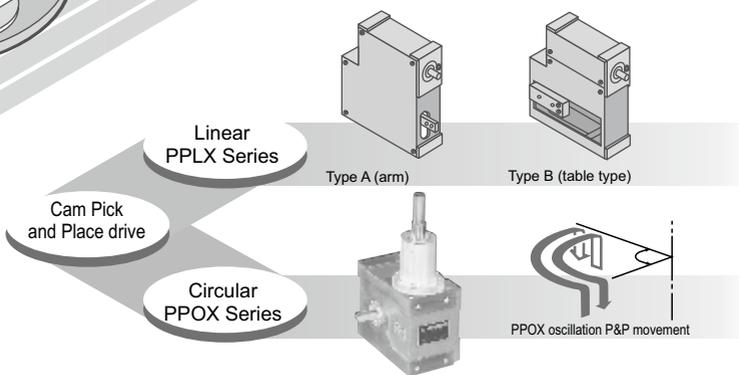
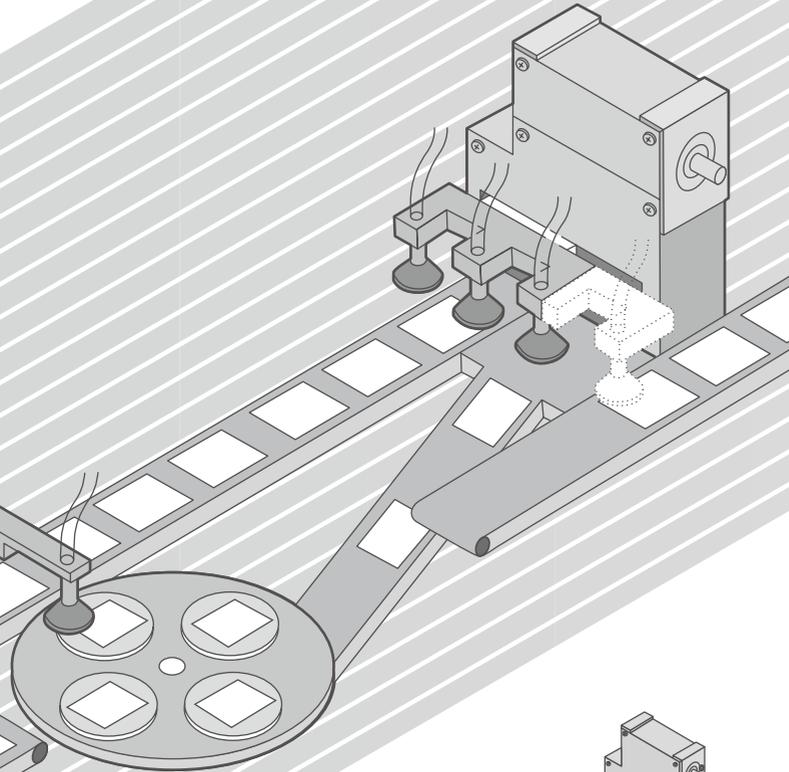


PICK & PLACE

Achieving high speed drive and high positioning accuracy. Compact and thin straight P&P drive, PPLX Series.

Index drives in the PPLX Series are compact and thin and are Pick & Place units that move in straight lines. Roller gear cams, proven to yield high positioning accuracy with high speed drive are utilized. The two models, the Arm (Type A) with a small footprint and the Table type (Type B) high load and high rigidity, exhibit their powerful attributes in transporting small works in a straight line to conveyors, etc.

Type B



Product specifications

Pick and Place drive Linear Circular	Roller gear cam drive			Option
	Basic	Wide angle	Table	
	Standard	Compact		
Parallel cam drive				

Motion and explanation

Timing chart

Product specifications

- The timing chart is essential when determining the specifications of a cam P&P drive as well as the model number. Create the timing chart referring to the examples below.
- When you drive the input shaft intermittently, set up dwell angle as a standby point as in the following examples, and determine the timing so that the cycle can be stopped within the dwell interval.
- Use overlap effectively so that load is reduced and work time (dwell interval) is ensured.
- Calculate overlap referring to "Index drive Catalog (Cam curve characteristics table)." (The standard cam curve for PPLX is MS curve.)
- The min. index angle in the rated dynamic payload table is for the chart examples 1 and 2. For the min. index angle in example 3 in the chart below, contact CKD.

