

ROLLER CAM TYPE

- » The roller cam consists of an input cam shaft and a roller turret.
- » The roller cam is designed with rolling contact, featuring high rigidity, high speed and outstanding durability.
- » Engagement between the roller and the cam is preloaded to fully eliminate backlash, enabling the roller and cam to exhibit their ultra-high precision feature.
- » With rolling contact to transmit kinetic energy, energy consumption during drive can be dramatically reduced. This enables the roller cam to achieve over 90% transmission efficiency.



HIGH SPEED

- » The reduction ratio of gears is low that runs fast.
- » It's very efficient because it's a rolling motion.



PRECISION

- » Indexing accuracy within 20 arc-sec, repeatability with 4 arc-sec.
- » Adopt ISO 230-2, the highest international inspection standard.
- » Optional European advanced angle encoders.



RIGIDITY

- » It is not easy to distort when processing crash, and the influence of precision is small.
- » Carburizing steel and bearing steel, HRC58° ~ 60°.



LOW BACKLASH

- » Nearly zero backlash, low wear and low vibration.
- » The accuracy can be maintained for a long time without adjusting the backlash.



HIGH TOLERANCE

- » Four point rolling contact surface, mutual restraint positioning, ultra-high rigidity.
- » Important locking interface is reserved for excellent rigidity that integrated casting design.



ENVIRONMENTAL

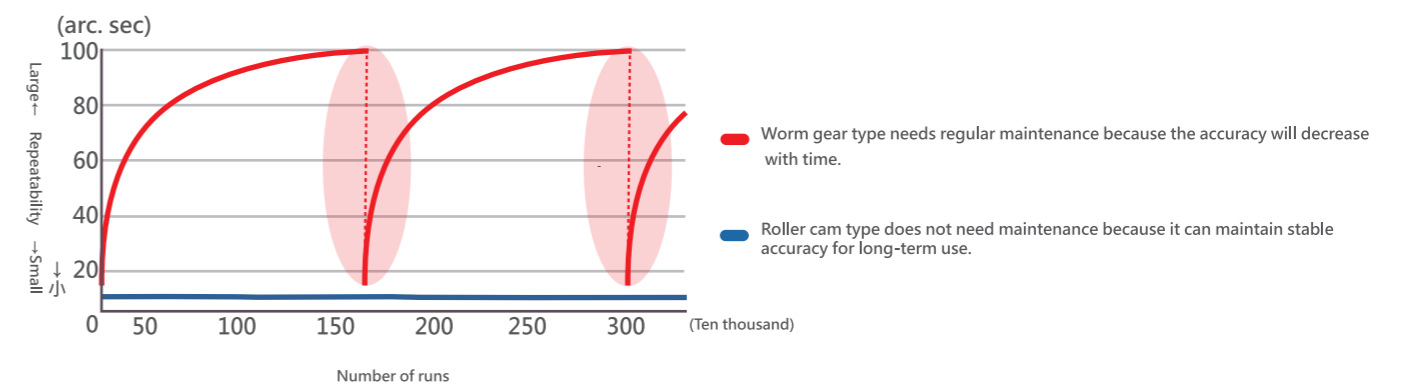
- » Low noise, fast maintenance.

COMPARISON TABLE

TYPE	SSPM ROLLER CAM	WORM GEAR	DIRECT-DRIVE TORQUE MOTOR
Engaging Parts Material And Hardnes	Cam Shaft: Carburized Steel, HRC58°~60°	Worm: Carburized steel, HRC60°	Direct Drive By Motor
	Cam Follower: Bearing Steel, HRC58°~60°	Worm gear: Phosphor Bronze, HB90°	
Contact Type	Rolling Contact	Sliding Contact	-
Backlash	Nearly Zero-backlash (within 5 arc-sec)	Backlash Required	-
Table Surface Accuracy Repeatability	Good	Low	Good
Engaging Parts Preload	Required	Not Available	Whinout
Transmission Efficiency	High	Low	High
Indexing Accuracy	Within 20 arc-sec	15~20 arc-sec	Within 30 arc-sec
Thermal Growth	Low	High	Low
High Speed	Good	Poor	Good
Dtynamic Cutting Rigidity	High	Low	Low
Durability	Good	Poor	Moderate
Backlash Adjustment	Not Need	Required	Not Need

ADVANTAGE ANALYSIS

TIME VARIATION OF POSITIONING ACCURACY



COMPARE THE INITIAL AND YEAR-ROUND CUMULATIVE PRICES

