

Stable operation Mechanical indexer

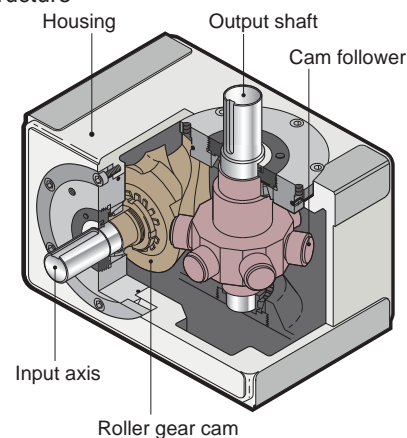
Mechanical indexer is a unit in which the input shaft rotates at a constant speed so that the output shaft moves and stops repeatedly at a constant cycle.



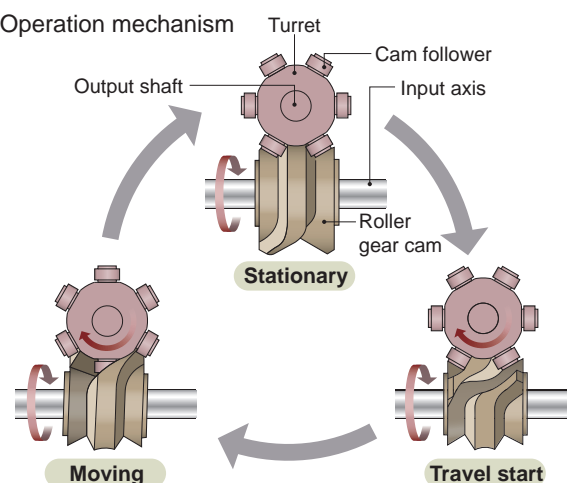
"Roller gear cam unit" that is good at high precision indexing

The Roller Gear Cam is a Mechanical Indexer in which the input and output shafts are orthogonal. The cam followers are radially aligned at the turret of the output shaft and are in contact with the cam mounted on the input shaft, which is always preloaded and driven.

● Internal structure



● Operation mechanism



Line-up			Size						Catalog page
			04	05	06	08	11	14	
Roller gear cam unit	ZRS	Index operation	●	●	●	●	●	●	1
		Oscillating operation	●	●	●	●	●	●	
Max. table O.D. (guideline) mm			400	500	630	800	1100	1400	

Secure positioning and high reliability



Positioning with high precision, and while stopping, firmly holding the stop position with the mechanical lock.

Index operation		
Indexing accuracy	1 stationary	±30 seconds
	2 stationary	±60 seconds
Repeatability		±15 seconds

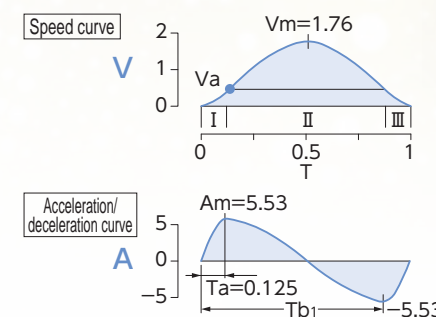
Oscillating operation	
Indexing accuracy	±60 seconds
Repeatability	±15 seconds

* Some values may differ depending on the model No.

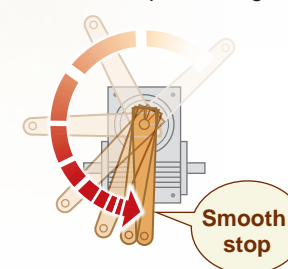


High motion characteristics

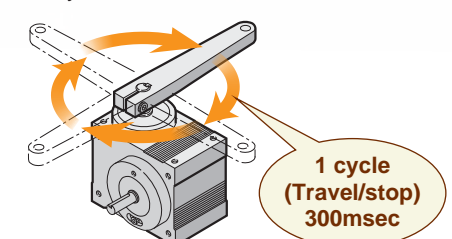
Smooth acceleration/deceleration by the cam enables high-speed and high-cycle operation.



● Shockless positioning

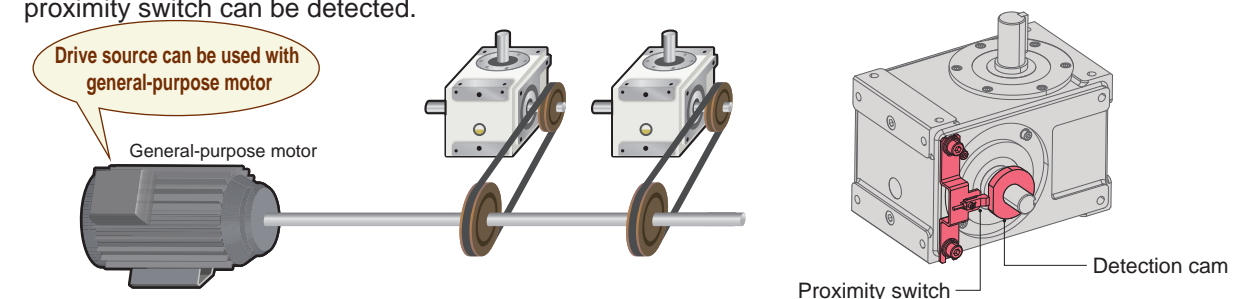


● Min. cycle time 300msec



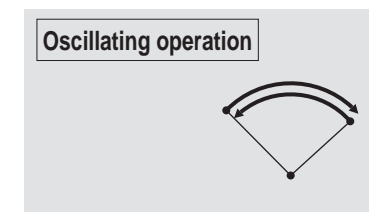
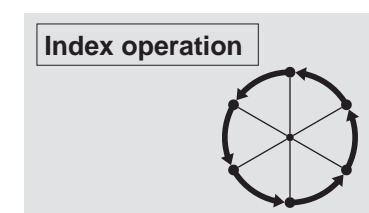
Synchronous operation enabled with a general-purpose motor

General-purpose motor can be used as the drive source. Synchronized operation with multiple axes and other mechanisms is also possible. By attaching a detection cam to the input shaft, the timing signal from the proximity switch can be detected.



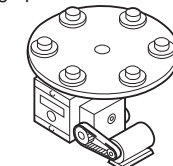
Two motions available

The output shaft is continuously moved and stopped at a defined angle. Select between indexing operation and oscillating operation.

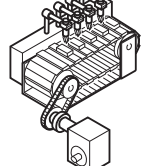


Examples of applications

● Table indexing operation

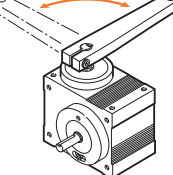


● Conveyor pitch feed



Examples of applications

● Arm transport



● Slider forward reciprocation