Compact

Standard

Table
Roller gear cam drive

Wide angle

Basic

Parallel cam drive

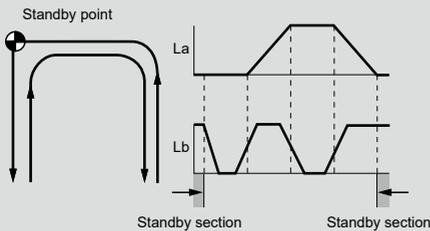
Linear Circular
Pick and
Place drive

Option

Timing chart example

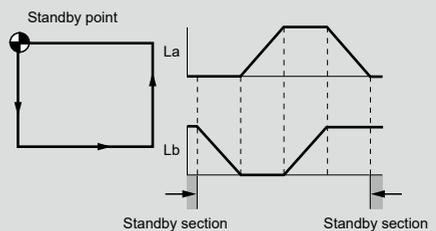
Pick & place

1 Standard chart

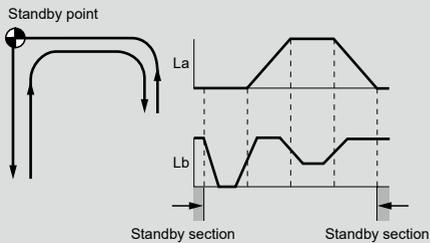


Transfer

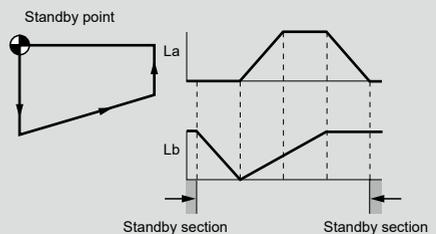
1 Standard chart



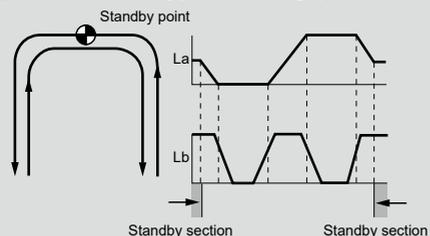
2 Chart for a different path level (different amount of lift)



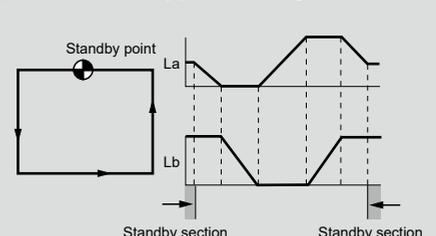
2 Chart for a different path level (different amount of lift)



3 Chart with a standby point (dwell angle) in movement

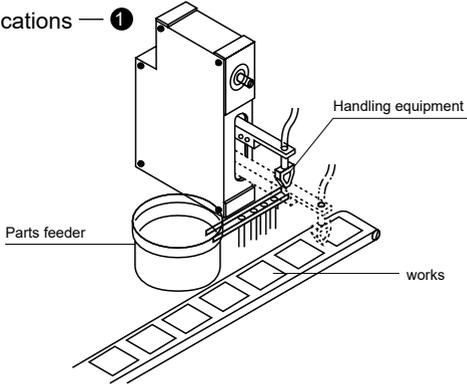


3 Chart with a standby point (dwell angle) in movement



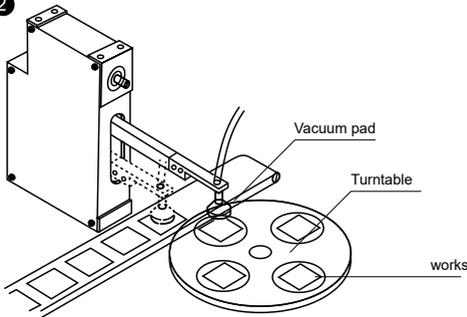
Type A (arm)

Applications — ①



Using the handling attachment, parts from the parts feeder are transferred onto the conveyor line.

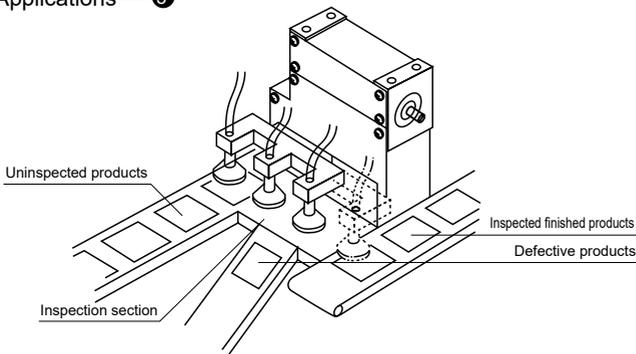
Applications — ②



The vacuum pad attachment transfers parts on the straight conveyor line to a turntable to go to another process, and puts them back to the original line after the processing is done.

Type B (table type)

Applications — ③



The attachment with 3 vacuum pads transfers uninspected products to the inspection process, and transfers the inspected products to the next process line while discarding the defective products.

Roller gear cam drive	Compact
	Standard
	Table
	Wide angle
Parallel cam drive	Basic
	Option
Pick and Pass drive	Linear
	Circular